

List of Publication 2021

Sr. No.	Authors	Title	Year	Source title	Volume	Issue	Page start	Page end
1	Ullah I., Murtaza B.N., Mumtaz M., Tabassum S., Khan A.U.D., Mushtaq R., Qasim M., Khan M.F., Malik A.	Socio-economic effects of COVID-19 “ a study of the University students and teachers in Pakistan	2021	Advancements in Life Sciences	8	4	368	373
2	Gul R.F., Dunnan L., Jamil K., Awan F.H., Ali B., Qaiser A., Aobin Q.	Abusive Supervision and Its Impact on Knowledge Hiding Behavior Among Sales Force	2021	Frontiers in Psychology	12			
3	Bouiadjra R.B., Mahmoudi A., Sekkal M., Benyoucef S., Selim M.M., Tounsi A., Hussain M.	A quasi 3D solution for thermodynamic response of FG sandwich plates lying on variable elastic foundation with arbitrary boundary conditions	2021	Steel and Composite Structures	41	6	873	886
4	Ejaz U., Shazad Y., Hassan M., Sohail M.	Statistical optimization of saccharificaion of carbohydrate content of alkali pretreated sugarcane bagasse by enzyme cocktail produced by Bacillus vallismortis MH 1 and Bacillus aestuarii UE25	2021	Carbohydrate Polymer Technologies and Applications	2			

5	Sidra, Tabasum S., Zia K.M., Parveen B., Hussain M.T.	A novel water borne green textile polyurethane dispersions finishes from cotton (<i>Gossypium arboreum</i>) seed oil based polyol used in modification of cellulosic fabrics	2021	Carbohydrate Polymer Technologies and Applications	2			
6	Ahmad M.M.	Recent trends in chemical modification and antioxidant activities of plants-based polysaccharides: A review	2021	Carbohydrate Polymer Technologies and Applications	2			
7	Ahmed T., Noman M., Ijaz M., Ali S., Rizwan M., Ijaz U., Hameed A., Ahmad U., Wang Y., Sun G., Li B.	Current trends and future prospective in nanoremediation of heavy metals contaminated soils: A way forward towards sustainable agriculture	2021	Ecotoxicology and Environmental Safety	227			
8	Masood H.T., Anwer S., Rouf S.A., Nawaz A., Javed T., Munir T., Zheng L., Deliang W.	Back contact buffer layer of WO ₃ nanosheets in thin-film CdTe solar cell	2021	Journal of Alloys and Compounds	887			
9	Sultana H., Usman M., Farooqi Z.H.	Micellar flocculation for the treatment of synthetic dyestuff effluent: Kinetic, thermodynamic and mechanistic insights	2021	Journal of Molecular Liquids	344			

10	Hanif M., Khan H.U., Maheen S., Shafqat S.S., Shah S., Masood S.A., Abbas G., Rizwan M., Rasheed T., Bilal M.	Formulation, characterization, and pharmacokinetic evaluation of Ivabradine-Nebivolol co-encapsulated lipospheres	2021	Journal of Molecular Liquids	344			
11	Irshad S., Xie Z., Kamran M., Nawaz A., Faheem, Mehmood S., Gulzar H., Saleem M.H., Rizwan M., Malik Z., Parveen A., Ali S.	Biochar composite with microbes enhanced arsenic biosorption and phytoextraction by Typha latifolia in hybrid vertical subsurface flow constructed wetland	2021	Environmental Pollution	291			
12	Ashfaq A., Ali A., Mahmood K., Rehman U.U., Tahir S., Amin N., Ahmad W., Aslam R.N., Arshad M., Rasheed K.	Al doping induced high thermoelectric performance in Cu ₂ ZnSnS ₄ nanoparticles synthesized by the hydrothermal method	2021	Ceramics International	47	24	35356	35360
13	Tahir M.H., Irfan R.M., Hussain M.B., Alhumade H., Al-Turki Y., Cheng X., Karim A., Ibrahim M., Rathore H.A.	Catalytic Fast Pyrolysis of Soybean Straw Biomass for Glycolaldehyde-Rich Bio-oil Production and Subsequent Extraction	2021	ACS Omega	6	49	33694	33700
14	Sharif H., Hussain M., Khadimallah M.A., Naeem M.N., Ayed H., Tounsi A.	Impact in bioconvection MHD Casson nanofluid flow across Darcy-Forchheimer Medium due to nonlinear stretching surface	2021	Smart Structures and Systems	28	6	791	798

15	Al Thobiani F., Khadimallah M.A., Hussain M., Mohamed G.A.-N.I., Ghandourah E.	Computer visualization approach for rotating FG shell: Assessment with ring supports	2021	Computers and Concrete	28	6	559	566
16	Khan A., Essa M., Azmatullah	Islamising Pakistan: The Constitutional Contours	2021	FWU Journal of Social Sciences	15	4	186	200
17	Anjum N., He J.-H., Ain Q.T., Tian D.	LI-HE ⁺ 'S MODIFIED HOMOTOPY PERTURBATION METHOD FOR DOUBLY-CLAMPED ELECTRICALLY ACTUATED MICROBEAMS-BASED MICROELECTROMECHANICAL SYSTEM	2021	Facta Universitatis, Series: Mechanical Engineering	19	4	601	612
18	Shahid A., Khan A.Z., Malik S., Liu C.-G., Mehmood M.A., Syafiuddin A., Wang N., Zhu H., Boopathy R.	Advances in Green Technologies for the Removal of Effluent Organic Matter from the Urban Wastewater	2021	Current Pollution Reports	7	4	463	475
19	Irshad K., Akash M.S.H., Rehman K., Sharif H.	Therapeutic Interventions of Novel SGLT2 Inhibitors Against Metabolic Disorders: Transforming the Association into Perspectives	2021	Endocrine, Metabolic and Immune Disorders - Drug Targets	21	12	2169	2180
20	Shahzad A., Kashif M., Ateeq-Ur-rehman, Kamran K., Ghani S., Shifa M.S., Yaseen M.	Modulating the optoelectronic and thermoelectric properties of chalcopyrite AgXTe ₂ (X: Ga, In) via in-plane biaxial strain	2021	Chalcogenide Letters	18	12	797	810

21	Iqbal W., Jalil M.	Numerical analysis for the effects of boundary layer flow over an exponentially stretching cylinder embedded in a porous medium moving with nonlinear velocity	2021	AIP Advances	11	12		
22	Saleem H., Ashfaq U.A., Nadeem H., Zubair M., Siddique M.H., Rasul I.	Subtractive genomics and molecular docking approach to identify drug targets against <i>Stenotrophomonas maltophilia</i>	2021	PLoS ONE	16	45638		
23	Khan R.U., Khan A., Naz S., Ullah Q., Laudadio V., Tufarelli V., Ragni M.	Potential applications of <i>moringa oleifera</i> in poultry health and production as alternative to antibiotics: A review	2021	Antibiotics	10	12		
24	Tariq S., Tabassum S., Aslam S., Sillanpaa M., Al-Qahtani W.H., Ali S.	Detection of virulence genes and biofilm forming capacity of diarrheagenic <i>e. coli</i> isolated from different water sources	2021	Coatings	11	12		
25	Hatshan M.R., Aslam S., Bokov D., Ibrahim A.J., Mustafa Y.F., Davarpanah A., Elveny M., Ali S.	Advanced binder-free electrode based on CuCo_2O_4 nanowires coated with polypyrrole layer as a high-performance nonenzymatic glucose sensing platform	2021	Coatings	11	12		

26	Malik S.N., Raza M., Xin Q., Sok ³ Å, J., Manzoor R., Zainab S.	On convex functions associated with symmetric cardioid domain	2021	Symmetry	13	12		
27	Nisar M., Rehman M., Anjum M., Murawwat S., Bashir K., Saleemi M.	Usability evaluation of food wastage mobile application: A case of Pakistan	2021	Sustainability (Switzerland)	13	24		
28	Mahmood A., Shahzad T., Hussain S., Ali Q., Ali H.M., Yasin S., Ibrahim M., Salem M.Z.M., Khalid M.	Evaluation of symbiotic association between various rhizobia, capable of producing plantâ€growthâ€promoting biomolecules and mung bean for sustainable production	2021	Sustainability (Switzerland)	13	24		
29	Khan Z.I., Mansha A., Saleem M.H., Tariq F., Ahmad K., Ahmad T., Awan M.U.F., Abualreesh M.H., Alatawi A., Ali S.	Trace metal accumulation in rice variety kainat irrigated with canal water	2021	Sustainability (Switzerland)	13	24		
30	Adeel S., Rehman F.-U., Zuber M., Batool F., Habib N., Hussaan M., Amin N.	Environmental friendly application of ultrasonic rays for extraction of natural colorant from Harmal (P. harmala) for dyeing of bio-mordanted silk	2021	Journal of Engineered Fibers and Fabrics	16			

31	Xu Y.-J., Nazeer M., Hussain F., Khan M.I., Hameed M.K., Shah N.A., Chung J.D.	Electro-osmotic flow of biological fluid in divergent channel: drug therapy in compressed capillaries	2021	Scientific Reports	11	1		
32	Saleem I.B., Masoud M.S., Qasim M., Ali M., Ahmed Z.M.	Identification and computational analysis of rare variants of known hearing loss genes present in five deaf members of a pakistani kindred	2021	Genes	12	12		
33	Tul Kubra K., McKibbin R., Ullah S., Khalid M., Sweatman W.L.	Forced convection heat transfer from a plate stack embedded in a homogeneous porous medium	2021	Physica Scripta	96	12		
34	Hussain S.M., Nisar S., Jamil M., Bashir F., Arslan M.Z.U.H., Tabassum S., Ahmad B., Ahsan S., Sharif A.	Effects of almond meal (<i>Terminalia catappa</i>) based diets on nutrient utilization, growth and hematology of labeo rohita fingerlings	2021	Journal of Animal and Plant Sciences	31	6	1828	1835
35	Siraj S., Tahir S., Ali A., Amin N., Mahmood K., Manzoor A.	Assessing the Impact of Front Grid Metallization Pattern on the Performance of BSF Silicon Solar Cells	2021	Silicon	13	12	4237	4245

36	Ali S., Waseem M., Hussain A., Rizwan M., Ahmad A., Khan N.	Combined application of citric acid and cr resistant microbes improved castor bean growth and photosynthesis while it alleviated cr toxicity by reducing cr+6 to cr3+	2021	Microorganisms	9	12		
37	Rajpar M.N., Khan S.A., Ditta A., Ali H.M., Ullah S., Ibrahim M., Rajpar A.H., Zakaria M., Salem M.Z.M.	Subtropical broad-leaved urban forests as the foremost dynamic and complex habitats for a wide range of bird species	2021	Sustainability (Switzerland)	13	23		
38	Fatima K., Noor H., Ali A., Monakhov E., Asghar M.	Annealing effect on seebeck coefficient of sige thin films deposited on quartz substrate	2021	Coatings	11	12		
39	Ahmad S., Ghaffar A., Hussain N., Kim N.	Compact dual-band antenna with paired l-shape slots for on- and off-body wireless communication	2021	Sensors	21	23		
40	Shahzad M.A., Paracha K.N., Naseer S., Ahmad S., Malik M., Farhan M., Ghaffar A., Hussien M., Sharif A.B.	An artificial magnetic conductor-backed compact wearable antenna for smart watch iot applications	2021	Electronics (Switzerland)	10	23		

41	Waqas H., Khan S.A., Muhammad T., Raza Shah Naqvi S.M.	Heat transfer enhancement in stagnation point flow of ferro- copper oxide/water hybrid nanofluid: A special case study	2021	Case Studies in Thermal Engineering	28			
42	Rehman A., Muhammad S.A., Tasleem Z., Alsaedi A., Dar M., Iqbal M.O., Rasool M.F., Shah S., Abbas G., Shakeel S., Hayat K.	Humanistic and socioeconomic burden of COPD patients and their caregivers in Malaysia	2021	Scientific Reports	11	1		
43	Vivas-Cortez M., Awan M.U., Talib S., Kashuri A., Noor M.A.	Some new post-quantum integral inequalities involving twice (P, q)-differentiable $\tilde{\eta}$ -preinvex functions and applications	2021	Axioms	10	4		
44	Rashid S., Ashraf R., Bayones F.S.	A novel treatment of fuzzy fractional swiftâ€™hohenberg equation for a hybrid transform within the fractional derivative operator	2021	Fractal and Fractional	5	4		
45	Saleem S., Tahir I.M., Iqbal T., Jamil A., Mehboob H., Akram M., Oladoye P.O.	Genetic polymorphism of NAT1 in local Pakistani population	2021	Gene Reports	25			

46	Munir T., Mahmood A., Shafiq F., Fakhar-e-Alam M., Atif M., Raza A., Ahmad S., Saleem Alimgeer K., Abbas N.	Experimental and theoretical analyses of nano-silver for antibacterial activity based on differential crystal growth temperatures	2021	Saudi Journal of Biological Sciences	28	12	7561	7566
47	Ali M., Iqbal R., Safdar M., Murtaza S., Mustafa M., Sajjad M., Bukhari S.A., Huma T.	Antioxidant and antibacterial activities of Artemisia absinthium and Citrus paradisi extracts repress viability of aggressive liver cancer cell line	2021	Molecular Biology Reports	48	12	7703	7710
48	Chaudhary A., Hussain Z., Akram A.M., Alorabi M., Sarwar N., Rehman R.A., Khan N.A., Faiz Khan M., Minahal Q., Enshasy H.A.E., Ramli S., Kee Zuan A.T., Alhazmi A., Asdaq S.M.B., Qamer S., Alkafafy M.	Impact of Bacillus subtilis supplemented feed on growth and biochemical constituents in Labeo rohita fingerlings	2021	Journal of King Saud University - Science	33	8		
49	Ijaz M.U., Ahmed H., Ashraf A., Aziz S., Al-Ghanim K.A., Akhtar M., Riaz M.N., Mahboob S.	Vitexin attenuates cisplatin-induced renal toxicity by reducing oxidative stress and inflammation	2021	Journal of King Saud University - Science	33	8		

50	Asghar S., Khan I.U., Salman S., Khalid S.H., Ashfaq R., Vandamme T.F.	Plant-derived nanotherapeutic systems to counter the overgrowing threat of resistant microbes and biofilms	2021	Advanced Drug Delivery Reviews	179			
51	Fakhar-e-Alam M., Shafiq Z., Mahmood A., Atif M., Anwar H., Hanif A., Yaqub N., Farooq W.A., Fatehmulla A., Ahmad S., Abd Elgawad A.E.E., Alimgeer K.S., Gia T.N., Ahmed H.	Assessment of green and chemically synthesized copper oxide nanoparticles against hepatocellular carcinoma	2021	Journal of King Saud University - Science	33	8		
52	Waqas H., Khan S.U., Khan M.I., Alzahrani F., Qayyum S.	Study of homogeneous“heterogeneous reactions in bioconvection stagnation pointslip flow of Walter's-B nanofluid with nonlinear thermal radiation and activation energy	2021	International Communications in Heat and Mass Transfer	129			
53	Hussain B., Sardar H., Sajad M., Yaseen H., Shafeeq S., Al-Ghanim K.A., Mustafa A., Mahboob S.	Assessment of cyto-nephrotoxicity and growth performance in Labeo rohita induced by fluorescein dye Y and B	2021	Journal of King Saud University - Science	33	8		
54	Awan M.U., Javed M.Z., Rassias M.T., Noor M.A., Noor K.I.	Simpson type inequalities and applications	2021	Journal of Analysis	29	4	1403	1419

55	Anwar H., Rasul A., Iqbal J., Ahmad N., Imran A., Malik S.A., Ijaz F., Akram R., Maqbool J., Sajid F., Sun T., Hussain G., Manzoor M.F.	Dietary biomolecules as promising regenerative agents for peripheral nerve injury: An emerging nutraceutical-based therapeutic approach	2021	Journal of Food Biochemistry	45	12		
56	Shahid A., Muzammil S., Rasheed F., Aslam B., Ali M.A., Haider S.Z., Babar M.E., Saeed M., Waqas U., Khurshid M.	Emergence of armA mediated aminoglycoside resistance in multidrug-resistant acinetobacter baumannii in Pakistani Hospitals	2021	Pakistan Journal of Zoology	53	6	2507	2510
57	Saleem S., Rasheed M.I., Malik M., Okumus F.	Employee-fit and turnover intentions: The role of job engagement and psychological contract violation in the hospitality industry	2021	Journal of Hospitality and Tourism Management	49		385	395
58	Ahmad N., Zuo Y., Anwar F., Abbas A., Shahid M., Hassan A.A., Bilal M., Rasheed T.	Ultrasonic-assisted extraction as a green route for hydrolysis of bound phenolics in selected wild fruits: Detection and systematic characterization using GC-MS-TIC method	2021	Process Biochemistry	111		79	85
59	Rahaman A., Kumari A., Zeng X.-A., Adil Farooq M., Siddique R., Khalifa I., Siddeeg A., Ali M., Faisal Manzoor M.	Ultrasound based modification and structural-functional analysis of corn and cassava starch	2021	Ultrasonics Sonochemistry	80			

60	Alqudah M.A., Ashraf R., Rashid S., Singh J., Hammouch Z., Abdeljawad T.	Novel numerical investigations of fuzzy cauchy reaction- diffusion models via generalized fuzzy fractional derivative operators	2021	Fractal and Fractional	5	4		
61	Iqbal S.Z.	Mycotoxins in food, recent development in food analysis and future challenges; a review	2021	Current Opinion in Food Science	42		237	247
62	Sufyan M., Shahid F., Irshad F., Javaid A., Qasim M., Ashfaq U.A.	Implementation of Vaccinomics and In-Silico Approaches to Construct Multimeric Based Vaccine Against Ovarian Cancer	2021	International Journal of Peptide Research and Therapeutics	27	4	2845	2859
63	Waqas H., Muhammad T., Noreen S., Farooq U., Alghamdi M.	Cattaneo-Christov heat flux and entropy generation on hybrid nanofluid flow in a nozzle of rocket engine with melting heat transfer	2021	Case Studies in Thermal Engineering	28			
64	InamUllah M., Amami M., Mahmood K., Ikram S., Ali A., Amin N., Javaid K., Yasir Ali M.	Optimizing the thermoelectric properties of thermally evaporated AgSnO ₂ thin films by post growth annealing process	2021	Inorganic Chemistry Communications	134			
65	Hussain S., Sultana T., Sultana S., Hussain B., Mahboob S., Al-Ghanim K.A., Riaz M.N.	Seasonal monitoring of River through heavy metal bioaccumulation and histopathological alterations in selected fish organs	2021	Journal of King Saud University - Science	33	8		

66	Ul Hassan S., Bilal B., Nazir M.S., Naqvi S.A.R., Ali Z., Nadeem S., Muhammad N., Palvasha B.A., Mohyuddin A.	Recent progress in materials development and biological properties of GTR membranes for periodontal regeneration	2021	Chemical Biology and Drug Design	98	6	1007	1024
67	Draiche K., Bousahla A.A., Tounsi A., Hussain M.	An integral shear and normal deformation theory for bending analysis of functionally graded sandwich curved beams	2021	Archive of Applied Mechanics	91	12	4669	4691
68	Sial N., Ahmad M., Hussain M.S., Iqbal M.J., Hameed Y., Khan M., Abbas M., Asif R., Rehman J.U., Atif M., Khan M.R., Hameed Z., Saeed H., Tanveer R., Saeed S., Sharif A., Asif H.M.	CTHRC1 expression is a novel shared diagnostic and prognostic biomarker of survival in six different human cancer subtypes	2021	Scientific Reports	11	1		
69	Iftikhar R., Zahoor A.F., Irfan M., Rasul A., Rao F.	Synthetic molecules targeting yes associated protein activity as chemotherapeutics against cancer	2021	Chemical Biology and Drug Design	98	6	1025	1037
70	Rahmat M., Bhatti H.N., Rehman A., Chaudhry H., Yameen M., Iqbal M., Al- Mijalli S.H., Alwadai N., Fatima M., Abbas M.	Bionanocomposite of Au decorated MnO ₂ via in situ green synthesis route and antimicrobial activity evaluation	2021	Arabian Journal of Chemistry	14	12		

71	Ali Q., Yaseen M.R., Anwar S., Makhdum M.S.A., Khan M.T.I.	The impact of tourism, renewable energy, and economic growth on ecological footprint and natural resources: A panel data analysis	2021	Resources Policy	74			
72	Akhtar M.F., Zubair S., Saleem A., Alsharif K.F., Abdel-Daim M.M.	Comparison of individual and combination treatments with naproxen, prednisolone and hydroxychloroquine to treat Complete Freund's Adjuvant induced arthritis	2021	Inflammopharmacology	29	6	1719	1731
73	Hassan Z.-U., Munir T., Ahmad N., Hashmi M.I.U., Ali Y., Tahir M.B., Hussain A., Rehman J., Wattoo A.G., Alrobei H.	Enhancement in Physical Properties of Silver-Doped Fe-Ni Invar Nano-alloy Using Chemical Reduction Method	2021	Journal of Superconductivity and Novel Magnetism	34	12	3237	3242
74	Sharif A., Kumar R., Ouyang J., Abbas H.T., Alomainy A., Arshad K., Assaleh K., Althuwayb A., Imran M.A., Abbasi Q.H.	Making assembly line in supply chain robust and secure using UHF RFID	2021	Scientific Reports	11	1		
75	Farooq U., Malecki I.A., Martin G.B., Mahmood M.	Mobility of Japanese quail spermatozoa and its relationship to egg fertility	2021	Reproduction in Domestic Animals	56	12	1543	1554

76	Hussain F., Nazeer M., Altanji M., Saleem A., Ghafar M.M.	Thermal analysis of Casson rheological fluid with gold nanoparticles under the impact of gravitational and magnetic forces	2021	Case Studies in Thermal Engineering	28			
77	Ijaz Khan M., Al-Khaled K., Khan S.U., Muhammad T., Waqas H., El-Refaey A.M., Imran Khan M.	Dynamic consequences of nonlinear radiative heat flux and heat generation/absorption effects in cross-diffusion flow of generalized micropolar nanofluid	2021	Case Studies in Thermal Engineering	28			
78	Waqas H., Farooq U., Bukhari F.F., Alghamdi M., Muhammad T.	Chemically reactive transport of magnetized hybrid nanofluids through Darcian porous medium	2021	Case Studies in Thermal Engineering	28			
79	Etesami H., Fatemi H., Rizwan M.	Interactions of nanoparticles and salinity stress at physiological, biochemical and molecular levels in plants: A review	2021	Ecotoxicology and Environmental Safety	225			
80	Ain Q.T., Anjum N., He C.-H.	An analysis of time-fractional heat transfer problem using two-scale approach	2021	GEM - International Journal on Geomathematics	12	1		

81	Khalid H., Shahid S., Tariq S., Ijaz B., Ashfaq U.A., Ahmad M.	Discovery of Novel HCV NS5B polymerase inhibitor,Â 2-(3,4-dimethyl-5,5-dioxidobenzo[e]pyrazolo[4,3-c][1,2]thiazin-2(4H)-yl)-N-(2-fluorobenzyl)acetamide via molecular docking and experimental approach	2021	Clinical and Experimental Pharmacology and Physiology	48	12	1653	1661
82	Khalid N., Aqeel M., Noman A., Khan S.M., Akhter N.	Interactions and effects of microplastics with heavy metals in aquatic and terrestrial environments	2021	Environmental Pollution	290			
83	Arshad U., Azeem F., Mustafa G., Bakhsh A., Toktay H., McGiffen M., Nawaz M.A., Naveed M., Ali M.A.	Combined Application of Biochar and Biocontrol Agents Enhances Plant Growth and Activates Resistance Against Meloidogyne incognita in Tomato [Die kombinierte Anwendung von Biokohle und biologischen Schädlingsbekämpfungsmitteln verbessert das Pflanzenwachstum und aktiviert die Resistenz gegen Meloidogyne incognita bei Tomaten]	2021	Gesunde Pflanzen	73	4	591	601
84	Al Islam S., Jamil Y., Javaid Z., Hao L., Amin N., Javed Y., Rehman M., Anwar H.	A Study on Thermal Response of Nanoparticles in External Magnetic Field	2021	Journal of Superconductivity and Novel Magnetism	34	12	3223	3228
85	Nayak M.K., Shaw S., Waqas H., Makinde O.D., Alghamdi M., Muhammad T.	Comparative study for magnetized flow of nanofluids between two parallel permeable stretching/shrinking surfaces	2021	Case Studies in Thermal Engineering	28			

86	Muhammad Ahmad H., Wang X., Fiaz S., Mahmood-Ur-Rahman, Azhar Nadeem M., Aslam Khan S., Ahmar S., Azeem F., Shaheen T., Mora-Poblete F.	Comprehensive genomics and expression analysis of eceriferum (CER) genes in sunflower (<i>Helianthus annuus</i>)	2021	Saudi Journal of Biological Sciences	28	12	6884	6896
87	Shah M.A., Rasul A., Yousaf R., Haris M., Faheem H.I., Hamid A., Khan H., Khan A.H., Aschner M., Batiha G.E.- S.	Combination of natural antivirals and potent immune invigorators: A natural remedy to combat COVID-19	2021	Phytotherapy Research	35	12	6530	6551
88	Waqas H., Farooq U., Bhatti M.M., Hussain S.	Magnetized bioconvection flow of Sutterby fluid characterized by the suspension of nanoparticles across a wedge with activation energy	2021	ZAMM Zeitschrift fur Angewandte Mathematik und Mechanik	101	12		
89	Qureshi Q.H., Ashraf T., Rehman K., Khosa M.K., Akash M.S.H.	Therapeutic interventions of remdesivir in diabetic and nondiabetic COVID-19 patients: A prospective observational study conducted on Pakistani population	2021	Journal of Medical Virology	93	12	6732	6736
90	Shaheen S., Sharifi-Rad J., Harun N., Khan M.A., Ali M., Khalid S., Javad S., Hanif U., Sajjad S.,	Morphological and palynological assessment of some taxa of genus <i>Echinochloa</i> through light and scanning electron microscopy	2021	Microscopy Research and Technique	84	12	2883	2889

	Ahmad M., Sonia R., Khan F.							
91	Waqas H., Farooq U., Ibrahim A., Kamran Alam M., Shah Z., Kumam P.	Numerical simulation for bioconvectonal flow of burger nanofluid with effects of activation energy and exponential heat source/sink over an inclined wall under the swimming microorganisms	2021	Scientific Reports	11	1		
92	Usman M., Makhdum M.S.A.	What abates ecological footprint in BRICS-T region? Exploring the influence of renewable energy, non-renewable energy, agriculture, forest area and financial development	2021	Renewable Energy	179		12	28
93	Shaheen S., Sharifi-Rad J., Hussain K., Shahid M.N., Shamim Z., Abbas M., Ahmad M., Sardar A.A., Sonia R., Khan F.	Micro morphological foliar taxonomic studies of genus Paspalum based on scanning electron microscopy	2021	Microscopy Research and Technique	84	12	3035	3043
94	Rehman A., Shah S., Abbas G., Harun S.N., Shakeel S., Hussain R., Hassali M.A.A., Rasool M.F.	Assessment of risk factors responsible for rapid deterioration of lung function over a period of one year in patients with chronic obstructive pulmonary disease	2021	Scientific Reports	11	1		
95	Hussain M., Ghaffar A., Ali A., Shahzad A., Nisar K.S., Alharthi M.R., Jamshed W.	MHD thermal boundary layer flow of a Casson fluid over a penetrable stretching wedge in the existence of nonlinear radiation and convective boundary condition	2021	Alexandria Engineering Journal	60	6	5473	5483

96	Rani A., Quddoos A., Yaseen M.R., Tabassum S., Asif A.	The Impact of Social Capital on Household Well-being in Pakistan	2021	Social Indicators Research	158	3	927	946
97	Keyvani-Ghamsari S., Khorsandi K., Rasul A., Zaman M.K.	Current understanding of epigenetics mechanism as a novel target in reducing cancer stem cells resistance	2021	Clinical Epigenetics	13	1		
98	Akram F., Saeed M., Akhtar J., Raza Naqvi S.A., Haq A.U.	Fabrication and characterization of Fe ₂ O ₃ , Bi ₂ O ₃ and BiFeO ₃ and evaluation of their photo catalytic performances on degradation of methylene blue dye	2021	Zeitschrift fur Physikalische Chemie	235	12	1609	1627
99	Waqas H., Farooq U., Shah Z., Kumam P., Shutaywi M.	Second-order slip effect on bio-convectonal viscoelastic nanofluid flow through a stretching cylinder with swimming microorganisms and melting phenomenon	2021	Scientific Reports	11	1		
100	Habib N., Ali Q., Ali S., Haider M.Z., Javed M.T., Khalid M., Perveen R., Alsahli A.A., Alyemeni M.N.	Seed Priming with Sodium Nitroprusside and H ₂ O ₂ Confers Better Yield in Wheat Under Salinity: Water Relations, Antioxidative Defense Mechanism and Ion Homeostasis	2021	Journal of Plant Growth Regulation	40	6	2433	2453
101	Rehman N., Izharullah M., Zaheer J., Akram M., Ghotekar S., Khan M.I.	Prevalence and treatment of hypertension in District Bhimber, Azad Jammu and Kashmir	2021	Journal of Medicinal and Chemical Sciences	4	1	75	83

102	Haq A., Saeed M., Usman M., Zahoor A.F., Anjum M.N., Maqbool T., Naheed S., Kashif M.	Mechanisms of halosulfuron methyl pesticide biosorption onto neem seeds powder	2021	Scientific Reports	11	1		
103	Anjum N., Ain Q.T., Li X.-X.	Two-scale mathematical model for tsunami wave	2021	GEM - International Journal on Geomathematics	12	1		
104	Bhatti A.R., Butt A.D., Sheikh Y.A., Paracha K.N., Zareen N.	Comparative Analysis of Proposed Photovoltaic-Grid and Grid-Only Systems for Uninterrupted Charging of Plug-in Electric Vehicles	2021	Technology and Economics of Smart Grids and Sustainable Energy	6	1		
105	Majid F., Dildar S., Ata S., Bibi I., Mohsin I.U., Ali A., Almoneef M.M., Iqbal M., Irshad S., Nazir A., Ali M.D.	Cobalt doping of nickel ferrites via sol gel approach: Effect of doping on the structural and dielectric properties	2021	Zeitschrift fur Physikalische Chemie	235	12	1811	1829
106	Chu Y.-M., Rashid S., Abdeljawad T., Khalid A., Kalsoom H.	On new generalized unified bounds via generalized exponentially harmonically s-convex functions on fractal sets	2021	Advances in Difference Equations	2021	1		

107	Rasool M.F., Ali S., Khalid S., Khalid R., Majeed A., Imran I., Saeed H., Usman M., Ali M., Alali A.S., AlAsmari A.F., Ali N., Asiri A.M., Alasmari F., Alqahtani F.	Development and evaluation of physiologically based pharmacokinetic drug-disease models for predicting captopril pharmacokinetics in chronic diseases	2021	Scientific Reports	11	1		
108	Shemawar, Mahmood A., Hussain S., Mahmood F., Iqbal M., Shahid M., Ibrahim M., Ali M.A., Shahzad T.	Toxicity of biogenic zinc oxide nanoparticles to soil organic matter cycling and their interaction with rice-straw derived biochar	2021	Scientific Reports	11	1		
109	Saeed S., Asim M., Sohail M.M.	Fears and barriers: problems in breast cancer diagnosis and treatment in Pakistan	2021	BMC Women's Health	21	1		
110	Habib S., Islam A., Batool A., Sohail M.U., Nadeem M.	Numerical solutions of the fractal foam drainage equation	2021	GEM - International Journal on Geomathematics	12	1		

111	Ali G., Sajjad M., Kanwal S., Xiao T., Khalid S., Shoaib F., Gul H.N.	Spatialâ€temporal characterization of rainfall in Pakistan during the past half-century (1961â€2020)	2021	Scientific Reports	11	1		
112	Shabbir S., Boruah P., Xie L., Kulyar M.F.-E.-A., Nawaz M., Yousuf S., Liu T., Jabeen F., Miao X.	Genome-wide transcriptome profiling uncovers differential miRNAs and lncRNAs in ovaries of Hu sheep at different developmental stages	2021	Scientific Reports	11	1		

113	Rehman H., Majeed B., Farooqi M.A., Rasul A., Sagheer M., Ali Q., Akhtar Z.R.	Green Synthesis of Silver Nitrate Nanoparticles from Camelina Sativa (L.) and Its Effect to Control Insect Pests of Stored Grains	2021	International Journal of Tropical Insect Science	41	4	3031	3039
114	Muneer M., Kanjal M.I., Saeed M., Jamal M.A., Haq A.U., Iqbal M., Haq E.U., Ali S.	Degradation of moxifloxacin by ionizing radiation and toxicity assessment	2021	Zeitschrift fur Physikalische Chemie	235	12	1629	1643
115	El-Deeb A.A., Rashid S.	On some new double dynamic inequalities associated with Leibniz integral rule on time scales	2021	Advances in Difference Equations	2021	1		
116	Mustafa I., Faisal M.N., Hussain G., Muzaffar H., Imran M., Ijaz M.U., Sohail M.U., Iftikhar A., Shaukat A., Anwar H.	Efficacy of Euphorbia helioscopia in context to a possible connection between antioxidant and antidiabetic activities: a comparative study of different extracts	2021	BMC Complementary Medicine and Therapies	21	1		
117	He J.-H., Anjum N., Skrzypacz P.S.	A Variational Principle for a Nonlinear Oscillator Arising in the Microelectromechanical System	2021	Journal of Applied and Computational Mechanics	7	1	78	83
118	Nawaz M., Li L., Azeem F., Shabbir S., Zohaib A., Ashraf U., Yang H., Wang Z.	Insight of transcriptional regulators reveals the tolerance mechanism of carpet-grass (Axonopus compressus) against drought	2021	BMC Plant Biology	21	1		

119	Sabir A., Iftikhar A., Ijaz M.U., Hussain G., Rasul A., Iqbal R.K., Sajid F., Anwar H.	Retrospective study of frequency of ABO and Rhesus blood group among population of Safdarabad and Faisalabad cities of Pakistan	2021	BMC Research Notes	14	1		
120	Naz S., Naeem M.N., Chu Y.-M.	Some k-fractional extension of GrÅ¼ss-type inequalities via generalized Hilferâ€™Katugampola derivative	2021	Advances in Difference Equations	2021	1		
121	Arshad M.I., Khan H.A., Aslam B., Khan J.A.	Appraisal of One Health approach amid COVID-19 and zoonotic pandemics: insights for policy decision	2021	Tropical Animal Health and Production	53	1		
122	Saleem U., Bibi S., Shah M.A., Ahmad B., Saleem A., Chauhdary Z., Anwar F., Javaid N., Hira S., Akhtar M.F., Shah G.M., Khan M.S., Muhammad H., Qasim M., Alqarni M., Algarni M.A., Blundell R., Vargas-De-La-Cruz C., Herrera-Calderon O., Alhasani R.H.	Anti-Parkinsonâ€™s evaluation of Brassica juncea leaf extract and underlying mechanism of its phytochemicals	2021	Frontiers in Bioscience - Landmark	26	11	1031	1051

123	Shahid M., Munir H., Akhter N., Akram N., Anjum F., Iqbal Y., Afzal M.	Nanoparticles encapsulation of Phoenix dactylifera (date palm) mucilage for colonic drug delivery	2021	International Journal of Biological Macromolecules	191		861	871
124	Benaberrahmane I., Mekerbi M., Bouiadjra R.B., Benyoucef S., Selim M.M., Tounsi A., Hussain M.	Analytical evaluation of frequencies of bidirectional FG thick beams in thermal environment and resting on different foundation	2021	Structural Engineering and Mechanics	80	4	365	375
125	Pan Y., Chen L., Zhao Y., Guo H., Li J., Rashid M.A.R., Lu C., Zhou W., Yang X., Liang Y., Wu H., Qing D., Gao L., Dai G., Li D., Deng G.	Natural Variation in OsMKK3 Contributes to Grain Size and Chalkiness in Rice	2021	Frontiers in Plant Science	12			
126	Aslam B., Khurshid M., Arshad M.I., Muzammil S., Rasool M., Yasmeen N., Shah T., Chaudhry T.H., Rasool M.H., Shahid A., Xueshan X., Baloch Z.	Antibiotic Resistance: One Health One World Outlook	2021	Frontiers in Cellular and Infection Microbiology	11			
127	Zameer R., Sadaqat M., Fatima K., Fiaz S., Rasul S., Zafar H., Qayyum A., Nashat N., Raza A., Shah A.N., Batool R., Azeem	Two-Component System Genes in Sorghum bicolor: Genome-Wide Identification and Expression Profiling in Response to Environmental Stresses	2021	Frontiers in Genetics	12			

	F., Sun S., Chung G.							
128	Ashfaq M., Tahir M.N., Muhammad S., Munawar K.S., Ali A., Bogdanov G., Alarfaji S.S.	Single-Crystal Investigation, Hirshfeld Surface Analysis, and DFT Study of Third-Order NLO Properties of Unsymmetrical Acyl Thiourea Derivatives	2021	ACS Omega	6	46	31211	31225
129	Irshad K., Rehman K., Akash M.S.H., Hussain I.	Biochemical Investigation of Therapeutic Potential of Resveratrol Against Arsenic Intoxication	2021	Dose-Response	19	4		
130	Nadeem S., Iqbal S., Javed M., Ahmad M.N., Alsaab H.O., Awwad N.S., Ibrahim H.A., Ibrar A., Mohyuddin A., Haroon S.M., Ali L.	Kinetic and Isothermal Studies on the Adsorptive Removal of Direct Yellow 12 Dye from Wastewater Using Propionic Acid Treated Bagasse	2021	ChemistrySelect	6	43	12146	12152
131	Batool J., Alay-E-Abbas S.M., Johansson G., Zulfiqar W., Danish M.A., Bilal M., Larsson J.A.,	Oxygen-vacancy-induced magnetism in anti-perovskite topological Dirac semimetal Ba ₃ SnO	2021	Physical Chemistry Chemical Physics	23	43	24878	24891

	Amin N.							
132	Alqarni M.S., Waqas H., Yasmin S., Muhammad T.	Numerical simulation for magnetized transport of hybrid nanofluids with exponential space-based heat source	2021	International Journal of Modern Physics B	35	29		
133	Ali M., Usman M., Shah A., Rehman A.	Encapsulation of ethyl violet by anionic-cationic mixed micellar solution: Spectroscopic and conductometric studies	2021	Colloids and Surfaces A: Physicochemical and Engineering Aspects	629			
134	Awan F.H., Dunnan L., Jamil K., Gul R.F., Anwar A., Idrees M., Guangyu Q.	Impact of Role Conflict on Intention to Leave Job With the Moderating Role of Job Embeddedness in Banking Sector Employees	2021	Frontiers in Psychology	12			
135	Rafique M.A., Kiran S., Javed S., Ahmad I., Yousaf S., Iqbal N., Afzal G., Rani F.	Green synthesis of nickel oxide nanoparticles using Allium cepa peels for degradation of Congo red direct dye: An environmental remedial approach	2021	Water Science and Technology	84	45576	2793	2804
136	Mehmood Y., Anwar F., Saleem U., Hira S., Ahmad B., Bashir M., Imtiaz M.T., Najm S., Ismail T.	The anti-cancer potential of 2,4,6 tris-methyphenylamino1,3,5-triazine compound against mammary glands cancer: Via down-regulating the hormonal, inflammatory mediators, and oxidative stress	2021	Life Sciences	285			

137	Akhtar M.F., Younas S., Saleem A., Baig M.M.F.A., Sharif A., Abdel-Daim M.M., Rasul A., Saleem M.	Maternotoxicity and fetotoxicity in Rattus norvegicus albinus exposed to tramadol during the late phase of pregnancy	2021	Birth Defects Research	113	19	1407	1421
138	Rehman U.U., Kanwal M., Mahmood K., Ashfaq A., Ali A., Tahir S., Sahar K.U., Naeem M., Hussain S.	Improving the thermoelectric properties of zinc tin oxide thin films by varying post growth annealing duration	2021	Ceramics International	47	22	32371	32375
139	Munir M.M., Rasheed H., Khokhar M.I., Khan R.R., Saeed H.A., Abbas M., Ali M., Bilal R., Nawaz H.A., Khan A.M., Qamar S., Anjum S.M., Usman M.	Dose Tailoring of Vancomycin Through Population Pharmacokinetic Modeling Among Surgical Patients in Pakistan	2021	Frontiers in Pharmacology	12			
140	Liu S., Gao L., Latif K., Dar A.A., Zia-UR-Rehman M., Baig S.A.	The Behavioral Role of Digital Economy Adaptation in Sustainable Financial Literacy and Financial Inclusion	2021	Frontiers in Psychology	12			
141	Khadimallah M.A., Hussain M., Yahya A., Khedher K.M., Al-Thobiani F., Tahir S.A.,	Structural performance of submerged ring support FG shell using numerical ananlysis	2021	Structural Engineering and Mechanics	80	3	253	264

	Tounsi A.							
142	Khan F.U., Khan A., Shah S., Hayat K., Usman A., Khan F.U., Khan Z., KarataŶ Y., Ahmad T., Chang J., Malik U.R., Khan A., Shukar S., Kadirhaz M., Fang Y.	Exploring Undergraduate Pharmacy Students Perspectives Towards Antibiotics Use, Antibiotic Resistance, and Antibiotic Stewardship Programs Along With the Pharmacy TeachersŶ™ Perspectives: A Mixed-Methods Study From Pakistan	2021	Frontiers in Pharmacology	12			
143	Ali A., Kuznetsov A., Ashfaq M., Tahir M.N., Khalid M., Imran M., Irfan A.	Synthesis, single-crystal exploration, and theoretical insights of arylsulfonylated 2-amino-6-methylpyrimidin derivatives	2021	Journal of Molecular Structure	1243			
144	Rehman F.-U., Adeel S., Pervaiz M., Haji A., Haddar W., Hussaan M., Amin N., Guesmi A.	Microwave Induced Sustainable Isolation of Laccaic Acid from Lac Insect for Nylon Dyeing	2021	Iranian Journal of Chemistry and Chemical Engineering	40	6	1849	1859
145	Hussain S.A., Khan I.A., Ayub M., Rasheed A.	Study of structural, morphological and optical properties of ZnO and Mg-doped ZnO thin films synthesized by evaporation technique	2021	Journal of Ovonic Research	17	6	571	580

146	Naeem S., Siddique A.B., Zahoor M.K., Muzammil S., Nawaz Z., Waseem M., Yasmin A., Zahoor M.A.	In vitro efficacy of Azadirachta indica leaf extract against methicillin resistant Staphylococci isolated from skin infection	2021	Pakistan Journal of Pharmaceutical Sciences	34	6	2303	2308
147	Shahzad A., Faisal M.N., Hussain G., Naqvi S.A.R., Anwar H.	Therapeutic potential of quinoa seed extract as regenerative and hepatoprotective agent in induced liver injury wistar rat model	2021	Pakistan Journal of Pharmaceutical Sciences	34	6	2309	2315
148	Abid M., Sherwani R.A.Kh., Tahir M., Nazir H.Z., Riaz M.	An improved and robust class of variance estimator	2021	Scientia Iranica	28	6E	3589	3601
149	Yamin M., Yousaf Z., Bhatti K.M., Ibrahim M., Akbar F.N., Shamshiri R.R., Mahmood A., Tauni R.A.	Noise exposure and its impact on psychological health of agricultural tractor operators	2021	Noise Control Engineering Journal	69	6	500	506
150	Kanwal N., Pervaiz S., Rasheed A., Saleem M., Khan I.A.	Synthesis of Polymer-based ZnO/TiO2 Nanocomposites Flexible Sheets as High Dielectric Materials	2021	Polymer Science - Series A	63	6	879	890

151	Rasool A., Kiran S., Ur Rehman F., Abrar S.	Plant-mediated biosynthesis of zinc oxide nanoparticles for remediation of acid blue a dye	2021	Chiang Mai Journal of Science	48	6	1620	1633
152	Umar A., Haque A., Alghamdi Y.S., Mashraqi M.M., Rehman A., Shahid F., Khurshid M., Ashfaq U.A.	Development of a candidate multi-epitope subunit vaccine against klebsiella aerogenes: Subtractive proteomics and immuno-informatics approach	2021	Vaccines	9	11		
153	Shafiq S., Akram N.A., Ashraf M., AL-Harbi M.S., Samra B.N.	Sugar beet extract rich in glycine betaine modulates oxidative defense system and key physiological characteristics of maize under water-deficit stress	2021	PLoS ONE	16	45607		
154	Akram M.S., Alvi A.K., Iqbal J.	Enhanced in vitro Regeneration in Sugarcane (Saccharum officinarum L.) by Use of Alternate High-Low Picloram Doses and Thidiazuron Supplementation	2021	Cytology and Genetics	55	6	566	575
155	Zafar S., Sarfraz I., Rasul A., Shah M.A., Hussain G., Zahoor M.K., Shafiq N., Riaz A., Selamoglu Z., Sarker S.D.	Osthole: A multifunctional natural compound with potential anticancer, antioxidant and anti-inflammatory activities	2021	Mini-Reviews in Medicinal Chemistry	21	18	2747	2763

156	Muzammil A., Waqas M., Umar A., Sufyan M., Rehman A., Haider A., Akram H., Khan S.A.F., Afzal M., Wajid M., Tahir R.A., Sehgal S.A.	Anti-aging natural compounds and their role in the regulation of metabolic pathways leading to longevity	2021	Mini-Reviews in Medicinal Chemistry	21	18	2630	2656
157	Wu S., Hassan F.-U., Luo Y., Fatima I., Ahmed I., Ihsan A., Safdar W., Liu Q., Rehman S.U.	Comparative genomic characterization of buffalo fibronectin type iii domain proteins: Exploring the novel role of fndc5/irisin as a ligand of gonadal receptors	2021	Biology	10	11		
158	Mumtaz M., Rasool N., Ahmad G., Kosar N., Rashid U.	N-arylation of protected and unprotected 5-bromo-2-aminobenzimidazole as organic material: Non-linear optical (nlo) properties and structural feature determination through computational approach	2021	Molecules	26	22		
159	Adeel S., Anjum M.N., Ahmad M.N., Fazal-Ur-rehman, Saif M.J., Azeem M., Hassan A., Imran M., Amin N.	Eco-friendly dyeing of cotton fabric with waste tea leaves-based tannin natural dye	2021	Global Nest Journal	23	3	365	369
160	Sheikh Y.A., Maqbool M.U., Butt A.D., Bhatti A.R., Awan A.B., Paracha K.N., Khan M.M.	Impact of rooftop photovoltaic on energy demand of a building in a hot semi-arid climate	2021	Journal of Renewable and Sustainable Energy	13	6		

161	Albutti A., Gul M.S., Siddiqui M.F., Maqbool F., Adnan F., Ullah I., Rahman Z., Qayyum S., Shah M.A., Salman M.	Combating biofilm by targeting its formation and dispersal using gallic acid against single and multispecies bacteria causing dental plaque	2021	Pathogens	10	11		
162	Shafiq S., Akram N.A., Ashraf M., Garc�a-Caparr�s P., Ali O.M., Abdel Latef A.A.H.	Influence of glycine betaine (Natural and synthetic) on growth, metabolism and yield production of drought-stressed maize (zea mays l.) plants	2021	Plants	10	11		
163	Murtaza G., Riaz U., Aziz H., Shaheen N., Sohail M.I., Saleem M.H., Abualreesh M.H., Alatawi A., Ali S.	Health risk assessment, pore water chemistry, and assessment of trace metals transfer from two untreated sewage sludge types to tomato crop (Lycopersicon esculentum) at different application levels	2021	Sustainability (Switzerland)	13	22		
164	Ihsan A., Khan K.A., Sagir M., Nawaz A., Fiaz S., Yasmin F., Rasheed M., Ali H., Shaheen M., Mahmoud S.F., Sayed S., Ur Rahman S., Bilal Y., Ramzan M., Nazir T., Khan S., Waqas M.M., Tayyib M., Hussain F., Ali M.Y.	Diet impacts on the biological aspects of pink bollworm, Pectinophora gossypiella (Lepidoptera: Gelechiidae) under controlled laboratory conditions	2021	PLoS ONE	16	November		

165	Naqvi S.A.A., Sajjad M., Waseem L.A., Khalid S., Shaikh S., Kazmi S.J.H.	Integrating spatial modelling and spaceâ€time pattern mining analytics for vector disease-related health perspectives: A case of dengue fever in Pakistan	2021	International Journal of Environmental Research and Public Health	18	22		
166	Al-Kahtani A.A., Tabassum S., Raya I., Khlewee I.H., Chupradit S., Davarpanah A., Elveny M., Ali S.	Influence of different rotations of organic formamidinium molecule on electronic and optical properties of FAPbBr3 perovskite	2021	Coatings	11	11		
167	Razzaq S., Syed M.A., Irfan M., Khan I., Sarfraz R.M., Shakir R., Ali S., Iqbal Z., Niaz Y., Mujtaba S.H., Raza S.A., Raza S., Hanif S.	Optimization of metronidazole SR buccal tablet for gingivitis using genetic algorithm	2021	Pakistan Journal of Pharmaceutical Sciences	34	6	2149	2158
168	Asif M., Saleem M., Yaseen H.S., Yehya A.H.S., Saadullah M., Zubair H.M., Oon C.E., Khaniabadi P.M., Khalid S.H., Khan I.U., Mahrukh M.	Potential role of marine species-derived bioactive agents in the management of SARS-CoV-2 infection	2021	Future Microbiology	16	16	1289	1301
169	Zaman Q.U., Rashid M., Nawaz R., Hussain A., Ashraf K., Latif M., Heile A.O., Mehmood F.,	Silicon fertilization: A step towards cadmium-free fragrant rice	2021	Plants	10	11		

	Salahuddin S., Chen Y.							
170	Mahmood A., Raza M.	Observation of a change in human attitude in a decision making process equipped with an interference of a third party	2021	Mathematics	9	21		
171	Ghani M.A., Abbas M.M., Ali B., Aziz R., Qadri R.W.K., Noor A., Azam M., Bahzad S., Saleem M.H., Abualreesh M.H., Alatawi A., Ali S.	Alleviating role of gibberellic acid in enhancing plant growth and stimulating phenolic compounds in carrot (<i>Daucus carota</i> L.) under lead stress	2021	Sustainability (Switzerland)	13	21		
172	Shahzad Q., Mahmood S., Javed S., Mushtaq T.	Chromium stress tolerance of a c4 (<i>Zea mays</i> L.) and c3 (<i>vigna radiata</i> L.) plants primed with uv and gamma-treated bacillus subtilis	2021	Microorganisms	9	11		
173	Sultana H., Usman M., ul Haq A., Mansha A.	Micellar enhanced flocculation for the effective removal of reactive yellow 160 from synthetic textile effluent	2021	Environmental Technology and Innovation	24			
174	Khilji S.A., Aqeel M., Maqsood M.F., Khalid N., Tufail A., Sajid Z.A., Al-Surhanee A.A., Hashem M., Alamri S., Al-Mutairi K.A., Noman A.	<i>Hemarthria compressa</i> "aspergillus niger" trichoderma pseudokoningii mediated trilateral perspective for bioremediation and detoxification of industrial paper sludge	2021	Sustainability (Switzerland)	13	21		

175	Min-Dianey K.A.A., Le T.K., Qadir A., Mâ€™bouana N.L.P., Malik M., Kim S.W., Choi J.R., Pham P.V.	The ripple effect of graphite nanofilm on stretchable polydimethylsiloxane for optical sensing	2021	Nanomaterials	11	11		
176	Shahnawaz S., Nawaz U.S., Zaugg J., Hussain G., Malik N., Dogar M.Z.-U.-H., Malik S.A., Albrecht C.	Dysregulated autophagy leads to oxidative stress and aberrant expression of abc transporters in women with early miscarriage	2021	Antioxidants	10	11		
177	Bhatti A.R., Awan A.B., Alharbi W., Salam Z., Bin Humayd A.S., Praveen R.P., Bhattacharya K.	An improved approach to enhance training performance of ann and the prediction of pv power for any time-span without the presence of real-time weather data	2021	Sustainability (Switzerland)	13	21		
178	Manghwar H., Hussain A., Ali Q., Saleem M.H., Abualreesh M.H., Alatawi A., Ali S., Munis M.F.H.	Disease severity, resistance analysis, and expression profiling of pathogenesis-related protein genes after the inoculation of fusarium equiseti in wheat	2021	Agronomy	11	11		
179	Ali A., Hussain M., Anwar M.S., Inc M.	Mathematical modeling and parametric investigation of blood flow through a stenosis artery	2021	Applied Mathematics and Mechanics (English Edition)	42	11	1675	1684

180	Kamal M., Usman M., Jahanger A., Balsalobre-Lorente D.	Revisiting the role of fiscal policy, financial development, and foreign direct investment in reducing environmental pollution during globalization mode: Evidence from linear and nonlinear panel data approaches	2021	Energies	14	21		
181	Nazir S., Zaman Q.U., Abbasi A., Komal N., Riaz U., Ashraf K., Ahmad N., Agarwal S., Nasir R., Chen Y.	Bioresource nutrient recycling in the rice-wheat cropping system: Cornerstone of organic agriculture	2021	Plants	10	11		
182	Hussain M., Bakhsh H., Syed S.K., Ullah M.S., Alqahtani A.M., Alqahtani T., Aldahish A.A., Emran T.B., Rehman K.U., Janbaz K.H.	The spasmolytic, bronchodilator, and vasodilator activities of parmotrema perlatum are explained by anti-muscarinic and calcium antagonistic mechanisms	2021	Molecules	26	21		
183	Rehman A., Wang X., Ahmad S., Shahid F., Aslam S., Ashfaq U.A., Alrumaihi F., Qasim M., Hashem A., Al-Hazzani A.A., Abd_Allah E.F.	In silico core proteomics and molecular docking approaches for the identification of novel inhibitors against streptococcus pyogenes	2021	International Journal of Environmental Research and Public Health	18	21		
184	Khan S.A., Waqas H., Muhammad T., Farooq U., Alghamdi M.	Recent progress in melting phenomenon for magnetized hybrid nanofluid flow over a stretching surface with temperature dependent viscosity: a comparative study	2021	Journal of Materials Research and Technology	15		3965	3973

185	Siddique M.H., Babar N.I., Zameer R., Muzammil S., Nahid N., Ijaz U., Masroor A., Nadeem M., Rashid M.A.R., Hashem A., Azeem F., Abd-allah E.F.	Genome-wide identification, genomic organization, and characterization of potassium transport-related genes in cajanus cajan and their role in abiotic stress	2021	Plants	10	11		
186	Mushtaq B.S., AL-Ansi W., Dhungle A., Haq F.U., Mahdi A.A., walyat N., Manzoor M.S., Nawaz A., Fan M., Qian H., Jinxin L., Wang L.	Influence of pretreatments combined with extrusion on $\hat{\Gamma}^3$ -amino butyric acid, nutritional composition and physicochemical properties of foxtail millet (<i>Setaria italica</i>)	2021	Journal of Cereal Science	102			
187	Seebacher W., Mohsin N.-U.-A., Dolensky J., Hochegger P., Kaiser M., MÃxser P., Saf R., Schuster D., Temml V., Weis R.	Modifications and hybrids of 1,2,3,4-tetrahydropyridinium salts and their antiprotozoal potencies	2021	Monatshefte fur Chemie	152	11	1347	1359
188	Mohsin N.U.A., Irfan M., Aamir M.N.	In Silico Approaches for Novel Drug Discovery against Coronavirus by Employing the Hybrid Molecular Technique: A Review	2021	Journal of Computational Biophysics and Chemistry	20	7	667	674
189	Asif Q.A., Hussain A., Kashif M., Tayyab M., Rafique H.M.	Computational study of electronic properties of X-doped hexagonal boron nitride (h-BN): X = (Li, Be, Al, C, Si)	2021	Journal of Molecular Modeling	27	11		

190	Amin N., Razaq A., Rehman A.U., Hussain K., Nabi M.A.U., Morley N.A., Amami M., Bibi A., Arshad M.I., Mahmood K., Fatima M., Akhtar M., Akbar S., Manzoor A., Ali H.T., Yusuf M., Amin S.	Transport Properties of Ce-Doped Cd Ferrites $\text{CdFe}_{2-x}\text{Ce}_x\text{O}_4$	2021	Journal of Superconductivity and Novel Magnetism	34	11	2945	2955
191	Ahsan Z., Kalsoom U., Bhatti H.N., Aftab K., Khalid N., Bilal M.	Enzyme-assisted bioremediation approach for synthetic dyes and polycyclic aromatic hydrocarbons degradation	2021	Journal of Basic Microbiology	61	11	960	981
192	Saeed M., Azam M., Saeed F., Arshad U., Afzaal M., Bader Ul Ain H., Ashraf J., Nasir Z.	Development of antifungal edible coating for strawberry using fruit waste	2021	Journal of Food Processing and Preservation	45	11		
193	Ikram A., Saeed F., Arshad M.U., Afzaal M., Anjum F.M.	Structural and nutritional portrayal of rye-supplemented bread using fourier transform infrared spectroscopy and scanning electron microscopy	2021	Food Science and Nutrition	9	11	6314	6321
194	Afzaal M., Saeed F., Anjum F., Waris N., Husaain M., Ikram A., Ateeq H., Muhammad	Nutritional and ethnomedicinal scenario of koumiss: A concurrent review	2021	Food Science and Nutrition	9	11	6421	6428

	Anjum F., Suleria H.							
195	Farrukh M., Raza A., Sajid M., Rafiq M., Hameed R., Ali T.	Entrepreneurial intentions: the relevance of nature and nurture	2021	Education and Training	63	45481	1195	1212
196	Usman K., Islam A., Ullah Shah S.H., Javaid K., Amin A., Mustafa Z., Wattoo A.G., Abbas N., Ge Z.	Fluorescent pyrene-imidazole material for deep-blue organic light-emitting devices	2021	Optical Materials	121			
197	Habib D., Salamat N., Hussain S., Ali B., Abdal S.	Significance of Stephen blowing and Lorentz force on dynamics of Prandtl nanofluid via Keller box approach	2021	International Communications in Heat and Mass Transfer	128			
198	Afzaal M., Saeed F., Ahmed A., Ikram A., Ahmad M., Raza M.A., Khan T.S., Hussain M.	Exploring the effect of ginger supplementation on candy attributes	2021	Journal of Food Processing and Preservation	45	11		

199	Naseem B., Arif I., Jamal M.A.	Kosmotropic and chaotropic behavior of hydrated ions in aqueous solutions in terms of expansibility and compressibility parameters	2021	Arabian Journal of Chemistry	14	11		
200	Ahmad M.H., Shahbaz Z., Imran M., Khan M.K., Muhammad N., Iqbal S., Ahmed W., Ahmad T.	Monitoring of frying process in canola oil blend using fourier transform infrared and chemometrics techniques	2021	Food Science and Nutrition	9	11	6089	6098
201	Rasheed S., Rehman K., Akash M.S.H.	An insight into the risk factors of brain tumors and their therapeutic interventions	2021	Biomedicine and Pharmacotherapy	143			
202	Shakir M.S., Khosa M.K., Zia K.M., Saeed M., Bokhari T.H., Zia M.A.	Investigation of thermal, antibacterial, antioxidant and antibiofilm properties of PVC/ABS/ZnO nanocomposites for biomedical applications	2021	Korean Journal of Chemical Engineering	38	11	2341	2346
203	Latif S., Jahangeer M., Maknoon Razia D., Ashiq M., Ghaffar A., Akram M., El Allam A., Bouyahya A., Garipova L., Ali Shariati M., Thiruvengadam M., Azam Ansari M.	Dopamine in Parkinson's disease	2021	Clinica Chimica Acta	522		114	126

204	Hussain T., Murtaza G., Wang X., Zia M.H., Aziz H., Ali S., Murtaza B., Fiaz S.	Bioassimilation of lead and zinc in rabbits fed on spinach grown on contaminated soil	2021	Ecotoxicology and Environmental Safety	224			
205	Nadeem H., Alia K.B., Muneer F., Rasul I., Siddique M.H., Azeem F., Zubair M.	Isolation and identification of low-density polyethylene degrading novel bacterial strains	2021	Archives of Microbiology	203	9	5417	5423
206	Kamran Ishfaq M., Babale S.A., Chattha H.T., Himdi M., Raza A., Younas M., Rahman T.A.B.D., Abdul Rahim S.K., Khawaja B.A.	Compact Wide-Angle Scanning Multibeam Antenna Array for V2X Communications	2021	IEEE Antennas and Wireless Propagation Letters	20	11	2141	2145
207	Shakoor A., Arif M.S., Shahzad S.M., Farooq T.H., Ashraf F., Altaf M.M., Ahmed W., Tufail M.A., Ashraf M.	Does biochar accelerate the mitigation of greenhouse gaseous emissions from agricultural soil? - A global meta-analysis	2021	Environmental Research	202			
208	Rashid S., Tul Kubra K., Ullah S.	Fractional spatial diffusion of a biological population model via a new integral transform in the settings of power and Mittag-Leffler nonsingular kernel	2021	Physica Scripta	96	11		

209	Usman A., Ozturk I., Ullah S., Hassan A.	Does ICT have symmetric or asymmetric effects on CO2 emissions? Evidence from selected Asian economies	2021	Technology in Society	67			
210	Iqbal M., Maroofian R., ÃşavdarlÃ± B., Riccardi F., Field M., Banka S., Bubshait D.K., Li Y., Hertecant J., Baig S.M., Dyment D., Efthymiou S., Abdullah U., Makhdoom E.U.H., Ali Z., Scherf de Almeida T., Molinari F., Mignon-Ravix C., Chabrol B., Antony J., Ades L., Pagnamenta A.T., Jackson A., Douzgou S., Ambrose J.C., Arumugam P., Bleda M., Boardman- Pretty F., Boustred C.R., Brittain H., Caulfield M.J., Chan G.C., Fowler T., Giess A., Hamblin A., Henderson S., Hubbard T.J.P., Jackson R., Jones L.J., Kasperaviciute D., Kayikci M., Kousathanas	Biallelic variants in PCDHGC4 cause a novel neurodevelopmental syndrome with progressive microcephaly, seizures, and joint anomalies	2021	Genetics in Medicine	23	11	2138	2149

A., Lahnstein L., Leigh S.E.A., Leong I.U., Lopez F.J., Maleady-Crowe F., Moutsianas L., Mueller M., Murugaesu N., Need A.C., Oâ€™Donovan P., Odhams C.A., Patch C., Perez-Gil D., Pereira M.B., Pullinger J., Rahim T., Rendon A., Rogers T., Savage K., Sawant K., Scott R.H., Siddiq A., Sieghart A., Smith S.C., Sosinsky A., Stuckey A., Tanguy M., Thomas E.R.A., Thompson S.R., Tucci A., Walsh E., Welland M.J., Williams E., Witkowska K., Wood S.M., Beetz C., Karageorgou V., Vona B., Rad A., Baig J.M., Sultan T., Alvi J.R., Maqbool S., Rahman F., Toosi M.B., Ashrafzadeh F., Imannezhad S., Karimiani E.G., Sarwar Y., Khan S., Jameel M., Noegel A.A., Budde B., Altmüller J., Motameny S., Hähne							
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211	Parveen A., Ahmar S., Kamran M., Malik Z., Ali A., Riaz M., Abbasi G.H., Khan M., Sohail A.B., Rizwan M., Afzal S., Ali S.	Absciscic acid signaling reduced transpiration flow, regulated Na ⁺ ion homeostasis and antioxidant enzyme activities to induce salinity tolerance in wheat (<i>Triticum aestivum</i> L.) seedlings	2021	Environmental Technology and Innovation	24			
212	Ali H.T., Tanveer Z., Javed M.R., Mahmood K., Amin N., Ikram S., Ali A., Shah Gilani M.R.H., Sajjad M.A., Yusuf M.	A new approach for the growth of copper nitrides thin films by thermal evaporation using nitrogen as source gas	2021	Optik	245			
213	Ahmed T., Noman M., Manzoor N., Shahid M., Hussaini K.M., Rizwan M., Ali S., Maqsood A., Li B.	Green magnesium oxide nanoparticles-based modulation of cellular oxidative repair mechanisms to reduce arsenic uptake and translocation in rice (<i>Oryza sativa</i> L.) plants	2021	Environmental Pollution	288			

214	Akash M.S.H., Haq M.E., Qader A., Rehman K.	Biochemical investigation of human exposure to aflatoxin M1 and its association with risk factors of diabetes mellitus	2021	Environmental Science and Pollution Research	28	44	62907	62918
215	Anjum N., He C.-H., He J.-H.	TWO-SCALE FRACTAL THEORY for the POPULATION DYNAMICS	2021	Fractals	29	7		
216	Ishaq H.K., Farid M., Zubair M., Alharby H.F., Asam Z.U.Z., Farid S., Bamagoos A.A., Alharbi B.M., Shakoor M.B., Ahmad S.R., Rizwan M., Ali S.	Efficacy of Lemna minor and Typha latifolia for the treatment of textile industry wastewater in a constructed wetland under citric acid amendment: A lab scale study	2021	Chemosphere	283			
217	Usman M., Yaseen M.R., Kousar R., Makhdum M.S.A.	Modeling financial development, tourism, energy consumption, and environmental quality: Is there any discrepancy between developing and developed countries?	2021	Environmental Science and Pollution Research	28	41	58480	58501
218	Tahir M., Imran M., Nawaz F., Shahid M., Naeem M.A., Ahmad I., Akram M., Khalid U., Farooq A.B.U., Bakhat H.F., Kamran M., Shah Z.A.	Effects of Bacillus sp. MR-1/2 and magnetite nanoparticles on yield improvement of rice by urea fertilizer under different watering regimes	2021	Journal of Applied Microbiology	131	5	2433	2447

219	Mahrosh H.S., Mustafa G.	An in silico approach to target RNA-dependent RNA polymerase of COVID-19 with naturally occurring phytochemicals	2021	Environment, Development and Sustainability	23	11	16674	16687
220	Chattha H.T., Ishfaq M.K., Khawaja B.A., Sharif A., Sheriff N.	Compact Multiport MIMO Antenna System for 5G IoT and Cellular Handheld Applications	2021	IEEE Antennas and Wireless Propagation Letters	20	11	2136	2140
221	Iram M., Sultana H., Usman M., Ahmad B., Akram N., Siddiq M., Rashid S.	Interaction of sulphone based reactive dyes with cationic surfactant: A spectroscopic and conductometric study	2021	Zeitschrift fur Physikalische Chemie	235	11	1467	1480
222	Babar K., Zahoor A.F., Ahmad S., Akhtar R.	Recent synthetic strategies toward the synthesis of spirocyclic compounds comprising six-membered carbocyclic/heterocyclic ring systems	2021	Molecular Diversity	25	4	2487	2532
223	Younas S., Mukhtar H., Gohar U.F., Alsrhani A., Alzahrani B., Junaid K., Qamar M.U., Ejaz H.	Diagnostic approach to elucidate the efficacy and side effects of direct-acting antivirals in HCV infected patients	2021	Journal of Infection in Developing Countries	15	10	1489	1496
224	Kouider D., Kaci A., Selim M.M., Bousahla A.A., Bourada F., Tounsi A., Tounsi A., Hussain M.	An original four-variable quasi-3D shear deformation theory for the static and free vibration analysis of new type of sandwich plates with both FG face sheets and FGM hard core	2021	Steel and Composite Structures	41	2	167	191

225	Safeer A.A., Yuanqiong H., Abrar M., Shabbir R., Rasheed H.M.W.	Role of brand experience in predicting consumer loyalty	2021	Marketing Intelligence and Planning	39	8	1042	1057
226	Hameed F., Shaheen S., Ahmad B., Anwar M.M., Ahmad-ur-Rehman M.	When abusive supervision leads to good performance: an exploration of the bright side of abusive supervision	2021	Policing	44	6	1123	1139
227	Khan I., Luo M., Guo L., Khan S., Wang C., Khan A., Saeed M., Zaman S., Qi K., Liu Q.L.	Enhanced visible-light photoactivities of porous LaFeO ₃ by synchronously doping Ni ²⁺ and coupling TS-1 for CO ₂ reduction and 2,4,6-trinitrophenol degradation	2021	Catalysis Science and Technology	11	20	6793	6803
228	Ali K., Yaseen M.R., Makhdum M.S.A., Quddoos A., Sardar A.	Socioeconomic determinants of primary school children dropout: a case study of Pakistan	2021	International Journal of Educational Management	35	6	1221	1230
229	Zaman S., Arshad M., Sultana N., Saleem S.	The effect of family business exposure on individuals' entrepreneurial intentions: an institutional theory perspective	2021	Journal of Family Business Management	11	4	368	385

230	Al-Zubaidi A., Nazeer M., Saleem S., Hussain F., Ahmad F.	Flow of nanofluid towards a Riga surface with heat and mass transfer under the effects of activation energy and thermal radiation	2021	International Journal of Modern Physics B	35	26		
231	Rehman K., Haider K., Akash M.S.H.	Cigarette smoking and nicotine exposure contributes for aberrant insulin signaling and cardiometabolic disorders	2021	European Journal of Pharmacology	909			
232	Younas M., Rizwan M., Zubair M., Inam A., Ali S.	Biological synthesis, characterization of three metal-based nanoparticles and their anticancer activities against hepatocellular carcinoma HepG2 cells	2021	Ecotoxicology and Environmental Safety	223			
233	Zakir R., Iqbal S.S., Rehman A.U., Nosheen S., Ahmad T.S., Ehsan N., Inam F.	Spectral, electrical, and dielectric characterization of Ce-doped Co-Mg-Cd spinel nano-ferrites synthesized by the sol-gel auto combustion method	2021	Ceramics International	47	20	28575	28583
234	Yaseen S., Wattoo A.G., Hashim M., Tahir M.B., Janjua R.A., Al-Kahtani A.A., Mushtaq S., Ahmad N., Khalid M., Abdin Z.U., Shahid T., Arfan M., Zahoor A., Zeb A., Song Z.	Synthesis and characterization of Bi-doped antimony sulphide thin films for solar absorption applications	2021	Physica B: Condensed Matter	619			

235	Ikram M., Javed Y., Shad N.A., Sajid M.M., Irfan M., Munawar A., Hussain T., Imran M., Hussain D.	Facile hydrothermal synthesis of nickel tungstate (NiWO ₄) nanostructures with pronounced supercapacitor and electrochemical sensing activities	2021	Journal of Alloys and Compounds	878			
236	Shabbir A., Saqib M., Murtaza G., Abbas G., Imran M., Rizwan M., Naeem M.A., Ali S., Rashad Javeed H.M.	Biochar mitigates arsenic-induced human health risks and phytotoxicity in quinoa under saline conditions by modulating ionic and oxidative stress responses	2021	Environmental Pollution	287			
237	Ali S., Chen X., Ajmal Shah M., Ali M., Zareef M., Arslan M., Ahmad S., Jiao T., Li H., Chen Q.	The avenue of fruit wastes to worth for synthesis of silver and gold nanoparticles and their antimicrobial application against foodborne pathogens: A review	2021	Food Chemistry	359			
238	Concepcion O., Ali A., Khalid M., F. De La Torre A., Khan M.U., Raza A.R., Kamal G.M., Rehman M.F.U., Alam M.M., Imran M., Braga A.A.C., Pertino M.W.	Facile Synthesis of Diversely Functionalized Peptoids, Spectroscopic Characterization, and DFT-Based Nonlinear Optical Exploration	2021	ACS Omega	6	40	26016	26025
239	Ameri A., Fekrar A., Bourada F., Selim M.M., Benrahou K.H., Tounsi A., Hussain M.	Hygro-thermo-mechanical bending of laminated composite plates using an innovative computational four variable refined quasi-3D HSDT model	2021	Steel and Composite Structures	41	1	31	44

240	Jadoon I.A., Mumtaz R., Sheikh J., Ayub U., Tahir M.	The impact of green growth on financial stability	2021	Journal of Financial Regulation and Compliance	29	5	533	560
241	Qayyum M., Bushra T., Khan Z.A., Gul H., Majeed S., Yu C., Farooq U., Shaikh A.J., Shahzad S.A.	Synthesis and Tetraphenylethylene-Based Aggregation-Induced Emission Probe for Rapid Detection of Nitroaromatic Compounds in Aqueous Media	2021	ACS Omega	6	39	25447	25460
242	Ayub A., Ajmal T., Iqbal S., Ghazanfar S., Anwaar M., Ishaq M.	Abusive supervision and knowledge hiding in service organizations: exploring the boundary conditions	2021	International Journal of Conflict Management	32	5	725	746
243	Ali A., Khalid M., Din Z.U., Asif H.M., Imran M., Tahir M.N., Ashfaq M., Rodrigues-Filho E.	Exploration of structural, electronic and third order nonlinear optical properties of crystalline chalcone systems: Monoarylidene and unsymmetrical diarylidene cycloalkanones	2021	Journal of Molecular Structure	1241			
244	Khalid M., Ali A., Ud Din Z., Tahir M.N., Morais S.F.D.A., Braga A.A.C., Akhtar M.N., Imran M., Rodrigues-Filho E.	$\hat{\Gamma}^2$ -Hydroxy Carbonyl compounds via aldol reaction: Single crystal investigation and quantum chemical exploration for the unveiling of supramolecular behavior	2021	Journal of Molecular Structure	1241			

245	Rasheed U., Ryu H., Mahata C., Khalil R.M.A., Imran M., Rana A.M., Kousar F., Kim B., Kim Y., Cho S., Hussain F., Kim S.	Resistive switching characteristics and theoretical simulation of a Pt/a-Ta2O5/TiN synaptic device for neuromorphic applications	2021	Journal of Alloys and Compounds	877			
246	Ahmad M.N., Nadeem S., Ul Hassan S., Jamil S., Javed M., Mohyuddin A., Haroon S.M., Akhtar T., Rauf A., Raza H.	UV/VIS absorption properties of metal sulphate polymer nanocomposites	2021	Digest Journal of Nanomaterials and Biostructures	16	4	1557	1563
247	Ali M.Z., Mehmood M.H., Saleem M., Akash M.S.H., Malik A.	Pharmacological evaluation of Euphorbia hirta, Fagonia indica and Capparis decidua in hypertension through in-vivo and in vitro-assays	2021	Heliyon	7	10		
248	Arshad A.	A growth and biochemistry of ten high yielding genotypes of Pakistani rice (Oryza sativa L.) at maturity under elevated tropospheric ozone	2021	Heliyon	7	10		
249	Ali S., Ali A.J., Ashfaq K., Khalid J.	Green human resource management and environmental innovativeness	2021	International Journal of Sustainable Development and Planning	16	6	1117	1130

250	Rafique M.A., Jamal A., Afzal G., Abrar S., Kiran S., Nosheen S., Hussain H.M.H., Majeed T.	Photocatalytic mediated remediation of synthetic dyes effluent using zero-valent iron: A comparative study	2021	Desalination and Water Treatment	237		284	291
251	Kiran S., Rafique M.A., Ashraf A., Farooq T., Iqbal S., Afzal G., Ajmal S., Naz S.	Green synthesis of nickel nanoparticles using fruit peels of citrus paradise for remediation of congo red dye	2021	Journal of the Mexican Chemical Society	65	4	507	515
252	HUSSAIN M.B., AHMAD R.S., ARSHAD M.U., IMRAN A., IMRAN M.	Hypocholesterolemic effect of acacia and citrus honeys on cholesterol induced sprague dawley rats	2021	Sains Malaysiana	50	10	3095	3106
253	Sajid A., Manzoor Q., Sajid A., Imran M., Aslam F., Gondal T.A., Ahmad R.S., Arshad M.U., Imran A., Hussain G.	Essential oil and leaves from lantana camara significantly ameliorate different cancer cell lines by suppressing the NF- κ B pathway	2021	Sains Malaysiana	50	10	2923	2936
254	Tariq M.H., Bhatti R., Ali N.F., Ashfaq U.A., Shahid F., Almatroudi A., Khurshid M.	Rational design of chimeric Multiepitope Based Vaccine (MEBV) against human T-cell lymphotropic virus type 1: An integrated vaccine informatics and molecular docking based approach	2021	PLoS ONE	16	45575		

255	Zainab S., Raza M., Xin Q., Jabeen M., Malik S.N., Riaz S.	On q-starlike functions defined by q-ruscheweyh differential operator in symmetric conic domain	2021	Symmetry	13	10		
256	Kausar N., Haque A., Masoud M.S., Nahid N., Ashfaq U.A., Waryah A.M., Bhatti R., Qasim M.	Disease-associated variants of Gap Junction Beta 2 protein (GJB2) in the deaf population of Southern Punjab of Pakistan	2021	PLoS ONE	16	45575		
257	Khan Q., Dziok J., Raza M., Arif M.	Sufficient conditions for p-valent functions	2021	Mathematica Slovaca	71	5	1089	1102
258	Shafique H., Aldaghfag S.A., Kashif M., Zahid M., Yaseen M., Iqbal J., Misbah, Neffati R.	Magnetic and optical characteristics of fe doped SrTiO3 perovskite compound: A first principle study	2021	Chalcogenide Letters	18	10	589	599
259	Khan U., Janjuhah H.T., Kontakiotis G., Rehman A., Zarkogiannis S.D.	Natural processes and anthropogenic activity in the indus river sedimentary environment in pakistan: A critical review	2021	Journal of Marine Science and Engineering	9	10		
260	Qamar Z., Anwar F., Ahmad R., Haq I., haq M., Kashif Khan A.M., Hussain R., ullah A., Shahzad Z., Ahmad I., Munir Malik M.S.,	Prevalence of Hepatitis C virus and determination of its genotypes in subjects of Tehsil Daggar District Buner, KP, Pakistan	2021	Clinical Epidemiology and Global Health	12			

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261	Zhang Q., Naqvi S.A.A., Shah S.A.R.	The contribution of outward foreign direct investment, human well-being, and technology toward a sustainable environment	2021	Sustainability (Switzerland)	13	20		
262	Sabbagh P., Pourmohamad R., Elveny M., Beheshti M., Davarpanah A., Metwally A.S.M., Ali S., Mohammed A.S.	Evaluation and classification risks of implementing blockchain in the drug supply chain with a new hybrid sorting method	2021	Sustainability (Switzerland)	13	20		
263	Heile A.O., Zaman Q.U., Aslam Z., Hussain A., Aslam M., Saleem M.H., Abualreesh M.H., Alatawi A., Ali S.	Alleviation of cadmium phytotoxicity using silicon fertilization in wheat by altering antioxidant metabolism and osmotic adjustment	2021	Sustainability (Switzerland)	13	20		
264	Aziz H., Murtaza G., Saleem M.H., Ali S., Rizwan M., Riaz U., Niaz A., Abualreesh M.H., Alatawi A.	Alleviation of chlorpyrifos toxicity in maize (Zea mays L.) by reducing its uptake and oxidative stress in response to soil-applied compost and biochar amendments	2021	Plants	10	10		

265	Anjum M.M., Arif M., Riaz M., Akhtar K., Zhang S.Q., Zhao C.P.	Performance of hybrid wheat cultivars facing deficit irrigation under semi-arid climate in Pakistan	2021	Agronomy	11	10		
266	Alam T.M., Mushtaq M., Shaukat K., Hameed I.A., Sarwar M.U., Luo S.	A novel method for performance measurement of public educational institutions using machine learning models	2021	Applied Sciences (Switzerland)	11	19		
267	Faisal M., Abbas A., Cai Y., Ali A., Shahzad M.A., Akhtar S., Raza M.H., Ajmal M.A., Xia C., Sattar S.A., Batool Z.	Perceptions, vulnerability and adaptation strategies for mitigating climate change effects among small livestock herders in Punjab, Pakistan	2021	International Journal of Environmental Research and Public Health	18	20		
268	Aslam S., Ahmad S., Noor F., Ashfaq U.A., Shahid F., Rehman A., Ul Qamar M.T., Alatawi E.A., Alshabrmi F.M., Allemailem K.S.	Designing a multi-epitope vaccine against chlamydia trachomatis by employing integrated core proteomics, immuno-informatics and in silico approaches	2021	Biology	10	10		
269	Naheed S., Shahid M., Zahoor R., Siddique Z., Rasool N., Haider S., Khan S.	Synthesis and study of morphology and biocompatibility of xanthan gum/titanium dioxide-based polyurethane elastomers	2021	Polymers	13	19		

270	Khan M.U.A., Iqbal I., Ansari M.N.M., Razak S.I.A., Raza M.A., Sajjad A., Jabeen F., Mohamad M.R., Jusoh N.	Development of antibacterial, degradable and ph-responsive chitosan/guar gum/polyvinyl alcohol blended hydrogels for wound dressing	2021	Molecules	26	19		
271	Zahid M., Khalid T., Rehan Z.A., Javed T., Akram S., Rashid A., Mustafa S.K., Shabbir R., Mora-Poblete F., Asad M.S., Liaquat R., Hassan M.M., Amin M.A., Shakoor H.A.	Fabrication and characterization of sulfonated graphene oxide (Sgo) doped pvdf nanocomposite membranes with improved anti-biofouling performance	2021	Membranes	11	10		
272	Hussain B., Sanaullah M., Iqbal M., Mahmood F., Azeem F., Shahid M., Shahzad T., Hussain S.	Effect of arsenic (As) on growth and physiology of maize (zea mays) in varying soils	2021	Journal of Animal and Plant Sciences	31	5	1366	1376
273	Shah S.Z.H., Fatima M., Afzal M., Hussain S.M., Azmat H., Bilal M., Ahmed T.	Acidification of phytase treated diet improves the body composition and bone mineralization of juvenile rohu (Labeo rohita)	2021	Journal of Animal and Plant Sciences	31	5	1485	1491
274	Warsi S.S., Zahid T., Elahi H., Liaqait R.A., Bibi S., Gillani F., Ghafoor U.	Sustainability-based analysis of conventional to high-speed machining of al 6061-t6 alloy	2021	Applied Sciences (Switzerland)	11	19		

275	Aldakheel F.M., Abrar A., Munir S., Aslam S., Allemailem K.S., Khurshid M., Ashfaq U.A.	Proteome-wide mapping and reverse vaccinology approaches to design a multi-epitope vaccine against clostridium perfringens	2021	Vaccines	9	10		
276	Mansha A., Zubair K., Rehan Z.A., Fayzan Shakir H.M., Javed T., Shabbir R., Mustafa S.K., Mora-Poblete F., Zhou J.-R., Kumar U., Al-Harbi M.S., Hassan M.M.	Synthesis of nickel spinel ferrites nanoparticles coated with thermally reduced graphene oxide for emi shielding in the microwave, uv, and nir regions	2021	Polymers	13	19		
277	Rajoka M.S.R., Thirumdas R., Mehwish H.M., Umair M., Khurshid M., Hayat H.F., Phimolsiripol Y., PallarÃ©s N., MartÃ©-Quijal F.J., Barba F.J.	Role of food antioxidants in modulating gut microbial communities: Novel understandings in intestinal oxidative stress damage and their impact on host health	2021	Antioxidants	10	10		
278	Iqbal S., Jabeen F., Peng C., Shah M.A., Ijaz M.U., Rasul A., Ali S., Rauf A., Batiha G.E.S., KÅ,odziÅ,,ska E.	Nickel nanoparticles induce hepatotoxicity via oxidative and nitrate stress-mediated apoptosis and inflammation	2021	Toxicology and Industrial Health	37	10	619	634

279	Shabir G., Hussain G., Saeed A., Hussain T., HÃ¶kelek T., Erben M.F., FlÃ¶rke U.	Investigation of stable solid diazonium salt by molecular structure, Hirshfeld surface analysis, optical and electrochemical studies, and applications	2021	Journal of Molecular Modeling	27	10		
280	Habib S., Azam M.K., Asjad M.I., AkgÃ¼l A.	Approximate Solutions for Higher Order Linear and Nonlinear Boundary Value Problems	2021	International Journal of Applied and Computational Mathematics	7	5		
281	Saleem M.H., Wang X., Ali S., Zafar S., Nawaz M., Adnan M., Fahad S., Shah A., Alyemeni M.N., Hefft D.I., Ali S.	Interactive effects of gibberellic acid and NPK on morpho- physio-biochemical traits and organic acid exudation pattern in coriander (<i>Coriandrum sativum</i> L.) grown in soil artificially spiked with boron	2021	Plant Physiology and Biochemistry	167		884	900
282	Khan M.U., Khalid M., Shafiq I., Khera R.A., Shafiq Z., Jawaria R., Shafiq M., Alam M.M., Braga A.A.C., Imran M., Kanwal F., Xu Z., Lu C.	Theoretical investigation of nonlinear optical behavior for rod and T-Shaped phenothiazine based D-Ï€-A organic compounds and their derivatives	2021	Journal of Saudi Chemical Society	25	10		

283	Akbar M., Shabbir A., Rehman K., Akash M.S.H., Shah M.A.	Neuroprotective potential of berberine in modulating Alzheimer's disease via multiple signaling pathways	2021	Journal of Food Biochemistry	45	10		
284	Iqbal S., Jabeen F., Chaudhry A.S., Shah M.A., Batiha G.E.-S.	Toxicity assessment of metallic nickel nanoparticles in various biological models: An interplay of reactive oxygen species, oxidative stress, and apoptosis	2021	Toxicology and Industrial Health	37	10	635	651
285	Noor F., Ali Ashfaq U., Rizwan Javed M., Hamzah Saleem M., Ahmad A., Farhan Aslam M., Aslam S.	Comprehensive computational analysis reveals human respiratory syncytial virus encoded microRNA and host specific target genes associated with antiviral immune responses and protein binding	2021	Journal of King Saud University - Science	33	7		
286	Manzoor M.F., Xu B., Khan S., Shukat R., Ahmad N., Imran M., Rehman A., Karrar E., Aadil R.M., Korma S.A.	Impact of high-intensity thermosonication treatment on spinach juice: Bioactive compounds, rheological, microbial, and enzymatic activities	2021	Ultrasonics Sonochemistry	78			
287	Mukhtar F., Munawar T., Nadeem M.S., ur Rehman M.N., Mahmood K., Batool S., Hasan M., ur Rehman K., Iqbal F.	Enhancement in carrier separation of ZnO-Ho ₂ O ₃ -Sm ₂ O ₃ heterostructured nanocomposite with rGO and PANI supported direct dual Z-scheme for antimicrobial inactivation and sunlight driven photocatalysis	2021	Advanced Powder Technology	32	10	3770	3787

288	Naheed R., Aslam H., Kanwal H., Farhat F., Abo Gamar M.I., Al-Mushhin A.A.M., Jabborova D., Javed Ansari M., Shaheen S., Aqeel M., Noman A., Hessini K.	Growth attributes, biochemical modulations, antioxidant enzymatic metabolism and yield in Brassica napus varieties for salinity tolerance	2021	Saudi Journal of Biological Sciences	28	10	5469	5479
289	Rehman A., Song J., Haq F., Ahamad M.I., Sajid M., Zahid Z.	Geo-physical hazards microzonation and suitable site selection through multicriteria analysis using geographical information system	2021	Applied Geography	135			
290	Saleem S., Subia G.S., Nazeer M., Hussain F., Hameed M.K.	Theoretical study of electro-osmotic multiphase flow of Jeffrey fluid in a divergent channel with lubricated walls	2021	International Communications in Heat and Mass Transfer	127			
291	Li Y.-X., Waqas H., Al-Khaled K., Hussain S., Khan S.U., Sun T.-C., Khan M.I., Malik M.Y., Tlili I.	Study of radiative Reiner–Philippoff nanofluid model with gyrotactic microorganisms and activation energy: A Cattaneo–Christov Double Diffusion (CCDD) model analysis	2021	Chinese Journal of Physics	73		569	580
292	Ameer M.W., Jabeen F., Asad M., Kaukab G., Bashir A., Rasheed M., Younis H., Munir N., Nawaz J., Zainab R., Akram M.	Comparative efficacy of Ovaprim and hMG (menotropin) to induce breeding in African catfish (Clarias gariepinus)	2021	Fish Physiology and Biochemistry	47	5	1559	1564

293	Waqas H., Bukhari F.F., Farooq U., Alqarni M.S., Muhammad T.	Numerical computation of melting heat transfer in nonlinear radiative flow of hybrid nanofluids due to permeable stretching curved surface	2021	Case Studies in Thermal Engineering	27			
294	Manzoor M.F., Siddique R., Hussain A., Ahmad N., Rehman A., Siddeeq A., Alfarga A., Alshammari G.M., Yahya M.A.	Thermosonication effect on bioactive compounds, enzymes activity, particle size, microbial load, and sensory properties of almond (<i>Prunus dulcis</i>) milk	2021	Ultrasonics Sonochemistry	78			
295	Asghar A., Haider R., Liu C.-G., Afzal M., Mehmood M.A.	Evaluating bioenergy potential of the Para grass (<i>Brachiaria mutica</i>) biomass produced on a land-free cultivation system while keeping the water-energy-environment nexus sustainable	2021	Energy Conversion and Management	245			
296	Sufyan M., Ali Ashfaq U., Ahmad S., Noor F., Hamzah Saleem M., Farhan Aslam M., El-Serehy H.A., Aslam S.	Identifying key genes and screening therapeutic agents associated with diabetes mellitus and HCV-related hepatocellular carcinoma by bioinformatics analysis	2021	Saudi Journal of Biological Sciences	28	10	5518	5525
297	Li Y.-X., Waqas H., Al-Khaled K., Khan S.A., Khan M.I., Khan S.U., Naseem R., Chu Y.-M.	Simultaneous features of Wu's slip, nonlinear thermal radiation and activation energy in unsteady bio-convective flow of Maxwell nanofluid configured by a stretching cylinder	2021	Chinese Journal of Physics	73		462	478

298	Imran M., Saeed F., Hussain G., Imran A., Mehmood Z., Gondal T.A., El-Ghorab A., Ahmad I., Pezzani R., Arshad M.U., Bacha U., Shariarti M.A., Rauf A., Muhammad N., Shah Z.A., Zengin G., Islam S.	Myricetin: A comprehensive review on its biological potentials	2021	Food Science and Nutrition	9	10	5854	5868
299	Ilyas S., Rasool M.H., Arshed M.J., Qamar M.U., Aslam B.	Prevalence of extended-spectrum β -lactamases in Escherichia coli isolated from chicken, water and the poultry farm workers	2021	Pakistan Journal of Zoology	53	5	1847	1856
300	Ali H.T., Mateen A., Ashraf F., Javed M.R., Ali A., Mahmood K., Zohaib A., Amin N., Ikram S., Yusuf M.	A new SERS substrate based on Zn ₂ GeO ₄ nanostructures for the rapid identification of E.Coli and methylene blue	2021	Ceramics International	47	19	27998	28003
301	Muhammad T., Waqas H., Farooq U., Alqarni M.S.	Numerical simulation for melting heat transport in nanofluids due to quadratic stretching plate with nonlinear thermal radiation	2021	Case Studies in Thermal Engineering	27			
302	Manzoor M.F., Hussain A., Sameen A., Sahar A., Khan S., Siddique R., Aadil R.M., Xu B.	Novel extraction, rapid assessment and bioavailability improvement of quercetin: A review	2021	Ultrasonics Sonochemistry	78			

303	Islam W., Adnan M., Shabbir A., Naveed H., Abubakar Y.S., Qasim M., Tayyab M., Noman A., Nisar M.S., Khan K.A., Ali H.	Insect-fungal-interactions: A detailed review on entomopathogenic fungi pathogenicity to combat insect pests	2021	Microbial Pathogenesis	159			
304	Saleem A., Akhtar M.F., Haris M., Abdel-Daim M.M.	Recent updates on immunological, pharmacological, and alternative approaches to combat COVID-19	2021	Inflammopharmacology	29	5	1331	1346
305	Waqas H., Raza Shah Naqvi S.M., Alqarni M.S., Muhammad T.	Thermal transport in magnetized flow of hybrid nanofluids over a vertical stretching cylinder	2021	Case Studies in Thermal Engineering	27			
306	Yang B., Usman M., jahanger A.	Do industrialization, economic growth and globalization processes influence the ecological footprint and healthcare expenditures? Fresh insights based on the STIRPAT model for countries with the highest healthcare expenditures	2021	Sustainable Production and Consumption	28		893	910
307	Idrees A., Shan A., Danish M., Zaman W.Q., Mohsin A., Abbas Z., Huang J., Shahzad T., Sun Y., Xu Z., Lyu S.	Influence of preparation method on copper ferrite characteristics for the efficient degradation of trichloroethylene in persulfate activated system	2021	Journal of Environmental Chemical Engineering	9	5		
308	Ahmed T., Noman M., Manzoor N., Ali S., Rizwan M., Ijaz M., Allemailem K.S., BinShaya A.S.,	Recent advances in nanoparticles associated ecological harms and their biodegradation: Global environmental safety from nano-invaders	2021	Journal of Environmental Chemical Engineering	9	5		

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309	Sheikh F.A., Aamir M.N., Haseeb M.T., Abbas Bukhari S.N., Farid ul Haq M., Akhtar N.	Design, physico-chemical assessment and pharmacokinetics of a non-toxic orodispersible film for potential application in musculo-skeletal disorder	2021	Journal of Drug Delivery Science and Technology	65			
310	Riaz M., Kamran M., Rizwan M., Ali S., Zhou Y., NÃ±ez-Delgado A., Wang X.	Boron application mitigates Cd toxicity in leaves of rice by subcellular distribution, cell wall adsorption and antioxidant system	2021	Ecotoxicology and Environmental Safety	222			
311	Mukhtar A., Saqib S., Mubashir M., Ullah S., Inayat A., Mahmood A., Ibrahim M., Show P.L.	Mitigation of CO2 emissions by transforming to biofuels: Optimization of biofuels production processes	2021	Renewable and Sustainable Energy Reviews	150			
312	Khan I., Awan S.A., Rizwan M., Ali S., Hassan M.J., Brestic M., Zhang X., Huang L.	Effects of silicon on heavy metal uptake at the soil-plant interphase: A review	2021	Ecotoxicology and Environmental Safety	222			
313	Salah Abdel-Hamid M., El Morsy El Wakeel M., Hamza H.A., Tahoun E.A., M. Alshehrei F., Rizwan M., Badawy G.A.	Biogenic and characterizations of new silver nanoparticles stabilized with indole acetic acid derived from Azospirillum brasilense MMGH-SADAT1, their bioactivity, and histopathological assessment in rats	2021	Ecotoxicology and Environmental Safety	222			

314	Kaygusuz E., Khayyat A.I.A., Abdullah U., Budde B.S., Asif M., Ahmed I., Makhdoom E.U.H., Sur-Erdem I., Baig J.M., Khan M.M.A., Toliat M.R., Becker C., Anwar H., Iqbal M., Fischer S., Jameel M., Sher M., Tariq M., Malik N.A., Noegel A.A., Hassan M.J., Thiele H., Tinschert S., Eichinger L., HÄ¶ning S., Baig S.M., NÄ¼rnberg P., Hussain M.S.	A 24-generation-old founder mutation impairs splicing of RBBP8 in Pakistani families affected with Jawad syndrome	2021	Clinical Genetics	100	4	486	488
315	Rashid S., Kubra K.T., Rauf A., Chu Y.-M., Hamed Y.S.	New numerical approach for time-fractional partial differential equations arising in physical system involving natural decomposition method	2021	Physica Scripta	96	10		
316	Aamer Mehmood M., Shahid A., Malik S., Wang N., Rizwan Javed M., Nabeel Haider M., Verma P., Umer Farooq Ashraf M., Habib N., Syafiuddin A., Boopathy R.	Advances in developing metabolically engineered microbial platforms to produce fourth-generation biofuels and high-value biochemicals	2021	Bioresource Technology	337			

317	Waqas H., Farooq U., Alghamdi M., Muhammad T.	Significance of surface-catalyzed reactions in SiO ₂ -H ₂ O nanofluid flow through porous media	2021	Case Studies in Thermal Engineering	27			
318	Rashid S., Sultana S., Hammouch Z., Jarad F., Hamed Y.S.	Novel aspects of discrete dynamical type inequalities within fractional operators having generalized $\hat{a}, \bullet$ -discrete Mittag- Leffler kernels and application	2021	Chaos, Solitons and Fractals	151			
319	Oranab S., Ghaffar A., Kiran S., Yameen M., Munir B., Zulfiqar S., Abbas S., Batool F., Umar Farooq M., Ahmad B., Ilyas H., Ahmad A.	Molecular characterization and expression of cyclic nucleotide gated ion channels 19 and 20 in Arabidopsis thaliana for their potential role in salt stress	2021	Saudi Journal of Biological Sciences	28	10	5800	5807
320	Umar Ijaz M., Batool M., Batool A., Al-Ghanimd K.A., Zafar S., Ashraf A., Al-Misned F., Ahmed Z., Shahzadi S., Samad A., Atique U., Al-Mulhm N., Mahboob S.	Protective effects of vitexin on cadmium-induced renal toxicity in rats	2021	Saudi Journal of Biological Sciences	28	10	5860	5864

321	Kong H., Zhang Z., Qin J., Akram N.A.	Interactive effects of abscisic acid (Aba) and drought stress on the physiological responses of winter wheat (<i>triticum aestivum</i> L.)	2021	Pakistan Journal of Botany	53	5	1545	1551
322	Kousar F., Rasheed U., Imran M., Niaz N.A., Hussain F., Khalil R.M.A., Sattar M.A., Ashiq M.N., Rana A.M., Mahata C.	First principle investigation of polaronic resistive switching behavior in titania based memristors with different charge states	2021	Physica E: Low-Dimensional Systems and Nanostructures	134			
323	Qasim M., Xiao H., He K., Omar M.A.A., Hussain D., Noman A., Rizwan M., Khan K.A., Al-zoubi O.M., Alharbi S.A., Wang L., Li F.	Host-pathogen interaction between Asian citrus psyllid and entomopathogenic fungus (<i>Cordyceps fumosorosea</i>) is regulated by modulations in gene expression, enzymatic activity and HLB-bacterial population of the host	2021	Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology	248			
324	Rashid S., Jarad F., Hammouch Z.	Some new bounds analogous to generalized proportional fractional integral operator with respect to another function	2021	Discrete and Continuous Dynamical Systems - Series S	14	10	3703	3718

325	Mehdi S.E.H., Amen R., Ali A., Anjum H., Mahmood A., Mubashir M., Mukhtar A., Ullah S., Al-Sehemi A.G., Ibrahim M., Khan M.S., Qyyum M.A., Show P.L.	Sources, chemistry, bioremediation and social aspects of arsenic-contaminated waters: a review	2021	Environmental Chemistry Letters	19	5	3859	3886
326	Khan I., Awan S.A., Rizwan M., Ali S., Zhang X., Huang L.	Arsenic behavior in soil-plant system and its detoxification mechanisms in plants: A review	2021	Environmental Pollution	286			
327	Habib N., Adeel S., Ali F., Amin N., Khan S.R.	Environmental friendly sustainable application of plant-based mordants for cotton dyeing using Arjun bark-based natural colorant	2021	Environmental Science and Pollution Research	28	38	54041	54047
328	Khan A.A., Adeel S., Azeem M., Iqbal N.	Exploring natural colorant behavior of husk of durum (<i>Triticum durum</i> Desf.) and bread (<i>Triticum aestivum</i> L.) wheat species for sustainable cotton fabric dyeing	2021	Environmental Science and Pollution Research	28	37	51632	51641
329	Akhter N., Aqeel M., Hameed M., Sakit Alhaithloul H.A., Alghanem S.M., Shahnaz M.M., Hashem M.,	Foliar architecture and physio-biochemical plasticity determines survival of <i>Typha domingensis</i> pers. Ecotypes in nickel and salt affected soil	2021	Environmental Pollution	286			

	Alamri S., Khalid N., Al-zoubi O.M., Iqbal M.F., Masood T., Noman A.							
330	Shaheen S., Harun N., Hussain K., Sharifi-Rad J., Shahid M.N., Ashfaq M., Sonia R., Ahmad M., Khan F.	Light and scanning electron microscopic study of genus Echinochloa species inhabited in Pakistan	2021	Microscopy Research and Technique	84	10	2286	2290
331	Song Y.-Q., Waqas H., Al-Khaled K., Farooq U., Ullah Khan S., Ijaz Khan M., Chu Y.-M., Qayyum S.	Bioconvection analysis for Sutterby nanofluid over an axially stretched cylinder with melting heat transfer and variable thermal features: A Marangoni and solutal model	2021	Alexandria Engineering Journal	60	5	4663	4675
332	Song Y.-Q., Ali Khan S., Imran M., Waqas H., Ullah Khan S., Ijaz Khan M., Qayyum S., Chu Y.-M.	Applications of modified Darcy law and nonlinear thermal radiation in bioconvection flow of micropolar nanofluid over an off centered rotating disk	2021	Alexandria Engineering Journal	60	5	4607	4618
333	Akhtar K., Javed Y., Muhammad F., Akhtar B., Shad N.A., Sajid M.M., Jamil Y., Sharif A., Abbas W.	Biotransformation and toxicity evaluation of functionalized manganese doped iron oxide nanoparticles	2021	Journal of Biomedical Materials Research - Part B Applied Biomaterials	109	10	1563	1577

334	Ishaq A.R., Manzoor M., Hussain A., Altaf J., Rehman S.U., Javed Z., Afzal I., Noor A., Noor F.	Prospect of microbial food borne diseases in Pakistan: A review [Perspectiva de doenças microbianas transmitidas por alimentos no paquistão: Uma revisão]	2021	Brazilian Journal of Biology	81	4	940	953
335	Majid F., Shahin A., Ata S., Bibi I., Malik A., Ali A., Laref A., Iqbal M., Nazir A.	The effect of temperature on the structural, dielectric and magnetic properties of cobalt ferrites synthesized via hydrothermal method	2021	Zeitschrift fur Physikalische Chemie	235	10	1279	1296
336	Keller C., Rizwan M., Meunier J.-D.	Are Clay Minerals a Significant Source of Si for Crops? A Comparison of Amorphous Silica and the Roles of the Mineral Type and pH	2021	Silicon	13	10	3611	3618
337	Mirza S.S., Eida M., Jabeen F., Iqtedar M., Mahmood A., Akmal M., Sabir M.	Biosorption of chromium from tannery effluent using carbon-activated algae granules of Chlorella vulgaris and Scenedesmus obliquus	2021	International Journal of Environmental Science and Technology	18	10	3061	3070
338	Bano K., Raza M.	Starlike Functions Associated with Cosine Functions	2021	Bulletin of the Iranian Mathematical Society	47	5	1513	1532
339	Hussain M., Naeem M.N.	Vibration characteristics of zigzag FGM single-walled carbon nanotubes based on Ritz method with ring-stiffeners	2021	Indian Journal of Physics	95	10	2023	2034

340	Zulfiqar S., Nadeem M.A., Khan M.K., Anwar M.A., Iqbal M.B., Asmi F.	Opportunity Recognition Behavior and Readiness of Youth for Social Entrepreneurship	2021	Entrepreneurship Research Journal	11	4		
341	Safdar S.S., Shams-Ur-rehman G.	The Roots of the Ecological Crisis in the Theological and Philosophical Landscape of Modern Civilization: An Analysis of Seyyed Hossein Nasr's Perspective	2021	Islamic Studies	60	3	287	308
342	Waqas H., Yasmin S., Khan S.U., Qayyum S., Khan M.I., Abbasi A., Sun T.-C., Malik M.Y.	Implication of Bio-convective Marangoni flow of non-Newtonian material towards an infinite disk subject to exponential space-based heat source	2021	International Journal of Modern Physics B	35	24		
343	Hamayun R., Iqbal M.S., Qadir M.I.	Assessment of analgesic, anti-inflammatory and anti-pyretic activities of Malva neglecta wallr. In animal model	2021	Bangladesh Journal of Botany	50	3	577	583
344	Imran M., Saif M.J., Farooq T., Iqbal J.	Effects of Aromatic Thiol Capping Agents on the Structural and Electronic Properties of CdnTen (n = 6,8 and 9) Quantum Dots	2021	Frontiers in Materials	8			
345	Xue Y., Hassan S., Bahader S., Habib S.	Investigating the Impact of Fear Related to COVID-19 Disease on Situational Humor via Social Networking Sites	2021	Frontiers in Psychology	12			
346	Faiza-Rubab S., Naseem S., Alay-E-Abbas S.M.,	Structural stability and evolution of half-metallicity in Ba2CaMoO6: interplay of hole- And electron-doping	2021	Physical Chemistry Chemical Physics	23	35	19472	19481

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347	Rehman A., Arif M.S., Tufail M.A., Shahzad S.M., Farooq T.H., Ahmed W., Mehmood T., Farooq M.R., Javed Z., Shakoor A.	Biochar potential to relegate metal toxicity effects is more soil driven than plant system: A global meta-analysis	2021	Journal of Cleaner Production	316			
348	Dagar V., Khan M.K., Alvarado R., Usman M., Zakari A., Rehman A., Murshed M., Tillaguango B.	Variations in technical efficiency of farmers with distinct land size across agro-climatic zones: Evidence from India	2021	Journal of Cleaner Production	315			
349	Rizwan M., Ali S., Rehman M.Z.U., Riaz M., Adrees M., Hussain A., Zahir Z.A., Rinklebe J.	Effects of nanoparticles on trace element uptake and toxicity in plants: A review	2021	Ecotoxicology and Environmental Safety	221			
350	Alharby H.F., Rizwan M., Iftikhar A., Hussaini K.M., Zia ur Rehman M., Bamagoos A.A., Alharbi B.M., Asrar M., Yasmeen T., Ali S.	Effect of gibberellic acid and titanium dioxide nanoparticles on growth, antioxidant defense system and mineral nutrient uptake in wheat	2021	Ecotoxicology and Environmental Safety	221			

351	Ali H.T., Jacob J., Ikram S., Sikandar T., Mahmood K., Yusuf M., Ali A., Amin N., Javaid K., Abolaban F.A.	Band gap tailoring of hydrothermally synthesized WS ₂ nanoparticles by the sulfurization time duration	2021	Ceramics International	47	18	25381	25386
352	Kettaf F.Z., Beguediab M., Benguediab S., Selim M.M., Tounsi A., Hussain M.	Mechanical and thermal buckling analysis of laminated composite plates	2021	Steel and Composite Structures	40	5	697	708
353	Jhatial A.A., Goh W.I., Mohamad N., Mo K.H., Mehroz A.	Thermomechanical evaluation of sustainable foamed concrete incorporating palm oil fuel ash and eggshell powder	2021	Journal of Engineering Research (Kuwait)	9	3	64	79
354	Ali H.T., Jamil M., Mahmood K., Yusuf M., Ikram S., Ali A., Amin N., Javaid K., Ali M.Y., Nawaz M.R.	A simulation study of perovskite based solar cells using CZTS as HTM with different electron transporting materials	2021	Journal of Ovonic Research	17	5	437	445
355	Usman A., Bahmani-Oskooee M., Anwar S.	Asymmetric J-curve in the Commodity Trade between Pakistan and China	2021	Frontiers of Economics in China	16	3	521	547

356	Yeboah-Akowitz B., Tchao E.T., Ur-Rehman M., Khan M.M., Ahmad S.	Study of a printed split-ring monopole for dual-spectrum communications	2021	Heliyon	7	9		
357	Abbas A., Naqvi S.A.R., Anjum F., Noureen A., Rasool N.	Antioxidant, antibacterial and antifungal potential study of Salvia macrosiphon Boiss. Stem extracts	2021	Pakistan Journal of Pharmaceutical Sciences	34	5	1903	1907
358	Munir I., Mehmood M.H., Faisal N., Hanif M., Naseer D.	Pharmacological evaluation of Vitis vinifera and Zingiber zerumbet on electrocardiographic, biochemical alterations and antioxidant status in isoproterenol-induced myocardial infarction in rats	2021	Pakistan Journal of Pharmaceutical Sciences	34	5	1929	1937
359	Walayat K., Ahmad M., Ashfaq U.A., Khan Z.A., Sultan S.	Synthesis and α -glucosidase inhibition studies of norfloxacin- acetanilide hybrids	2021	Pakistan Journal of Pharmaceutical Sciences	34	5	1909	1915
360	Ahmad S., Taj S., Aslam S., Khan S.G., Farooq T., Ashfaq U.A., Ahmad M.	In-silico modeling and in-vitro studies of 2,1-benzothiazine- 2,2-dioxide based hydrazone derivatives as α -glucosidase inhibitors	2021	Pakistan Journal of Pharmaceutical Sciences	34	5	1951	1955
361	Yousaf H., Khalid I., Barkat K., Khan I.U., Mehmood Y.	Preparation of smart PVP/HPMC based IPN hydrogel, its characterization and toxicity evaluation	2021	Pakistan Journal of Pharmaceutical Sciences	34	5	1849	1859

362	Ahmad A., Sarwar N., Aslam R., Ali S., Aslam B., Arshad M.A., Hameed H., Arshad M.I.	Pattern of clinical drug resistance and occurrence of Gram negative bacterial neonatal sepsis at a tertiary care hospital	2021	Pakistan Journal of Pharmaceutical Sciences	34	5	1873	1878
363	Mukhtar M.U., Mukhtar M., Iqbal N., Nawaz Z., Bhatti A., Haq F., Arslan A., Rashid M.	The emergence of Dengue Fever in Sheikhpura, Pakistan: Its seroprevalence and risk factors assessment during 2014-2017	2021	Journal of Infection in Developing Countries	15	9	1351	1355
364	Javaid N., Shah M.A., Rasul A., Chauhdary Z., Saleem U., Khan H., Ahmed N., Uddin M.S., Mathew B., Behl T., Blundell R.	Neuroprotective effects of ellagic acid in alzheimer's disease: Focus on underlying molecular mechanisms of therapeutic potential	2021	Current Pharmaceutical Design	27	34	3591	3601
365	Afzal A., Malik N., Batool Z., Ch M.S.	Determinants of stunting among under five children in pakistan: A cross sectional study	2021	Pakistan Paediatric Journal	45	3	327	331
366	Kim C., Latif I., Neupane D.P., Lee G.Y., Kwon R.S., Batool A., Ahmed Q., Qamar M.U., Song J.	The molecular basis of extensively drug-resistant Salmonella Typhi isolates from pediatric septicemia patients	2021	PLoS ONE	16	45544		

367	Chaman S., Zulfiqar S., Shaheen S., Saleem S.	Leadership styles and employee knowledge sharing: Exploring the mediating role of introjected motivation	2021	PLoS ONE	16	45544		
368	Razzaq F.A., Asif M., Asghar S., Iqbal M.S., Khan I.U., Khan S.-U.-D., Irfan M., Syed H.K., Khames A., Mahmood H., Ibrahim A.Y., El Sisi A.M.	Glimepiride-loaded nanoemulgel; development, in vitro characterization, ex vivo permeation and in vivo antidiabetic evaluation	2021	Cells	10	9		
369	Jiatong W., Murad M., Li C., Gill S.A., Ashraf S.F.	Linking cognitive flexibility to entrepreneurial alertness and entrepreneurial intention among medical students with the moderating role of entrepreneurial self-efficacy: A secondorder moderated mediation model	2021	PLoS ONE	16	45544		
370	Beena V., Rayar S.L., Ajitha S., Ahmad A., Iftikhar F.J., Abualnaja K.M., Alomar T.S., Ouladsmne M., Ali S.	Photocatalytic dye degradation and biological activities of copper doped zinc nanoparticles and their insights	2021	Water (Switzerland)	13	18		
371	Khan M.U.A., Yaqoob Z., Nainar M.M.A., Razak S.I.A., Raza M.A., Sajjad A., Haider S., Busra F.M.	Chitosan/poly vinyl alcohol/graphene oxide based pH-responsive composite hydrogel films: Drug release, anti-microbial and cell viability studies	2021	Polymers	13	18		

372	Rizwan K., Rasool N., Hashmi M.A., Noreen S., Zubair M., Arshad M., Shah S.A.A.	Palladium(0) catalyzed synthesis of (e)-4-bromo-n-((3-bromothiophen-2-yl)methylene)-2-methylaniline derivatives via suzuki cross-coupling reaction: An exploration of their non-linear optical properties, reactivity and structural features	2021	Molecules	26	18		
373	Mehmood S., Muneer M.A., Tahir M., Javed M.T., Mahmood T., Afridi M.S., Pakar N.P., Abbasi H.A., Munis M.F.H., Chaudhary H.J.	Deciphering distinct biological control and growth promoting potential of multi-stress tolerant Bacillus subtilis PM32 for potato stem canker	2021	Physiology and Molecular Biology of Plants	27	9	2101	2114
374	Rashid S., Ashraf R., Akdemir A.O., Alqudah M.A., Abdeljawad T., Mohamed M.S.	Analytic fuzzy formulation of a time-fractional fornbergâ€“whitham model with power and mittagâ€“leffler kernels	2021	Fractal and Fractional	5	3		
375	Kokab T., Ashraf H.S., Shakoor M.B., Jilani A., Ahmad S.R., Majid M., Ali S., Farid N., Alghamdi R.A., Al-Quwaie D.A.H., Hakeem K.R.	Effective removal of Cr(Vi) from wastewater using biochar derived from walnut shell	2021	International Journal of Environmental Research and Public Health	18	18		
376	Tchier F., Ali G., Gulzar M., PamuÄ•ar D., Ghorai G.	A new group decision-making technique under picture fuzzy soft expert information	2021	Entropy	23	9		

377	Numan M., Bukhari S.A., Rehman M.-U., Mustafa G., Sadia B.	Phylogenetic analyses, protein modeling and active site prediction of two pathogenesis related (PR2 and PR3) genes from bread wheat	2021	PLoS ONE	16	45544		
378	Andleeb R., Ijaz M.U., Rafique A., Ashraf A., Bano N., Zafar N., Tasleem F., Marc R.A., Pop O.L., Ahmedah H.T.	Biological activities of methanolic extract of aegle marmelos against hn protein of newcastle disease virus	2021	Agronomy	11	9		
379	Farooq U., Waqas H., Imran M., Alghamdi M., Muhammad T.	On melting heat transport and nanofluid in a nozzle of liquid rocket engine with entropy generation	2021	Journal of Materials Research and Technology	14		3059	3069
380	Tufail M.A., Bejarano A., Shakoor A., Naeem A., Arif M.S., Dar A.A., Farooq T.H., Pertot I., Puopolo G.	Can bacterial endophytes be used as a promising bio- inoculant for the mitigation of salinity stress in crop plants?â€”a global meta-analysis of the last decade (2011â€”2020)	2021	Microorganisms	9	9		
381	Aziz H., Wang X., Murtaza G., Ashar A., Hussain S., Abid M., Murtaza B., Saleem M.H., Fiaz S., Ali S.	Evaluation of compost and biochar to mitigate chlorpyrifos pollution in soil and their effect on soil enzyme dynamics	2021	Sustainability (Switzerland)	13	17		

382	Rashid S., Hammouch Z., Aydi H., Ahmad A.G., Alsharif A.M.	Novel computations of the time-fractional fisher's model via generalized fractional integral operators by means of the Elzaki transform	2021	Fractal and Fractional	5	3		
383	Waqas H., Yasmin S., Muhammad T., Imran M.	Flow and heat transfer of nanofluid over a permeable cylinder with nonlinear thermal radiation	2021	Journal of Materials Research and Technology	14		2579	2585
384	Tagde P., Tagde P., Tagde S., Bhattacharya T., Garg V., Akter R., Rahman M.H., Najda A., Albadrani G.M., Sayed A.A., Akhtar M.F., Saleem A., Altyar A.E., Kaushik D., Abdel-Daim M.M.	Natural bioactive molecules: An alternative approach to the treatment and control of glioblastoma multiforme	2021	Biomedicine and Pharmacotherapy	141			
385	Akbar Y., Akram U., Aun M.A., Afsar H., Javed M.W.	MHD peristaltic transportation of radiative MWCNT-Ag/C ₂ H ₆ O ₂ hybrid nanofluid with variable characteristics	2021	Materials Today Communications	28			

386	Akhtar M., Shagufta A., Saleem A., Baig M., Sharif A., Rasul A., Abdel-Daim M.	Tylophora hirsuta L. leaf extract attenuates alloxan-induced diabetes in mice by suppressing oxidative stress and $\uparrow$ -Amylase	2021	Asian Pacific Journal of Tropical Biomedicine	11	9	394	404
387	Ismail S., Shahid F., Khan A., Bhatti S., Ahmad S., Naz A., Almatroudi A., Tahir ul Qamar M.	Pan-vaccinomics approach towards a universal vaccine candidate against WHO priority pathogens to address growing global antibiotic resistance	2021	Computers in Biology and Medicine	136			
388	Saeed F., Afzaal M., Ikram A., Imran A., Hussain S., Mohamed A.A., Alamri M.S., Hussain M.	Exploring the amino acid composition and vitamin-B profile of buckwheat varieties	2021	Journal of Food Processing and Preservation	45	9		
389	Idrees N., Nawaz H.N.	Hilbert function and facet ideals of products of simplicial complexes	2021	Indian Journal of Pure and Applied Mathematics	52	3	787	798
390	Ayesha N., Aboulaghras S., Jahangeer M., Riasat A., Ramzan R., Fatima R., Akram M., Balahbib A., Bouyahya A., Sepiashvili E., Zengin G., Shariati M.A.	Physiopathology and effectiveness of therapeutic vaccines against human papillomavirus	2021	Environmental Science and Pollution Research	28	35	47752	47772

391	Farid W., Masud T., Sohail A., Ahmad N., Naqvi S.M.S., Khan S., Ali A., Khalifa S.A., Hussain A., Ali S., Saghir M., Siddeeg A., Manzoor M.F.	Gastrointestinal transit tolerance, cell surface hydrophobicity, and functional attributes of Lactobacillus Acidophilus strains isolated from Indigenous Dahi	2021	Food Science and Nutrition	9	9	5092	5102
392	Rehman A., Akram A.M., Chaudhary A., Sheikh N., Hussain Z., Alsanie W.F., Rehman R.A., Hameed N., Saleem T., Zafar A., Absar M., Iqbal Z., Alhazmi A., Baeshen H.A., Mohammedsaleh Z.M., Qamer S., Sayed S., Gaber A.	RUNX1 mutation and elevated FLT3 gene expression cooperates to induce inferior prognosis in cytogenetically normal acute myeloid leukemia patients	2021	Saudi Journal of Biological Sciences	28	9	4845	4851
393	Qader A., Rehman K., Akash M.S.H.	Genetic susceptibility of δ^+ -ALAD associated with lead (Pb) intoxication: sources of exposure, preventive measures, and treatment interventions	2021	Environmental Science and Pollution Research	28	33	44818	44832
394	Qayyum M.A., Saeed S., Wakil W., Nawaz A., Iqbal N., Yasin M., Chaurdhry M.A., Bashir M.A., Ahmed N., Riaz H., Bilal H., Hashem M.,	Diversity and correlation of entomopathogenic and associated fungi with soil factors	2021	Journal of King Saud University - Science	33	6		

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395	Chaudhary A., Hussain Z., Aihetasham A., El-Sharnouby M., Abdul Rehman R., Azmat Ullah Khan M., Zahra S., Saleem A., Azhar S., Alhazmi A., El Askary A., Sayed S., Ali El Enshasy H., Zulaiha Hanapi S., Qamer S.	Pomegranate peels waste hydrolyzate optimization by Response Surface Methodology for Bioethanol production	2021	Saudi Journal of Biological Sciences	28	9	4867	4875
396	Ahmad S., Majeed M.I., Nawaz H., Javed M.R., Rashid N., Abubakar M., Batool F., Bashir S., Kashif M., Ali S., Tahira M., Tabbasum S., Amin I.	Characterization and prediction of viral loads of Hepatitis B serum samples by using surface-enhance Raman spectroscopy (SERS)	2021	Photodiagnosis and Photodynamic Therapy	35			
397	Noor F., Saleem M.H., Aslam M.F., Ahmad A., Aslam S.	Construction of miRNA-mRNA network for the identification of key biological markers and their associated pathways in IgA nephropathy by employing the integrated bioinformatics analysis	2021	Saudi Journal of Biological Sciences	28	9	4938	4945

398	Zafar S., Rasul A., Iqbal J., Anwar H., Imran A., Jabeen F., Shabbir A., Akram R., Maqbool J., Sajid F., Arshad M.U., Hussain G., Islam S.	Calotropis procera (leaves) supplementation exerts curative effects on promoting functional recovery in a mouse model of peripheral nerve injury	2021	Food Science and Nutrition	9	9	5016	5027
399	Nazeer M., Hussain F., Hameed M.K., Ijaz Khan M., Ahmad F., Malik M.Y., Shi Q.-H.	Development of mathematical modeling of multi-phase flow of Casson rheological fluid: Theoretical approach	2021	Chaos, Solitons and Fractals	150			
400	Aslam B., Arshad M.I., Aslam M.A., Muzammil S., Siddique A.B., Yasmeen N., Khurshid M., Rasool M., Ahmad M., Rasool M.H., Fahim M., Hussain R., Xia X., Baloch Z.	Bacteriophage Proteome: Insights and Potentials of an Alternate to Antibiotics	2021	Infectious Diseases and Therapy	10	3	1171	1193
401	Syafiuddin A., Boopathy R., Mehmood M.A.	Recent advances on bacterial quorum quenching as an effective strategy to control biofouling in membrane bioreactors	2021	Bioresource Technology Reports	15			

402	Waqas H., Farooq U., Alghamdi M., Muhammad T., Alshomrani A.S.	On the magnetized 3D flow of hybrid nanofluids utilizing nonlinear radiative heat transfer	2021	Physica Scripta	96	9		
403	Shifa M.S., Khan W.A., Albalawi H., Al- Muhimeed T.I., AIObaid A.A., Mahmood Q., Khan M.A., Gulbadan S., Gilani Z.A., Qureshi I.	Effects of heat treatment on the structural, spectral, morphological, dielectric, and magnetic properties of Ba _{0.5} Sr _{0.1} Zn _{0.4} Fe ₁₂ O ₁₉ ferrite	2021	Ceramics International	47	17	24817	24822
404	Adeola H.A., Bano A., Vats R., Vashishtha A., Verma D., Kaushik D., Mittal V., Rahman M.H., Najda A., Albadrani G.M., Sayed A.A., Farouk S.M., Hassanein E.H.M., Akhtar M.F., Saleem A., Abdel-Daim M.M., Bhardwaj R.	Bioactive compounds and their libraries: An insight into prospective phytotherapeutics approach for oral mucocutaneous cancers	2021	Biomedicine and Pharmacotherapy	141			
405	Faisal S., Tutz G.	Multiple imputation using nearest neighbor methods	2021	Information Sciences	570		500	516
406	Alsuwian T., Kousar F., Rasheed U., Imran M., Hussain F., Arif Khalil R.M., Algadi H., Batool N., Khera E.A., Kiran S.,	First principles investigation of physically conductive bridge filament formation of aluminum doped perovskite materials for neuromorphic memristive applications	2021	Chaos, Solitons and Fractals	150			

	Ashiq M.N.							
407	Ur Rahman S., Xuebin Q., Kamran M., Yasin G., Cheng H., Rehim A., Riaz L., Rizwan M., Ali S., Alsahli A.A., Alyemeni M.N.	Silicon elevated cadmium tolerance in wheat (<i>Triticum aestivum</i> L.) by endorsing nutrients uptake and antioxidative defense mechanisms in the leaves	2021	Plant Physiology and Biochemistry	166		148	159
408	Arifeen W.-U., Rehman F.-U., Adeel S., Zuber M., Ahmad M.N., Ahmad T.	Environmental friendly extraction of walnut bark-based juglone natural colorant for dyeing studies of wool fabric	2021	Environmental Science and Pollution Research	28	36	49958	49966
409	Hussain T., Asfora V.K., da Nobrega B.P.A.G., de Barros V.S.M., de Azevedo W.M., Khoury H.J.	Thermoluminescence properties of nanocrystalline BaSO ₄ doped with Eu ²⁺ produced by solid state combustion synthesis	2021	Radiation Physics and Chemistry	186			
410	Husain Tahir S., Kousar S., Ahmed F., Rizwan Ullah M.	Impact of economic freedom on air pollution: configuration analysis of Asia-Pacific region	2021	Environmental Science and Pollution Research	28	35	47932	47941

411	Jahan A., Iqbal M., Shafiq F., Malik A., Javed M.T.	Influence of foliar glutathione and putrescine on metabolism and mineral status of genetically diverse rapeseed cultivars under hexavalent chromium stress	2021	Environmental Science and Pollution Research	28	33	45353	45363
412	Hussain B., Naqvi S.A.A., Anwar S., Shah S.A.R., Hassan R.H., Shah A.A.	Zig-zag technology adoption behavior among brick kiln owners in Pakistan	2021	Environmental Science and Pollution Research	28	33	45168	45182
413	Jahan A., Iqbal M., Malik A.	Individual Rather Than Simultaneous Priming with Glutathione and Putrescine Reduces Chromium Cr6+ Toxicity in Contrasting Canola (Brassica napus L.) Cultivars	2021	Bulletin of Environmental Contamination and Toxicology	107	3	427	432
414	Waheed A., Ahmad M., Ghufra M.A., Jabeen A., Ozdemir F.A., Zafar M., Sultana S., Shah M.A., Majeed S., Khan A.S.	Implication of scanning electron microscopy in the seed morphology with special reference to three subfamilies of Fabaceae	2021	Microscopy Research and Technique	84	9	2176	2185
415	Anwar S., Khalilzadeh R., Khan S., Zaib-un-Nisa, Bashir R., Pirzad A., Malik A.	Mitigation of Drought Stress and Yield Improvement in Wheat by Zinc Foliar Spray Relates to Enhanced Water Use Efficiency and Zinc Contents	2021	International Journal of Plant Production	15	3	377	389
416	Majeed A., Niaz A., Rizwan M., Imran M., Alsahli A.A., Alyemeni M.N., Ali S.	Effects of biochar, farm manure, and pressmud on mineral nutrients and cadmium availability to wheat (Triticum aestivum L.) in Cd-contaminated soil	2021	Physiologia Plantarum	173	1	191	200

417	Mahrosh H.S., Mustafa G.	The COVID-19 puzzle: a global nightmare	2021	Environment, Development and Sustainability	23	9	12710	12737
418	Hussain M., Naeem M.N.	Mass density effect on vibration of zigzag and chiral SWCNTs: A theoretical study	2021	Journal of Sandwich Structures and Materials	23	6	2245	2273
419	Bilal M., Alay-e-Abbas S.M., Sluydts M., Batool J., Laref A., Abbas G., Amin N.	DFT insights into surface properties of anti-perovskite 3D topological crystalline insulators: A case study of (001) surfaces of Ca ₃ SnO	2021	Physics Letters, Section A: General, Atomic and Solid State Physics	408			
420	Anywar G., Akram M., Chishti M.A.	African and Asian Medicinal Plants as a Repository for Prospective Antiviral Metabolites Against HIV-1 and SARS CoV-2: A Mini Review	2021	Frontiers in Pharmacology	12			
421	Waqas H., Bukhari F.F., Muhammad T., Farooq U.	Thermal transport of hybrid nanofluids with entropy generation: A numerical simulation	2021	International Journal of Modern Physics B	35	21		
422	Manzoor A., Khan M.A., Shahzad A., Al-Muhimeed T.I., AlObaid	Influence of B-site cations ordering on magnetization and dielectric relaxations in Li ²⁺ Ni spinel ferrites	2021	Ceramics International	47	16	22662	22668

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423	Malik S., Shahid A., Liu C.-G., Zafar Khan A., Nawaz M.Z., Zhu H., Mehmood M.A.	Developing fourth-generation biofuels secreting microbial cell factories for enhanced productivity and efficient product recovery; a review	2021	Fuel	298			
424	Nazeer M., Hussain F., Shabbir L., Saleem A., Khan M.I., Malik M.Y., Sun T.-C., Hussain A.	A comparative study of MHD fluid-particle suspension induced by metachronal wave under the effects of lubricated walls	2021	International Journal of Modern Physics B	35	20		
425	Kalyar M.N., Ali F., Shafique I.	Green mindfulness and green creativity nexus in hospitality industry: examining the effects of green process engagement and CSR	2021	International Journal of Contemporary Hospitality Management	33	8	2653	2675
426	Ali H.T., Jacob J., Khalid M., Mahmood K., Yusuf M., Mehboob K., Ikram S., Ali A., Amin N., Ashar A.	Optimizing the structural, morphological and thermoelectric properties of zinc oxide by the modulation of cobalt doping concentration	2021	Journal of Alloys and Compounds	871			

427	Irshad M.A., Rehman M.Z.U., Anwar-ul-Haq M., Rizwan M., Nawaz R., Shakoor M.B., Wijaya L., Alyemeni M.N., Ahmad P., Ali S.	Effect of green and chemically synthesized titanium dioxide nanoparticles on cadmium accumulation in wheat grains and potential dietary health risk: A field investigation	2021	Journal of Hazardous Materials	415			
428	Hussain S., Chatha S.A.S., Hussain A.I., Hussain R., Yasir Mehboob M., Mansha A., Shahzad N., Ayub K.	A Theoretical Framework of Zinc-Decorated Inorganic Mg ₁₂ O ₁₂ Nanoclusters for Efficient COCl ₂ Adsorption: A Step Forward toward the Development of COCl ₂ Sensing Materials	2021	ACS Omega	6	30	19435	19444
429	Shoukat H., Altaf A.A., Hamayun M., Ullah S., Kausar S., Hamza M., Muhammad S., Badshah A., Rasool N., Imran M.	Catalytic Oxidation of Toluene into Benzaldehyde and Benzyl Alcohol Using Molybdenum-Incorporated Manganese Oxide Nanomaterials	2021	ACS Omega	6	30	19606	19615
430	Ahmad I., Shukrullah S., Naz M.Y., Rasheed M.A., Ahmad M., Ahmed E., Akhtar M.S., Khalid N.R., Hussain A., Khalid S.	Boosted hydrogen evolution activity from Sr doped ZnO/CNTs nanocomposite as visible light driven photocatalyst	2021	International Journal of Hydrogen Energy	46	53	26711	26724

431	Ranjha M.M.A.N., Kanwal R., Shafique B., Arshad R.N., Irfan S., Kieliszek M., Kowalczewski P.Å., Irfan M., Khalid M.Z., Roobab U., Aadil R.M.	A critical review on pulsed electric field: A novel technology for the extraction of phytoconstituents	2021	Molecules	26	16		
432	Fatima N., Jamal A., Huang Z., Liaquat R., Ahamad B., Haider R., Ali M.I., Shoukat T., Alothman Z.A., Ouladsmame M., Ali T., Ali S., Akhtar N., Sillanpää M.	Extraction and chemical characterization of humic acid from nitric acid treated lignite and bituminous coal samples	2021	Sustainability (Switzerland)	13	16		
433	Iqbal M.A., Rizwan M., Abbas A., Makhdom M.S.A., Kousar R., Nazam M., Samie A., Nadeem N.	A quest for livelihood sustainability? Patterns, motives and determinants of non-farm income diversification among agricultural households in punjab, pakistan	2021	Sustainability (Switzerland)	13	16		
434	Khan I.A., Ahmad M., Ashfaq U.A., Sultan S., Zaki M.E.A.	Discovery of amide-functionalized benzimidazolium salts as potent α -glucosidase inhibitors	2021	Molecules	26	16		

435	Arshad M., Sadeef Y., Shakoor M.B., Naeem M., Bashir F., Ahmad S.R., Ali S., Abid I., Khan N., Alyemeni M.N.	Quantitative estimation of the hydroquinone, mercury and total plate count in skin-lightening creams	2021	Sustainability (Switzerland)	13	16		
436	Ahmad I., Ullah S., Ullah S., Habib U., Ahmad S., Ghaffar A., Alibakhshikenari M., Khan S., Limiti E.	Design and analysis of a photonic crystal based planar antenna for thz applications	2021	Electronics (Switzerland)	10	16		
437	Ali Z., Khadimallah M.A., Hussain M., Asghar S., Al-Thobiani F., Elbahar M., Elimame E., Tounsi A.	Propagation Of Waves With Nonlocal Effects For Vibration Response Of Armchair Double-Walled Cnts	2021	Advances in Nano Research	11	2	183	192
438	Taj M., Khadimallah M.A., Hussain M., Elbahar M., Ahmad M., Elimame E., Zaman S.U., Tounsi A.	An investigation of mechanical properties of kidney tissues by using mechanical bidomain model	2021	Advances in Nano Research	11	2	193	201
439	Rafiq K., Akram M.S., Shahid M., Qaisar U., Rashid N.	Staphylococcus sciuri sat-17 improved the growth of salt stressed maize (Zea mays L.) by modulated expression of stress responsive genes and anti-oxidative defence mechanisms	2021	Pakistan Journal of Agricultural Sciences	58	4	1331	1338

440	Chatha A.A., Asrar M., Hussain S.M., Zahoor M.K., Koehler P.G.	Appraisal of quantitative and qualitative losses in six rice genotypes caused by trogoderma granarium (Everts) and rhizopertha dominica (f.)	2021	Pakistan Journal of Agricultural Sciences	58	4	1185	1189
441	Faryad A., Aziz F., Tahir J., Kousar M., Qasim M., Shamim A.	Integration of OMICS technologies for crop improvement	2021	Protein and Peptide Letters	28	8	896	908
442	Ahmed T., Noman M., Shahid M., Muhammad S., Ul Qamar M.T., Ali M.A., Maqsood A., Hafeez R., Ogunyemi S.O., Li B.	Potential application of crispr/cas9 system to engineer abiotic stress tolerance in plants	2021	Protein and Peptide Letters	28	8	861	877
443	Khan R.D.A., Shahzad K., Khan S., Israr M., Zahid F.M.	Comparison of physiotherapy with and without intra-articular corticosteroid injection for treatment of frozen shoulder: A comparative study	2021	Journal of the Pakistan Medical Association	71	8	S17	S20
444	Tahir M.F., Mustafa G., Noreen R., Altaf J., Anjum F., Bukhari S.A.	Evaluation of crude and modified cordia myxa gum for its nutraceutical benefits	2021	Indian Journal of Pharmaceutical Sciences	83	4	671	678

445	Mushtaq Z., Ahmed S., Irshad F., Mustafa G.	Isolation, identification and sequence analysis of subtilisin gene (quaking homolog) encoding a fibrinolytic enzyme from bacillus subtilis	2021	Indian Journal of Pharmaceutical Sciences	83	4	856	864
446	Islam N., Irfan M., Zahoor A.F., Iqbal M.S., Syed H.K., Khan I.U., Rasul A., Khan S.-U.-D., Alqahtani A.M., Ikram M., Qayyum M.A., Khames A., Inam S., Abourehab M.A.S.	Improved bioavailability of ebastine through development of transfersomal oral films	2021	Pharmaceutics	13	8		
447	Rashid S., Kubra K.T., Guirao J.L.G.	Construction of an approximate analytical solution for multi-dimensional fractional zakharovâ€“kuznetsov equation via aboodh adomian decomposition method	2021	Symmetry	13	8		
448	Waqas H., Muhammad T., Khan S.A., Yasmin S.	Inspection of modified Fourierâ€™s and Fickâ€™s laws in magnetized transport of Oldroyd-B nanofluid with swimming motile microorganisms: a theoretical model	2021	European Physical Journal Plus	136	8		
449	Hussain T., Hussain A.I., Chatha S.A.S., Aslam N., Bokhari T.H., Asrar M.	Ultrasonic powered hydrothermal modification of coal fly ash to cost-effective zeolites	2021	Journal of the Chemical Society of Pakistan	43	4	393	405

450	Shahzad A., Oh J.-M., Azam M., Iqbal J., Hussain S., Miran W., Rasool K.	Advances in the synthesis and application of anti-fouling membranes using two-dimensional nanomaterials	2021	Membranes	11	8		
451	Chandio A.D., Channa I.A., Rizwan M., Akram S., Javed M.S., Siyal S.H., Saleem M., Makhdoom M.A., Ashfaq T., Khan S., Hussain S., Albaqami M.D., Alotabi R.G.	Polyvinyl alcohol and nano-clay based solution processed packaging coatings	2021	Coatings	11	8		
452	Mobeen, Wang X., Saleem M.H., Parveen A., Mumtaz S., Hassan A., Adnan M., Fiaz S., Ali S., Iqbal Khan Z., Ali S., Yasin G.	Proximate composition and nutritive value of some leafy vegetables from Faisalabad, Pakistan	2021	Sustainability (Switzerland)	13	15		
453	Tariq F., Wang X., Saleem M.H., Khan Z.I., Ahmad K., Malik I.S., Munir M., Mahpara S., Mehmood N., Ahmad T., Memona H., Ugulu I., Fiaz S., Ali S.	Risk assessment of heavy metals in basmati rice: implications for public health	2021	Sustainability (Switzerland)	13	15		
454	Alolaiyan H., Alshehri H.A., Mateen M.H.,	A novel algebraic structure of $(\hat{I}^{\pm}, \hat{I}^2)$ -complex fuzzy subgroups	2021	Entropy	23	8		

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455	Rashid S., Khalid A., Bazighifan O., Oros G.I.	New modifications of integral inequalities via $\hat{\alpha},^{\circ}$ -convexity pertaining to fractional calculus and their applications	2021	Mathematics	9	15		
456	Younis M.E., Rizwan M., Tourky S.M.N.	Assessment of early physiological and biochemical responses in chia (<i>Salvia hispanica</i> L.) sprouts under salt stress	2021	Acta Physiologiae Plantarum	43	8		
457	Waqas M., Iqbal S.Z., Abdull Razis A.F., Pervaiz W., Ahmad T., Usman S., Ali N.B., Asi M.R.	Occurrence of aflatoxins in edible vegetable seeds and oil samples available in pakistani retail markets and estimation of dietary intake in consumers	2021	International Journal of Environmental Research and Public Health	18	15		
458	Walayat N., Wang X., Nawaz A., Zhang Z., Abdullah A., Khalifa I., Saleem M.H., Mushtaq B.S., Pateiro M., Lorenzo J.M., Fiaz S., Ali S.	Ovalbumin and kappa-carrageenan mixture suppresses the oxidative and structural changes in the myofibrillar proteins of grass carp (<i>Ctenopharyngodon idella</i>) during frozen storage	2021	Antioxidants	10	8		
459	Abdulbari A.A., Jawad M.M., Hanoosh H.O., Saare M.A., Lashari S.A., Sari S.A., Ahmad S., Khalill Y., Hussain Y.M.	Design compact microstrap patch antenna with t-shaped 5g application	2021	Bulletin of Electrical Engineering and Informatics	10	4	2072	2078

460	Pervaiz S., Kanwal N., Hussain S.A., Saleem M., Khan I.A.	Study of structural, optical and dielectric properties of ZnO/PVDF-based flexible sheets	2021	Journal of Polymer Research	28	8		
461	Ali H.T., Jacob J., Isram M., Mahmood K., Yusuf M., Mehboob K., Ikram S., Amin N., Javaid K.	Effect of Aluminum (Al) Concentration on the Thermoelectric Performance of Zinc Aluminum Selenium (ZnAlSe) Alloy	2021	Journal of Superconductivity and Novel Magnetism	34	8	2199	2206
462	Ahmad G., Rasool N., Qamar M.U., Alam M.M., Kosar N., Mahmood T., Imran M.	Facile synthesis of 4-aryl-N-(5-methyl-1H-pyrazol-3-yl)benzamides via Suzuki Miyaura reaction: Antibacterial activity against clinically isolated NDM-1-positive bacteria and their Docking Studies	2021	Arabian Journal of Chemistry	14	8		
463	Waqas H., Farooq U., Muhammad T., Hussain S., Khan I.	Thermal effect on bioconvection flow of Sutterby nanofluid between two rotating disks with motile microorganisms	2021	Case Studies in Thermal Engineering	26			
464	Faisal S., Tutz G.	Imputation methods for high-dimensional mixed-type datasets by nearest neighbors	2021	Computers in Biology and Medicine	135			

465	Ajaz N., Khan I.U., Asghar S., Khalid S.H., Irfan M., Asif M., Chatha S.A.S.	Assessing the pH responsive and mucoadhesive behavior of dexamethasone sodium phosphate loaded itaconic acid-grafted-poly(acrylamide)/carbopol semi-interpenetrating networks	2021	Journal of Polymer Research	28	8		
466	Grewal A.K., Singh T.G., Sharma D., Sharma V., Singh M., Rahman M.H., Najda A., Walasek-Janusz M., Kamel M., Albadrani G.M., Akhtar M.F., Saleem A., Abdel-Daim M.M.	Mechanistic insights and perspectives involved in neuroprotective action of quercetin	2021	Biomedicine and Pharmacotherapy	140			
467	Imran M., Farooq U., Waqas H., Anqi A.E., Safaei M.R.	Numerical performance of thermal conductivity in Bioconvection flow of cross nanofluid containing swimming microorganisms over a cylinder with melting phenomenon	2021	Case Studies in Thermal Engineering	26			
468	Nayak M.K., Mehmood R., Muhammad T., Khan A.U., Waqas H.	Entropy minimization in mixed convective Falkner-Skan flow of ZnO-SAE50 nanolubricant over stationary/moving Riga plate	2021	Case Studies in Thermal Engineering	26			
469	Hassan A., Fasiha Amjad S., Hamzah Saleem M., Yasmin H., Imran M., Riaz M., Ali Q., Ahmad Joyia F., Mobeen, Ahmed	Foliar application of ascorbic acid enhances salinity stress tolerance in barley (<i>Hordeum vulgare</i> L.) through modulation of morpho-physio-biochemical attributes, ions uptake, osmo-protectants and stress response genes expression	2021	Saudi Journal of Biological Sciences	28	8	4276	4290

	S., Ali S., Abdullah Alsahli A., Nasser Alyemeni M.							
470	Waqas H., Alqarni M.S., Muhammad T., Khan M.A.	Numerical study for bioconvection transport of micropolar nanofluid over a thin needle with thermal and exponential space-based heat source	2021	Case Studies in Thermal Engineering	26			
471	Ikram A., Saeed F., Afzaal M., Imran A., Niaz B., Tufail T., Hussain M., Anjum F.M.	Nutritional and end-use perspectives of sprouted grains: A comprehensive review	2021	Food Science and Nutrition	9	8	4617	4628
472	Ahmad F., Waqas H., Ayed H., Hussain S., Farooq S., Khan S.A., Almatroud A.O.	Numerical treatment with Lobatto-IIIa scheme magneto-thermo-natural convection flow of casson nanofluid (MoS ₂ -Cu/SA) configured by a stretching cylinder in porous medium with multiple slips	2021	Case Studies in Thermal Engineering	26			
473	Waqas H., Khan S.A., Farooq U., Khan I., Alotaibi H., Khan A.	Melting phenomenon of non-linear radiative generalized second grade nanoliquid	2021	Case Studies in Thermal Engineering	26			

474	Hussain S., Ahmad F., Ayed H., Malik M.Y., Waqas H., Al-Sawalha M.M., Hussain S.	Combined magnetic and porosity effects on flow of time- dependent tangent hyperbolic fluid with nanoparticles and motile gyrotactic microorganism past a wedge with second- order slip	2021	Case Studies in Thermal Engineering	26			
475	Imran M., Farooq U., Muhammad T., Khan S.U., Waqas H.	Bioconvection transport of Carreau nanofluid with magnetic dipole and nonlinear thermal radiation	2021	Case Studies in Thermal Engineering	26			
476	Khaliq S., Iqbal M., Yaseen W., Rasheed R.	The exogenous menadiol diacetate enhances growth and yield by reducing Pb uptake, translocation and its toxicity through tissue nutrients acquisition in cucumber (Cucumis sativus L.)	2021	Environmental Technology and Innovation	23			
477	Habib S., Batool A., Islam A., Nadeem M., Gepreel K.A., He J.-H.	STUDY of NONLINEAR HIROTA-SATSUMA COUPLED KdV and COUPLED mKdV SYSTEM with TIME FRACTIONAL DERIVATIVE	2021	Fractals	29	5		
478	Waqas H., Alghamdi M., Muhammad T., Khan M.A.	Bioconvection transport of magnetized Walter's B nanofluid across a cylindrical disk with nonlinear radiative heat transfer	2021	Case Studies in Thermal Engineering	26			

479	Ahmad Sajid T., Jamal M.A., Saeed M., Atta-ul-Haq, Muneer M.	Elucidation of molecular interactions between amino acid and imidazolium based ionic liquid in an aqueous system: Volumetric and acoustic studies	2021	Journal of Molecular Liquids	335			
480	Waqas H., Farooq U., Khan S.A., Alshehri H.M., Goodarzi M.	Numerical analysis of dual variable of conductivity in bioconvection flow of Carreau–Yasuda nanofluid containing gyrotactic motile microorganisms over a porous medium	2021	Journal of Thermal Analysis and Calorimetry	145	4	2033	2044
481	Waqas H., Farooq U., Naseem R., Hussain S., Alghamdi M.	Impact of MHD radiative flow of hybrid nanofluid over a rotating disk	2021	Case Studies in Thermal Engineering	26			
482	Aslam A., Ibrahim M., Mahmood A., Mubashir M., Sipra H.F.K., Shahid I., Ramzan S., Latif M.T., Tahir M.Y., Show P.L.	Mitigation of particulate matters and integrated approach for carbon monoxide remediation in an urban environment	2021	Journal of Environmental Chemical Engineering	9	4		
483	Ben Henda M., Waqas H., Hussain M., Khan S.U., Chammam W., Khan S.A., Tlili I.	Applications of activation energy along with thermal and exponential space-based heat source in bioconvection assessment of magnetized third grade nanofluid over stretched cylinder/sheet	2021	Case Studies in Thermal Engineering	26			

484	Khan S.A., Waqas H., Naqvi S.M.R.S., Alghamdi M., Al-Mdallal Q.	Cattaneo-Christov double diffusions theories with bio-convection in nanofluid flow to enhance the efficiency of nanoparticles diffusion	2021	Case Studies in Thermal Engineering	26			
485	Alvi M.A., Li L., Ohiolei J.A., Qamar W., Saqib M., Tayyab M.H., Altaf J., Ashfaq K., Hassan A., Jamal M., Wahab A., Alvi A.A., Usman M., Bajwa M.R.K., Fu B.-Q., Yan H.-B., Jia W.-Z.	Hydatigera taeniaeformis in urban rats (Rattus rattus) in Faisalabad, Pakistan	2021	Infection, Genetics and Evolution	92			
486	Zhang J., Cai G., Shahzad A., Liu X., Wang W.	Ionic liquid electrospray behavior in a hybrid emitter electrospray thruster	2021	International Journal of Heat and Mass Transfer	175			
487	Anwar T., Qureshi H., Mahnashi M.H., Kabir F., Parveen N., Ahmed D., Afzal U., Batool S., Awais M., Ahmed Alyami S., Ahmed Alhaider H.	Bioherbicidal ability and weed management of allelopathic methyl esters from Lantana camara	2021	Saudi Journal of Biological Sciences	28	8	4365	4374

488	Shahid A., Usman M., Atta Z., Musharraf S.G., Malik S., Elkamel A., Shahid M., Abdulhamid Alkhatabi N., Gull M., Mehmood M.A.	Impact of wastewater cultivation on pollutant removal, biomass production, metabolite biosynthesis, and carbon dioxide fixation of newly isolated cyanobacteria in a multiproduct biorefinery paradigm	2021	Bioresource Technology	333			
489	Bashir A., ur Rehman M.Z., Hussaini K.M., Adrees M., Qayyum M.F., Sayal A.U., Rizwan M., Ali S., Alsahli A.A., Alyemeni M.N.	Combined use of zinc nanoparticles and co-composted biochar enhanced wheat growth and decreased Cd concentration in grains under Cd and drought stress: A field study	2021	Environmental Technology and Innovation	23			
490	Hussain M., Khadimallah M.A., Naeem M.N.	Non-local effect on the frequency analysis of chiral single- walled carbon nanotubes using wave propagation approach	2021	Micro and Nano Letters	16	9	469	477
491	Islam A., Usman K., Kaleem Q.M., Wattoo A.G., Javaid K., Alam F.E., Ryu S.Y., Li M.-D., Ge Z.	Y-shaped donor-acceptor based deep-blue electroluminescent material for Non-doped organic light emitting devices	2021	Journal of Luminescence	236			
492	Sajid M., Ali N., Ratyal N.I., Dar S.H., Zafar B.	Facial asymmetry-based feature extraction for different applications: a review complemented by new advances	2021	Artificial Intelligence Review	54	6	4379	4419

493	Faisal M., Chunping X., Abbas A., Raza M.H., Akhtar S., Ajmal M.A., Ali A.	Do risk perceptions and constraints influence the adoption of climate change practices among small livestock herders in Punjab, Pakistan?	2021	Environmental Science and Pollution Research	28	32	43777	43791
494	Khan A.H., Tirth V., Fawzy M., Mahmoud A.E.D., Khan N.A., Ahmed S., Ali S.S., Akram M., Hameed L., Islam S., Das G., Roy S., Dehghani M.H.	COVID-19 transmission, vulnerability, persistence and nanotherapy: a review	2021	Environmental Chemistry Letters	19	4	2773	2787
495	Wang M.-K., Rashid S., Karaca Y., Baleanu D., Chu Y.-M.	NEW MULTI-FUNCTIONAL APPROACH for $\hat{I}^\alpha$ TH-ORDER DIFFERENTIABILITY GOVERNED by FRACTIONAL CALCULUS VIA APPROXIMATELY GENERALIZED $(\hat{I}^\alpha, ?)$ -CONVEX FUNCTIONS in HILBERT SPACE	2021	Fractals	29	5		
496	Al Qurashi M., Rashid S., Khalid A., Karaca Y., Chu Y.-M.	NEW COMPUTATIONS of OSTROWSKI-TYPE INEQUALITY PERTAINING to FRACTAL STYLE with APPLICATIONS	2021	Fractals	29	5		

497	Saleem M., Malik S., Mehwish H.M., Ali M.W., Hussain N., Khurshid M., Rajoka M.S.R., Chen Y.	Isolation and functional characterization of exopolysaccharide produced by Lactobacillus plantarum S123 isolated from traditional Chinese cheese	2021	Archives of Microbiology	203	6	3061	3070
498	Shah A.A., Gong Z., Khan N.A., Khan I., Ali M., Naqvi S.A.A.	Livelihood diversification in managing catastrophic risks: evidence from flood-disaster regions of Khyber Pakhtunkhwa Province of Pakistan	2021	Environmental Science and Pollution Research	28	30	40844	40857
499	Al-Qurashi M., Rashid S., Karaca Y., Hammouch Z., Baleanu D., Chu Y.-M.	ACHIEVING MORE PRECISE BOUNDS BASED on DOUBLE and TRIPLE INTEGRAL AS PROPOSED by GENERALIZED PROPORTIONAL FRACTIONAL OPERATORS in the HILFER SENSE	2021	Fractals	29	5		
500	Saleem U., Shehzad A., Shah S., Raza Z., Shah M.A., Bibi S., Chauhdary Z., Ahmad B.	Antiparkinsonian activity of Cucurbita pepo seeds along with possible underlying mechanism	2021	Metabolic Brain Disease	36	6	1231	1251
501	Idrees A., Shan A., Ali M., Abbas Z., Shahzad T., Hussain S., Mahmood F., Farooq U., Danish M., Lyu S.	Highly efficient degradation of trichloroethylene in groundwater based on persulfate activation by polyvinylpyrrolidone functionalized Fe/Cu bimetallic nanoparticles	2021	Journal of Environmental Chemical Engineering	9	4		

502	Li Y.-M., Rashid S., Hammouch Z., Baleanu D., Chu Y.-M.	NEW NEWTON'S TYPE ESTIMATES PERTAINING to LOCAL FRACTIONAL INTEGRAL VIA GENERALIZED p -CONVEXITY with APPLICATIONS	2021	Fractals	29	5		
503	Mehboob M.Y., Hussain R., Khan M.U., Adnan M., Ehsan M.A., Rehman A., Janjua M.R.S.A.	Quantum chemical design of near-infrared sensitive fused ring electron acceptors containing selenophene as π -bridge for high-performance organic solar cells	2021	Journal of Physical Organic Chemistry	34	8		
504	Ali A., Hussain M., Ghaffar A., Ali Z., Nisar K.S., Alharthi M.R., Jamshed W.	Numerical simulations and analysis for mathematical model of avascular tumor growth using Gompertz growth rate function	2021	Alexandria Engineering Journal	60	4	3731	3740
505	Azam M., Yaqoob M.Z., Ghaffar A., Alkanhal M.A.S., Khan Y., Alqahtani A.H.	Electromagnetic Energy Surface Modes in Metamaterial-Filled Bi-layer Graphene Structures	2021	Plasmonics	16	4	1175	1194
506	Raza A., Khan M.T.I., Ali Q., Hussain T., Narjis S.	Association between meteorological indicators and COVID-19 pandemic in Pakistan	2021	Environmental Science and Pollution Research	28	30	40378	40393
507	Anjum A., Zuber M., Zia K.M., Anjum M.N., Aftab W.	Preparation and characterization of guar gum based polyurethanes	2021	International Journal of Biological Macromolecules	183		2174	2183

508	Li Y.-X., Khan S.U., Shah F., Waqas H., Khan M.I., Malik M.Y.	Bio-convective couple stress nanofluid behavior analysis with temperature-dependent viscosity and higher order slip encountered by a moving surface	2021	International Journal of Modern Physics B	35	19		
509	Abdul Sammed K., Pan L., Farid A., Javid M., Yang S., Asif M.	Carbon Nanocoil-Supported Three-Dimensional Structure of Nickel-Cobalt Nitrides as the Electrode Material for Supercapacitors	2021	ACS Applied Energy Materials	4	7	6678	6687
510	Gulzar K., Sharif M., Khan A.M., Javed M.R., Malik I.R.	Cloning and expression of hepatitis B surface gene in E. coli	2021	Advancements in Life Sciences	8	3	275	280
511	Belabed Z., Selim M.M., Slimani O., Taibi N., Tounsi A., Hussain M.	An efficient higher order shear deformation theory for free vibration analysis of functionally graded shells	2021	Steel and Composite Structures	40	2	307	321
512	Razzaq A., Kaur P., Akhter N., Wani S.H., Saleem F.	Next-Generation Breeding Strategies for Climate-Ready Crops	2021	Frontiers in Plant Science	12			
513	Khan A.S., Pan L., Farid A., Javid M., Huang H., Zhao Y.	Carbon nanocoils decorated with a porous NiCo ₂ O ₄ nanosheet array as a highly efficient electrode for supercapacitors	2021	Nanoscale	13	27	11943	11952

514	Nazeer M., Hussain F., Ahmad F., Khan M.I., Gohar F., Malik M.Y., Sun T.-C., Saleem A.	Numerical analysis of multiphase flow of couple stress fluid thermally effected by moving surface	2021	International Journal of Modern Physics B	35	18		
515	Noman A., Aqeel M., Islam W., Khalid N., Akhtar N., Qasim M., Yasin G., Hashem M., Alamri S., Al-Zoubi O.M., Jalees M.M., Al-sadi A.	Insectsâ€™plants-pathogens: Toxicity, dependence and defense dynamics	2021	Toxicon	197		87	98
516	Saleem S., Mahmood F., Usman M., Bashir M., Shabbir R.	Determinants of Investment Behavior in Mutual Funds: Evidence From Pakistan	2021	Frontiers in Psychology	12			
517	Batiha G.E.-S., Alqarni M., Awad D.A.B., Algammal A.M., Nyamota R., Wahed M.I.I., Shah M.A., Amin M.N., Adetuyi B.O., Hetta H.F., Cruz-Martins N., Koirala N., Ghosh A., EcheverrÃa J., Pagnossa J.P., Sabatier J.-M.	Dairy-Derived and Egg White Proteins in Enhancing Immune System Against COVID-19	2021	Frontiers in Nutrition	8			

518	Waqas H., Muhammad T., Hussain S., Yasmin S., Rasool G.	Consequences of Fourier's and Fick's laws in bioconvective couple stress nanofluid flow configured by an inclined stretchable cylinder	2021	International Journal of Modern Physics B	35	17		
519	Waqas H., Khan S.A., Bhatti M.M., Hussain S.	Bioconvection mechanism using third-grade nanofluid flow with Cattaneo-Christov heat flux model and Arrhenius kinetics	2021	International Journal of Modern Physics B	35	17		
520	Zhang S., Asghar S., Zhu C., Ye J., Lin L., Xu L., Hu Z., Chen Z., Shao F., Xiao Y.	Multifunctional nanorods based on self-assembly of biomimetic apolipoprotein E peptide for the treatment of Alzheimer's disease	2021	Journal of Controlled Release	335		637	649
521	Javaid F., Mehmood M.H., Shaukat B.	Hydroethanolic Extract of A. officinarum Hance Ameliorates Hypertension and Causes Diuresis in Obesogenic Feed-Fed Rat Model	2021	Frontiers in Pharmacology	12			
522	Magdy Beshbishy A., Oti V.B., Hussein D.E., Rehan I.F., Adeyemi O.S., Rivero-Perez N., Zaragoza-Bastida A., Shah M.A., Abouelezz K., Hetta H.F., Cruz-Martins N., Batiha G.E.-S.	Factors Behind the Higher COVID-19 Risk in Diabetes: A Critical Review	2021	Frontiers in Public Health	9			

523	Sana M., Ahmad S., Abrar F., Qasim M.A.	Millimeter-wave quad-band dielectric resonator antenna for 5G applications	2021	EUROCON 2021 - 19th IEEE International Conference on Smart Technologies, Proceedings			304	307
524	Khan N.M., Hussain B., Zheng C., Khan A., Masoud M.S., Gu Q., Qiu L., Malik N.A., Qasim M., Tariq M., Chang J.	Updates on Clinical and Genetic Heterogeneity of ASPM in 12 Autosomal Recessive Primary Microcephaly Families in Pakistani Population	2021	Frontiers in Pediatrics	9			
525	Ghafar M.A., Akram N.A., Saleem M.H., Wang J., Wijaya L., Alyemeni M.N.	Ecotypic morphological and physio-biochemical responses of two differentially adapted forage grasses, Cenchrus ciliaris L. And Cyperus Arenarius Retz. to drought stress	2021	Sustainability (Switzerland)	13	14		
526	Anjam Q., Hussain F., Imran M., Amin N., Munir T.	Investigate the effect of temperature, length, width, and thickness of substrate on thermal conductivity of graphene copper nanocomposites	2021	Journal of Ovonic Research	17	4	353	365
527	Din S.U., Shahbaz U., Din S.U., Siraj S., Gul A., Raziq A., Ullah A., Khan M.W., Ullah H.	Recent updates on effectiveness of COVID-19 vaccines	2021	Novel Research in Microbiology Journal	5	4	1301	1312

528	Ali H.T., Rehman U., Mahmood K., Yusuf M., Ikram S., Ali A., Amin N., Ashfaq A., Ali Y., Sajjad M.A.	Influence of post annealing temperature on the thermoelectric properties of bulk ZnSnO	2021	Journal of Ovonic Research	17	4	367	372
529	Anjam Q., Hussain F., Imran M., Amin N., Kashif M.	A molecular dynamics study on thermal and mechanical behavior of graphene-copper nanocomposites for automobile & aerospace industry	2021	Digest Journal of Nanomaterials and Biostructures	16	3	1185	1196
530	Khan I.A., Hassan B., Hussain S.A., Pervaiz S.	Role of nitrogen pressure on structural and optical properties of AlN films synthesized by thermal evaporation	2021	Journal of Optoelectronics and Advanced Materials	23	45481	373	382
531	Haleem M.A., Khan S.A., Khan M.K., Ahmad R.S., Naqvi S.A.R., Imran M., Ahmad M.H., Anwar H., Nisa M.U.	Potential protective role of curcumin powder to regulate arsenic-induced hepatorenal toxicity and hyperlipidemic metabolic dysfunction in rat model	2021	Pakistan Journal of Pharmaceutical Sciences	34	4	1535	1540
532	Afzal Z., Asghar S.	Fabrication and characterization of itraconazole loaded anisotropic solid lipid-mannitol microstructures for enhanced antifungal activity	2021	Pakistan Journal of Pharmaceutical Sciences	34	4	1607	1614

533	Rizwan M., Aslam N., Ashfaq U.A., Hayat M., Hussain S.M.	SNP of HMGCR and Apo E genes and their impact in response to statin therapy in hypercholesterolemic and hypertriglyceridemic patients in Pakistan	2021	Pakistan Journal of Pharmaceutical Sciences	34	4	1577	1583
534	Safeer M., Khadimallah M.A., Taj M., Hussain M., Elaloui E., Tounsi A.	Strength performance with buckling analysis of Intermediate filaments by consideration nonlocal parameters	2021	Computers and Concrete	28	1	69	75
535	Khadimallah M.A., Hussain M., Elbahar M., Ghandourah E., Elimame E., Tounsi A.	The effects of ring and fraction laws: Vibration of rotating isotropic cylindrical shell	2021	Advances in Nano Research	11	1	19	26
536	Taj M., Khadimallah M.A., Hussain M., Ghandourah E., Safeer M., Elbahar M., Khan M., Elimame E.	Mechanics of anisotropic cardiac muscles embedded in viscoelastic medium	2021	Advances in Concrete Construction	12	1	57	61
537	Perveen R., Wang X., Jamil Y., Ali Q., Ali S., Zakaria M.Q., Afzaal M., Kasana R.A., Saleem M.H., Fiaz S.	Quantitative determination of the effects of heâ€‘ne laser irradiation on seed thermodynamics, germination attributes and metabolites of safflower (Carthamus tinctorius L.) in relation with the activities of germination enzymes	2021	Agronomy	11	7		

538	Nawaz M., Wang X., Saleem M.H., Khan M.H.U., Afzal J., Fiaz S., Ali S., Ishaq H., Khan A.H., Rehman N., Shaukat S., Ali S.	Deciphering plantago ovata forsk leaf extract mediated distinct germination, growth and physio-biochemical improvements under water stress in maize (Zea mays L.) at early growth stage	2021	Agronomy	11	7		
539	Rashid S., Khalid A., Sultana S., Hammouch Z., Shah R., Alsharif A.M.	A novel analytical view of time-fractional korteweg-de vries equations via a new integral transform	2021	Symmetry	13	7		
540	Noor F., Saleem M.H., Chen J.-T., Javed M.R., Al-Megrin W.A., Aslam S.	Integrative bioinformatics approaches to map key biological markers and therapeutic drugs in Extramammary Paget's disease of the scrotum	2021	PLoS ONE	16	45480		
541	Younas U., Hassan S.T., Ali F., Hassan F., Saeed Z., Pervaiz M., Khan S., Jannat F.T., Bibi S., Sadiqa A., Ali Z., Iqbal S., Ghfar A.A., Ouladsmame M., Al-Anazy M.M., Ali S.	Radical scavenging and catalytic activity of Fe-Cu bimetallic nanoparticles synthesized from ixora finlaysoniana extract	2021	Coatings	11	7		
542	Qamar M.U., Ambreen A., Batool A., Rasool M.H., Shafique M., Khan A., Nisar M.A., Khalid A., Junaid K., Abosalif K.O.A., Ejaz H.	Molecular detection of extensively drug-resistant Salmonella Typhi and carbapenem-resistant pathogens in pediatric septicemia patients in Pakistan-a public health concern	2021	Future Microbiology	16	10	731	739

543	Kamal S., Bibi I., Rehman K., Zahoor A.F., Kamal A., Aslam F., Alasmary F.A., Almutairi T.M., Alhajri H.M., Alissa S.A., Iqbal H.M.N.	Biological activities of in-house developed haloxylon griffithii plant extract formulations	2021	Plants	10	7		
544	Zahid F.M., Faisal S., Heumann C.	Multiple imputation with compatibility for high-dimensional data	2021	PLoS ONE	16	45480		
545	Zohaib A., Mateen A., Mahmood K., Ali A., Amin N.	Investigating the potential of ZTO as an efficient and cheap SERS substrate for the identification of bacteria	2021	AIP Advances	11	7		
546	Basit F., Chen M., Ahmed T., Shahid M., Noman M., Liu J., An J., Hashem A., Al-Arjani A.-B.F., Alqarawi A.A., Alsayed M.F.S., Abd_allah E.F., Hu J., Guan Y.	Seed priming with brassinosteroids alleviates chromium stress in rice cultivars via improving ros metabolism and antioxidant defense response at biochemical and molecular levels	2021	Antioxidants	10	7		
547	Naheed S., Zuber M., Salman M., Rasool N., Siddique Z., Shaik M.R., Sharaf M.A.F., Abdelgawad A., Sekou D., Awwad E.M.	Impact of macrodiols on the morphological behavior of h12 mdi/hdo-based polyurethane elastomer	2021	Polymers	13	13		

548	Tayyab M., Hussain A., Syed W.A., Nabi S., Asif Q.A.	Effect of copper concentration and sulfur vacancies on electronic properties of MoS2 monolayer: a computational study	2021	Journal of Molecular Modeling	27	7		
549	Akash M.S.H., Rehman K., Irshad K.	Prevalence of contamination of aflatoxin M1 in milk: a retrospective analysis of studies conducted in Pakistan	2021	Environmental Monitoring and Assessment	193	7		
550	Iqbal A., Haq A.U., CerrÃ³n-Calle G.A., Naqvi S.A.R., Westerhoff P., Garcia-Segura S.	Green synthesis of flower-shaped copper oxide and nickel oxide nanoparticles via capparid leaf extract for synergic adsorption-photocatalytic degradation of pesticides	2021	Catalysts	11	7		
551	Waqas H., Naseem R., Muhammad T., Farooq U.	Bioconvection flow of Casson nanofluid by rotating disk with motile microorganisms	2021	Journal of Materials Research and Technology	13		2392	2407
552	Noman M., Ahmed T., Ijaz U., Shahid M., Azizullah, Li D., Manzoor I., Song F.	Plant-microbiome crosstalk: Dawning from composition and assembly of microbial community to improvement of disease resilience in plants	2021	International Journal of Molecular Sciences	22	13		
553	Chu Y.-M., Rashid S., Jarad F., Noor M.A., Kalsoom H.	More new results on integral inequalities for generalized K-fractional conformable integral operators	2021	Discrete and Continuous Dynamical Systems - Series S	14	7	2119	2135

554	Waqas H., Manzoor U., Muhammad T., Hussain S.	Thermo-bioconvection transport of nanofluid over an inclined stretching cylinder with Cattaneo-Christov double-diffusion	2021	Communications in Theoretical Physics	73	7		
555	Nazir S., Anwar F., Saleem U., Ahmad B., Raza Z., Sanawar M., Rehman A., Ismail T.	Drotaverine Inhibitor of PDE4: Reverses the Streptozotocin Induced Alzheimer's Disease in Mice	2021	Neurochemical Research	46	7	1814	1829
556	Iqbal O., Shah S., Abbas G., Rasul A., Hanif M., Ashfaq M., Afzal Z.	Moxifloxacin loaded nanoparticles of disulfide bridged thiolated chitosan-eudragit RS100 for controlled drug delivery	2021	International Journal of Biological Macromolecules	182		2087	2096
557	Akram N., Saleem S., Zia K.M., Saeed M., Usman M., Maqsood S., Mumtaz N., Khan W.G., Hafiz-Ur-Rehman	Stoichiometric-architectural impact on thermo-mechanical and morphological behavior of segmented Polyurethane elastomers	2021	Journal of Polymer Research	28	7		
558	Kousar F., Rasheed U., Khalil R.M.A., Niaz N.A., Hussain F., Imran M., Shakoor U., Algadi H., Ashiq N.	First principles investigation of oxygen vacancies filaments in polymorphic Titania and their role in memristor's applications	2021	Chaos, Solitons and Fractals	148			

559	Song Y.-Q., Waqas H., Khan S.A., Khan S.U., Khan M.I., Chu Y.-M., Qayyum S.	Nonlinear thermally radiative heat transport for brinkman type micropolar nano-material over an inclined surface with motile microorganisms and exponential heat source	2021	International Communications in Heat and Mass Transfer	126			
560	Safdar M., Naqvi S.A., Anjum F., Pasha I., Shahid M., Waliullah, Jaskani M.J., Khan I.A., Aadil R.M.	Microbial biofilm inhibition, antioxidants, and chemical fingerprints of Afghani pomegranate peel extract documented by gas chromatographyâ€“mass spectrometry and Fourier transformation infrared	2021	Journal of Food Processing and Preservation	45	7		
561	Ilyas M., Arif M., Akhtar K., Riaz M., Wang H.	Diverse feedstock's biochars as supplementary K fertilizer improves maize productivity, soil organic C and KUE under semiarid climate	2021	Soil and Tillage Research	211			
562	Ikram A., Nadeem M., Imran M.	Impact of vitamin A supplementation on composition, lipolysis, stability, and sensory of refrigerated stored Cheddar cheese	2021	Journal of Food Processing and Preservation	45	7		
563	Khera E.A., Ullah H., Imran M., Khalil R.M.A., Hussain F., Algadi H.	Theoretical Investigation of CsBX ₃ (B = Pb, Sn; X = I, Br, Cl) Using Tranâ€“Blaha Modified Beckeâ€“Johnson Approximation for Flexible Photoresponsive Memristors	2021	Advanced Theory and Simulations	4	7		

564	Hussain F., Subia G.S., Nazeer M., Ghafar M.M., Ali Z., Hussain A.	Simultaneous effects of Brownian motion and thermophoretic force on Eyring-Powell fluid through porous geometry	2021	Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences	76	7	569	580
565	Akram A.M., Chaudhary A., Kausar H., Althobaiti F., Abbas A.S., Hussain Z., Fatima N., Zafar E., Asif W., Afzal U., Yousaf Z., Zafar A., Harakeh S.M., Qamer S.	Analysis of RAS gene mutations in cytogenetically normal de novo acute myeloid leukemia patients reveals some novel alterations	2021	Saudi Journal of Biological Sciences	28	7	3735	3740
566	Zaib-Un-Nisa, Sultana S., Al-Ghanim K.A., Ghazla, Khan Q.F., Al-Misned F., Atique U., Ahmed Z., Mahboob S.	Comparative assessment of heavy metal bioaccumulation in skeletal muscles of softshell and hard-shell freshwater turtles	2021	Journal of King Saud University - Science	33	5		
567	Abbas G., Shah S., Chand U.R., Haris M.	Prevalence, incidence and mortality rates of cancer in Pakistan in 2020	2021	Bulletin du Cancer	108	45481	779	

568	Rebai B., Bouhadra A., Bousahla A.A., Meradjah M., Bourada F., Tounsi A., Tounsi A., Hussain M.	Thermoelastic response of functionally graded sandwich plates using a simple integral HSDT	2021	Archive of Applied Mechanics	91	7	3403	3420
569	Waqas H., Khan S.A., Alghamdi M., Alqarni M.S., Muhammad T.	Numerical simulation for bio-convection flow of magnetized non-Newtonian nanofluid due to stretching cylinder/plate with swimming motile microorganisms	2021	European Physical Journal: Special Topics	230	5	1239	1256
570	Noman M., Ahmed T., Shahid M., Niazi M.B.K., Qasim M., Kouadri F., Abdulmajeed A.M., Alghanem S.M., Ahmad N., Zafar M., Ali S.	Biogenic copper nanoparticles produced by using the Klebsiella pneumoniae strain NST2 curtailed salt stress effects in maize by modulating the cellular oxidative repair mechanisms	2021	Ecotoxicology and Environmental Safety	217			
571	Alam T.M., Shaukat K., Hameed I.A., Khan W.A., Sarwar M.U., Iqbal F., Luo S.	A novel framework for prognostic factors identification of malignant mesothelioma through association rule mining	2021	Biomedical Signal Processing and Control	68			
572	Hussain A., Noman A., Arif M., Farooq S., Khan M.I., Cheng P., Qari S.H., Anwar M., Hashem M., Ashraf M.F., Alamri S., Adnan M., Khalofah A., Al-zoubi O.M., Ansari M.J., Khan K.A., Sun Y.	A basic helix-loop-helix transcription factor CabHLH113 positively regulate pepper immunity against Ralstonia solanacearum	2021	Microbial Pathogenesis	156			

573	Azhar O., Jahan Z., Sher F., Niazi M.B.K., Kakar S.J., Shahid M.	Cellulose acetate-polyvinyl alcohol blend hemodialysis membranes integrated with dialysis performance and high biocompatibility	2021	Materials Science and Engineering C	126			
574	Singh V., Kumar K., Purohit D., Verma R., Pandey P., Bhatia S., Malik V., Mittal V., Rahman M.H., Albadrani G.M., Arafah M.W., El-Demerdash F.M., Akhtar M.F., Saleem A., Kamel M., Najda A., Abdel-Daim M.M., Kaushik D.	Exploration of therapeutic applicability and different signaling mechanism of various phytopharmacological agents for treatment of breast cancer	2021	Biomedicine and Pharmacotherapy	139			
575	Chaudhary A., Akram A.M., Aihetasham A., Hussain Z., Abbas A.S., Rehman R.A., Ahmad Q.-U.-A., Tahira A., Saleem A., Qamer S., Alghamdi Y., Mahmoud S.F., Sayed S.	Punica granatum waste to ethanol valorisation employing optimized levels of saccharification and fermentation	2021	Saudi Journal of Biological Sciences	28	7	3710	3719
576	Arooj M., Imran S., Inam-ur-Raheem M., Rajoka M.S.R., Sameen A., Siddique R., Sahar A., Tariq S., Riaz A., Hussain	Lotus seeds (Nelumbinis semen) as an emerging therapeutic seed: A comprehensive review	2021	Food Science and Nutrition	9	7	3971	3987

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577	Shah S.A.R., Naqvi S.A.A., Nasreen S., Abbas N.	Associating drivers of economic development with environmental degradation: Fresh evidence from Western Asia and North African region	2021	Ecological Indicators	126			
578	Waqas H., Imran M., Bhatti M.M.	Bioconvection aspects in non-Newtonian three-dimensional Carreau nanofluid flow with Cattaneo–Christov model and activation energy	2021	European Physical Journal: Special Topics	230	5	1317	1330
579	Al-Amer R.M., Barakat F., Aljalham G.H., AlQahtani H.R., Laref A., Muhammad Alay-e-Abbas S., Mahmood Q., Laref S., Booq Z.I., Wu X.	Electronic and optical characteristics of 5d-transition metal doped 2D-NbSe2 monolayer for nanoelectronic device applications: An ab-initio-analysis	2021	Materials Science and Engineering: B	269			
580	Chauhdary Z., Rehman K., Akash M.S.H.	The composite alliance of FTO locus with obesity-related genetic variants	2021	Clinical and Experimental Pharmacology and Physiology	48	7	954	965

581	Ali H.T., Jacob J., Zaman H., Mahmood K., Yusuf M., Mehboob K., Ikram S., Ali A., Amin N., Javaid K.	Successful growth of Zinc Nitride thin films by vacuum tube furnace using nitrogen as source gas	2021	Ceramics International	47	13	18964	18968
582	Aslam A., Rehman A.U., Amin N., Ajaz un Nabi M., Abdullah Q.U.A., Morley N.A., Arshad M.I., Ali H.T., Yusuf M., Latif Z., Mehmood K.	Lanthanum doped $Zn_{0.5}Co_{0.5}La_xFe_{2-x}O_4$ spinel ferrites synthesized via co-precipitation route to evaluate structural, vibrational, electrical, optical, dielectric, and thermoelectric properties	2021	Journal of Physics and Chemistry of Solids	154			
583	Mohammed S.S., Alansari M., Azam A., Kanwal S.	Fixed points of $(\tilde{I}^*, F)$ -weak contractions on metric-like spaces with applications to integral equations on time scales	2021	Boletin de la Sociedad Matematica Mexicana	27	2		
584	Rasool B., ur-Rahman M., Adnan Ramzani P.M., Zubair M., Khan M.A., Lewińska K., Turan V., Karczewska A., Khan S.A., Farhad M., Tauqeer H.M., Iqbal M.	Impacts of oxalic acid-activated phosphate rock and root-induced changes on Pb bioavailability in the rhizosphere and its distribution in mung bean plant	2021	Environmental Pollution	280			

585	Usman M., Jahanger A.	Heterogeneous effects of remittances and institutional quality in reducing environmental deficit in the presence of EKC hypothesis: A global study with the application of panel quantile regression	2021	Environmental Science and Pollution Research	28	28	37292	37310
586	Jafri M.A.H., Liu H., Usman A., Khan Q.R.	Re-evaluating the asymmetric conventional energy and renewable energy consumption-economic growth nexus for Pakistan	2021	Environmental Science and Pollution Research	28	28	37435	37447
587	Ahmed U., Ahmed R., Masoud M.S., Tariq M., Ashfaq U.A., Augustine R., Hasan A.	Stem cells based in vitro models: Trends and prospects in biomaterials cytotoxicity studies	2021	Biomedical Materials (Bristol)	16	4		
588	Mahmood M., Javaid A., Shahid F., Ashfaq U.A.	Rational design of multimeric based subunit vaccine against Mycoplasma pneumonia: Subtractive proteomics with immunoinformatics framework	2021	Infection, Genetics and Evolution	91			
589	Raza K., Wang G., Naqvi S.A.A., ul Hassan R.H.	Efficacy of feed improvement in livestock farming to offset climate variations in Punjab, Pakistan: silage as an example	2021	Environmental Science and Pollution Research	28	28	37279	37291
590	Askari S.H., Ashraf M.A., Ali S., Rizwan M., Rasheed R.	Menadione sodium bisulfite alleviated chromium effects on wheat by regulating oxidative defense, chromium speciation, and ion homeostasis	2021	Environmental Science and Pollution Research	28	27	36205	36225

591	Sajid M.M., Khan S.B., Javed Y., Amin N., Zhang Z., Shad N.A., Zhai H.	Bismuth vanadate/MXene (BiVO4/Ti3C2) heterojunction composite: enhanced interfacial control charge transfer for highly efficient visible light photocatalytic activity	2021	Environmental Science and Pollution Research	28	27	35911	35923
592	Sajid M.M., Zhai H., Shad N.A., Shafique M., Afzal A.M., Javed Y., Khan S.B., Ikram M., Amin N., Zhang Z.	Photocatalytic performance of ferric vanadate (FeVO4) nanoparticles synthesized by hydrothermal method	2021	Materials Science in Semiconductor Processing	129			
593	Amna, Mahmood T., Khan U.N., Amin B., Javed M.T., Mehmood S., Farooq M.A., Sultan T., Munis M.F.H., Chaudhary H.J.	Characterization of bio-fabricated silver nanoparticles for distinct anti-fungal activity against sugarcane phytopathogens	2021	Microscopy Research and Technique	84	7	1522	1530
594	Chu Y.-M., Khan M.I., Waqas H., Farooq U., Khan S.U., Nazeer M.	Numerical simulation of squeezing flow Jeffrey nanofluid confined by two parallel disks with the help of chemical reaction: Effects of activation energy and microorganisms	2021	International Journal of Chemical Reactor Engineering	19	7	717	725
595	Laraib N., Manzoor M., Javid A., Jabeen F., Bukhari S.M., Ali W., Hussain A.	Mixotrophic cultivation of Chlorella vulgaris in sugarcane molasses preceding nitrogen starvation: Biomass productivity, lipid content, and fatty acid analyses	2021	Environmental Progress and Sustainable Energy	40	4		

596	Aslam A., Razzaq A., Naz S., Amin N., Arshad M.I., Nabi M.A.U., Nawaz A., Mahmood K., Bibi A., Iqbal F., Shakil M., Farooq Z., Iqbal M.Z., Haider S.S., Rehman A.	Impact of Lanthanum-Doping on the Physical and Electrical Properties of Cobalt Ferrites	2021	Journal of Superconductivity and Novel Magnetism	34	7	1855	1864
597	Ilyas H.N., Zia K.M., Rehman S., Ilyas R., Sultana S.	Utilization of Shellfish Industrial Waste for Isolation, Purification, and Characterizations of Chitin From Crustacean's Sources in Pakistan	2021	Journal of Polymers and the Environment	29	7	2337	2348
598	Saeed M., Haq A.U., Muneer M., Usman M., Naqvi S.A.R., Adeel M., Nisar A.	Helianthus annuus assisted green synthesis of Co ₃ O ₄ and Ag-Co ₃ O ₄ and evaluation of their catalytic activities toward photodegradation of crystal violet dye	2021	Environmental Progress and Sustainable Energy	40	4		
599	Abid M., Mei S., Nazir H.Z., Riaz M., Hussain S., Abbas Z.	A mixed cumulative sum homogeneously weighted moving average control chart for monitoring process mean	2021	Quality and Reliability Engineering International	37	5	1758	1771

600	Mahmood A., Zulfiqar S., Ali S., Ammara U., Mahmood K., Farrukh M.A., Saeed Z., Ibrahim M.	Novel Fe ₂ O ₃ -CuO-MoO ₃ Magnetic Nanocomposite for Photocatalysis of Methylene Blue	2021	Journal of Superconductivity and Novel Magnetism	34	7	1791	1799
601	Ramzan M., Arshad M.I., Mahmood K., Amin N., Khan M.I., Iqbal F., Ajaz-un-Nabi M.	Investigation of Structural and Optical Properties of Pr ³⁺ -Substituted M-Type Ba ²⁺ /Ni Nano-Ferrites	2021	Journal of Superconductivity and Novel Magnetism	34	7	1759	1764
602	Arshad M.I., Nadeem S., Amin N., Mahmood K., Ramzan M., Arshad S., Bibi A., Ajaz-un-Nabi M.	Tailoring the Structural and Electrical Properties of Ba ²⁺ /Zn ²⁺ /Co M-Type Hexaferrites by Lanthanum Substitution for High-Resistivity Applications	2021	Journal of Superconductivity and Novel Magnetism	34	7	1807	1811
603	Iftikhar A., Jamil Y., Nazeer N., Tahir M.S., Amin N.	Optical Emission Spectroscopy of Nickel-Substituted Cobalt ²⁺ /Zinc Ferrite	2021	Journal of Superconductivity and Novel Magnetism	34	7	1849	1854

604	Ikram S., Ashraf F., Alzaid M., Mahmood K., Amin N., Haider S.A.	Role of Nature of Rare Earth Ion Dopants on Structural, Spectral, and Magnetic Properties in Spinel Ferrites	2021	Journal of Superconductivity and Novel Magnetism	34	7	1745	1751
605	Ikram S., Jacob J., Mehboob K., Mahmood K., Amin N., Arshad M.I., Ajaz un Nabi M.	Role of Rare Earth Metal Ions Doping on Structural, Electrical, Magnetic, and Dielectric Behavior of Spinel Ferrites: a Comparative Study	2021	Journal of Superconductivity and Novel Magnetism	34	7	1833	1842
606	Ikram S., Jacob J., Mehboob K., Mahmood K., Nawaz M.S., Amin N.	Relationship of Various Structural Parameters with Magnetic Behavior of Stoichiometric Tb ³⁺ and Dy ³⁺ Co-substituted NiFe ₂ O ₄ Nanostructures	2021	Journal of Superconductivity and Novel Magnetism	34	7	1753	1758
607	Ikram S., Jacob J., Mehboob K., Mahmood K., Amin N., Akhtar N.	Tailoring of Structural and Magnetic Properties of Sputter-Deposited Terfenol-D Thin Films by Optimizing the Substrate Temperature	2021	Journal of Superconductivity and Novel Magnetism	34	7	1843	1848
608	Nabi M.A.U., Moin M., Hasan M.S., Arshad M.I., Bibi A., Amin N., Mahmood K., Ali S.S.	Study of Electrical Transport Properties of Cadmium-Doped Zn–Mn Soft Ferrites by Co-precipitation Method	2021	Journal of Superconductivity and Novel Magnetism	34	7	1813	1822
609	Waqas H., Imran M., Muhammad T., Sait S.M., Ellahi R.	Numerical investigation on bioconvection flow of Oldroyd-B nanofluid with nonlinear thermal radiation and motile microorganisms over rotating disk	2021	Journal of Thermal Analysis and Calorimetry	145	2	523	539

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615	Sertse S.F., Khan N.A., Shah A.A., Liu Y., Naqvi S.A.A.	Farm households' perceptions and adaptation strategies to climate change risks and their determinants: Evidence from Raya Azebo district, Ethiopia	2021	International Journal of Disaster Risk Reduction	60			
616	Babur E., Kara O., Fathi R.A., Susam Y.E., Riaz M., Arif M., Akhtar K.	Wattle fencing improved soil aggregate stability, organic carbon stocks and biochemical quality by restoring highly eroded mountain region soil	2021	Journal of Environmental Management	288			
617	Yaqoob M.Z., Ghaffar A., Alkanhal M.A.S., Naz M.Y., Alqahtani A.H., Khan Y.	Tunable surface waves supported by graphene-covered left-handed material structures	2021	Optics Communications	489			
618	Chu Y.-M., Waqas H., Hussain S., Yasmein S., Khan S.U., Khan M.I., Kadry S.	Joule heating, activation energy and modified diffusion analysis for 3D slip flow of tangent hyperbolic nanofluid with gyrotactic microorganisms	2021	Modern Physics Letters B	35	16		
619	Resheed U., Alsuwian T., Imran M., Algadi H., Khera E.A., Khalil R.M.A., Mahata C., Hussain F.	Density functional theory insight into metal ions and vacancies for improved performance in storage devices	2021	International Journal of Energy Research	45	7	10882	10894

620	Hussain S., Chatha S.A.S., Hussain A.I., Hussain R., Yasir Mehboob M., Mansha A., Shahzad N., Ayub K.	In silico designing of mg12o12nanoclusters with a late transition metal for no2adsorption: An efficient approach toward the development of no2sensing materials	2021	ACS Omega	6	22	14191	14199
621	Irfan A., Ullah S., Anum A., Jabeen N., Zahoor A.F., Kanwal H., Kotwica-Mojzych K., Mojzych M.	Synthetic transformations and medicinal significance of 1,2,3-thiadiazoles derivatives: An update	2021	Applied Sciences (Switzerland)	11	12		
622	Irfan A., Ahmad S., Hussain S., Batool F., Riaz H., Zafar R., Kotwica-Mojzych K., Mojzych M.	Recent updates on the synthesis of bioactive quinoxaline-containing sulfonamides	2021	Applied Sciences (Switzerland)	11	12		
623	Amran A.H., Zaidi N.S., Syafiuddin A., Zhan L.Z., Bahrodin M.B., Mehmood M.A., Boopathy R.	Potential of carica papaya seed-derived bio-coagulant to remove turbidity from polluted water assessed through experimental and modeling-based study	2021	Applied Sciences (Switzerland)	11	12		
624	Tahir M., Ahsanullah M., Mohsin S., Abid M.	On Finite 3-Component Mixture of Rayleigh Distributions: A Classical Look	2021	Journal of Statistical Theory and Applications	20	2	204	218

625	Yousaf A., Khalid N., Aqeel M., Noman A., Naeem N., Sarfraz W., Ejaz U., Qaiser Z., Khalid A.	Nitrogen Dynamics in Wetland Systems and Its Impact on Biodiversity	2021	Nitrogen (Switzerland)	2	2	196	217
626	Shahzad Y., Ibrar N., Hussain T., Yousaf A.M., Khan I.U., Rizvi S.A.A.	Relevancy of Nizatidine's Release from Floating Tablets with Viscosity of Various Cellulose Ethers	2021	Sci	3	2		
627	Mazhar M.W., Ali Q., Ishtiaq M., Ghani A., Maqbool M., Hussain T., Mushtaq W.	Zinc-aspartate-mediated drought amelioration in maize promises better growth and agronomic parameters than zinc sulfate and l-aspartate	2021	Sabrao Journal of Breeding and Genetics	53	2	290	310
628	Batool R., Rasul A., Hussain G., Shah M.A., Nageen B., Sarfraz I., Zahoor M.K., Riaz A., Ajaz A., Adem Åž.	Furanodiene: A novel, potent, and multitarget cancer-fighting terpenoid	2021	Current Pharmaceutical Design	27	22	2628	2634
629	Noor F., Noor A., Ishaq A.R., Farzeen I., Saleem M.H., Ghaffar K., Aslam M.F., Aslam S., Chen J.-T.	Recent advances in diagnostic and therapeutic approaches for breast can-cer: A comprehensive review	2021	Current Pharmaceutical Design	27	20	2344	2365

630	Hassan S., Ahmad M.N., Shahzadi P., Khan M.N., Anjum M.N., Saif M.J.	Synthesis and applications of polyacrylate based-water white clear polymeric material fortified with carbon nano-tubes for durable, protective and corrosion resistance coatings used in applied automobile industry	2021	Journal of the Chemical Society of Pakistan	43	3	289	299
631	Shafiullah M., Altaf J., Qureshi N.A., Awan S.A., Samiullah K., Rasool B., Awan F.S., Khan A.I.	Some morphometric records on sinanodonta woodiana and lamellidens marginalis (Mollusca: Bivalvia) from central reaches of indus river, pakistan	2021	Pakistan Journal of Agricultural Sciences	58	3	967	973
632	Chu Y.-M., Shafiq M.K., Imran M., Siddiqui M.K., Siddiqui H.M.A., Baby S., Cancan M.	The Sharp Bounds of Zagreb Indices on Connected Graphs	2021	Journal of Mathematical Inequalities	15	2	477	489
633	Awan M.U., Talib S., Noor M.A., Noor K.I., Chu Y.-M.	On Post Quantum Integral Inequalities	2021	Journal of Mathematical Inequalities	15	2	629	654
634	Hussain R., Ehtisham-Ul-haque S., Khan I., Jabeen G., Siddique A.B., Ghaffar A., Abbas R.Z., Qudratullah, Ishaq H.M., Javed M.T., Tariq N., Ghorri M.T., Qayyum A., Abbas A., Jalees M.M., Wareth G.	Clinico-hematological, patho-anatomical and molecular based investigation of blackleg disease in Cholistani cattle	2021	Pakistan Journal of Agricultural Sciences	58	3	1017	1025

635	Taj M., Khadimallah M.A., Hussain M., Mahmood S., Safeer M., Rashid Y., Ahmad M., Naeem M.N., Asghar S., Ponnore J., Qahtani A.A., Mahmoud S.R., Alwabli A.S., Tounsi A.	Instability analysis of microfilaments with and without surface effects using Euler theory	2021	Advances in Nano Research	10	6	495	502
636	Li X., Su Y., Ahmed T., Ren H., Javed M.R., Yao Y., An Q., Yan J., Li B.	Effects of different organic fertilizers on improving soil from newly reclaimed land to crop soil	2021	Agriculture (Switzerland)	11	6		
637	Rehman A., Ahmad S., Shahid F., Albutti A., Alwashmi A.S.S., Aljasir M.A., Alhumeed N., Qasim M., Ashfaq U.A., Tahir Ul Qamar M.	Integrated core proteomics, subtractive proteomics, and immunoinformatics investigation to unveil a potential multi-epitope vaccine against schistosomiasis	2021	Vaccines	9	6		
638	Anjum F.R., Anam S., Abbas G., Mahmood M.S., Rahman S.U., Goraya M.U., Abdullah R.M., Luqman M., Ali A., Akram M.K., Chaudhry T.H.	Type i IFNs: A Blessing in Disguise or Partner in Crime in MERS-CoV-, SARS-CoV-, and SARS-CoV-2-Induced Pathology and Potential Use of Type i IFNs in Synergism with IFN- γ as a Novel Antiviral Approach against COVID-19	2021	Viral Immunology	34	5	321	329

639	Yaqoob M.Z., Ghaffar A., Alkanhal M.A.S., ur Rehman S., Alqahtani A.H., Khan Y.	Hybrid surface waves in chiral loaded resistive metasurfaces	2021	European Physical Journal Plus	136	6		
640	Jahangeer M., Fatima R., Ashiq M., Basharat A., Qamar S.A., Bilal M., Iqbal H.M.N.	Therapeutic and biomedical potentialities of terpenoids-A review	2021	Journal of Pure and Applied Microbiology	15	2	471	483
641	Thind S., Hussain I., Rasheed R., Ashraf M.A., Perveen A., Ditta A., Hussain S., Khalil N., Ullah Z., Mahmood Q.	Alleviation of cadmium stress by silicon nanoparticles during different phenological stages of Ujala wheat variety	2021	Arabian Journal of Geosciences	14	11		
642	Muddassir Y., Tahir S., Ali A., Mahmood K., Ur Rehman U., Ashfaq A., Manzoor A., Ikram S.	Morphology-dependent thermoelectric properties of mixed phases of copper sulfide (Cu _{2-x} S) nanostructures synthesized by hydrothermal method	2021	Applied Physics A: Materials Science and Processing	127	6		
643	Yaseen W., Iqbal M., Hussain I., Khaliq S., Ashraf M.A.	Exogenous Menadione Sodium Bisulphite Increases Pigments, Osmoprotectants and Alters Metabolism to Attenuate Cadmium Toxicity on Growth and Yield in Summer Squash (Cucurbita pepo)	2021	International Journal of Agriculture and Biology	25	6	1321	1330

644	Abdellatif F., Akram M., Begaa S., Messaoudi M., Benarfa A., Egbuna C., Ouakouak H., Hassani A., Sawicka B., Elbossaty W.F.M., Simal-Gandara J.	Minerals, essential oils, and biological properties of melissa officinalis l.	2021	Plants	10	6		
645	Rashid S., Sultana S., Jarad F., Jafari H., Hamed Y.S.	More efficient estimates via $\hat{\alpha}, \bullet$ -discrete fractional calculus theory and applications	2021	Chaos, Solitons and Fractals	147			
646	Rehman F., Khan I.U., Khalid S.H., Asghar S., Irfan M., Khalid I., Rasul A., Mahmood H., Yousaf A.M., Shahzad Y., Mudassar M., Mohsin N.U.A.	Optimization, in vitro release and toxicity evaluation of novel pH sensitive itaconic acid-g-poly(acrylamide)/sterculia gum semi-interpenetrating networks	2021	DARU, Journal of Pharmaceutical Sciences	29	1	171	184
647	Arshad R., Gulshad L., Haq I.-U., Farooq M.A., Al-Farga A., Siddique R., Manzoor M.F., Karrar E.	Nanotechnology: A novel tool to enhance the bioavailability of micronutrients	2021	Food Science and Nutrition	9	6	3354	3361
648	Siddique R., Zahoor A.F., Ahmad H., Zahid F.M., Karrar E.	Impact of different cooking methods on polycyclic aromatic hydrocarbons in rabbit meat	2021	Food Science and Nutrition	9	6	3219	3227

649	Hanif M., Shah S., Rasool N., Abbas G., Saadullah M., Khan S.M., Ahmed M.M., Abbas N., Ashfaq M., Iqbal O.	Sodium alginate and pectin estimation in raft forming pharmaceuticals by high performance liquid chromatography method	2021	Acta Chromatographica	33	2	127	133
650	Hussain M., Saeed F., Niaz B., Afzaal M., Ikram A., Hussain S., Mohamed A.A., Alamri M.S., Anjum F.M.	Biochemical and nutritional profile of maize bran-enriched flour in relation to its end-use quality	2021	Food Science and Nutrition	9	6	3336	3345
651	Rehman A., Ahmad A., Hameed A., Kiran S., Farooq T.	Green dyeing of modified cotton fabric with Acalypha wilkesiana leave extracts	2021	Sustainable Chemistry and Pharmacy	21			
652	Haider I., Akhtar M., Noman A., Qasim M.	Population trends of some insect pests of rice crop on light trap and its relation to abiotic factors in punjab pakistan	2021	Pakistan Journal of Zoology	53	3	1015	1023
653	Dustgeer M.R., Asma S.T., Jilani A., Raza K., Hussain S.Z., Shakoor M.B., Iqbal J., Abdel-wahab M.S., Darwesh R.	Synthesis and characterization of a novel single-phase sputtered Cu ₂ O thin films: Structural, antibacterial activity and photocatalytic degradation of methylene blue	2021	Inorganic Chemistry Communications	128			

654	Usman A., Apergis N., Anwar S.	Examining the Asymmetric Effects of Third-Country Exchange Rate Volatility on Pakistan-China Commodity Trade	2021	Journal of International Commerce, Economics and Policy	12	2		
655	Ali M., Anjum N., Ain Q.T., He J.-H.	Homotopy Perturbation Method for the Attachment Oscillator Arising in Nanotechnology	2021	Fibers and Polymers	22	6	1601	1606
656	Arshad M., Nisar S., Gul I., Nawaz U., Irum S., Ahmad S., Sadat H., Mian I.A., Ali S., Rizwan M., Alsahli A.A., Alyemeni M.N.	Multi-element uptake and growth responses of Rice (<i>Oryza sativa</i> L.) to TiO ₂ nanoparticles applied in different textured soils	2021	Ecotoxicology and Environmental Safety	215			
657	Abou El-Ela A.S., Dessoky E.S., Masry S., Arshad A., Munawar A., Qamer S., Abdelkhalek A., Behiry S.I., Kordy A.	Plasticity in life features, parasitism and super-parasitism behavior of <i>Bracon hebetor</i> , an important natural enemy of <i>Galleria mellonella</i> and other lepidopteran host species	2021	Saudi Journal of Biological Sciences	28	6	3351	3361
658	Saleem I., Maqsood M.A., Rehman M.Z.U., Aziz T., Bhatti I.A., Ali S.	Potassium ferrite nanoparticles on DAP to formulate slow release fertilizer with auxiliary nutrients	2021	Ecotoxicology and Environmental Safety	215			

659	Hussain A., Rizwan M., Ali S., Rehman M.Z.U., Qayyum M.F., Nawaz R., Ahmad A., Asrar M., Ahmad S.R., Alsahli A.A., Alyemeni M.N.	Combined use of different nanoparticles effectively decreased cadmium (Cd) concentration in grains of wheat grown in a field contaminated with Cd	2021	Ecotoxicology and Environmental Safety	215			
660	Rizwan M., Zia K.M., Javaid M.A., Zuber M., Aftab W., Rehman S.	Synthesis and molecular characterization of chitosan/alginate blends based polyurethanes biocomposites	2021	International Journal of Biological Macromolecules	180		324	331
661	Mahmood Q.K., Jafree S.R., Sohail M.M., Akram M.B.	A Cross-Sectional Survey of Pakistani Muslims Coping with Health Anxiety through Religiosity during the COVID-19 Pandemic	2021	Journal of Religion and Health	60	3	1462	1474
662	Hussain S., Bhatti S.H., Ahmad T., Shehzad M.A.	Parameter estimation of the Pareto distribution using least squares approaches blended with different rank methods and its applications in modeling natural catastrophes	2021	Natural Hazards	107	2	1693	1708
663	Khera E.A., Ullah H., Imran M., Algadi H., Hussain F., Khalil R.M.A.	THE FIRST PRINCIPLE STUDY of COMPARISON of DIVALENT and TRIVALENT IMPURITY in RRAM DEVICES USING GGA+U	2021	Surface Review and Letters	28	6		

664	Shad N.A., Sajid M.M., Afzal A.M., Amin N., Javed Y., Hassan S., Imran Z., Razaq A., Yousaf M.I., Munawar A., Sharma S.K.	Facile synthesis of Bi ₂ WO ₆ /rGO nanocomposites for photocatalytic and solar cell applications	2021	Ceramics International	47	11	16101	16110
665	Ahmad M.S., Klemeš J.J., Alhumade H., Elkamel A., Mahmood A., Shen B., Ibrahim M., Mukhtar A., Saqib S., Asif S., Bokhari A.	Thermo-kinetic study to elucidate the bioenergy potential of Maple Leaf Waste (MLW) by pyrolysis, TGA and kinetic modelling	2021	Fuel	293			
666	Khalid K., Hussain B., Ali S.	Evaluating eco-efficiency in consumption and production through sustainable utilization of resources: A panel analysis of APAC by population	2021	Renewable Energy	170		1096	1106
667	Sohail M.T., Xiuyuan Y., Usman A., Majeed M.T., Ullah S.	Renewable energy and non-renewable energy consumption: assessing the asymmetric role of monetary policy uncertainty in energy consumption	2021	Environmental Science and Pollution Research	28	24	31575	31584

668	Waqas M., Pervaiz W., Zia K.M., Iqbal S.Z.	Assessment of aflatoxin B1 in animal feed and aflatoxin M1 in raw milk samples of different species of milking animals from Punjab, Pakistan	2021	Journal of Food Safety	41	3		
669	Imran A., Quispe C., Zeeshan A., Imran M., Nadeem M., Gilani S.A., Gondal T.A., Tufail T., Aslam F., Rodrigues C.F., Salehi B., Sharifi-Rad J., Martorell M., Cruz- Martins N.	Development and antioxidant characterization of Ginger-Mint drink prepared through different extraction techniques	2021	Journal of Food Measurement and Characterization	15	3	2576	2590
670	Rasul M.N., Mehmood M., Hussain A., Manzoor A., Khan M.A., Iqbal F.	Ab-initio investigation of structural, electronic, magnetic and thermodynamic properties of ErX (X = N, P, As and Sb) compounds	2021	Computational Condensed Matter	27			
671	Saleem U., Akhtar R., Anwar F., Shah M.A., Chaudary Z., Ayaz M., Ahmad B.	Neuroprotective potential of Malva neglecta is mediated via down-regulation of cholinesterase and modulation of oxidative stress markers	2021	Metabolic Brain Disease	36	5	889	900

672	Sohail M.T., Ullah S., Majeed M.T., Usman A.	Pakistan management of green transportation and environmental pollution: a nonlinear ARDL analysis	2021	Environmental Science and Pollution Research	28	23	29046	29055
673	Farooq U., Waqas H., Khan M.I., Khan S.U., Chu Y.-M., Kadry S.	Thermally radioactive bioconvection flow of Carreau nanofluid with modified Cattaneo-Christov expressions and exponential space-based heat source	2021	Alexandria Engineering Journal	60	3	3073	3086
674	Siddique K., Shahid M., Shahzad T., Mahmood F., Nadeem H., Saif ur Rehman M., Hussain S., Sadak O., Gunasekaran S., Kamal T., Ahmad I.	Comparative efficacy of biogenic zinc oxide nanoparticles synthesized by Pseudochrobactrum sp. C5 and chemically synthesized zinc oxide nanoparticles for catalytic degradation of dyes and wastewater treatment	2021	Environmental Science and Pollution Research	28	22	28307	28318
675	Mubarik M.S., Khan S.H., Sajjad M., Raza A., Hafeez M.B., Yasmeen T., Rizwan M., Ali S., Arif M.S.	A manipulative interplay between positive and negative regulators of phytohormones: A way forward for improving drought tolerance in plants	2021	Physiologia Plantarum	172	2	1269	1290
676	Manzoor F., Nisa M.N., Hussain H.A., Ahmad N., Umbreen H.	Effect of chestnut hydrolysable tannin on weight management and ovarian histopathology of healthy female rats	2021	Journal of Animal and Plant Sciences	31	3	831	840
677	Riaz M., Kamran M., Rizwan M., Ali S., Parveen A., Malik Z.,	Cadmium uptake and translocation: selenium and silicon roles in Cd detoxification for the production of low Cd crops: a critical review	2021	Chemosphere	273			

	Wang X.							
678	Javed M.T., Tanwir K., Abbas S., Saleem M.H., Iqbal R., Chaudhary H.J.	Chromium retention potential of two contrasting Solanum lycopersicum Mill. cultivars as deciphered by altered pH dynamics, growth, and organic acid exudation under Cr stress	2021	Environmental Science and Pollution Research	28	22	27542	27554
679	Aqeel M., Khalid N., Tufail A., Ahmad R.Z., Akhter M.S., Luqman M., Javed M.T., Irshad M.K., Alamri S., Hashem M., Noman A.	Elucidating the distinct interactive impact of cadmium and nickel on growth, photosynthesis, metal-homeostasis, and yield responses of mung bean (<i>Vigna radiata</i> L.) varieties	2021	Environmental Science and Pollution Research	28	21	27376	27390
680	Zaheer J., Najam-Us-Saqib Q., Anwar T., Khan F.S., Akram M., Munir N., Rebezov M., Shariati M.A., Thiruvengadam M.	Phytochemical Profile of Rock Jasmine (<i>Androsace foliosa</i> Duby ex Decne) by Using HPLC and GC-MS Analyses	2021	Arabian Journal for Science and Engineering	46	6	5385	5392
681	Riaz M., Abid M., Shabbir A., Nazir H.Z., Abbas Z., Abbasi S.A.	A non-parametric double homogeneously weighted moving average control chart under sign statistic	2021	Quality and Reliability Engineering International	37	4	1544	1560

682	Amir S.B., Rasheed R., Ashraf M.A., Hussain I., Iqbal M.	Hydrogen sulfide mediates defense response in safflower by regulating secondary metabolism, oxidative defense, and elemental uptake under drought	2021	Physiologia Plantarum	172	2	795	808
683	Awan S.A., Khan I., Rizwan M., Zhang X., Brestic M., Khan A., El-Sheikh M.A., Alyemeni M.N., Ali S., Huang L.	Exogenous abscisic acid and jasmonic acid restrain polyethylene glycol-induced drought by improving the growth and antioxidative enzyme activities in pearl millet	2021	Physiologia Plantarum	172	2	809	819
684	Alam H., Khattak J.Z.K., Ksiksi T.S., Saleem M.H., Fahad S., Sohail H., Ali Q., Zamin M., El-Esawi M.A., Saud S., Jiang X., Alwahibi M.S., Alkahtani J.	Negative impact of long-term exposure of salinity and drought stress on native <i>Tetraena mandavillei</i> L.	2021	Physiologia Plantarum	172	2	1336	1351
685	Islam W., Noman A., Akutse K.S., Qasim M., Ali H., Haider I., Hashem M., Alamri S., al Zoubi O.M., Khan K.A.	Phyto-derivatives: an efficient eco-friendly way to manage <i>Trogoderma granarium</i> (Everts) (Coleoptera: Dermestidae)	2021	International Journal of Tropical Insect Science	41	2	915	926
686	Khan I., Awan S.A., Ikram R., Rizwan M., Akhtar N., Yasmin H., Sayyed R.Z., Ali S., Ilyas N.	Effects of 24-epibrassinolide on plant growth, antioxidants defense system, and endogenous hormones in two wheat varieties under drought stress	2021	Physiologia Plantarum	172	2	696	706

687	Jabeen M., Akram N.A., Ashraf M., Alyemeni M.N., Ahmad P.	Thiamin stimulates growth and secondary metabolites in turnip (<i>Brassica rapa</i> L.) leaf and root under drought stress	2021	Physiologia Plantarum	172	2	1399	1411
688	Kosar F., Akram N.A., Ashraf M., Ahmad A., Alyemeni M.N., Ahmad P.	Impact of exogenously applied trehalose on leaf biochemistry, achene yield and oil composition of sunflower under drought stress	2021	Physiologia Plantarum	172	2	317	333
689	Qayyum S., Khan M.I., Masood F., Chu Y.-M., Kadry S., Nazeer M.	Interpretation of entropy generation in Williamson fluid flow with nonlinear thermal radiation and first-order velocity slip	2021	Mathematical Methods in the Applied Sciences	44	9	7756	7765
690	Siddique M., Khan N.M., Saeed M., Ali S., Shah Z.	Green synthesis of cobalt oxide nanoparticles using <i>Citrus medica</i> leaves extract: Characterization and photo-catalytic activity	2021	Zeitschrift fur Physikalische Chemie	235	6	663	681
691	Akram N.A., Shafiq F., Ashraf M., Iqbal M., Ahmad P.	Advances in Salt Tolerance of Some Major Fiber Crops Through Classical and Advanced Biotechnological Tools: A Review	2021	Journal of Plant Growth Regulation	40	3	891	905

692	Abdelmalek Z., Khan S.U., Waqas H., Al-Khaled K., Tlili I.	A proposed unsteady bioconvection model for transient thin film flow of rate-type nanoparticles configured by rotating disk	2021	Journal of Thermal Analysis and Calorimetry	144	5	1639	1654
693	Misbah, Bhatti I.A., Zia K.M., Bhatti H.N., Shahid M.	Synthesis, biological efficiency evaluation and application of sodium alginate-based polyurethane dispersions using cycloaliphatic isocyanate, as antibacterial textile coating	2021	Journal of Industrial Textiles	50	10	1625	1642
694	Saleem U., Hira S., Anwar F., Shah M.A., Bashir S., Baty R.S., Badr R.H., Blundell R., Batiha G.E.-S., Ahmad B.	Pharmacological Screening of Viola odorata L. for Memory-Enhancing Effect via Modulation of Oxidative Stress and Inflammatory Biomarkers	2021	Frontiers in Pharmacology	12			
695	Tayyab Imtiaz M., Anwar F., Saleem U., Ahmad B., Hira S., Mehmood Y., Bashir M., Najam S., Ismail T.	Triazine Derivative as Putative Candidate for the Reduction of Hormone-Positive Breast Tumor: In Silico, Pharmacological, and Toxicological Approach	2021	Frontiers in Pharmacology	12			
696	Damani B., Fekrar A., Selim M.M., Benrahou K.H., Benachour A., Tounsi A., Adda Bedia E.A., Hussain M.	Effect of material composition on bending and dynamic properties of FG plates using quasi 3D HSDT	2021	Structural Engineering and Mechanics	78	4	439	453
697	Imran A., Hakim S., Tariq M., Nawaz M.S., Laraib I., Gulzar U., Hanif M.K.,	Diazotrophs for Lowering Nitrogen Pollution Crises: Looking Deep Into the Roots	2021	Frontiers in Microbiology	12			

	Siddique M.J., Hayat M., Fraz A., Ahmad M.							
698	Nangraj A.S., Khan A., Umbreen S., Sahar S., Arshad M., Younas S., Ahmad S., Ali S., Ali S.S., Ali L., Wei D.-Q.	Insights Into Mutations Induced Conformational Changes and Rearrangement of Fe ²⁺ Ion in pncA Gene of Mycobacterium tuberculosis to Decipher the Mechanism of Resistance to Pyrazinamide	2021	Frontiers in Molecular Biosciences	8			
699	Mahmood S., Afzal B., Perveen S., Wahid A., Azeem M., Iqbal N.	He-Ne Laser Seed Treatment Improves the Nutraceutical Metabolic Pool of Sunflowers and Provides Better Tolerance Against Water Deficit	2021	Frontiers in Plant Science	12			
700	Zia F., Nazli Z.-I.-H., Zia K.M., Aftab W., Tabasum S., Asrar M.	Synthesis and characterization of hydroxyethyl cellulose copolymer modified polyurethane bionanocomposites	2021	International Journal of Biological Macromolecules	179		345	352
701	Ikram S., Jacob J., Rehman U., Mahmood K., Ali A., Ashfaq A., Amin N., Mehboob K., Ali Y., Arshad M.I., Nabi M.A.U., Javaid K.,	Growth of ZnSnO nano structures for thermopower applications by thermal evaporation with and without oxygen precursor	2021	Ceramics International	47	10	13934	13938

	Hussain M.S., Tahir S.A.							
702	Manzoor N., Ahmed T., Noman M., Shahid M., Nazir M.M., Ali L., Alnusaire T.S., Li B., Schulin R., Wang G.	Iron oxide nanoparticles ameliorated the cadmium and salinity stresses in wheat plants, facilitating photosynthetic pigments and restricting cadmium uptake	2021	Science of the Total Environment	769			
703	Cui N., Cui J., Xu X., Aslam B., Bai L., Li D., Wu D., Ma Z., Sun J., Baloch Z.	Health Conditions, Lifestyle Factors and Depression in Adults in Qingdao, China: A Cross-Sectional Study	2021	Frontiers in Psychiatry	12			
704	Shahzadi I., Zahoor A.F., Rasul A., Mansha A., Ahmad S., Raza Z.	Synthesis, hemolytic studies, and in silico modeling of novel acefylline-1,2,4-triazole hybrids as potential anti-cancer agents against MCF-7 and A549	2021	ACS Omega	6	18	11943	11953
705	Anwar F., Saleem U., Rehman A.-U., Ahmad B., Froeyen M., Mirza M.U., Kee L.Y., Abdullah I., Ahmad S.	Toxicity Evaluation of the Naphthalen-2-yl 3,5-Dinitrobenzoate: A Drug Candidate for Alzheimer Disease	2021	Frontiers in Pharmacology	12			

706	Imran M., Ching D.L.C., Safdar R., Khan I., Nisar K.S.	The solutions of non-integer order Burgers' fluid flowing through a round channel with semi analytical technique	2021	Symmetry	11	8		
707	Khan M.U., Aslam M., Shahzad S.A., Khan Z.A., Khan N.A., Ali M., Naz S., Rahman J., Farooq U.	Design and synthesis of thiobarbituric acid analogues as potent urease inhibitors	2021	Journal of Molecular Structure	1231			
708	Saddique F.A., Aslam S., Ahmad M., Ashfaq U.A., Muddassar M., Sultan S., Taj S., Hussain M., Lee D.S., Zaki M.E.A.	Synthesis and α -glucosidase inhibition activity of 2-[3- (Benzoyl/4-bromobenzoyl)-4-hydroxy-1,1-dioxido-2h- benzo[e][1,2]thiazin-2-yl]-n-arylamides: An in silico and biochemical approach	2021	Molecules	26	10		
709	Bakht M.P., Salam Z., Bhatti A.R., Anjum W., Khalid S.A., Khan N.	Stateflow-based energy management strategy for hybrid energy system to mitigate load shedding	2021	Applied Sciences (Switzerland)	11	10		
710	Sharif H., Khadimallah M.A., Naeem M.N., Hussain M., Mahmoud S.R., Al-Basyouni K.S., Tounsi A.	The investigation of Magnetohydrodynamic nanofluid flow with Arrhenius energy activation	2021	Advances in Nano Research	10	5	437	448

711	Nazir H.Z., Abid M., Akhtar N., Riaz M., Qamar S.	An efficient mixed-memory-type control chart for normal and non-normal processes	2021	Scientia Iranica	28	3	1736	1749
712	Akhtar R., Zahoor A.F., Rasul A., Khan S.G., Ali K.G.	In-vitro cytotoxic evaluation of newly designed ciprofloxacin-oxadiazole hybrids against human liver tumor cell line (Huh7)	2021	Pakistan Journal of Pharmaceutical Sciences	34	3	1143	1148
713	Khadimallah M.A., Hussain M., Naeem M.N., Qazaq A., Alqahtani A., Tounsi A.	Vibration analysis of FG cylindrical shell: Evaluation of Ritz-polynomial mixed with ring terms	2021	Smart Structures and Systems	27	5	729	743
714	Ahmad A., ul Qamar M.T., Shoukat A., Aslam M.M., Tariq M., Hakimian M., Joyia F.A.	The effects of genotypes and media composition on callogenesis, regeneration and cell suspension culture of chamomile (<i>Matricaria chamomilla</i> L.)	2021	PeerJ	9			
715	Makhdoom E.U.H., Waseem S.S., Iqbal M., Abdullah U., Hussain G., Asif M., Budde B., HÃ¶hne W., Tinschert S., Saadi S.M., Yousaf H., Ali Z., Fatima A., Kaygusuz E., Khan A., Jameel M.,	Modifier genes in microcephaly: A report on wdr62, cep63, rad50 and pcnt variants exacerbating disease caused by biallelic mutations of aspm and cenpj	2021	Genes	12	5		

	Khan S., Tariq M., Anjum I., Altmüller J., Thiele H., Häfning S., Baig S.M., Nürnberg P., Hussain M.S.							
716	Parveen A., Ashraf M.A., Hussain I., Perveen S., Rasheed R., Mahmood Q., Hussain S., Ditta A., Hashem A., Al-Arjani A.-B.F., Alqarawi A.A., Allah E.F.A.	Promotion of growth and physiological characteristics in water-stressed triticum aestivum in relation to foliar-application of salicylic acid	2021	Water (Switzerland)	13	9		
717	Akbar A., Ashraf M.A., Rasheed R., Ali S., Rizwan M.	Menadione sodium bisulphite regulates physiological and biochemical responses to lessen salinity effects on wheat (Triticum aestivum L.)	2021	Physiology and Molecular Biology of Plants	27	5	1135	1152
718	Ahmad I., Jamal M.A., Iftikhar M., Ahmad A., Hussain S., Asghar H., Saeed M., Yousaf A.B., Karri R.R., Al-Kadhi N.S., Ouladsmene M., Ghfar A., Khan S.	Lanthanum-zinc binary oxide nanocomposite with promising heterogeneous catalysis performance for the active conversion of 4-nitrophenol into 4-aminophenol	2021	Coatings	11	5		
719	Riaz A., Akhter Z., Iqbal M., Riaz M.A.	Association analysis of STAT6 SNP with asthma in Pakistani population	2021	Pakistan Journal of Pharmaceutical	34	3	1019	1022

				Sciences				
720	Aslam A., Rasul S., Bahadar A., Hossain N., Saleem M., Hussain S., Rasool L., Manzoor H.	Effect of micronutrient and hormone on microalgae growth assessment for biofuel feedstock	2021	Sustainability (Switzerland)	13	9		
721	Kanwal U., Ibrahim M., Abbas F., Yamin M., Jabeen F., Shahzadi A., Farooque A.A., Imtiaz M., Ditta A., Ali S.	Phytoextraction of lead using a hedge plant [alternanthera bettzickiana (Regel) G. Nicholson]: Physiological and biochemical alterations through bioresource management	2021	Sustainability (Switzerland)	13	9		
722	Sharma V.K., Singh T.G., Garg N., Dhiman S., Gupta S., Rahman M.H., Najda A., Walasek-Janusz M., Kamel M., Albadrani G.M., Akhtar M.F., Saleem A., Altyar A.E., Abdel-Daim M.M.	Dysbiosis and alzheimerâ€™s disease: A role for chronic stress?	2021	Biomolecules	11	5		
723	Lewińska K., Duczmal-Czernikiewicz A., Karczewska A., Dradrach A., Iqbal M.	Arsenic forms in soils of various settings in the historical ore mining and processing site of radzimowice, western Sudetes	2021	Minerals	11	5		

724	Hameed M., Rasul A., Waqas M.K., Saadullah M., Aslam N., Abbas G., Latif S., Afzal H., Inam S., Shah P.A.	Formulation and evaluation of a clove oil-encapsulated nanofiber formulation for effective wound-healing	2021	Molecules	26	9		
725	Abbas H., Bukhari S.H., Ahmad J.	Spectroscopic analysis of NdMn2O5 by optical and transport mechanism	2021	Applied Physics A: Materials Science and Processing	127	5		
726	Sadaf S., Kamran M.S., Qasim M., Waqas M., Ammar M.	Numerical investigation of temperature span of magnetic refrigerator using geometric configuration of gadolinium based parallel plate regenerator	2021	Journal of Mechanical Science and Technology	35	5	2219	2227
727	Iqbal R., Hamid I., Janbaz K.H., Akhtar M.F., Saleem A., Sharif A., Peerzada S., Akhtar B., Sohail K., Ali S.	Argemone mexicana extract alleviates gastrointestinal disorders by stimulating muscarinic receptors and blocking voltage-gated L-type calcium channels	2021	Asian Pacific Journal of Tropical Biomedicine	11	5	214	221
728	Tahir ul Qamar M., Ahmad S., Fatima I., Ahmad F., Shahid F., Naz A., Abbasi S.W., Khan A., Mirza M.U., Ashfaq U.A.,	Designing multi-epitope vaccine against Staphylococcus aureus by employing subtractive proteomics, reverse vaccinology and immuno-informatics approaches	2021	Computers in Biology and Medicine	132			

	Chen L.-L.							
729	Nazeer M., Saleem S., Hussain F., Iftikhar S., Al-Qahtani A.	Mathematical modeling of bio-magnetic fluid bounded by ciliated walls of wavy channel incorporated with viscous dissipation: Discarding mucus from lungs and blood streams	2021	International Communications in Heat and Mass Transfer	124			
730	Hussain D., Khan A.A., Hassan S.N.U., Naqvi S.A.A., Jamil A.	A time series assessment of terrestrial water storage and its relationship with hydro-meteorological factors in Gilgit-Baltistan region using GRACE observation and GLDAS-Noah model	2021	SN Applied Sciences	3	5		
731	Faisal Manzoor M., Ahmed Z., Ahmad N., Karrar E., Rehman A., Muhammad Aadil R., Al-Farga A., Waheed Iqbal M., Rahaman A., Zeng X.-A.	Probing the combined impact of pulsed electric field and ultra-sonication on the quality of spinach juice	2021	Journal of Food Processing and Preservation	45	5		
732	Al-Mubaddel F.S., Farooq U., Al-Khaled K., Hussain S., Khan S.U., Aijaz M.O., Rahimi-Gorji M., Waqas H.	Double stratified analysis for bioconvection radiative flow of Sisko nanofluid with generalized heat/mass fluxes	2021	Physica Scripta	96	5		

733	Ali A., Hameed I., Ammar M., Mujahid R., Mirza S.	Enhanced rate capability for asymmetric supercapacitors by binder-free Zn-Ni-Co oxide nanoflakes on Ni foam	2021	Journal of Energy Storage	37			
734	Mumtaz S., Saleem M.H., Hameed M., Batool F., Parveen A., Amjad S.F., Mahmood A., Arfan M., Ahmed S., Yasmin H., Alsahli A.A., Alyemeni M.N.	Anatomical adaptations and ionic homeostasis in aquatic halophyte <i>Cyperus laevigatus</i> L. Under high salinities	2021	Saudi Journal of Biological Sciences	28	5	2655	2666
735	Nawaz A., Danish A., Ali S.W., Muhammad Shahbaz H., Khalifa I., Ahmed A., Irshad S., Ahmad S., Ahmed W.	Evaluation and storage stability of potato chips made from different varieties of potatoes cultivated in Pakistan	2021	Journal of Food Processing and Preservation	45	5		
736	Ahmed R., Afreen A., Tariq M., Zahid A.A., Masoud M.S., Ahmed M., Ali I., Akram Z., Hasan A.	Bone marrow mesenchymal stem cells preconditioned with nitric-oxide-releasing chitosan/PVA hydrogel accelerate diabetic wound healing in rabbits	2021	Biomedical Materials (Bristol)	16	3		

737	Farooq M.A., Murtaza M.A., Aadil R.M., Arshad R., Rahaman A., Siddique R., Hassan S., Akhtar H.M.S., Manzoor M.F., Karrar E., Ali A., Haq A.U.	Investigating the structural properties and in vitro digestion of rice flours	2021	Food Science and Nutrition	9	5	2668	2675
738	Ahmad N., Hussain A., Khan S., Korma S.A., Hussain G., Aadil R.M., Siddique R., Ali A., Shabbir U., Haq A.U., Manzoor M.F., Siddeeg A.	Impact of thermal extrusion and microwave vacuum drying on fatty acids profile during fish powder preparation	2021	Food Science and Nutrition	9	5	2743	2753
739	Jahan A., Iqbal M., Shafiq F., Malik A.	Root-zone addition of glutathione and putrescine synergistically regulate GSHâ€‘NO metabolism to alleviate Cr (VI) toxicity in rapeseed seedlings	2021	Environmental Technology and Innovation	22			
740	Islam M., Inamullah, Ahmad I., Akhtar N., Alam J., Razzaq A., Mohammad K., Mahmood T., Khan F.U., Muhammad Khan W., Ahmad I., Ullah I., Shafaqat N., Qamar S.	Medicinal plants resources of Western Himalayan Palas Valley, Indus Kohistan, Pakistan: Their uses and degrees of risk of extinction	2021	Saudi Journal of Biological Sciences	28	5	3076	3093

741	Babar M., Saif-ur-Rehman, Rasul S., Aslam K., Abbas R., Athar H.-U.-R., Manzoor I., Kashif Hanif M., Naqqash T.	Mining of halo-tolerant plant growth promoting rhizobacteria and their impact on wheat (<i>Triticum aestivum</i> L.) under saline conditions	2021	Journal of King Saud University - Science	33	3		
742	Rashid K., Tariq M., Briddon R.W., Kotta-Loizou I., Hussain K.	Identification and molecular characterization of rose leaf curl virus in ornamental pomegranate (<i>Punica granatum</i> L.)	2021	Australasian Plant Pathology	50	3	353	356
743	Shakoor A., Shahzad S.M., Chatterjee N., Arif M.S., Farooq T.H., Altaf M.M., Tufail M.A., Dar A.A., Mehmood T.	Nitrous oxide emission from agricultural soils: Application of animal manure or biochar? A global meta-analysis	2021	Journal of Environmental Management	285			
744	Jamal M.A., Fatima J., Naseem B., Muneer M., Ibrahim M.	Molecular interaction studies of antidepressant drug with aqueous caffeine using volumetric and acoustic methods	2021	Journal of Molecular Liquids	329			
745	Raza M., Srivastava H.M., Arif M., Ahmad K.	Coefficient estimates for a certain family of analytic functions involving a q-derivative operator	2021	Ramanujan Journal	55	1	53	71
746	Akhtar M.N., Yousaf M., Lu Y., Khan M.A., Sarosh A., Arshad M., Niamat M., Farhan M., Ahmad A., Khallidoon M.U.	Physical, structural, conductive and magneto-optical properties of rare earths (Yb, Gd) doped Ni ²⁺ /Zn spinel nanoferrites for data and energy storage devices	2021	Ceramics International	47	9	11878	11886

747	Iqbal Z., Abbas F., Ibrahim M., Qureshi T.I., Gul M., Mahmood A.	Assessment of heavy metal pollution in Brassica plants and their impact on animal health in Punjab, Pakistan	2021	Environmental Science and Pollution Research	28	18	22768	22778
748	Usman M., Khalid K., Mehdi M.A.	What determines environmental deficit in Asia? Embossing the role of renewable and non-renewable energy utilization	2021	Renewable Energy	168		1165	1176
749	Ullah S., Al-Sehemi A.G., Mubashir M., Mukhtar A., Saqib S., Bustam M.A., Cheng C.K., Ibrahim M., Show P.L.	Adsorption behavior of mercury over hydrated lime: Experimental investigation and adsorption process characteristic study	2021	Chemosphere	271			
750	Ijaz M.U., Anwar H., Iqbal S., Ismail H., Ashraf A., Mustafa S., Samad A.	Protective effect of myricetin on nonylphenol-induced testicular toxicity: biochemical, steroidogenic, hormonal, spermatogenic, and histological-based evidences	2021	Environmental Science and Pollution Research	28	18	22742	22757
751	Younis S., Shaheen S., Harun N., Abbas M., Ahmad M., Hussain K., Khan F.	Application of multimicroscopic techniques (LM and SEM) in comparative palynological study of Asteroideae members, inhabited in Pakistan	2021	Microscopy Research and Technique	84	5	1063	1077
752	Ullah H., Ullah A., Gul A., Mousavi T., Khan M.W.	Novel coronavirus 2019 (COVID-19) pandemic outbreak: A comprehensive review of the current literature [Pandemia por el nuevo brote de coronavirus de 2019 (COVID-19):	2021	Vacunas	22	2	106	113

		amplia revisi3n de la literatura actual]						
753	Usman A., Ozturk I., Hassan A., Maria Zafar S., Ullah S.	The effect of ICT on energy consumption and economic growth in South Asian economies: An empirical analysis	2021	Telematics and Informatics	58			
754	Alyas T., Shaheen S., Hussain F., Harun N., Hussain K., Sajjad S., Ahmed M., Khan F.	Scanning Electron Microscopy-based palynological characterization of selected Euphorbiaceae taxa colonized in Pakistan	2021	Microscopy Research and Technique	84	5	850	859
755	Ahmad A., Khan W.U., Shah A.A., Yasin N.A., Ali A., Rizwan M., Ali S.	Dopamine Alleviates Hydrocarbon Stress in Brassica oleracea through Modulation of Physio-Biochemical Attributes and Antioxidant Defense Systems	2021	Chemosphere	270			
756	Adem Åž., Eyupoglu V., Sarfraz I., Rasul A., Zahoor A.F., Ali M., Abdalla M., Ibrahim I.M., Elfiky A.A.	Caffeic acid derivatives (CAFDs) as inhibitors of SARS-CoV-2: CAFDs-based functional foods as a potential alternative approach to combat COVID-19	2021	Phytomedicine	85			
757	Ambreen S., Tariq M., Masoud M.S., Ali I., Qasim M., Mushtaq A., Ahmed M., Asghar R.	Anticoagulant potential and total phenolic content of six species of the genus Ficus from Azad Kashmir, Pakistan	2021	Tropical Journal of Pharmaceutical Research	18	6	1245	1251

758	Manzoor M., Jabeen F., Ahmad Q.-U.-A., Younis T., Eltanahy E.A., Schenk P.M.	Sugarcane Bagasse Hydrolysate as Organic Carbon Substrate for Mixotrophic Cultivation of Nannochloropsis sp. BR2	2021	Waste and Biomass Valorization	12	5	2321	2331
759	Barkaat S., Zuber M., Zia K.M., Noreen A., Tabasum S.	UV/H2O2/Ferrioxalate Based Integrated Approach to Decolorize and Mineralize Reactive Blue Dye: Optimization through Response Surface Methodology	2021	Zeitschrift fur Physikalische Chemie	235	5	525	547
760	Saleem S., Yusaf S., Sarwar N., Raziq M.M., Malik O.F.	Linking Abusive Supervision to Psychological Distress and Turnover Intentions Among Police Personnel: The Moderating Role of Continuance Commitment	2021	Journal of Interpersonal Violence	36	45545	4451	4471
761	Khan M.I., Waqas H., Farooq U., Khan S.U., Chu Y.-M., Kadry S.	Assessment of bioconvection in magnetized Sutterby nanofluid configured by a rotating disk: A numerical approach	2021	Modern Physics Letters B	35	12		

762	Anwar F., Saleem U., Rehman A.U., Ahmad B., Ismail T., Mirza M.U., Kee L.Y., Abdullah I., Ahmad S.	Toxicological Screening of 4-Phenyl-3,4-dihydrobenzo[h]quinolin-2(1 H)-one: A New Potential Candidate for Alzheimer's Treatment	2021	ACS Omega	6	16	10897	10909
763	Sehoul M., Benguediab S., Benguediab M., Selim M.M., Bourada F., Tounsi A., Hussain M.	On the free vibration response of laminated composite plates via FEM	2021	Steel and Composite Structures	39	2	149	158
764	Meksi A., Benyoucef S., Sekkal M., Bouiadjra R.B., Selim M.M., Tounsi A., Hussain M.	Influence of micromechanical models on the bending response of bidirectional FG beams under linear, uniform, exponential and sinusoidal distributed loading	2021	Steel and Composite Structures	39	2	215	228
765	Farid A., Pan L., Usman M., Khan I.A., Khan A.S., Ahmad A.U., Javid M.	In-situ growth of porous CoTe ₂ nanosheets array on 3D nickel foam for highly sensitive binder-free non-enzymatic glucose sensor	2021	Journal of Alloys and Compounds	861			

766	Asif Javed H.M., Qureshi A.A., Mehmood R., Tahir M.I., Javed S., Sarfaraz M., Javaid M.Y., Awais M., Ali U.	Hydrogen treated TiO ₂ nanoparticles onto FTO glass as photoanode for dye-sensitized solar cells with remarkably enhanced performance	2021	International Journal of Hydrogen Energy	46	27	14311	14321
767	Farooq M.U., Rashid M., Azam F., Rasheed Y., Anwar M.W., Shahid Z.	A Model-Driven Framework for the Prevention of DoS Attacks in Software Defined Networking (SDN)	2021	15th Annual IEEE International Systems Conference, SysCon 2021 - Proceedings				
768	Zubair M., Adnan Ramzani P.M., Rasool B., Khan M.A., ur-Rahman M., Akhtar I., Turan V., Tauqeer H.M., Farhad M., Khan S.A., Iqbal J., Iqbal M.	Efficacy of chitosan-coated textile waste biochar applied to Cd-polluted soil for reducing Cd mobility in soil and its distribution in moringa (<i>Moringa oleifera</i> L.)	2021	Journal of Environmental Management	284			
769	Waani S.P.T., Irum S., Gul I., Yaqoob K., Khalid M.U., Ali M.A., Manzoor U., Noor T., Ali S., Rizwan M., Arshad M.	TiO ₂ nanoparticles dose, application method and phosphorous levels influence genotoxicity in Rice (<i>Oryza sativa</i> L.), soil enzymatic activities and plant growth	2021	Ecotoxicology and Environmental Safety	213			

770	Ali A., Kuznetsov A., Khan M.U., Tahir M.N., Ashfaq M., Raza A.R., Muhammad S.	2-Amino-6-methylpyridine based co-crystal salt formation using succinic acid: Single-crystal analysis and computational exploration	2021	Journal of Molecular Structure	1230			
771	Ahmad S., Mahmood T., Ahmad M., Arshad M.N., Ullah F., Shafiq M., Aslam S., Asiri A.M.	Synthesis, single crystal X-ray, spectroscopic and computational (DFT) studies 2,1-benzothiazine based hydrazone derivatives	2021	Journal of Molecular Structure	1230			
772	Khalid M., Ali A., Khan M.U., Tahir M.N., Ahmad A., Ashfaq M., Hussain R., Morais S.F.D.A., Braga A.A.C.	Non-covalent interactions abetted supramolecular arrangements of N-Substituted benzylidene acetohydrazide to direct its solid-state network	2021	Journal of Molecular Structure	1230			
773	Majid F., Ali M.D., Ata S., Bibi I., Malik A., Ali A., Alwadai N., Albalawi H., Shoaib M., Bukhari S.A., Iqbal M.	Fe3O4/graphene oxide/Fe4[Fe(CN)6]3 nanocomposite for high performance electromagnetic interference shielding	2021	Ceramics International	47	8	11587	11595
774	Pasha A.R., Khalid M., Shafiq Z., Khan M.U., Naseer M.M., Tahir M.N., Hussain R., Braga A.A.C., Jawaria R.	A comprehensive study of structural, non-covalent interactions and electronic insights into N-aryl substituted thiosemicarbazones via SC-XRD and first-principles DFT approach	2021	Journal of Molecular Structure	1230			

775	Zulfiqar W., Alay-E- Abbas S.M., Abbas G., Laref A., Larsson J.A., Shaukat A.	Revisiting the structural, electronic and photocatalytic properties of Ti and Zr based perovskites with meta-GGA functionals of DFT	2021	Journal of Materials Chemistry C	9	14	4862	4876
776	Sajid M.M., Zhai H., Shad N.A., Shafique M., Afzal A.M., Javed Y., Khan S.B., Amin N., Zhang Z.	Construction of 1T-MoS ₂ quantum dots-interspersed (Bi _{1-x} Fe _x)VO ₄ heterostructures for electron transport and photocatalytic properties	2021	RSC Advances	11	22	13105	13118
777	Iqbal M.A., Iqbal A., Ahmad Z., Raza A., Rahim J., Imran M., Sheikh U.A.A., Maqsood Q., Soufan W., Sahloul N.M.A., Sorour S., El Sabagh A.	Cowpea [Vigna unguiculata (L.) Walp] herbage yield and nutritional quality in cowpea-sorghum mixed strip intercropping systems	2021	Revista Mexicana De Ciencias Pecuarias	12	2	402	418
778	Iqbal W., Jalil M., Khadimallah M.A., Hussain M., Naeem M.N., Naim A.F.A., Tounsi A.	Interaction of casson nanofluid with Brownian motion:Temperature profile with shooting method	2021	Advances in Nano Research	10	4	349	357

779	Taj M., Khadimallah M.A., Hussain M., Rashid Y., Ishaque W., Mahmoud S.R., Din Q., Alwabli A.S., Tounsi A.	Discretization and bifurcation analysis of tumor immune interaction in fractional form	2021	Advances in Nano Research	10	4	359	371
780	Afzal F., Ur Rehman A., Rafique M.D., Ansar M.T., Munir M.A., Hussain Q.	High-performance SnO2 nanotubes as efficient electrode materials	2021	Nano-Structures and Nano-Objects	26			
781	Hussain R., Mehmood K., Abbas R.Z., Khan I., Siddique A.B., Masood S., Qadir M.S., Ishaq H.M., Akram R., Ghorri M.T., Khan A., Tayyib M.	Epidemiology and patho-physiological studies in trypanosoma evansi infected camels and buffaloes in Pakistan	2021	Pakistan Journal of Agricultural Sciences	58	2	711	718
782	Ali S., Akram N.A., Rizwan M., Hussain A., Maqbool A., Ahmad A., Ali B., Tanveer A., Awais Ghani M., Nadeem M.	Morphological and biochemical responses of different rice varieties exposed to cadmium stress	2021	Pakistan Journal of Agricultural Sciences	58	2	521	528
783	Khan M., Sharif M., Naeem M.F., Munir H., Rafique A., Chishti M.F.A., Anwar U., Bilal Q., Riaz M., Hussain M., Imran S., Hussain F.,	Effect of lactobacillus plantarum and lactobacillus buchneri on composition, aerobic stability, total lactic acid bacteria and e. Coli count of ensiled corn stover with or without molasses supplementation	2021	Pakistan Journal of Agricultural Sciences	58	2	677	684

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784	Gulnaz R., Iqbal M., Sattar A., Sajid M.A., Khaliq S.	Study of physiological and biochemical indicators of temperature tolerance in wheat (<i>Triticum aestivum</i> L.) in response to short-term spatiotemporal temperature variation	2021	Pakistan Journal of Agricultural Sciences	58	2	561	569
785	Shahbaz M., Gao C., Zhai L., Shahzad F., Luqman A., Zahid R.	Impact of big data analytics on sales performance in pharmaceutical organizations: The role of customer relationship management capabilities	2021	PLoS ONE	16	44290		
786	Ahmed U., Ashfaq U.A., Qasim M., Ahmad I., Ahmad H.U., Tariq M., Masoud M.S., Khaliq S.	Dysregulation of circulating miRNAs promotes the pathogenesis of diabetes-induced cardiomyopathy	2021	PLoS ONE	16	44290		
787	Tayyab M., Hussain A., Asif Q.U.A., Adil W., Nabi S., Rafiq N., Ahmed B.	A computational study of MoS ₂ for band gap engineering by substitutional doping of TMN (T = transition metal (Cu), M = metalloid (B) and N = non-metal (C))	2021	Materials Research Express	8	4		
788	Atif M., Alsrhani A., Naz F., Imran M., Imran M., Ullah M.I., Alameen A.A.M., Gondal T.A., Raza Q.	Targeting Adenosine Receptors in Neurological Diseases	2021	Cellular Reprogramming	23	2	57	72

789	Ahmad H.S., Imran M., Ahmad F., Rukh S., Ikram R.M., Rafique H.M., Iqbal Z., Alsahli A.A., Alyemeni M.N., Ali S., Tanveer-Ul-haq	Improving water use efficiency through reduced irrigation for sustainable cotton production	2021	Sustainability (Switzerland)	13	7		
790	Zeng F., Mallhi Z.I., Khan N., Rizwan M., Ali S., Ahmad A., Hussain A., Alsahli A.A., Alyemeni M.N.	Combined citric acid and glutathione augments lead (Pb) stress tolerance and phytoremediation of castorbean through antioxidant machinery and pb uptake	2021	Sustainability (Switzerland)	13	7		
791	Mahwish, Saeed F., Tauseef Sultan M., Riaz A., Ahmed S., Bigiu N., Amarowicz R., Manea R.	Bitter melon (Momordica charantia L.) fruit bioactives charantin and vicine potential for diabetes prophylaxis and treatment	2021	Plants	10	4		
792	Sultan M.T., Aslam F., Rasool B., Imran M., Ahmad A.N., Tariq H.B., Afzal M.I., Habib-Ur-rehman, Shahbaz M., Nadeem M.	Nigella sativa ameliorates oxidative stress induced adverse effects in rodent modeling studies: Indices of serum chemistry and hematology	2021	Food Science and Technology (Brazil)	41	2	404	411

793	Zafar S., Hasnain Z., Aslam N., Mumtaz S., Jaafar H.Z.E., MegatWahab P.E., Qayum M., Ormenisan A.N.	Impact of Zn nanoparticles synthesized via green and chemical approach on okra (<i>Abelmoschus esculentus</i> L.) growth under salt stress	2021	Sustainability (Switzerland)	13	7		
794	Toqeer I., Yaqoob M.Z., Ghaffar A., Alkanhal M.A.S., Khan Y., Aladadi Y.T.	Reflectance and transmittance of terahertz waves from graphene embedded into metamaterial structures	2021	Journal of the Optical Society of America A: Optics and Image Science, and Vision	38	4	465	475
795	Akhter N., Aqeel M., Shahnaz M.M., Alnusairi G.S.H., Alghanem S.M., Kousar A., Hashem M., Kanwal H., Alamri S., Ilyas A., Al-zoubi O.M., Noman A.	Physiological homeostasis for ecological success of <i>Typha</i> (<i>Typha domingensis</i> Pers.) populations in saline soils	2021	Physiology and Molecular Biology of Plants	27	4	687	701
796	Nazir R., Ali J., Rasul I., Widemann E., Shafiq S.	Eco-environmental aspects of covid-19 pandemic and potential control strategies	2021	International Journal of Environmental Research and Public Health	18	7		

797	Hussain T., Hussain A.I., Chatha S.A.S., Ali A., Rizwan M., Ali S., Ahamd P., Wijaya L., Alyemeni M.N.	Synthesis and characterization of na-zeolites from textile waste ash and its application for removal of lead (Pb) from wastewater	2021	International Journal of Environmental Research and Public Health	18	7		
798	Saleem U., Gull Z., Saleem A., Shah M.A., Akhtar M.F., Anwar F., Ahmad B., Panichayupakaranant P.	Appraisal of anti-Parkinson activity of rhinacanthin-C in haloperidol-induced parkinsonism in mice: A mechanistic approach	2021	Journal of Food Biochemistry	45	4		
799	Azad M., Nadeem M., Gulzar N., Imran M.	Impact of fractionation on fatty acids composition, phenolic compounds, antioxidant characteristics of olein and super olein fractions of flaxseed oil	2021	Journal of Food Processing and Preservation	45	4		
800	Tufail T., Saeed F., Afzaal M., Ain H.B.U., Gilani S.A., Hussain M., Anjum F.M.	Wheat straw: A natural remedy against different maladies	2021	Food Science and Nutrition	9	4	2335	2344
801	Saeed M., Ghaffar A., Yaqoob M.Z., Alkanhal M.A.S., Khan Y., Aladadi Y.T.	Hybrid energy surface plasmon modes supported by graphene-coated circular chirowaveguide	2021	Optical Materials	114			

802	Haq I.U., Jacob J., Mehboob K., Mahmood K., Ali A., Amin N., Ikram S., Hussain S., Feng Y., Ashraf F.	Effect of annealing temperature on the thermoelectric properties of ZnInO thin films grown by physical vapor deposition	2021	Physica B: Condensed Matter	606			
803	Bhutta Z.A., Ashar A., Mahfooz A., Khan J.A., Saleem M.I., Rashid A., Aqib A.I., Kulyar M.F.-E.-A., Sarwar I., Shoaib M., Nawaz S., Yao W.	Enhanced wound healing activity of nano ZnO and nano Curcuma longa in third-degree burn	2021	Applied Nanoscience (Switzerland)	11	4	1267	1278
804	Irshad M.A., Nawaz R., Rehman M.Z.U., Adrees M., Rizwan M., Ali S., Ahmad S., Tasleem S.	Synthesis, characterization and advanced sustainable applications of titanium dioxide nanoparticles: A review	2021	Ecotoxicology and Environmental Safety	212			
805	Baig M.M.F.A., Zhang C., Akhtar M.F., Saleem A., Mudassir J.	The effective transfection of a low dose of negatively charged drug-loaded DNA-nanocarriers into cancer cells via scavenger receptors	2021	Journal of Pharmaceutical Analysis	11	2	174	182
806	Hussain B., Yaseen H., Khalid-Al-Ghanim, Al-Misned F., Qasim M., Al-Mulhm N., Mahboob S.	A study on risk assessment of effect of hematoxylin dye on cytotoxicity and nephrotoxicity in freshwater fish: Food and water security prospective research	2021	Saudi Journal of Biological Sciences	28	4	2267	2271

807	Ali M., Saleem U., Anwar F., Imran M., Nadeem H., Ahmad B., Ali T., Atta-ur-rehman, Ismail T.	Screening of Synthetic Isoxazolone Derivative Role in Alzheimer's Disease: Computational and Pharmacological Approach	2021	Neurochemical Research	46	4	905	920
808	Jilani A., Hussain S.Z., Ansari M.O., Kumar R., Dustgeer M.R., Othman M.H.D., Barakat M.A., Melaibari A.A.	Facile synthesis of silver decorated reduced graphene oxide@zinc oxide as ternary nanocomposite: an efficient photocatalyst for the enhanced degradation of organic dye under UV-visible light	2021	Journal of Materials Science	56	12	7434	7450
809	Javid M., Qu X., Zhao Y., Huang F., Farid A., Zhang H., Shah A., Sammed K.A., Duan Y., Zhang Z., Pan L., Dong X.	Synthesis of hexagonal-shaped Cr ₃ C ₂ @C nanoplatelets and role of their intrinsic properties towards microwave absorption	2021	Materials Letters	288			
810	Rashid S., Chu Y.-M., Singh J., Kumar D.	A unifying computational framework for novel estimates involving discrete fractional calculus approaches	2021	Alexandria Engineering Journal	60	2	2677	2685
811	Ahmad B., Rehman S.U., Azizullah A., Khan M.F., Din S.R.U., Ahmad M., Ali A., Tahir N., Azam N., Gamallat Y., Rahman K.U., Ali M., Safi M., Khan I., Qamer S., Oh D.-	Molecular mechanisms of anticancer activities of polyphyllin VII	2021	Chemical Biology and Drug Design	97	4	914	929

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812	Hussain M., Khaliq N., Khan A.A., Khan M., Ali G., Maqbool M.	Synthesis, characterization and electrochemical analysis of TiO2 nanostructures for sensing L-Cysteine and hydrogen peroxide	2021	Physica E: Low-Dimensional Systems and Nanostructures	128			
813	Ahsan W.A., Ahmad H.R., Farooqi Z.U.R., Sabir M., Ayub M.A., Rizwan M., Ilic P.	Surface water quality assessment of Skardu springs using Water Quality Index	2021	Environmental Science and Pollution Research	28	16	20537	20548
814	Laraib N., Hussain A., Javid A., Bukhari S.M., Ali W., Manzoor M., Jabeen F.	Mixotrophic Cultivation of Scenedesmus dimorphus for Enhancing Biomass Productivity and Lipid Yield	2021	Iranian Journal of Science and Technology, Transaction A: Science	45	2	397	403
815	Naeem M.K., Anwar S., Nasreen S.	Empirical analysis of CO2 emissions and sustainable use of energy sources in Pakistan	2021	Environmental Science and Pollution Research	28	13	16420	16433

816	Yang B., Jahanger A., Usman M., Khan M.A.	The dynamic linkage between globalization, financial development, energy utilization, and environmental sustainability in GCC countries	2021	Environmental Science and Pollution Research	28	13	16568	16588
817	Chu Y.-M., Ahmad F., Khan M.I., Nazeer M., Hussain F., Khan N.B., Kadry S., Mei L.	Numerical and scale analysis of non-Newtonian fluid (Eyring-Powell) through pseudo-spectral collocation method (PSCM) towards a magnetized stretchable Riga surface	2021	Alexandria Engineering Journal	60	2	2127	2137
818	Liu Y., Saleem S., Shabbir R., Shabbir M.S., Irshad A., Khan S.	The relationship between corporate social responsibility and financial performance: a moderate role of fintech technology	2021	Environmental Science and Pollution Research	28	16	20174	20187
819	Akhtar M.F., Khan K., Saleem A., Baig M.M.F.A., Rasul A., Abdel-Daim M.M.	Chemical characterization and anti-arthritis appraisal of <i>Monothea buxifolia</i> methanolic extract in Complete Freund's Adjuvant-induced arthritis in Wistar rats	2021	Inflammopharmacology	29	2	393	408
820	Naz S., Arooj S., Ali Z., Farooq Z.	Potential consequences of captivity and environmental pollution in endoparasitic prevalence in different antelopes kept at wildlife parks	2021	Environmental Science and Pollution Research	28	13	16308	16313

821	Shafiq-ur-Rehman, Ghafoor S., BiBi S., Kausar A., Ali S., Asim S., Mansha A., Shehzadi S.A., Jia R.	DFT and TDDFT Studies of Non-Fullerene Organometallic Based Acceptors for Organic Photovoltaics	2021	Journal of Inorganic and Organometallic Polymers and Materials	31	4	1676	1687
822	Bernstein N., Akram M., Yaniv-Bachrach Z., Daniyal M.	Is it safe to consume traditional medicinal plants during pregnancy?	2021	Phytotherapy Research	35	4	1908	1924
823	Amir M.W., Raza Z., Abbas Z., Nazir H.Z., Akhtar N., Riaz M., Abid M.	On increasing the sensitivity of moving average control chart using auxiliary variable	2021	Quality and Reliability Engineering International	37	3	1198	1209
824	Saleem M., Iftikhar A., Asif M., Hussain K., Alamgeer, Shah P.A., Saleem A., Akhtar M.F., Tanzeem M., Yaseen H.S.	Asphodelus tenuifolius extracts arrested inflammation and arthritis through modulation of TNF- α , NF- κ B, ILs, and COX-2 activities in in vivo models	2021	Inflammopharmacology	29	2	483	497
825	Lubna, Zafar M., Ahmad M., Shah G.M., Khan A.M., Kilic O., Yilmaz E., Ozdemir F.A., Ali M.I., Shah M.A., Sultana S., Ahmad S.	Application and implication of scanning electron microscopy for evaluation of palyno-morphological features of Vitaceae from Pakistan	2021	Microscopy Research and Technique	84	4	608	617

826	Arif Khalil R.M., Hussain M.I., Imran M., Hussain F., Saeed N., Murtaza G., Rana A.M., Mahata C.	First-Principles Simulation of Structural, Electronic and Optical Properties of Cerium Trisulfide (Ce2S3) Compound	2021	Journal of Electronic Materials	50	4	1637	1643
827	Ihsan J., Farooq M., Khan M.A., Khan A.S., Muhammad S., Ahmad N., Haleem A., Shah L.A., Saeed S., Siddiq M.	Acacia Gum Hydrogels Embedding the In Situ Prepared Silver Nanoparticles; Synthesis, Characterization, and Catalytic Application	2021	Catalysis Letters	151	4	1212	1223
828	Saher R., Hanif M.A., Mansha A., Javed H.M.A., Zahid M., Nadeem N., Mustafa G., Shaheen A., Riaz O.	Sunlight-driven photocatalytic degradation of rhodamine B dye by Ag/FeWO4/g-C3N4 composites	2021	International Journal of Environmental Science and Technology	18	4	927	938
829	Abdelmalek Z., Khan S.U., Waqas H., Riaz A., Khan I.A., Tlili I.	A mathematical model for bioconvection flow of Williamson nanofluid over a stretching cylinder featuring variable thermal conductivity, activation energy and second-order slip	2021	Journal of Thermal Analysis and Calorimetry	144	1	205	217
830	Hashmat S., Shahid M., Tanwir K., Abbas S., Ali Q., Niazi N.K., Akram M.S., Saleem M.H., Javed M.T.	Elucidating distinct oxidative stress management, nutrient acquisition and yield responses of Pisum sativum L. fertigated with diluted and treated wastewater	2021	Agricultural Water Management	247			

831	Masood A., Maheen S., Khan H.U., Shafqat S.S., Irshad M., Aslam I., Rasul A., Bashir S., Zafar M.N.	Pharmaco-Technical Evaluation of Statistically Formulated and Optimized Dual Drug-Loaded Silica Nanoparticles for Improved Antifungal Efficacy and Wound Healing	2021	ACS Omega	6	12	8210	8225
832	Yar G.N.A.H., Noor-Ul-Hassan A.-B., Siddiqui H.	Real-time shallow water image retrieval and enhancement for low-cost unmanned underwater vehicle using Raspberry Pi	2021	Proceedings of the ACM Symposium on Applied Computing			1891	1899
833	Kalyar M.N., Saeed M., Usta A., Shafique I.	Workplace cyberbullying and creativity: examining the roles of psychological distress and psychological capital	2021	Management Research Review	44	4	607	624
834	IQRA L., PREM A., SANA K., AFZAL K., SAHER M., AKHTAR T., ANJUM H.S., RASOOL M.G., KHALIL R., HAMEED S., GILL S.A.	Effect of salt on different morphological traits in wheat varieties	2021	Plant Cell Biotechnology and Molecular Biology	22	17-18	25	32
835	Rehman A., Nisa M.U., Usman M., Ahmad Z., Bokhari T.H., Rahman H.M.A.U., Rasheed A., Kiran L.	Application of cationic-nonionic surfactant based nanostructured dye carriers: Mixed micellar solubilization	2021	Journal of Molecular Liquids	326			

836	Tanveer Z., Mahmood K., Ikram S., Ali A., Amin N.	Modulation of thermoelectric properties of thermally evaporated copper nitride thin films by optimizing the growth parameters	2021	Physica B: Condensed Matter	605			
837	Shafiq F., Iqbal M., Ali M., Ashraf M.A.	Fullerenol regulates oxidative stress and tissue ionic homeostasis in spring wheat to improve net-primary productivity under salt-stress	2021	Ecotoxicology and Environmental Safety	211			
838	Hussain S., Khan A.J., Arshad M., Javed M.S., Ahmad A., Ahmad Shah S.S., Khan M.R., Akram S., Zulfiqar, Ali S., ALOthman Z.A., Liu G., Shaheen A., Qiao G.	Charge storage in binder-free 2D-hexagonal CoMoO ₄ nanosheets as a redox active material for pseudocapacitors	2021	Ceramics International	47	6	8659	8667
839	Amen R., Hameed J., Albashar G., Kamran H.W., Hassan Shah M.U., Zaman M.K.U., Mukhtar A., Saqib S., Ch S.I., Ibrahim M., Ullah S., Al-Sehemi A.G., Ahmad S.R., KlemeÅš J.J., Bokhari A., Asif S.	Modelling the higher heating value of municipal solid waste for assessment of waste-to-energy potential: A sustainable case study	2021	Journal of Cleaner Production	287			

840	Nahar L., Al-Majmaie S., Al-Groshi A., Rasul A., Sarker S.D.	Chalepin and chalepsin: Occurrence, biosynthesis and therapeutic potential	2021	Molecules	26	6		
841	Abbas Q., Kanwal U., Khan M.U., Saeed W., Shahzadi M.	Role of religiosity, optimism, demographic characteristics and mental health problems among cancer patients	2021	Journal of the Pakistan Medical Association	71	3	859	862
842	Basit M., Siddique A.B., Aslam B., Zahoor M.A., Hussain R., Ulhaq M.	Distribution and antimicrobial susceptibility profile of bacterial and fungal pathogens isolated from burn wounds in hospitalized patients	2021	Journal of the Pakistan Medical Association	71	3	916	920
843	Umbreen H., Javed S., Noreen R., Meraj M.	Bioevaluation of agro-waste for postprandial glucose and insulin concentration in blood	2021	Journal of the Pakistan Medical Association	71	3	830	833
844	Sharif H., Khadimallah M.A., Naeem M.N., Hussain M., Hussain S., Tounsi A.	Flow of MHD Powell-Eyring nanofluid: Heat absorption and Cattaneo-Christov heat flux model	2021	Advances in Nano Research	10	3	221	234
845	Iqbal W., Jalil M., Qazaq A., Khadimallah M.A.,	Effect of suction on flow of dusty fluid along exponentially stretching cylinder	2021	Advances in Nano Research	10	3	263	270

	Naeem M.N., Hussain M., Mahmoud S.R., Ghandourah E., Tounsi A.							
846	Hameed A., Akram N.A., Saleem M.H., Ashraf M., Ahmed S., Ali S., Alsahli A.A., Alyemeni M.N.	Seed treatment with α -tocopherol regulates growth and key physio-biochemical attributes in carrot (<i>Daucus carota</i> L.) plants under water limited regimes	2021	Agronomy	11	3		
847	Taj M., Khadimallah M.A., Hussain M., Fareed K., Safeer M., Khedher K.M., Ahmad M., Nawaz Naeem M., Qazaq A., Qahtani A.A., Mahmoud S.R., Alwabli A.S., Tounsi A.	Thermal stress effects on microtubules based on orthotropic model: Vibrational analysis	2021	Advances in Concrete Construction	11	3	255	260
848	Shah P.A., Zaidi H.A., Syed H.K., Ishfaq H., Altaf R.M., Pervaiz A., Khan S.-U.-D., Iqbal M.S., Khan J.	Formulation development and in vitro characterization of triple layer tablet containing amlodipine besylate, rosuvastatin calcium and hydrochlorothiazide	2021	Pakistan Journal of Pharmaceutical Sciences	34	2	699	710
849	Saleem M., Nain H., Akhtar M.F., Saleem A., Saadullah M., Mobashar A., Rasul A., Shah M.A., Hamid I., Iqbal R.	Protective effect of heliotropium strigosum 70% aqueous methanolic extract against paracetamol induced hepatotoxicity in mice	2021	Pakistan Journal of Pharmaceutical Sciences	34	2	693	698

850	Kanwal N., Rasul A., Shah M.A., Jabeen F., Sultana T.	In silico-based identification of phytochemicals as novel human phosphoglycerate mutase 1 (PGAM1) inhibitors for cancer therapy	2021	Pakistan Journal of Pharmaceutical Sciences	34	2	665	670
851	Aziz I., Saqib Q.N., Younus M., Ali E., Qadir M.I., Siddique F.A., Wazir M.A., Shaheer M.T., Adnan Q., Shirazi J.H., Ur Rehman K., Ullah S., Abbas K.	Physicochemical, antidiarrheal and antidiabetic potential of super food (Moringa oleifera Lam.)	2021	Pakistan Journal of Pharmaceutical Sciences	34	2	723	729
852	Tahir S.H., Ullah M.R., Ahmad G., Syed N., Qadir A.	Women in top management: Performance of firms and open innovation	2021	Journal of Open Innovation: Technology, Market, and Complexity	7	1		
853	Ahmad S., Shahid F., Tahir Ul Qamar M., Ur Rehman H., Abbasi S.W., Sajjad W., Ismail S., Alrumaihi F., Allemaillem K.S., Almatroudi A., Saeed H.F.U.	Immuno-informatics analysis of pakistan-based hcv subtype-3a for chimeric polypeptide vaccine design	2021	Vaccines	9	3		

854	Ge-Jile H., Waqas H., Khan S.U., Khan M.I., Farooq S., Hussain S.	Three-dimensional radiative bioconvective flow of a sisko nanofluid with motile microorganisms	2021	Coatings	11	3		
855	Tahir N., Asif M., Ahmad S., Malik S.A., Aljuaid H., Butt M.A., Rehman M.	FNG-IE: an improved graph-based method for keyword extraction from scholarly big-data	2021	PeerJ Computer Science	7		1	24
856	Ali H., Rafique M.Z., Sarfraz M.S., Malik M.S.A., Alqahtani M.A., Alqurni J.S.	A novel approach for solving travelling thief problem using enhanced simulated annealing	2021	PeerJ Computer Science	7		1	18
857	Raees A., Jamal M.A., Ahmed I., Silanpaa M., Algarni T.S.	Synthesis and characterization of ceo2/cuo nanocomposites for photocatalytic degradation of methylene blue in visible light	2021	Coatings	11	3		
858	Khan A.G., Imran M., Khan A.-U.-H., Fares A., Å imÅ~nek J., Ul-Haq T., Alsahli A.A., Alyemeni M.N., Ali S.	Performance of spring and summer-sown maize under different irrigation strategies in Pakistan	2021	Sustainability (Switzerland)	13	5	1	13

859	Shen H., Ali S.A., Alharthi M., Shah A.S., Khan A.B., Abbas Q., Rahman S.U.	Carbon-free energy and sustainable environment: The role of human capital and technological revolutions in attaining sdgs	2021	Sustainability (Switzerland)	13	5	1	18
860	Ahmad D., Amer Khan M., Mahmood A., Sohail A., Ali Gillani S.S.	Structural and optical properties of molybdenum oxide thin films prepared by the dip coating technique	2021	EPJ Applied Physics	93	3		
861	Rehman I., Riaz M., Ali S., Arif M.S., Ali S., Alyemeni M.N., Alsahli A.A.	Evaluating the effects of biochar with farmyard manure under optimal mineral fertilizing on tomato growth, soil organic c and biochemical quality in a low fertility soil	2021	Sustainability (Switzerland)	13	5	1	19
862	Qamar M.U., Ejaz H., Walsh T.R., Shah A.A., Al Farraj D.A., Alkufeidy R.M., Alkubaisi N.A., Saleem S., Jahan S.	Clonal relatedness and plasmid profiling of extensively drug-resistant New Delhi metallo-β-lactamase-producing Klebsiella pneumoniae clinical isolates	2021	Future Microbiology	16	4	229	239
863	Makhdum M.S.A., Kousar R.	Gender in agriculture: Determinants of female labor supply decisions among rural households in the context of market imperfections in Pakistan	2021	Agricultural Economics (United Kingdom)	52	2	235	248

864	Danish G.A., Imran M., Tahir M., Waqas H., Asjad M.I., Akg�l A., Baleanu D.	Effects of Non-Linear Thermal Radiation and Chemical Reaction on Time Dependent Flow of Williamson Nanofluid With Combine Electrical MHD and Activation Energy	2021	Journal of Applied and Computational Mechanics	7	2	546	558
865	Kabir M.T., Rahman M.H., Akter R., Behl T., Kaushik D., Mittal V., Pandey P., Akhtar M.F., Saleem A., Albadrani G.M., Kamel M., Khalifa S.A.M., El-Seedi H.R., Abdel-Daim M.M.	Potential role of curcumin and its nanoformulations to treat various types of cancers	2021	Biomolecules	11	3	1	39
866	Jalil M., Iqbal W.	Numerical analysis of suction and blowing effect on boundary layer slip flow of Casson fluid along with permeable exponentially stretching cylinder	2021	AIP Advances	11	3		
867	Ehsan S., Abbas F., Ibrahim M., Ahmad B., Farooque A.A.	Thermal discomfort levels, building design concepts, and some heat mitigation strategies in low-income communities of a South Asian city	2021	International Journal of Environmental Research and Public Health	18	5	1	18
868	Ali A., Hadlich F., Abbas M.W., Iqbal M.A., Tesfaye D., Bouma G.J., Winger Q.A., Ponsuksili S.	Microrna�mrna networks in pregnancy complications: A comprehensive downstream analysis of potential biomarkers	2021	International Journal of Molecular Sciences	22	5	1	23

869	Arya A., Chahal R., Rao R., Rahman M.H., Kaushik D., Akhtar M.F., Saleem A., Khalifa S.M.A., El-Seedi H.R., Kamel M., Albadrani G.M., Abdel-Daim M.M., Mittal V.	Acetylcholinesterase inhibitory potential of various sesquiterpene analogues for alzheimer's disease therapy	2021	Biomolecules	11	3	1	30
870	Akhtar P., Akhtar M.N., Baqir M.A., Ahmad A., Khallidooon M.U., Farhan M., Khan M.A.	Structural and magnetic evaluations of rare-earths (Tb, Pr, Ce, Gd, Y)-doped spinel ferrites for high frequency and switching applications	2021	Journal of Materials Science: Materials in Electronics	32	6	7692	7703
871	Aslam K., Iqbal S.Z., Razis A.F.A., Usman S., Ali N.B.	Patulin contamination of citrus fruits from punjab and northern pakistan and estimation of associated dietary intake	2021	International Journal of Environmental Research and Public Health	18	5	1	13
872	Ahmad H., Seadawy A.R., Ganie A.H., Rashid S., Khan T.A., Abu-Zinadah H.	Approximate Numerical solutions for the nonlinear dispersive shallow water waves as the Fornberg-Whitham model equations	2021	Results in Physics	22			

873	Shah S.M.A., Rasheed T., Rizwan K., Bilal M., Iqbal H.M.N., Rasool N., Toma S., Marceanu L.G., Bobescu E.	Risk management strategies and therapeutic modalities to tackle COVID-19/SARS-CoV-2	2021	Journal of Infection and Public Health	14	3	331	346
874	Hameed A., Farooq T., Hameed A., Sheikh M.A.	Sodium nitroprusside mediated priming memory invokes water-deficit stress acclimation in wheat plants through physio-biochemical alterations	2021	Plant Physiology and Biochemistry	160		329	340
875	Khan M.I., Waqas H., Khan S.U., Imran M., Chu Y.-M., Abbasi A., Kadry S.	Slip flow of micropolar nanofluid over a porous rotating disk with motile microorganisms, nonlinear thermal radiation and activation energy	2021	International Communications in Heat and Mass Transfer	122			
876	Siddique R., Fawad Zahoor A., Ahmad H., Maqbool Zahid F., Abid M., Siddeeg A.	Probing the impact of conventional oil frying on the formation of polycyclic aromatic hydrocarbons in rabbit meat	2021	Food Science and Nutrition	9	3	1698	1703
877	Khan A., Nadeem M., Imran M., Khaliq A.	Impact of winterization on fatty acids' composition, isomers, and oxidative stability of conjugated linoleic acids produced from selected vegetable oils	2021	Journal of Food Processing and Preservation	45	3		

878	Khalid N., Rizvi Z.F., Yousaf N., Khan S.M., Noman A., Aqeel M., Latif K., Rafique A.	Rising Metals Concentration in the Environment: A Response to Effluents of Leather Industries in Sialkot	2021	Bulletin of Environmental Contamination and Toxicology	106	3	493	500
879	Shah I.U., Sameen A., Manzoor M.F., Ahmed Z., Gao J., Farooq U., Siddiqi S.M., Siddique R., Habib A., Sun C., Siddeeg A.	Association of dietary calcium, magnesium, and vitamin D with type 2 diabetes among US adults: National health and nutrition examination survey 2007â€“2014â€”A cross- sectional study	2021	Food Science and Nutrition	9	3	1480	1490
880	Butt M.S., Imran M., Imran A., Arshad M.S., Saeed F., Gondal T.A., Shariati M.A., Gilani S.A., Tufail T., Ahmad I., Rind N.A., Mahomoodally M.F., Islam S., Mehmood Z.	Therapeutic perspective of thymoquinone: A mechanistic treatise	2021	Food Science and Nutrition	9	3	1792	1809
881	Arif M., Ikramullah, Jan T., Riaz M., Akhtar K., Ali S., Shah S., Jalal F., Mian I.A., Dawar K.M., Wang H.	Biochar and leguminous cover crops as an alternative to summer fallowing for soil organic carbon and nutrient management in the wheat-maize-wheat cropping system under semiarid climate	2021	Journal of Soils and Sediments	21	3	1395	1407

882	Khalid A., Sohaib M., Nadeem M.T., Saeed F., Imran A., Imran M., Afzal M.I., Ramzan S., Nadeem M., Anjum F.M., Arshad M.S.	Utilization of wheat germ oil and wheat bran fiber as fat replacer for the development of low-fat beef patties	2021	Food Science and Nutrition	9	3	1271	1281
883	Ajaz S., Ahmed T., Shahid M., Noman M., Shah A.A., Mehmood M.A., Abbas A., Cheema A.I., Iqbal M.Z., Li B.	Bioinspired green synthesis of silver nanoparticles by using a native Bacillus sp. strain AW1-2: Characterization and antifungal activity against Colletotrichum falcatum Went	2021	Enzyme and Microbial Technology	144			
884	Tufail T., Saeed F., Pasha I., Umair Arshad M., Afzaal M., Bader Ul Ain H., Bashir S., Imran M., Zia Shahid M., Abdullah M., Suleria H.A.R.	Extraction, quantification, and biochemical characterization of cereal industry by-product cell wall	2021	Journal of Food Processing and Preservation	45	3		

885	Sultana S., Munir N., Mahmood Z., Riaz M., Akram M., Rebezov M., Kuderinova N., Moldabayeva Z., Shariati M.A., Rauf A., Rengasamy K.R.R.	Molecular targets for the management of cancer using Curcuma longa Linn. phytoconstituents: A Review	2021	Biomedicine and Pharmacotherapy	135			
886	Muhammad T., Ullah M.Z., Waqas H., Alghamdi M., Riaz A.	Thermo-bioconvection in stagnation point flow of third-grade nanofluid towards a stretching cylinder involving motile microorganisms	2021	Physica Scripta	96	3		
887	Munir T., Mahmood A., Ahmad N., Atif M., Alimgeer K.S., Fatehmulla A., Hanif A., Yaqub N., Farooq W.A., Ahmad S., Chu Y.-M., Ahmad H.	Structural, electrical and optical properties of Zn _{1-x} Cu _x O (x = 0.00–0.09) nanoparticles	2021	Journal of King Saud University - Science	33	2		
888	Shahzad M.M., Bashir S., Hussain S.M., Javid A., Hussain M., Ahmed N., Khan M.K.A., Furqan M., Liaqat I., Rafique T., Khalid F.	Effectiveness of phytase pre-treatment on growth performance, nutrient digestibility and mineral status of common carp (Cyprinus carpio) juveniles fed Moringa by- product based diet	2021	Saudi Journal of Biological Sciences	28	3	1944	1953

889	Khera E.A., Ullah H., Imran M., Niaz N.A., Hussain F., Khalil R.M.A., Resheed U., Rana A.M., Hussain M.I., Mahata C., Kim S.	ab initio study of oxygen vacancy effects on structural, electronic and thermoelectric behavior of AZr _{1-x} M _x O ₃ (A = Ba, Ca, Sr; M= Al, Cu, x = 0.25) for application of memory devices	2021	Journal of Molecular Graphics and Modelling	103			
890	Sohail A., Ahmed R., Yu C.	Switchable and Enhanced Absorption via Qubit-Mechanical Nonlinear Interaction in a Hybrid Optomechanical System	2021	International Journal of Theoretical Physics	60	3	739	753
891	Baig M.M.F.A., Zhang C., Akhtar M.F., Saleem A., Nisar N.	Treatment of Wilms's™ nephroblastoma cancer cells via EGFR targeting of dactinomycin loaded DNA-nanowires	2021	Journal of Pharmaceutical Investigation	51	2	233	242
892	Saleem F., Zeng X., Hina S., Omer A.	Regional changes in extreme temperature records over Pakistan and their relation to Pacific variability	2021	Atmospheric Research	250			
893	Sikandar S., Zahoor A.F.	Synthesis of pyrano[2,3-c]pyrazoles: A review	2021	Journal of Heterocyclic Chemistry	58	3	685	705

894	Qayyum M.F., Haider G., Iqbal M., Hameed S., Ahmad N., Rehman M.Z.U., Majeed A., Rizwan M., Ali S.	Effect of alkaline and chemically engineered biochar on soil properties and phosphorus bioavailability in maize	2021	Chemosphere	266			
895	Usman M., Hammar N.	Dynamic relationship between technological innovations, financial development, renewable energy, and ecological footprint: fresh insights based on the STIRPAT model for Asia Pacific Economic Cooperation countries	2021	Environmental Science and Pollution Research	28	12	15519	15536
896	Bashir R., Riaz H.N., Anwar S., Parveen N., Khalilzadeh R., Hussain I., Mahmood S.	Morpho-physiological changes in carrots by foliar $\hat{I}^3$ -aminobutyric acid under drought stress	2021	Revista Brasileira de Botanica	44	1	57	68
897	Rehman M., Saleem M.H., Fahad S., Maqbool Z., Peng D., Deng G., Liu L.	Medium nitrogen optimized Boehmeria nivea L. growth in copper contaminated soil	2021	Chemosphere	266			
898	Asif M., Khan M.A., Atiq S., Alshahrani T., Mahmood Q., Kattan N.A., Manzoor A.	Evolution of structure and improvement in dielectric properties of praseodymium substituted YFeO3 nanomaterials synthesized via a sol-gel auto-combustion method	2021	Ceramics International	47	5	6663	6674
899	Riaz M., Kamran M., Fang Y., Yang G., Rizwan M., Ali S., Zhou Y., Wang Q., Deng L., Wang Y.,	Boron supply alleviates cadmium toxicity in rice (Oryza sativa L.) by enhancing cadmium adsorption on cell wall and triggering antioxidant defense system in roots	2021	Chemosphere	266			

	Wang X.							
900	Khan I., Awan S.A., Raza M.A., Rizwan M., Tariq R., Ali S., Huang L.	Silver nanoparticles improved the plant growth and reduced the sodium and chlorine accumulation in pearl millet: a life cycle study	2021	Environmental Science and Pollution Research	28	11	13712	13724
901	Farhan M., Wajid A., Hussain T., Jabeen F., Ishaque U., Iftikhar M., Daim M.A., Noreen A.	Investigation of oxidative stress enzymes and histological alterations in tilapia exposed to chlorpyrifos	2021	Environmental Science and Pollution Research	28	11	13105	13111
902	Rasool N., Kanwal Q., Waseem M., Mehrunnisa, Khan M.I.	Analytical method development and determination of hydrocortisone acetate and fusidic acid simultaneously in cream formulation, by reversed-phase HPLC	2021	Biomedical Chromatography	35	3		
903	Iqbal S.Z., Mumtaz A., Mahmood Z., Waqas M., Ghaffar A., Ismail A., Pervaiz W.	Assessment of aflatoxins and ochratoxin a in chili sauce samples and estimation of dietary intake	2021	Food Control	121			

904	Azam K., Akhtar S., Gong Y.Y., Routledge M.N., Ismail A., Oliveira C.A.F., Iqbal S.Z., Ali H.	Evaluation of the impact of activated carbon-based filtration system on the concentration of aflatoxins and selected heavy metals in roasted coffee	2021	Food Control	121			
905	Abid M., Mei S., Nazir H.Z., Riaz M., Hussain S.	A mixed HWMA-CUSUM mean chart with an application to manufacturing process	2021	Quality and Reliability Engineering International	37	2	618	631
906	Ijaz M.U., Tahir A., Samad A., Anwar H.	Nobiletin ameliorates nonylphenol-induced testicular damage by improving biochemical, steroidogenic, hormonal, spermatogenic, apoptotic and histological profile	2021	Human and Experimental Toxicology	40	3	403	416
907	Janjua M.R.S.A., Khan M.U., Khalid M., Ullah N., Kalgaonkar R., Alnoaimi K., Baqader N., Jamil S.	Theoretical and Conceptual Framework to Design Efficient Dye-Sensitized Solar Cells (DSSCs): Molecular Engineering by DFT Method	2021	Journal of Cluster Science	32	2	243	253
908	Nazir A., Zahra F., Sabri M.U., Ghaffar A., Ather A.Q., Khan M.I., Iqbal M.	Charcoal prepared from Bougainvillea spectabilis leaves as low cost adsorbent: Kinetic and equilibrium studies for removal of iron from aqueous solution	2021	Zeitschrift fur Physikalische Chemie	235	3	265	279
909	Saeed M., Ibrahim M., Muneer M., Akram N., Usman M., Maqbool I., Adeel M., Nisar A.	ZnO–TiO ₂ : Synthesis, characterization and evaluation of photo catalytic activity towards degradation of methyl orange	2021	Zeitschrift fur Physikalische Chemie	235	3	225	237

910	Shahzad M.A., Jun D., Noor G., Zubair A.	Causation of halal food consumption in China	2021	Journal of Islamic Marketing	12	2	249	263
911	Shafique F., Ali Q., Sana K., Rafiq T., Naureen U., Afzal K., Saifullah, Mokul R., Bhatti T.Y.	Comparative study of zeamays under different abiotic stresses	2021	Plant Cell Biotechnology and Molecular Biology	22	45545	71	84
912	Hameed A., Farooq T., Hameed A., Sheikh M.A.	Silicon-Mediated Priming Induces Acclimation to Mild Water- Deficit Stress by Altering Physio-Biochemical Attributes in Wheat Plants	2021	Frontiers in Plant Science	12			
913	Mahmood F., Dongping H., Ahmed Z., Shahzad U., Ali N., Bodian W., Shahbaz M.	Exploring the relationship between short-term borrowings and profitability in China: The moderating role of cash conversion cycle	2021	Journal of Business Economics and Management	22	3	675	694
914	Shafique I., Qammar A., Kalyar M.N., Ahmad B., Mushtaq A.	Workplace ostracism and deviant behaviour among nurses: a parallel mediation model	2021	Journal of Asia Business Studies	15	1	50	71

915	Bibi I., Maqbool H., Iqbal S., Majid F., Kamal S., Alwadai N., Iqbal M.	La1-xGdxCr1-yNiyO3 perovskite nanoparticles synthesis by micro-emulsion route: Dielectric, magnetic and photocatalytic properties evaluation	2021	Ceramics International	47	4	5822	5831
916	Manzoor A., Khan M.A., Alshahrani T., Alhossainy M.H., Sharif M., Munir T., Arshad M.I., Iqbal M.A.	Effect of Ho3+ ions on microwave losses and high-temperature electrical behavior of Li-based magnetic oxides	2021	Ceramics International	47	4	4633	4642
917	Mir Z., Rasheed A., Khan A.A., Asif M., Jamil M.	Streaming effects on dust ion acoustic wave in dense quantized plasmas	2021	International Journal of Modern Physics B	35	4		
918	Jacob J., Rehman U., Mahmood K., Ali A., Ashfaq A., Amin N., Ikram S., Alzaid M., Mehboob K.	Simultaneous enhancement of Seebeck coefficient and electrical conductivity in ZnSnO by the engineering of grain boundaries using post annealing	2021	Physics Letters, Section A: General, Atomic and Solid State Physics	388			
919	Nawaz H., Umar M., Ullah A., Razzaq H., Zia K.M., Liu X.	Polyvinylidene fluoride nanocomposite super hydrophilic membrane integrated with Polyaniline-Graphene oxide nano fillers for treatment of textile effluents	2021	Journal of Hazardous Materials	403			
920	Qarni A., Billah M., Hussain K., Shah S.H., Ahmed W., Alam S.,	Isolation and characterization of phosphate solubilizing microbes from rock phosphate mines and their potential	2021	Sustainability (Switzerland)	13	4	1	15

	Sheikh A.A., Jafri L., Munir A., Malik K.M., Khan N.	effect for sustainable agriculture						
921	Nadeem A.M., Ali T., Wei W., Cui Q., Huang S.	Can irrigation conditions improve farmersâ€™ subjective wellbeing? An investigation in rural Pakistan	2021	Water (Switzerland)	13	4		
922	Rehman R.A., Qayyum M.F., Haider G., Schofield K., Abid M., Rizwan M., Ali S.	The sewage sludge biochar and its composts influence the phosphate sorption in an alkaline-calcareous soil	2021	Sustainability (Switzerland)	13	4	1	12
923	Hayyat M.U., Nawaz R., Siddiq Z., Shakoor M.B., Mushtaq M., Ahmad S.R., Ali S., Hussain A., Irshad M.A., Alsahli A.A., Alyemeni M.N.	Investigation of lithium application and effect of organic matter on soil health	2021	Sustainability (Switzerland)	13	4	1	15
924	Iftikhar M., Noreen A., Uzair M., Jabeen F., Daim M.A., Cappello T.	Perspectives of nanoparticles in male infertility: Evidence for induced abnormalities in Sperm production	2021	International Journal of Environmental Research and Public Health	18	4	1	19

925	Mehmood I., Ijaz M., Ahmad S., Ahmed T., Bari A., Abro A., Allemailem K.S., Almatroudi A., Ul Qamar M.T.	Sars-cov-2: An update on genomics, risk assessment, potential therapeutics and vaccine development	2021	International Journal of Environmental Research and Public Health	18	4	1	24
926	Zulfiqar M., Yousaf M.U., Islam M.R., Ghafoor S.	Family firms propensity to lean innovation in the emerging economy: a moderating role of executive's compensation	2021	Journal of Family Business Management	11	1	32	50
927	Khadimallah M.A., Hussain M., Naeem M.N., Taj M., Tounsi A.	Monitoring and control of multiple fraction laws with ring based composite structure	2021	Advances in Nano Research	10	2	129	138
928	Khadimallah M.A., Hussain M., Taj M., Ayed H., Tounsi A.	Parametric vibration analysis of single-walled carbon nanotubes based on Sanders shell theory	2021	Advances in Nano Research	10	2	165	174
929	Kazmi A., Abbas G., Khurshid A., Shah S., Mallhi T.H., Hanif M., Saleem U., Shah A., Riaz N.	A comparison of intravenous midazolam and diazepam in management of status epilepticus in children	2021	Journal of the Pakistan Medical Association	71	2 B	640	644

930	Zulqernain A., Imtiaz M., Ahmed S., Mubeen A., Arshad M., Safdar A.L.I., Saleem M., Makhdoom H.M., Shahzad A., Zulqernain F., Ahmad U.	Effects of increased workload on sleep and rest states in house officers	2021	Pakistan Journal of Medical and Health Sciences	15	2	245	247
931	Naveed R., Siddique A.B., Hussain I., Ulhaq M., Aslam B., Mahmood M.S.	Antimicrobial activity of bioactive components of essential oils from Citrus sinensis against important pathogens	2021	International Food Research Journal	28	1	189	198
932	Qurashi M.A., Rashid S., Sultana S., Ahmad H., Gepreel K.A.	New formulation for discrete dynamical type inequalities via δ h δ -discrete fractional operator pertaining to nonsingular kernel	2021	Mathematical Biosciences and Engineering	18	2	1794	1812
933	Riaz M., Abbas Z., Nazir H.Z., Abid M.	On the development of triple homogeneously weighted moving average control chart	2021	Symmetry	13	2	1	21
934	Mubarik A., Rasool N., Hashmi M.A., Mansha A., Zubair M., Shaik M.R., Sharaf M.A.F., Awwad E.M., Abdelgawad A.	Computational study of structural, molecular orbitals, optical and thermodynamic parameters of thiophene sulfonamide derivatives	2021	Crystals	11	2	1	14

935	Khan M., Janjua N.K., Khan S., Qazi I., Ali S., Algarni T.S.	Electro-oxidation of ammonia at novel $\text{Ag}_2\text{O}/\text{TiO}_2/\text{Al}_2\text{O}_3$ catalysts	2021	Coatings	11	2	1	20
936	Cui K., Zhang Y., Fu T., Hussain S., Algarni T.S., Wang J., Zhang X., Ali S.	Effects of Cr_2O_3 content on microstructure and mechanical properties of Al_2O_3 matrix composites	2021	Coatings	11	2	1	17
937	Shabbir U., Arshad M.S., Sameen A., Oh D.-H.	Crosstalk between gut and brain in Alzheimer's disease: The role of gut microbiota modulation strategies	2021	Nutrients	13	2	1	23
938	Abbas S., Javed M.T., Ali Q., Akram M.S., Tanwir K., Ali S., Chaudhary H.J., Iqbal N.	Elucidating Cd-mediated distinct rhizospheric and in planta ionic and physio-biochemical responses of two contrasting Zea mays L. cultivars	2021	Physiology and Molecular Biology of Plants	27	2	297	312
939	Akhtar N., Awan M.U., Javed M.Z., Rassias M.Th., Mihai M.V., Noor M.A., Noor K.I.	Ostrowski type inequalities involving harmonically convex functions and applications	2021	Symmetry	13	2	1	23

940	Ghaffar A., Kiran S., Rafique M.A., Iqbal S., Nosheen S., Hou Y., Afzal G., Bashir M., Aimun U.	Citrus paradisi fruit peel extract mediated green synthesis of copper nanoparticles for remediation of disperse yellow 125 dye	2021	Desalination and Water Treatment	212		368	375
941	Ashfaq U.A., Saleem S., Masoud M.S., Ahmad M., Nahid N., Bhatti R., Almatroudi A., Khurshid M.	Rational design of multi epitope-based subunit vaccine by exploring MERS-COV proteome: Reverse vaccinology and molecular docking approach	2021	PLoS ONE	16	45324		
942	Khalil U., Shakoor M.B., Ali S., Ahmad S.R., Rizwan M., Alsahli A.A., Alyemeni M.N.	Selective removal of hexavalent chromium from wastewater by rice husk: Kinetic, isotherm and spectroscopic investigation	2021	Water (Switzerland)	13	3		
943	Nazeer M.	Numerical and perturbation solutions of cross flow of an Eyring-Powell fluid	2021	SN Applied Sciences	3	2		
944	Ali Q., Ahmar S., Sohail M.A., Kamran M., Ali M., Saleem M.H., Rizwan M., Ahmed A.M., Mora-Poblete F., do Amaral JÃºnior A.T., Mubeen M.,	Research advances and applications of biosensing technology for the diagnosis of pathogens in sustainable agriculture	2021	Environmental Science and Pollution Research	28	8	9002	9019

	Ali S.							
945	Waseem L.A., Khokhar M.A.H., Naqvi S.A.A., Hussain D., Javed Z.H., Awan H.B.H.	Influence of urban sprawl on microclimate of abbottabad, pakistan	2021	Land	10	2	1	22
946	Shahzad F., Du J., Khan I., Ahmad Z., Shahbaz M.	Untying the precise impact of covid-19 policy on social distancing behavior	2021	International Journal of Environmental Research and Public Health	18	3	1	12
947	Muzaffar H., Faisal M.N., Anwar H., Hussain A., Khan J.A., Muhammad F., Aslam B., Mahmood A., Abdelsadik A., Aslam J., Manzoor M.F., Ahmad N., Karrar E.	Fish protein intake is a novel dietary approach for managing diabetes-associated complications in diabetic Wistar rat model	2021	Food Science and Nutrition	9	2	1017	1024
948	Habib A., Riaz S., Ahmad I., Najaf Iqbal D., Kamal S.	C-Ni bond functionalization in the reaction of binuclear cyclometallated Ni(II) complexes with chlorophosphines	2021	Journal of Saudi Chemical Society	25	2		

949	Waseem M., Akhtar S., Manzoor M.F., Mirani A.A., Ali Z., Ismail T., Ahmad N., Karrar E.	Nutritional characterization and food value addition properties of dehydrated spinach powder	2021	Food Science and Nutrition	9	2	1213	1221
950	Asif Q.A., Hussain A., Nabi A., Tayyab M., Rafique H.M.	Computational study of X-doped hexagonal boron nitride (h- BN): structural and electronic properties (X = P, S, O, F, Cl)	2021	Journal of Molecular Modeling	27	2		
951	Iqbal M.M., Imran M., Hussain T., Naeem M.A., Al-Kahtani A.A., Shah G.M., Ahmad S., Farooq A., Rizwan M., Majeed A., Khan A.R., Ali S.	Effective sequestration of Congo red dye with ZnO/cotton stalks biochar nanocomposite: MODELING, reusability and stability	2021	Journal of Saudi Chemical Society	25	2		
952	Kashif M., Jaafar E., Bhadja P., Wah Low F., Kudnie Sahari S., Hussain S., Kai Loong F., Ahmad A., Saad AlGarni T., Shafa M., Asghar H., Al-Tamrah S.A.	Effect of potassium permanganate on morphological, structural and electro-optical properties of graphene oxide thin films	2021	Arabian Journal of Chemistry	14	2		
953	Ahmad M.S., Liu C.-G., Nawaz M., Tawab A., Shen X., Shen B., Mehmood M.A.	Elucidating the pyrolysis reaction mechanism of Calotropis procera and analysis of pyrolysis products to evaluate its potential for bioenergy and chemicals	2021	Bioresource Technology	322			

954	Ahmed T., Noman M., Manzoor N., Shahid M., Abdullah M., Ali L., Wang G., Hashem A., Al-Arjani A.-B.F., Alqarawi A.A., Abd_Allah E.F., Li B.	Nanoparticle-based amelioration of drought stress and cadmium toxicity in rice via triggering the stress responsive genetic mechanisms and nutrient acquisition	2021	Ecotoxicology and Environmental Safety	209			
955	Sultana H., Bokhari T.H., Usman M.	Adsorptive micellar flocculation (surfactant-based phase separation technique): Theory and applications	2021	Journal of Molecular Liquids	323			
956	Shahzad A., Kashif M., Munir T., Martib M.-U.-N., Perveen A., He M., Bashir S.	Calculations of uniaxial tensile strength of Alâ€“Cuâ€“Ni based metallic glasses using molecular dynamics simulations	2021	Physica B: Condensed Matter	602			
957	Siddique M., Fayaz N., Saeed M.	Synthesis, characterization, photocatalytic activity and gas sensing properties of zinc doped manganese oxide nanoparticles	2021	Physica B: Condensed Matter	602			
958	Nazeer M., Hussain F., Ahmad M.O., Saeed S., Khan M.I., Kadry S., Chu Y.-M.	Multi-phase flow of Jeffrey Fluid bounded within magnetized horizontal surface	2021	Surfaces and Interfaces	22			

959	Shafique T., Shafique J., Zahid S., Kazi M., Alnemer O., Ahmad A.	Screening, selection and development of Bacillus subtilis apr-IBL04 for hyper production of macromolecule alkaline protease	2021	Saudi Journal of Biological Sciences	28	2	1494	1501
960	Iqbal M.M., Imran M., Ali B., Nawaz M., Siddique M.H., Al-Kahtani A.A., Hussain K., Murtaza B., Shah N.S., Khan Z.U.H., Rizwan M., Ali S.	Nanocomposites of sedimentary material with ZnO and magnetite for the effective sequestration of arsenic from aqueous systems: Reusability, modeling and kinetics	2021	Environmental Technology and Innovation	21			
961	Naheed S., Zuber M., Barikani M., Salman M.	Molecular engineering and morphology of polyurethane elastomers containing various molecular weight of macrodiol	2021	Materials Science and Engineering: B	264			
962	Shan A., Idrees A., Zaman W.Q., Abbas Z., Ali M., Rehman M.S.U., Hussain S., Danish M., Gu X., Lyu S.	Synthesis of nZVI-Ni@BC composite as a stable catalyst to activate persulfate: Trichloroethylene degradation and insight mechanism	2021	Journal of Environmental Chemical Engineering	9	1		
963	Maqbool J., Anwar H., Iqbal J., Rasul A., Imran A., Ahmad Malik S., Shabbir A., Ijaz F., Sajid F., Akram R., Sun T., Imran M., Hussain G.,	Methanolic extract of Fennel (Foeniculum vulgare) escalates functional restoration following a compression injury to the sciatic nerve in a mouse model	2021	Food Science and Nutrition	9	2	701	710

	Islam S.							
964	Shaukat A., Anwar H., Mahmood A., Hussain G., Rasul A., Ijaz M.U., Faisal M.N., Ibrahim M., Ali A.	Synthesis cum characterization of MgO and MnO nanoparticles and their assessment as antidiabetic and antioxidative agents in diabetic rat model	2021	Physica B: Condensed Matter	602			
965	Munawar T., Nadeem M.S., Mukhtar F., Azhar A., Hasan M., Mahmood K., Hussain A., Ali A., Arshad M.I., Ajaz un Nabi M., Iqbal F.	Synthesis, characterization, and antibacterial study of novel Mg _{0.9} Cr _{0.05} Mn _{0.05} O (M = Co, Ag, Ni) nanocrystals	2021	Physica B: Condensed Matter	602			
966	Ashfaq A., Jacob J., Mahmood K., Mehboob K., Ikram S., Ali A., Amin N., Hussain S., Rehman U.	Effect of sulfur amount during post-growth sulfurization process on the structural, morphological and thermoelectric properties of sol-gel grown quaternary chalcogenide Cu ₂ ZnSnS ₄ thin films	2021	Physica B: Condensed Matter	602			
967	Munir T., Mahmood A., Imran M., Sohail A., Fakhar-e-Alam M., Sharif M., Masood T., Bajwa S.Z., Shafiq F., Latif S.	Quantitative analysis of glucose by using (PVP and MA) capped silver nanoparticles for biosensing applications	2021	Physica B: Condensed Matter	602			

968	Shahbaz M., Gao C., Zhai L., Shahzad F., Khan I.	Environmental air pollution management system: Predicting user adoption behavior of big data analytics	2021	Technology in Society	64			
969	Ali I., Qi S., Shi P., Ammar M., Ali A.	Investigation of mass distribution between core and face sheet on bending energy absorption of self-reinforced PP sandwich beams	2021	Thin-Walled Structures	159			
970	Aslam A., Morley N.A., Amin N., Arshad M.I., Ajaz un Nabi M., Ali A., Mahmood K., Bibi A., Iqbal F., Hussain S., Jamil Y.	Study of structural, optical and electrical properties of La ₃ +doped Mg _{0.25} Ni _{0.15} Cu _{0.25} Co _{0.35} Fe _{2-x} La _x O ₄ spinel ferrites	2021	Physica B: Condensed Matter	602			
971	Rubbab Q., Nazeer M., Ahmad F., Chu Y.-M., Ijaz Khan M., Kadry S.	Numerical simulation of advectionâ€”diffusion equation with caputo-fabrizio time fractional derivative in cylindrical domains: Applications of pseudo-spectral collocation method	2021	Alexandria Engineering Journal	60	1	1731	1738
972	Junaid M., Jacob J., Nadeem M., Jabbar N., Khan M.A., Manzoor A., Chughtai A.H., Ali A., Mahmood K., Hussain S.	Structural elucidation and dielectric behavior evaluation of Dyâ€”Ni substituted manganese ferrites	2021	Physica B: Condensed Matter	602			

973	Usman M., Makhdum M.S.A., Kousar R.	Does financial inclusion, renewable and non-renewable energy utilization accelerate ecological footprints and economic growth? Fresh evidence from 15 highest emitting countries	2021	Sustainable Cities and Society	65			
974	Mukhtar A., Ullah S., Inayat A., Saqib S., Mellon N.B., Assiri M.A., Al-Sehemi A.G., Khan Niazi M.B., Jahan Z., Bustam M.A., Ibrahim M.	Synthesis-structure-property relationship of nitrogen-doped porous covalent triazine frameworks for pre-combustion CO2 capture	2021	Energy	216			
975	Sajid M., Ali N., Dar S.H., Zafar B., Iqbal M.K.	Short search space and synthesized-reference re-ranking for face image retrieval	2021	Applied Soft Computing	99			
976	Yasin S., Kamal S., Suhail M.	Performance of Some New Ridge Parameters in Two-Parameter Ridge Regression Model	2021	Iranian Journal of Science and Technology, Transaction A: Science	45	1	327	341
977	Saqib M., Ali S.S., Zulqarnain M., Qadri M.U., Riaz M., Hasan M.S., Khan M.I., Tahir M., Arshad M.I., Rani H.S.	Temperature-Dependent Variations in Structural, Magnetic, and Optical Behavior of Doped Ferrites Nanoparticles	2021	Journal of Superconductivity and Novel Magnetism	34	2	609	616

978	Arshad M.I., Akram A., Hussain K., Umaid-ur-Rehman, Mahmood K., Iqbal F., Amin N., Arshad S., Sabir N., Ajaz-un-Nabi M.	Investigation of Structural, Optical, and Dielectric Properties of Co _{0.5} Cd _{0.5} -xCu _x Fe _{1.95} Ce _{0.05} O ₄ Nanoferrites	2021	Journal of Superconductivity and Novel Magnetism	34	2	589	596
979	Khalid A., Ghaffar A., Naeem M.N., Nisar K.S., Baleanu D.	Solutions of BVPs arising in hydrodynamic and magnetohydro-dynamic stability theory using polynomial and non-polynomial splines	2021	Alexandria Engineering Journal	60	1	941	953
980	Zhang M., Asghar S., Tian C., Hu Z., Ping Q., Chen Z., Shao F., Xiao Y.	Lactoferrin/phenylboronic acid-functionalized hyaluronic acid nanogels loading doxorubicin hydrochloride for targeting glioma	2021	Carbohydrate Polymers	253			
981	Sadiq Hashmi M., Khan N., Ullah Khan S., Ijaz Khan M., Khan N.B., Nazeer M., Kadry S., Chu Y.-M.	Dynamics of coupled reacted flow of Oldroyd-B material induced by isothermal/exothermal stretched disks with Joule heating, viscous dissipation and magnetic dipoles	2021	Alexandria Engineering Journal	60	1	767	783
982	Khalid N., Aqeel M., Noman A., Hashem M., Mostafa Y.S., Alhaithloul H.A.S., Alghanem S.M.	Linking effects of microplastics to ecological impacts in marine environments	2021	Chemosphere	264			

983	Shahid A., Malik S., Liu C.-G., Musharraf S.G., Siddiqui A.J., Khan F., Tarbiah N.I., Gull M., Rashid U., Mehmood M.A.	Characterization of a newly isolated cyanobacterium <i>Plectonema terebrans</i> for biotransformation of the wastewater-derived nutrients to biofuel and high-value bioproducts	2021	Journal of Water Process Engineering	39			
984	Hamza M., Ayoub M., Shamsuddin R.B., Mukhtar A., Saqib S., Zahid I., Ameen M., Ullah S., Al-Sehemi A.G., Ibrahim M.	A review on the waste biomass derived catalysts for biodiesel production	2021	Environmental Technology and Innovation	21			
985	Munawar T., Nadeem M.S., Mukhtar F., Hasan M., Mahmood K., Arshad M.I., Hussain A., Ali A., Saif M.S., Iqbal F.	Rare earth metal co-doped $\text{ZnO} \cdot 9\text{La}_{0.05}\text{M}_{0.05}\text{O}$ (M = Yb, Sm, Nd) nanocrystals; energy gap tailoring, structural, photocatalytic and antibacterial studies	2021	Materials Science in Semiconductor Processing	122			
986	Xiong P., He P., Qu Y., Wang L., Cao Y., Xu S., Chen J., Ammar M., Li H.	The adsorption properties of NaY zeolite for separation of ethylene glycol and 1,2-butanediol: Experiment and molecular modelling	2021	Green Energy and Environment	6	1	102	113

987	Riaz M., Abbas Z., Nazir H.Z., Akhtar N., Abid M.	On Designing a Progressive EWMA Structure for an Efficient Monitoring of Silicate Enactment in Hard Bake Processes	2021	Arabian Journal for Science and Engineering	46	2	1743	1760
988	Khalid K., Usman M., Mehdi M.A.	The determinants of environmental quality in the SAARC region: a spatial heterogeneous panel data approach	2021	Environmental Science and Pollution Research	28	6	6422	6436
989	Yeni D.K., BÃ¼yÃ¼k F., Ashraf A., Shah M.S.D.	Tularemia: a re-emerging tick-borne infectious disease	2021	Folia Microbiologica	66	1		
990	Hussain K., Amin N., Arshad M.I.	Evaluation of structural, optical, dielectric, electrical, and magnetic properties of Ce ³⁺ doped Cu _{0.5} Cd _{0.25} Co _{0.25} Fe ₂ -xO ₄ spinel nano-ferrites	2021	Ceramics International	47	3	3401	3410
991	Rahbari A., Fatemi H., Esmail Pour B., Rizwan M., Soltani A.-A.	Lead (Pb)-resistant bacteria inhibit Pb accumulation in dill (Anethum graveolens L.) by improving biochemical, physiological, and antioxidant enzyme response of plants	2021	Environmental Science and Pollution Research	28	5	5704	5713

992	Salehi B., Abu-Reidah I.M., Sharopov F., Karazhan N., Sharifi-Rad J., Akram M., Daniyal M., Khan F.S., Abbaass W., Zainab R., Carbone K., Fahmy N.M., Al-Sayed E., El-Shazly M., Lucarini M., Durazzo A., Santini A., Martorell M., Pezzani R.	Vicia plantsâ€™A comprehensive review on chemical composition and phytopharmacology	2021	Phytotherapy Research	35	2	790	809
993	Shahzad M.A., Ahmad N., Ismail T., Manzoor M.F., Ismail A., Ahmed N., Akhtar S.	Nutritional composition and quality characterization of lotus (Nelumbo nucifera Gaertn.) seed flour supplemented cookies	2021	Journal of Food Measurement and Characterization	15	1	181	188
994	Riaz M., Abid M., Abbas Z., Nazir H.Z.	An enhanced approach for the progressive mean control charts: A discussion and comparative analysis	2021	Quality and Reliability Engineering International	37	1	1	9
995	Saddique M.W., Haroon S.S., Amin S., Bhatti A.R., Sajjad I.A., Liaqat R.	Optimal Placement and Sizing of Shunt Capacitors in Radial Distribution System Using Polar Bear Optimization Algorithm	2021	Arabian Journal for Science and Engineering	46	2	873	899

996	Saleem M., Asif M., Parveen A., Yaseen H.S., Saadullah M., Bashir A., Asif J., Arif M., Khan I.U., Khan R.U.	Investigation of in vivo anti-inflammatory and anti-angiogenic attributes of coumarin-rich ethanolic extract of <i>Melilotus indicus</i>	2021	Inflammopharmacology	29	1	281	293
997	Nasir M., Tahir-Nadeem M., Saeed F., Ahmad T., Imran M.	Assessment of renal and hepato-protective potential of guava leaves in male Sprague dawley rats	2021	Cellular and Molecular Biology	67	1	142	146
998	Kashif M., Imran A., Saeed F., Chatha S.A.S., Arshad M.U.	Catechins, theaflavins and ginger freeze-dried extract based functional drink significantly mitigate the hepatic, diabetic and lipid abnormalities in rat model	2021	Cellular and Molecular Biology	67	1	132	141
999	Ali S.M., Imran A., Arshad M.U., Ahmed R.S., Imran M.	Physicochemical, antioxidant and enzymes activities of grape fruit peel and pomace enriched functional drinks	2021	Cellular and Molecular Biology	67	1	125	131
1000	Ahmed T., Noman M., Luo J., Muhammad S., Shahid M., Ali M.A., Zhang M., Li B.	Bioengineered chitosan-magnesium nanocomposite: A novel agricultural antimicrobial agent against <i>Acidovorax oryzae</i> and <i>Rhizoctonia solani</i> for sustainable rice production	2021	International Journal of Biological Macromolecules	168		834	845
1001	Humayun F., Khan F., Fawad N., Shamas S., Fazal S., Khan A., Ali A., Farhan A., Wei D.-Q.	Computational Method for Classification of Avian Influenza A Virus Using DNA Sequence Information and Physicochemical Properties	2021	Frontiers in Genetics	12			

1002	Shafique F., Ali Q., Saleem M.Z., Bhatti T.Y., Zikrea A., Saifullah, Akhter S., Malik A.	Effect of manganese and chromium toxicity on growth and photosynthetic pigments of maize	2021	Plant Cell Biotechnology and Molecular Biology	22	1	58	64
1003	Uddin M.S., Rahman M.M., Sufian M.A., Jeandet P., Ashraf G.M., Bin-Jumah M.N., Mousa S.A., Abdel-Daim M.M., Akhtar M.F., Saleem A., Amran M.S.	Exploring the New Horizon of AdipoQ in Obesity-Related Alzheimerâ€™s Dementia	2021	Frontiers in Physiology	11			
1004	Nazir T., Abbas M., Iqbal M.K.	New cubic B-spline approximation technique for numerical solutions of coupled viscous Burgers equations	2021	Engineering Computations (Swansea, Wales)	38	1	83	106
1005	Adeel M., Khalid M., Ullah M.A., Muhammad S., Khan M.U., Tahir M.N., Khan I., Asghar M., Mughal K.S.	Exploration of CH ₃ F & CF ₃ H mediated supramolecular arrangements into fluorinated terphenyls and theoretical prediction of their third-order nonlinear optical response	2021	RSC Advances	11	14	7766	7778
1006	Adeel M., Saeed M., Khan I., Muneer M., Akram N.	Synthesis and Characterization of Co-ZnO and Evaluation of Its Photocatalytic Activity for Photodegradation of Methyl Orange	2021	ACS Omega	6	2	1426	1435

1007	Salehi B., Quispe C., Chamkhi I., El Omari N., Balahbib A., Sharifi-Rad J., Bouyahya A., Akram M., Iqbal M., Docea A.O., Caruntu C., Leyva-Gómez G., Dey A., Martorell M., Calina D., López V., Les F.	Pharmacological Properties of Chalcones: A Review of Preclinical Including Molecular Mechanisms and Clinical Evidence	2021	Frontiers in Pharmacology	11			
1008	Naeem I., Masood N., Turan V., Iqbal M.	Prospective usage of magnesium potassium phosphate cement combined with Bougainvillea alba derived biochar to reduce Pb bioavailability in soil and its uptake by Spinacia oleracea L	2021	Ecotoxicology and Environmental Safety	208			
1009	Adrees M., Khan Z.S., Hafeez M., Rizwan M., Hussain K., Asrar M., Alyemeni M.N., Wijaya L., Ali S.	Foliar exposure of zinc oxide nanoparticles improved the growth of wheat (Triticum aestivum L.) and decreased cadmium concentration in grains under simultaneous Cd and water deficient stress	2021	Ecotoxicology and Environmental Safety	208			
1010	Petritsch M., Seebacher W., Mohsin N.-U.-A., Dolensky J., Hochegger P., Kaiser M., Mäxser P., Belaj F., Saf R., Kretschmer N., Alajlani M., Brantner A., Bauer R., Schölly W., Weis R.	Preparation of new 1,3-dibenzyl tetrahydropyridinylidene ammonium salts and their antimicrobial and anticellular activities	2021	European Journal of Medicinal Chemistry	210			

1011	Adeel-Farooq R.M., Riaz M.F., Ali T.	Improving the environment begins at home: Revisiting the links between FDI and environment	2021	Energy	215			
1012	Khan M.I., Fatima N., Shakil M., Tahir M.B., Riaz K.N., Rafique M., Iqbal T., Mahmood K.	Investigation of in-vitro antibacterial and seed germination properties of green synthesized pure and nickel doped ZnO nanoparticles	2021	Physica B: Condensed Matter	601			
1013	Tanwir K., Javed M.T., Abbas S., Shahid M., Akram M.S., Chaudhary H.J., Iqbal M.	Serratia sp. CP-13 alleviates Cd toxicity by morpho-physio-biochemical improvements, antioxidative potential and diminished Cd uptake in Zea mays L. cultivars differing in Cd tolerance	2021	Ecotoxicology and Environmental Safety	208			
1014	Majid F., Rauf J., Ata S., Bibi I., Malik A., Ibrahim S.M., Ali A., Iqbal M.	Synthesis and characterization of NiFe ₂ O ₄ ferrite: Sol-gel and hydrothermal synthesis routes effect on magnetic, structural and dielectric characteristics	2021	Materials Chemistry and Physics	258			
1015	Hafeez M., Siddique Saleemi A., Ur Rehman S., Adrees M., Mehmood S., Mir I.A., Zhu L.	CVD growth of layered Cr ₂ O ₃ hexagonal flakes for optoelectronic applications	2021	Applied Surface Science	536			

1016	Khan M.U., Hussain R., Mehboob M.Y., Khalid M., Ehsan M.A., Rehman A., Janjua M.R.S.A.	First theoretical framework of Z-shaped acceptor materials with fused-chrysene core for high performance organic solar cells	2021	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	245			
1017	Bakkar M.A., Nawaz H., Majeed M.I., Naseem A., Ditta A., Rashid N., Ali S., Bajwa J., Bashir S., Ahmad S., Hyat H., Bukhari K.S., Bonnier F.	Raman spectroscopy for the qualitative and quantitative analysis of solid dosage forms of Sitagliptin	2021	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	245			
1018	Guellil M., Saidi H., Bourada F., Bousahla A.A., Tounsi A., Al-Zahrani M.M., Hussain M., Mahmoud S.R.	Influences of porosity distributions and boundary conditions on mechanical bending response of functionally graded plates resting on Pasternak foundation	2021	Steel and Composite Structures	38	1	1	15
1019	Iqbal W., Jalil M., Khadimallah M.A., Hussain M., Naeem M.N., Al Naim A.F., Mahmoud S.R., Tounsi A.	Flow of casson nanofluid along permeable exponentially stretching cylinder: Variation of mass concentration profile	2021	Steel and Composite Structures	38	1	33	45
1020	Saleem M.A., Pei L., Saleem M.F., Shahid S., Wang J.	Sustainable dyeing of nylon fabric with acid dyes in decamethylcyclopentasiloxane (D5) solvent for improving dye uptake and reducing raw material consumption	2021	Journal of Cleaner Production	279			

1021	Waseemullah, Tahir S.H., Kaleem M.S., Kanwal T., Quddoos M.U.	Concomitant of inside-shareholding, group affiliation and firm value: Evidence from pakistan	2021	Business: Theory and Practice	22	1	133	145
1022	Arif M.S., Yasmeen T., Abbas Z., Ali S., Rizwan M., Aljarba N.H., Alkahtani S., Abdel-Daim M.M.	Role of Exogenous and Endogenous Hydrogen Sulfide (H ₂ S) on Functional Traits of Plants Under Heavy Metal Stresses: A Recent Perspective	2021	Frontiers in Plant Science	11			
1023	Mehboob M.Y., Khan M.U., Hussain R., Ayub K., Sattar A., Ahmad M.K., Irshad Z., Saira, Adnan M.	Designing of benzodithiophene core-based small molecular acceptors for efficient non-fullerene organic solar cells	2021	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	244			
1024	Imran M., Iqbal M.M., Iqbal J., Shah N.S., Khan Z.U.H., Murtaza B., Amjad M., Ali S., Rizwan M.	Synthesis, characterization and application of novel MnO and CuO impregnated biochar composites to sequester arsenic (As) from water: Modeling, thermodynamics and reusability	2021	Journal of Hazardous Materials	401			
1025	Adeel S., Rehman F.-U., Zia K.M., Azeem M., Kiran S., Zuber M., Irfan M., Qayyum M.A.	Microwave-Supported Green Dyeing of Mordanted Wool Fabric with Arjun Bark Extracts	2021	Journal of Natural Fibers	18	1	136	150

1026	Mehmood Y., Ashraf M.I., Mastoor K., Afzal A., Awan Z.L.	EFFECTIVENESS AND SAFETY OF SOFOSBUVIR AND VELPATASVIR IN HEMODIALYSIS PATIENTS SUFFERING WITH HEPATITIS C INFECTION	2021	Journal of University Medical and Dental College	12	1	24	29
1027	Ahmad A., Nazar M., Ali A., Hussain M., Ali Z.	EXACT SOLUTIONS OF HYDROMAGNETIC FLUID FLOW ALONG AN INCLINED PLANE WITH HEAT AND MASS TRANSFER	2021	Journal of Mathematical Analysis	12	2	1	22
1028	Rehan T., Zolkepli I.A.	Revolutionary Movement of Social Media Political Power and Participation	2021	8th European Conference on Social Media, ECSM 2021			187	194
1029	Hanif S., Yusaf A., Usman M., Mansha A., Saeed M.	Role of mixed micellar media to enhance solubilization of Allura Red: differential spectroscopic and conductometric study	2021	Journal of Taibah University for Science	15	1	536	542
1030	Saadullah M., Shah S., Farrukh M., Chauhdary Z., Aslam A., Khan H.U., Abbas G., Shah M.A., Khurram H., Chand U.R., Haris M., Khaliq H.M.E.	Knowledge, Attitudes and Perceptions of Medical and Non-Medical Students towards COVID-19 in Punjab, Pakistan: a Cross-sectional Survey	2021	Latin American Journal of Pharmacy	40	11	2617	2623
1031	Tamoor M., Bhatti A.R., Farhan M., Miran S., Raza F., Zaka M.A.	Designing of a Hybrid Photovoltaic Structure for an Energy-Efficient Street Lightning System Using PVsyst Software	2021	Engineering Proceedings	12	1		

1032	Tahir W., Khan M.A., Gulbadan S., Majeed A., Mahmood K.	Comprehensive study of structural, physical, and spectroscopic properties of Co-Ni substituted BaMg ₂ Fe ₁₆ O ₂₇ W-type hexaferrites	2021	Journal of Taibah University for Science	15	1	1196	1209
1033	Ashfaq R., Rasul A., Khalid S.H., Khan I.U., Mehmood H.Q., Iqbal M.S., Asghar S.	Inclusion of Lipid in the Polymeric Solid Dispersion of Lovastatin for Increased Solubility and Dissolution	2021	Latin American Journal of Pharmacy	40	11	2735	2741
1034	Ashfaq M., Shah S., Rasul A., Rasool N., Shehzad M.A., Imran M., Iqbal O., Bi Bi Z., Khan S.M., Ahmed M.M., Fatima I., Nisa Z., Abbas G.	HPLC-UV Method for the Estimation of Moxifloxacin in Plasma: An Application to Pharmacokinetic Study of Pharmaceuticals in Rats	2021	Latin American Journal of Pharmacy	40	11	2611	2616
1035	Kiptoo J.J., Abbas A., Bhatti A.M., Usman H.M., Ali Shad M., Umer M., Atiq M.N., Alam S.M., Ateeq M., Khan M., Peris N.W., Razaq Z., Anwar N., Iqbal S.	RHIZOCTONIA SOLANI OF POTATO AND ITS MANAGEMENT: A REVIEW	2021	Plant Protection	5	3	157	169
1036	Shah S., Chauhdary Z., Aslam A., Hanif M., Rasool N., Imran M., Rasul A., Ahmad M.M., Khan S.M., Abbas G.	Pharmacokinetic Evaluation of Raft Forming Tablet for Controlled Delivery of Pantoprazole Sodium Sesquihydrate	2021	Latin American Journal of Pharmacy	40	12	2894	2899

1037	Ahmad M., Mahmood M.A., Siddique A.R., Asghar S.A.	ESL Materials and Gender Representation: A Corpus-Based Study of Secondary School Textbooks in Punjab, Pakistan	2021	Asian Women	37	1	143	166
1038	Aslam S., Binyamin M.A., Mahmood H.	A classifier for equidimensional contact unimodal map germs	2021	Bulletin Mathematique de la Societe des Sciences Mathematiques de Roumanie	64	3	285	300
1039	Nefzi B., Riahi L., Awan M.U., Dragomir S.S.	Quantum Hermite-Hadamrd-FejĀ©r Type Inequalities for (İf, h)-Convex Functions	2021	Filomat	35	10	3491	3500
1040	Ahmad S., Paracha K.N., Sheikh Y.A., Ghaffar A., Li X.J.	A Dual-band Dual Mode Antenna for On/Off-Body Communications	2021	2021 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, APS/URSI 2021 - Proceedings			1275	1276
1041	Ahmad S., Khabba A., Ghaffar A., Li X.J.	A Compact Wideband Flexible Circularly Polarized Implantable Antenna for Biotelemetry Applications	2021	2021 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, APS/URSI			695	696

				2021 - Proceedings				
1042	Latif N., Arshad M.S., Javed S.	A Comparative Study between Regression Algorithms to Visualize and Analyze the Scalability of Large-Scale Graphs in Big Data	2021	ICET 2021 - 16th International Conference on Emerging Technologies 2021, Proceedings				
1043	Inayat Z., Sajjad R., Anam M., Younas A., Hussain M.	Analysis of Comparison-Based Sorting Algorithms	2021	4th International Conference on Innovative Computing, ICIC 2021				
1044	Younas A., Hussain M., Anam M., Jaffry S.W.	Agent based Model for Zakat Distribution	2021	4th International Conference on Innovative Computing, ICIC 2021				
1045	Ali K., Bukhari S.M., ur-Rehman K., Maqsood I., Asad M., Iqbal A., Khalid N., Andleeb S., Alghamdi H.A., Ruby T.	Effect of Trianthema portulacastrum extracts on hematologic and hepatic enzymes disorders induced by carbon tetrachloride in rabbits (Oryctolagus cuniculus)	2021	Journal of Taibah University for Science	15	1	897	902

1046	Hanif S., Sarfraz R.M., Syed M.A., Mahmood A., Minhas M.U., Irfan M.	Development and optimization of tibezoneium iodide and lignocaine hydrochloride containing novel mucoadhesive buccal tablets: a pharmacokinetic investigation among healthy humans	2021	Drug Development and Industrial Pharmacy	47	8	1209	1222
1047	Ahmad S., Ghaffar A., Liaqat M., Ali H., Nadeem M.W., Anas M.	A Compact Size Dual-Band Monopole Antenna Design for IoT Applications	2021	2021 1st International Conference on Microwave, Antennas and Circuits, ICMAC 2021				
1048	Ahmad S., Aamer Shahzad M.	A Compact Size ISM Band Wearable Flexible Antenna for IoT Smart Watch Applications	2021	2021 1st International Conference on Microwave, Antennas and Circuits, ICMAC 2021				
1049	Akhtar M.F., Mehr-Un-Nisa, Saleem A., Hamid I., Alsharif K.F., Abdel-Daim M.M., Rahman MdH., Shah M., Sohail K., Javaid Z.	Contemporary uses of old folks: The immunomodulatory and toxic potential of fenbufen	2021	Cellular and Molecular Biology	67	5	27	37
1050	Hamid I., Janbaz K.H., Iqbal R., Akhtar M.F., Saleem A., Ali S., Sharif A., Akhtar B., Javaid Z., Sohail K.	Therapeutic potential of Ceratonia siliqua extract for the management of asthma and hypertension	2021	Cellular and Molecular Biology	67	5	6	15

1051	Rizwan K., Babar S., Nayab S., Hanif M.K.	HarX: Real-Time harassment detection tool using machine learning	2021	International Conference of Modern Trends in ICT Industry: Towards the Excellence in the ICT Industries, MTICTI 2021				
1052	Raza F., Tamoor M., Miran S.	Socioeconomic and Climatic Impacts of Photovoltaic Systems Operating High-Efficiency Irrigation Systems: A Case Study of the Government Subsidy Scheme for Climate-Smart Agriculture in Punjab, Pakistan â€	2021	Engineering Proceedings	12	1		
1053	Li Y.-X., Rauf A., Naeem M., Binyamin M.A., Aslam A.	Valency-Based Topological Properties of Linear Hexagonal Chain and Hammer-Like Benzenoid	2021	Complexity	2021			
1054	Malik I.R., Nayyab S., Mirza M.R., Muzammil S., Cheema J.S., Imran K., Nisar K., Hayat S., Javed M.	Growth performance of major carps during exposure of zinc and bioaccumulation in fish body organs	2021	Asian Journal of Agriculture and Biology	2022	1	1	7
1055	Alshamrani R., Arshad M.H., Gull M., Nawaz M.Z., Malik S.	Identification of non-coding RNAs in the hyper thermophilic bacterium Thermotoga maritima MSB8 through comparative genomics and in-silico analyses	2021	Asian Journal of Agriculture and Biology	2022	1	1	9

1056	Taj M., Hussain M., Khadimallah M.A., Baili J., Khedher K.M., Tounsi A.	Effects of nonlocal parameter on bending of Intermediate filaments: Formulation of Euler beam theory	2021	Advances in Concrete Construction	12	6	491	497
1057	Zafar S., Hasnain Z., Perveen S., Iqbal N., Amir Zafar M.	DECIPHERING PHYSIO-BIOCHEMICAL CHARACTERISTICS OF ZnSO4 PRIMED WHEAT (TRITICUM AESTIVUM L.) PLANTS GROWN UNDER SALT STRESS	2021	Pakistan Journal of Botany	53	6	1943	1952
1058	Ghamkhar M., Khadimallah M.A., Iqbal M.Z., Hussain M., Yahya A., Khedher K.M., Naeem M.N., Tounsi A.	Performance of FGM bilayered cylindrical shell placed on cantilever edge	2021	Advances in Nano Research	11	4	339	345
1059	Hussain M., Syed S.K., Fatima M., Shaukat S., Saadullah M., Alqahtani A.M., Alqahtani T., Emran T.B., Alamri A.H., Barkat M.Q., Wu X.	Acute Respiratory Distress Syndrome and COVID-19: A Literature Review	2021	Journal of Inflammation Research	14		7225	7242
1060	Ahmad S., Ghaffar A., Li X.J., Cherif N.	A Millimetre-Wave Tri-Band Antenna Embedded on Smart Watch for Wearable Applications	2021	2021 International Symposium on Antennas and Propagation, ISAP 2021				
1061	Dominic S., Hussain A.I., Chatha S.A.S., Ali Q., Aslam N., Sarker S.D.,	Phenolic profile, nutritional composition, functional properties, and antioxidant activity of newly grown	2021	Journal of Chemistry	2021			

	Chishti S.A.S., Ali S., Maqbool S., El-Sheikh M.A., Alyemeni M.N.	parthenocarpic and normal seeded tomato						
1062	Raza M., Naz H., Malik S.N., Islam S.	On q-analogue of differential subordination associated with lemniscate of Bernoulli	2021	Journal of Mathematics	2021			
1063	Bibi M., Hanif M.K., Sarwar M.U., Khan M.I., Khan S.Z., Shikali Shivachi C., Anees A.	Monitoring Population Phenology of Asian Citrus Psyllid Using Deep Learning	2021	Complexity	2021			
1064	Altarazi F., Kumar S., Gupta G., Gulzar M., Gaba Y.U., Kumar A., Maithani R.	Analysis and Implementation of Thermal Heat Exchanger Tube Performance with Helically Pierced Twisted Tape Inserts Using ANFIS Model	2021	Mathematical Problems in Engineering	2021			
1065	Siddiqui H.M.A., Mujahid A., Binyamin M.A., Nadeem M.F.	On Certain Bounds for Edge Metric Dimension of Zero-Divisor Graphs Associated with Rings	2021	Mathematical Problems in Engineering	2021			
1066	Javed M., Irfan M., Bhatti S.H., Onyango R.	A Simulation-Based Study for Progressive Estimation of Population Mean through Traditional and Nontraditional Measures in Stratified Random Sampling	2021	Journal of Mathematics	2021			

1067	Rashid S., Sultana S., Ashraf R., Kaabar M.K.A.	On Comparative Analysis for the Black-Scholes Model in the Generalized Fractional Derivatives Sense via Jafari Transform	2021	Journal of Function Spaces	2021			
1068	Noor K.I., Noor M.A., Awan M.U.	GENERALIZED CLOSE-TO-CONVEXITY RELATED WITH BOUNDED BOUNDARY ROTATION	2021	International Journal of Analysis and Applications	19	6	890	903
1069	Hassan Z., Imran M., Ahmad M.H., Khan M.K.	Ultrasound-Assisted Modification of Insoluble Dietary Fiber from Chia (<i>Salvia hispanica</i> L.) Seeds	2021	Journal of Food Quality	2021			
1070	Ijaz M.U., Aziz S., Faheem M., Abbas K., Nasir S., Naz H., Ali A., Ur Rehman T., Imran M.	Orientin Attenuates Cisplatin-Induced Renal Toxicity by Reducing Oxidative Stress and Inflammation	2021	Pakistan Veterinary Journal	41	4	574	578
1071	Munir Y., Aftab M.U., Shehzad D., Aseere A.M., Shah H.	Effective Passive Multitarget Localization Using Maximum Likelihood	2021	Wireless Communications and Mobile Computing	2021			

1072	Vivas-Cortez M., Awan M.U., Javed M.Z., Noor M.A., Noor K.I.	A Study of Uniform Harmonic $\tilde{I}^{\alpha}$ -Convex Functions with respect to Hermite-Hadamard's Inequality and Its Caputo-Fabrizio Fractional Analogue and Applications	2021	Journal of Function Spaces	2021			
1073	Ijaz M.U., Ashraf A., Ismail H., Imran M., Al-Ghanim K.A., Rauf A., Al-Misned F., Ahmed Z., Samad A., Riaz M.N., Mahboob S.	Administration of Vaccine Preservative Thimerosal Produces Impairment in Rat Liver	2021	Brazilian Archives of Biology and Technology	64		1	8
1074	Quratulain, Basit I., Bakhsh K., Hafeez M.	Adult learning theories and their role in instructional design, curriculum development and educational technology	2021	WSEAS Transactions on Environment and Development	17		1149	1159
1075	Alvi R.F., Aslam B., Rasool M.H., Muzammil S., Siddique A.B., Yasmeen N., Khurshid M., Sarwar N., Almatroudi A., Hussain R., Baloch Z.	Transcriptional Response of Multidrug-Resistant <i>Klebsiella pneumoniae</i> Clinical Isolates to Ciprofloxacin Stress	2021	Canadian Journal of Infectious Diseases and Medical Microbiology	2021			

1076	Kashuri A., Mihai M.V., Awan M.U., Noor M.A., Noor K.I.	New integral inequalities for strongly nonconvex functions involving raina function	2021	Filomat	35	7	2437	2456
1077	Raza M.A., Kanwal Z., Shahid A., Fatima S., Sajjad A., Riaz S., Naseem S.	Toxicity Evaluation of Arsenic Nanoparticles on Growth, Biochemical, Hematological, and Physiological Parameters of Labeo rohita Juveniles	2021	Advances in Materials Science and Engineering	2021			
1078	Ansar M.S., Shahzad K., Siddique R.	Impact of Automation on Usersâ€™ Perception of Library Services	2021	Library Philosophy and Practice	2021		1	30
1079	Saleem M., Hussain A., Akhtar M.F., Saleem A., Sadeeqa S., Naheed S.	Ameliorating effect of malva neglecta on hyperglycemia and hyperlipidemia in diabetic rats	2021	Brazilian Journal of Pharmaceutical Sciences	57			
1080	Ahmad S., Paracha K.N., Sheikh Y.A., Ghaffar A., Butt A.D., Alibakhshikenari M., Soh P.J., Khan S., Falcone F.	A Metasurface-Based Single-Layered Compact AMC-Backed Dual-Band Antenna for Off-Body IoT Devices	2021	IEEE Access	9		159598	159615

1081	Kashuri A., Awan M.U., Talib S., Noor M.A., Noor K.I.	On exponentially $\tilde{I}_\pm$ preinvex functions and associated trapezium like inequalities	2021	Applicable Analysis and Discrete Mathematics	15	2	317	336
1082	Al-Zubaidi A., Nazeer M., Subia G.S., Hussain F., Saleem S., Ghafar M.M.	Mathematical modeling and simulation of MHD electro- osmotic flow of Jeffrey fluid in convergent geometry	2021	Waves in Random and Complex Media				
1083	Rauf A., Akram M., Semwal P., Mujawah A.A.H., Muhammad N., Riaz Z., Munir N., Piotrovsky D., Vdovina I., Bouyahya A., Adetunji C.O., Shariati M.A., Almarhoon Z.M., Mabkhot Y.N., Khan H.	Antispasmodic Potential of Medicinal Plants: A Comprehensive Review	2021	Oxidative Medicine and Cellular Longevity	2021			
1084	Raza A., Lin W., Ishfaq M.K., Inam M., Masud F., Dahri M.H.	A Wideband Reflector-Backed Antenna for Applications in GPR	2021	International Journal of Antennas and Propagation	2021			

1085	Talib S., Awan M.U.	Estimations of Upper Bounds for n-th Order Differentiable Functions Involving $\hat{I}^\alpha$ -Riemann-Liouville Integrals via $\hat{I}^\alpha$ -Preinvex Functions	2021	Mathematical Problems in Engineering	2021			
1086	Abrar M., Sibtain M.M., Shabbir R.	Understanding purchase intention towards eco-friendly clothing for generation Y & Z	2021	Cogent Business and Management	8	1		
1087	Riaz S., Hussain I., Ibrahim M., Rasheed R., Ashraf M.A.	Choline Chloride Mediates Salinity Tolerance in Cluster Bean (<i>Cyamopsis tetragonoloba</i> L.) by Improving Growth, Oxidative Defense, and Secondary Metabolism	2021	Dose-Response	19	4		
1088	Shahid A., Ali M.A., Muzammil S., Aslam B., Shahid M., Saqalein M., Akash M.S.H., Almatroudi A., Allemailem K.S., Khurshid M.	Antibiotic residues in food chains; impact on the environment and human health: A review	2021	Applied Ecology and Environmental Research	19	5	3959	3977

1089	Rasheed Z., Zhang H., Arslan M., Zaman B., Anwar S.M., Abid M., Abbasi S.A.	An Efficient Robust Nonparametric Triple EWMA Wilcoxon Signed-Rank Control Chart for Process Location	2021	Mathematical Problems in Engineering	2021			
1090	Bhunias S., Ghorai G., Kutbi M.A., Gulzar M., Alam M.A.	On the Algebraic Characteristics of Fuzzy Sub e-Groups	2021	Journal of Function Spaces	2021			
1091	Arshad F., Umbreen H., Aslam I., Hameed A., Aftab K., Al-Qahtani W.H., Aslam N., Noreen R.	Therapeutic Role of Mango Peels in Management of Dyslipidemia and Oxidative Stress in Obese Females	2021	BioMed Research International	2021			
1092	Rasul A., Maheen S., Khan H.U., Rasool M., Shah S., Abbas G., Afzal K., Tariq F., Shahzadi I., Asad M.H.H.B.	Formulation, Optimization, in Vitro and in Vivo Evaluation of Saxagliptin-Loaded Lipospheres for an Improved Pharmacokinetic Behavior	2021	BioMed Research International	2021			
1093	Faheem S., Nahid N., Wiener J., Baheti V., Mazari A., Militky J.	Evaluation of radiant heat transmission of biopolymer based flame retardant treated cotton fabrics	2021	Textile Bioengineering and Informatics Symposium Proceedings, TBIS			318	325

1094	Bouafia H., Chikh A., Bousahla A.A., Bourada F., Heireche H., Tounsi A., Benrahou K.H., Tounsi A., Al-Zahrani M.M., Hussain M.	Natural frequencies of FGM nanoplates embedded in an elastic medium	2021	Advances in Nano Research	11	3	239	249
1095	Manzoor U., Imran M., Muhammad T., Waqas H., Alghamdi M.	Heat transfer improvement in hybrid nanofluid flow over a moving sheet with magnetic dipole	2021	Waves in Random and Complex Media				
1096	Muhammad T., Waqas H., Khan S.A., Alqarni M.S.	Melting heat transfer in bioconvective transport of Williamson nanofluid over a wedge with exponential space and thermal-dependent heat source	2021	Waves in Random and Complex Media				
1097	Sial N., Saeed S., Ahmad M., Hameed Y., Rehman A., Abbas M., Asif R., Ahmed H., Hussain M.S., Rehman J.U., Atif M., Khan M.R.	Multi-omics analysis identified tmed2 as a shared potential biomarker in six subtypes of human cancer	2021	International Journal of General Medicine	14		7025	7042
1098	Mukhtar Z., Haq F., Naqvi S.A.A., Afreen M.	Climatic anomalies and glacial dynamics in the Himalayan Region Northern Pakistan: A spatio-statistical approach	2021	Indonesian Journal of Geography	53	2	216	225

1099	Hussain Z., Asif M., Aslam A., Mahmood M.A.	Divergent Patterns of Variant Tag Questions in Pakistani English: A Corpus-based Comparative Study	2021	Pegem Egitim ve Ogretim Dergisi	11	4	370	378
1100	Al-Mansoub M.A., Asif M., Revadigar V., Hammad M.A., Chear N.J.-Y., Hamdan M.R., Majid A.M.S.A., Asmawi M.Z., Murugaiyah V.	Chemical composition, antiproliferative and antioxidant attributes of ethanolic extract of resinous sediment from etlingera elatior (Jack.) inflorescence	2021	Brazilian Journal of Pharmaceutical Sciences	57			
1101	Ali A., Mughal H., Ahmad N., Babar Q., Saeed A., Khalid W., Raza H., Liu A.	Novel therapeutic drug strategies to tackle immune- oncological challenges faced by cancer patients during COVID- 19	2021	Expert Review of Anticancer Therapy	21	12	1371	1383
1102	Sarwar M.B., Hanif M.K., Talib R., Younas M., Sarwar M.U.	DarkDetect: Darknet Traffic Detection and Categorization Using Modified Convolution-Long Short-Term Memory	2021	IEEE Access	9		113705	113713
1103	He B., He Q., Sarfraz M.	Inclusive leadership and subordinatesâ€™ pro-social rule breaking in the workplace: mediating role of self-efficacy and moderating role of employee relations climate	2021	Psychology Research and Behavior Management	14		1691	1706

1104	Waqas H., Khan S.A., Alghamdi M., Muhammad T.	Numerical Investigation for Radiative Transport in Magnetized Flow of Nanofluids due to Moving Surface	2021	Mathematical Problems in Engineering	2021			
1105	Anum F., Naeem M.A., Shahiq U.-Z., Masood U.- R., Khurram S.S., Imran N.	Design and evaluation of three-in-one matrix tablets for the treatment of ulcer associated with helicobacter pylori	2021	Latin American Journal of Pharmacy	40	10	2337	2345
1106	Shahid M., Naureen I., Riaz M., Anjum F., Fatima H., Rafiq M.A.	Biofilm Inhibition and Antibacterial Potential of Different Varieties of Garlic (<i>Allium sativum</i>) Against Sinusitis Isolates	2021	Dose-Response	19	4		
1107	Basit S.A., Ahmed S., Latif M.T., Khan M.A., Miss A.G.	Bibliometric Analysis of Digital Divide Using Web of Science	2021	Library Philosophy and Practice	2021		1	22
1108	Afzaal M., Saeed F., Shahzadi U., Hussain M., Waleed M., Hussain S., Mohamed A.A., Alamri M.S., Anjum F.M., Suleria H.	Nutritional and therapeutic properties of barley broth (Talbinah): recent updates	2021	International Journal of Food Properties	24	1	1631	1641

1109	Nawaz Z., Shafique M., Zahoor M.A., Siddique A.B., Ali S., Arshad R., Kausar S., Khan K., Asad M., Rehman A.U., Masih I.	Sero-epidemiology and risk factor analysis of human brucellosis in punjab, pakistan: A cross sectional study	2021	Tropical Biomedicine	38	3	413	419
1110	Arif R., Ahmad S., Mustafa G., Mahrosh H.S., Ali M., Tahir Ul Qamar M., Dar H.R.	Molecular Docking and Simulation Studies of Antidiabetic Agents Devised from Hypoglycemic Polypeptide-P of Momordica charantia	2021	BioMed Research International	2021			
1111	Shah P.A., Khan S.U.D., Syed H.K., Aamir M., Pervaiz A., Zaidi H.A., Iqbal M.S.	Fabrication of acyclovir floating tablets by using combination of eudragit l100 and ethyl cellulose by direct compression method	2021	Latin American Journal of Pharmacy	40	10	2550	2558
1112	Ashraf U., Khan S.U.D., Asghar S., Irfan M., Khan I.U., Shah P.A., Saleem M., Rasul A., Imran K., Bashir R., Syed H.K., Iqbal M.S.	Development and validation of a rp-hplc method for determination of chondroitin sulphate and curcumin in topical formulation	2021	Latin American Journal of Pharmacy	40	10	2346	2354

1113	Yasin S., Salem S., Ayed H., Kamal S., Suhail M., Khan Y.A.	Modified Robust Ridge M-Estimators in Two-Parameter Ridge Regression Model	2021	Mathematical Problems in Engineering	2021			
1114	Mellal F., Bennai R., Nebab M., Atmane H.A., Bourada F., Hussain M., Tounsi A.	Investigation on the effect of porosity on wave propagation in FGM plates resting on elastic foundations via a quasi-3D HSDT	2021	Waves in Random and Complex Media				
1115	Afzaal M., Saeed F., Aamir M., Usman I., Ashfaq I., Ikram A., Hussain M., Anjum F.M., Waleed M., Suleria H.	ENCAPSULATING PROPERTIES OF LEGUME PROTEINS: RECENT UPDATES & PERSPECTIVES	2021	International Journal of Food Properties	24	1	1603	1614
1116	Rahim M.A., Saeed F., Khalid W., Hussain M., Anjum F.M.	Functional and nutraceutical properties of fructo-oligosaccharides derivatives: a review	2021	International Journal of Food Properties	24	1	1588	1602
1117	Atif M., Perveen S., Atif M., Perveen S.	Comparison of alteration in growth, physiological and biochemical attributes of ten maize (Zea mays L.) varieties under arsenic stress: Susceptibility and tolerance	2021	Polish Journal of Environmental Studies	30	6	4913	4923
1118	Irfan M., Javed M., Shongwe S.C., Zohaib M., Haider Bhatti S.	Estimation of Population Median under Robust Measures of an Auxiliary Variable	2021	Mathematical Problems in Engineering	2021			

1119	Siddique A., Bhatti A.R., Awan A.B., Butt A.D., Alghamdi A.S., Farhan M., Rasheed N.	Efficient video transmission”a critical review of various protocols and strategies	2021	Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A	44	8	740	750
1120	Siddiqua A., Sadeef Y., Ahmad S.S., Farid M., Ali S.	Environmental factors driving the toxic mobility between soil and vegetation in riparian zone vegetation	2021	Polish Journal of Environmental Studies	30	6	5225	5237
1121	Siddiqua A., Sadeef Y., Ahmad S.S., Farid M., Ali S.	Evaluation of water quality and its potential threats along river chenab using geo statistical techniques	2021	Polish Journal of Environmental Studies	30	6	5239	5254
1122	Farhan M., Rizwan H.M., Farooq M., Riaz F., Tahir Z.U.R., Sultan M., Siddiqui F.A., Javaid M.Y., Ali Q., Zahid I.	Investigation of particles deposition in a square duct using optimized roughness elements for a sustainable environment	2021	Advances in Mechanical Engineering	13	9		
1123	Al-Zubaidi A., Nazeer M., Khalid K., Yaseen S., Saleem S., Hussain F.	Thermal analysis of blood flow of Newtonian, pseudo-plastic, and dilatant fluids through an inclined wavy channel due to metachronal wave of cilia	2021	Advances in Mechanical Engineering	13	9		
1124	Javed M., Irfan M., Bhatti S.H.	On optimal classes of estimators in the presence of some nonsampling errors	2021	Journal of the National Science Foundation of Sri Lanka	49	2	281	294

1125	Taheri Y., Herrera-Bravo J., Huala L., Salazar L.A., Sharifi-Rad J., Akram M., Shahzad K., Melgar-Lalanne G., Baghalpour N., Tamimi K., Mahroo-Bakhtiyari J., Kregiel D., Dey A., Kumar M., Suleria H.A.R., Cruz-Martins N., Cho W.C.	Cyperus spp.: A Review on Phytochemical Composition, Biological Activity, and Health-Promoting Effects	2021	Oxidative Medicine and Cellular Longevity	2021			
1126	Li A., Khan I.N., Khan I.U., Yousaf A.M., Shahzad Y.	Gellan gum-based bilayer mucoadhesive films loaded with moxifloxacin hydrochloride and clove oil for possible treatment of periodontitis	2021	Drug Design, Development and Therapy	15		3937	3952
1127	Hussam S.M., Arshad M., Ali S., Jalees M.M., Ahmad F., Bashir F., Sharif A., Yousaf Z.	Effects of Î±-Tocopherol Supplemented Corn Gluten Meal Based Diet on Growth, Nutrient Digestibility and Antioxidant Activity of Catla catla Fingerlings	2021	International Journal of Agriculture and Biology	26	3	371	376
1128	Zubair M., Anwar U., Ashfaq M., Zafar M.N., Farid M., Ahmad F., Ahmad W., Ali S., Rizwan M., Alsahli A.A., Alyemeni M.N., Wijaya L.	Heavy metals occurrence, seasonal variation and enrichment in urban soils augmented with industrial waste	2021	Polish Journal of Environmental Studies	30	5	4871	4886
1129	Junaid K., Rasool H., Mustafa A.U., Ejaz H., Alsrhani A., Yasmeen H., Younas S., Abdalla A.E.,	Association of IL28 B and IL10 Polymorphism with HCV Infection and Direct Antiviral Treatment	2021	Annals of Clinical and Laboratory Science	51	4	512	520

	Abosalif K.O.A., Hamam S.S.M.							
1130	Qamar S.U.R., Tanwir S., Khan W.A., Altaf J., Ahmad J.N.	Biosynthesis of silver nanoparticles using Ocimum tenuiflorum extract and its efficacy assessment against Helicoverpa armigera	2021	International Journal of Pest Management				
1131	Waqas H., Farooq U., Alshehri H.M., Goodarzi M.	Marangoni-bioconvectonal flow of Reinerâ€‘Philippoff nanofluid with melting phenomenon and nonuniform heat source/sink in the presence of a swimming microorganisms	2021	Mathematical Methods in the Applied Sciences				
1132	Faisal M., Abbas A., Xia C., Haseeb Raza M., Akhtar S., Arslan Ajmal M., Mushtaq Z., Yi C.	Assessing small livestock herdersâ€™ adaptation to climate variability and its impact on livestock losses and poverty	2021	Climate Risk Management	34			
1133	Afzal J., Wang X., Saleem M.H., Sun X., Hussain S., Khan I., Rana M.S., Ahmed S., Awan S.A., Fiaz S., Aziz O., Kubar K.A., Ali S., Hu C.	Application of ferrous sulfate alleviates negative impact of cadmium in rice (Oryza sativa L.)	2021	Biocell	45	6	1631	1649
1134	Waqas H., Manzoor U., Alqarni M.S., Muhammad T.	Numerical study for bioconvection in magnetized flow of micropolar nanofluid utilizing gyrotactic motile microorganisms	2021	Waves in Random and Complex Media				

1135	Shahid A., Aslam B., Muzammil S., Aslam N., Shahid M., Almatroudi A., Allemailem K.S., Saqailein M., Nisar M.A., Rasool M.H., Khurshid M.	The prospects of antimicrobial coated medical implants	2021	Journal of Applied Biomaterials and Functional Materials	19			
1136	Iqbal A., Ali M., Jamil M., Rasheed A.	Low frequency hybrid instability in semi-relativistic GaAs plasmas	2021	Physica Scripta	96	12		
1137	Bilal M., Ahmad S., Rehman T., Ghauri A.O., Khalid S., Abbasi W.M., Zakki S.A.	Anti-Hyperuricemic and Uricosuric Potential of Berberis vulgaris in Oxonate-Induced Hyperuricemic Rats	2021	Dose-Response	19	3		
1138	Khadimallah M.A., Hussain M., Yahya A., Elimame E., Tounsi A.	Development of orthotropic winkler-like model for rotating cylindrical shell: Stability analysis	2021	Geomechanics and Engineering	26	3	253	260
1139	Farooq U., Ahmed J., Ashfaq K., Tabash M.	Trade Credit as a Determinant of Firm's Financial Performance: Moderating Role of Bank Financing	2021	Global Business Review				
1140	Hussain M., Qamar A., Saeed F., Rasheed R., Niaz B., Afzaal M., Mushtaq Z., Anjum F.	BIOCHEMICAL PROPERTIES OF MAIZE BRAN WITH SPECIAL REFERENCE TO DIFFERENT PHENOLIC ACIDS	2021	International Journal of Food Properties	24	1	1468	1478

1141	Sultan L., Anjum M., Rehman M., Murawwat S., Kosar H.	Communication among Heterogeneous Unmanned Aerial Vehicles (UAVs): Classification, Trends, and Analysis	2021	IEEE Access	9		118815	118836
1142	Zahra D., Javaid A., Iqbal M., Akbar I., Ashfaq U.A.	Synthesis and Therapeutic Potential of Nanoceria against Cancer: An Update	2021	Critical Reviews in Therapeutic Drug Carrier Systems	38	5	1	26
1143	Egbuna C., Parmar V.K., Jeevanandam J., Ezzat S.M., Patrick- Iwuanyanwu K.C., Adetunji C.O., Khan J., Onyeike E.N., Uche C.Z., Akram M., Ibrahim M.S., El Mahdy N.M., Awuchi C.G., Saravanan K., Tijjani H., Odoh U.E., Messaoudi M., Ifemeje J.C., Olisah M.C., Ezeofor N.J., Chikwendu C.J., Ibeabuchi C.G.	Toxicity of Nanoparticles in Biomedical Application: Nanotoxicology	2021	Journal of Toxicology	2021			

1144	Zhou S.-S., Rashid S., Rauf A., Kubra K.T., Alsharif A.M.	Initial boundary value problems for a multi-term time fractional diffusion equation with generalized fractional derivatives in time	2021	AIMS Mathematics	6	11	12114	12132
1145	Farooq U., Rasul A., Zafarullah M., Abbas G., Rasool M., Ali F., Ahmed S., Javaid Z., Abid Z., Riaz H., Mahmood Arshad R.K., Maryam S., Amna N., Asif K.	Nanoemulsions as novel nanocarrieres for drug delivery across the skin: In-vitro, in-vivo evaluation of miconazole nanoemulsions for treatment of Candidiasis albicans	2021	Designed Monomers and Polymers	24	1	240	258
1146	Khalid W., Arshad M.S., Yasin M., Imran A., Ahmad M.H.	Quality Characteristics of Gamma Irradiation and Kale Leaf powder Treated Ostrich and Chicken Meat during Storage	2021	International Journal of Food Properties	24	1	1335	1348
1147	Afzaal M., Saeed F., Rasheed R., Hussain M., Aamir M., Hussain S., Mohamed A.A., Alamri M.S., Anjum F.M.	Nutritional, biological, and therapeutic properties of black garlic: a critical review	2021	International Journal of Food Properties	24	1	1387	1402
1148	Akhtar N., Awan M.U.	Some $\hat{\mathcal{I}}^{\alpha}$ -Tempered Fractional Hermite-Hadamard Inequalities Involving Harmonically Convex Functions and Applications	2021	Journal of Mathematics	2021			

1149	Asghar M.T., Khurshid M., Nazir J., Shakoori A.R.	Induction of Apoptosis in Human Lung Epithelial Cell by Sphingomonas sp. Shah, a Recently Identified CeCulture Contaminant	2021	Critical Reviews in Eukaryotic Gene Expression	31	2	55	62
1150	Rehman K., Irshad K., Kamal S., Imran I., Akash M.S.H.	Exposure of Environmental Contaminants and Development of Neurological Disorders	2021	Critical Reviews in Eukaryotic Gene Expression	31	2	35	53
1151	Afzaal S., Ali S.W., Hameed U., Ahmad A., Akhlaq M., Javed M.A., Haider M.S.	Molecular probing of Aflatoxigenic fungi in rice grains collected from local markets of Lahore, Pakistan	2021	Advancements in Life Sciences	8	2	190	194
1152	Mukhtar I., Iftikhar A., Imran M., Ijaz M.U., Irfan S., Anwar H.	The Competitive Absorption by the Gut Microbiome Suggests the First-Order Absorption Kinetics of Caffeine	2021	Dose-Response	19	3		
1153	Ashraf N., Sumrra S.H., Assiri M.A., Usman M., Hussain R., Aziz F., Hussain A., Ghaffari M.A., Qaisar M.N., Imran M., Irfan A.	Digera muricata (L.) Mart. mediated synthesis of antimicrobial and enzymatic inhibitory zinc oxide bionanoparticles	2021	Green Processing and Synthesis	10	1	476	484
1154	Ghaffar A., Awan W.A., Hussain N., Ahmad S., Li X.J.	A compact dual-band flexible antenna for applications at 900 and 2450 mhz	2021	Progress in Electromagnetics Research Letters	99		83	91

1155	Yasmin R., Hussain S., Rasool M.H., Siddique M.H., Muzammil S.	Isolation, Characterization of Zn Solubilizing Bacterium (Pseudomonas protegens RY2) and its Contribution in Growth of Chickpea (Cicer arietinum L) as Deciphered by Improved Growth Parameters and Zn Content	2021	Dose-Response	19	3		
1156	Nazeer M., Hussain F., Ahmad F., Iftikhar S., Subia G.S.	Theoretical study of an unsteady ciliary hemodynamic fluid flow subject to the Newton's boundary conditions	2021	Advances in Mechanical Engineering	13	8		
1157	Iqbal R., Liaqat A., Saeed F., Khaliq A., Jahangir Chughtai M.F., Afzaal M., Tehseen S., Aziz M., Hussain M., Anjum F.M.	Zogale (Moringaolifera) as a functional ingredient: A review on its nutraceutical properties and food applications	2021	International Journal of Food Properties	24	1	1202	1213
1158	Liu J.-B., Siddiqui H.M.A., Nadeem M.F., Binyamin M.A.	Some topological properties of uniform subdivision of Sierpiński graphs	2021	Main Group Metal Chemistry	44	1	218	227
1159	Egbuna C., Awuchi C.G., Kushwaha G., Rudrapal M., Patrick-Iwuanyanwu K.C., Singh O., Odoh U.E., Khan J., Jeevanandam J., Kumarasamy S., Chukwube V.O., Narayanan M., Palai S., Găfman M.-N.-A., Uche C.Z., Ogaji D.S., Ezeofor N.J., Mtewa A.-D.G.,	Bioactive compounds effective against type 2 diabetes mellitus: A systematic review	2021	Current Topics in Medicinal Chemistry	21	12	1067	1095

	Patrick-Iwuanyanwu C.C., Kesh S.S., Shivamallu C., Saravanan K., Tijjani H., Akram M., Ifemeje J.C., Olisah M.C., Chikwendu C.J.							
1160	Hayat S., Malik M.Y.H., Ahmad A., Khan S., Yousafzai F., Hasni R.	On Hamilton-Connectivity and Detour Index of Certain Families of Convex Polytopes	2021	Mathematical Problems in Engineering	2021			
1161	Akram S., Nawaz A., Rehman M.	Cubic nonlinear differential system, their periodic solutions and bifurcation analysis	2021	AIMS Mathematics	6	10	11286	11304
1162	Waqas H., Farooq U., Alqarni M.S., Muhammad T., Khan M.A.	Bioconvection transport of magnetized micropolar nanofluid by a Riga plate with non-uniform heat sink/source	2021	Waves in Random and Complex Media				
1163	Asghar M.	Cultural syncretism: an investigative study of nineteenth century Sikh Fresco paintings in Baba Sir Khem Singh Bedi's Haveli in Punjab/Pakistan	2021	Early Popular Visual Culture	19	1	21	37
1164	Lin L., Asghar S., Huang L., Hu Z., Ping Q., Chen Z., Shao F., Xiao Y.	Preparation and evaluation of oral self-microemulsifying drug delivery system of Chlorophyll	2021	Drug Development and Industrial Pharmacy	47	6	857	866

1165	Sethi A., Ahmad M., Huma T., Ahmad W.	Pharmacokinetic variables of medium molecular weight cross linked chitosan nanoparticles to enhance the bioavailability of 5-fluorouracil and reduce the acute oral toxicity	2021	Drug Delivery	28	1	1569	1584
1166	Raza M.A., Rahmah M., Qaswar F., Shafqat A., Rauf M., Raza S.	User interest driven semantic query expansion for effective web search	2021	International Journal of Advances in Soft Computing and its Applications	13	2	11	24
1167	Shabbir A., Ali N., Ahmed J., Zafar B., Rasheed A., Sajid M., Ahmed A., Dar S.H.	Satellite and Scene Image Classification Based on Transfer Learning and Fine Tuning of ResNet50	2021	Mathematical Problems in Engineering	2021			
1168	Saleem M.A., Shijie Z., Sarwar M.U., Ahmad T., Maqbool A., Shivachi C.S., Tariq M.	Deep Learning-Based Dynamic Stable Cluster Head Selection in VANET	2021	Journal of Advanced Transportation	2021			
1169	Rashid S., Jarad F., Abualnaja K.M.	On fuzzy volterra-fredholm integrodifferential equation associated with hilfer-generalized proportional fractional derivative	2021	AIMS Mathematics	6	10	10920	10946
1170	Bashir R., Hussain I., Rasheed R., Anwar S., Awais M., Hassan S.	Seed Invigoration with Paclobutrazol Improves Seedling Growth, Physiological, Biochemical Attributes and Fruit Yield in Okra	2021	International Journal of Agriculture and Biology	26	2	277	286

1171	Khan F.A., Arshad M.U., Rizvi S.S.H., Ameer K., Anjum F.M., Imran M., Imran A.	Optimization of potato starch gel formulation as green alternative of animal-sourced gelatin	2021	Food Science and Technology (Brazil)	41	3	626	634
1172	Tahir A., Shabir Ahmad R., Imran M., Ahmad M.H., Kamran Khan M., Muhammad N., Nisa M.U., Tahir Nadeem M., Yasmin A., Tahir H.S., Zulifqar A., Javed M.	Recent approaches for utilization of food components as nano-encapsulation: a review	2021	International Journal of Food Properties	24	1	1074	1096
1173	Imran A., Arshad M.U., Sherwani H., Shabir Ahmad R., Arshad M.S., Saeed F., Hussain G., Afzaal M., Imran M., Naeem U., Ikram A., Anjum F.M.	Antioxidant capacity and characteristics of theaflavin catechins and ginger freeze-dried extract as affected by extraction techniques	2021	International Journal of Food Properties	24	1	1097	1116
1174	Sethi A., Ahmad M., Huma T., Khalid I., Ahmad I.	Evaluation of Low Molecular Weight Cross Linked Chitosan Nanoparticles, to Enhance the Bioavailability of 5-Flourouracil	2021	Dose-Response	19	2		
1175	Abbas Syed Q., Hassan A., Sharif S., Ishaq A., Saeed F., Afzaal M., Hussain M., Anjum F.M.	Structural and functional properties of milk proteins as affected by heating, high pressure, Gamma and ultraviolet irradiation: a review	2021	International Journal of Food Properties	24	1	871	884

1176	Anwaar H., Siddiqui S., Farah N., Malik N., Hussain S.K.	Knowledge and attitude of women regarding breast cancer and its initial diagnosis	2021	Rawal Medical Journal	46	2	296	299
1177	Hussain Z., Murtaza G., Mahmood T., Liu J.-B.	Estimates for the Norm of Generalized Maximal Operator on Strong Product of Graphs	2021	Mathematical Problems in Engineering	2021			
1178	Qurashi S.M., Kanwal R.S., Shabir M., Ali K.	Generalized roughness of fuzzy substructures in quantales with respect to soft relations	2021	Journal of Intelligent and Fuzzy Systems	40	6	10435	10452
1179	Aslam A., Shah S., Shehzad M.A., Chauhdary Z., Ur-Rahman M., Zafarullah M., Abbas G., Farooq U., Khurram H., Chand U.R., Zulfiqar N., Sakeena N.U.	Knowledge, attitude, and practices of antibiotics and antibiotic resistance among pharmacy customers in punjab, pakistan: A multicenter survey study	2021	Latin American Journal of Pharmacy	40	7	1685	1692
1180	Huang L., Asghar S., Zhu T., Ye P., Hu Z., Chen Z., Xiao Y.	Advances in chlorin-based photodynamic therapy with nanoparticle delivery system for cancer treatment	2021	Expert Opinion on Drug Delivery	18	10	1473	1500
1181	Ullah H., Ullah A., Gull A., Khan M.W.	Novel coronavirus 2019 (Covid-19) diagnosis and treatment: Recent review updates	2021	Pakistan Paediatric Journal	45	2	135	140

1182	Khalid W., Ikram A., Rehan M., Afzal F.A., Ambreen S., Ahmad M., Aziz A., Sadiq A.	Chemical Composition and Health Benefits of Melon Seed: A Review	2021	Pakistan Journal of Agricultural Research	34	2	309	317
1183	Adeel S., Kiran S., Jannat M., Amin N., Hassan A., Qayyum M.A., Khan S.R.	Sustainable dyeing of cellulosic fabric with reactive violet h3r dye: Ultrasonic assisted improvement in color characteristic	2021	Journal of the Mexican Chemical Society	65	3	396	404
1184	Haider I., Sufyan M., Akhtar M., Jalal M.A., Sahi S.T., Akhter N., Noman A., Qasim M.	Assessment of antixenosis and antibiosis levels in rice genotypes against sogatella furcifera (Hemiptera: Delphacidae) [Evaluaci3n de niveles de antixenosis y antibiosis en genotipos de arroz contra sogatella furcifera (Hemiptera: delphacidae)]	2021	Revista de la Sociedad Entomologica Argentina	80	2	2	11
1185	Arshad M., Hussain S.M., Rafique A., Ahmad F., Shahzad M.M., Ucak I., Javid A., Hamdaazmat, Hussain A.I., Sharif A., Asrar M.	Effect of Î±-tocopherol supplementation on growth performance, antioxidant activity and nutrient digestibility of labeo rohita (Hamilton 1822) fingerlings fed corn gluten meal- based diet	2021	Indian Journal of Fisheries	68	2	86	94
1186	Naz S., Naeem M.N., Chu Y.-M.	Ostrowski-type inequalities for n-polynomial P -convex function for k-fractional Hilferâ€ˆKatugampola derivative	2021	Journal of Inequalities and Applications	2021	1		

1187	Shagari M.S., Rashid S., Abualnaja K.M., Alansari M.	On nonlinear fuzzy set-valued $\hat{\Gamma}$ -contractions with applications	2021	AIMS Mathematics	6	10	10431	10448
1188	Akash M.S.H., Rehman K., Jabeen K., Fiayyaz F., Sabir S., Ejaz ul Haq M.	Assessment of knowledge, attitude and practice of Pakistani population about the risk factors, causes, complications and management of diabetes mellitus	2021	Journal of the Pakistan Medical Association	71	1B	286	296
1189	Ahmad M.M.	Characterization and antioxidant activities of polysaccharides extracted from flageolet bean pods waste	2021	Current Research in Green and Sustainable Chemistry	4			
1190	Abbas A., Kanwar K., Aslam B., Bilal M., Yaseen K., Ali A., Qayyum F., Zafar N.	Determination Of Antimicrobial, Ph, Bile Salt, And Gastric Juice Tolerance Properties Of Lactobacilli Isolated From Human Milk	2021	International Food Research Journal	28	2	302	308
1191	Waqas H., Hussain M., Alqarni M.S., Eid M.R., Muhammad T.	Numerical simulation for magnetic dipole in bioconvection flow of Jeffrey nanofluid with swimming motile microorganisms	2021	Waves in Random and Complex Media				

1192	Tahir M., Almanjahie I.M., Abid M., Ahmad I.	On Estimation of Three-Component Mixture of Distributions via Bayesian and Classical Approaches	2021	Mathematical Problems in Engineering	2021			
1193	Zhao X., Ali H., Ali B., Binyamin M.A., Liu J.-B., Raza A.	Statistics and Calculation of Entropy of Dominating David Derived Networks	2021	Complexity	2021			
1194	Khan I., Seleiman M.F., Chattha M.U., Jalal R.S., Mahmood F., Hassan F.A.S., Izzet W., Alhammad B.A., Ali E.F., Roy R., Uslu O.S., Hassan M.U.	Enhancing antioxidant defense system of mung bean with a salicylic acid exogenous application to mitigate cadmium toxicity	2021	Notulae Botanicae Horti Agrobotanici Cluj-Napoca	49	2	1	15
1195	Malik H.A., Sabih R., Khan H., Asrar A., Asif M.	Comparison of intravitreal bevacizumab versus intravitreal ranibizumab in treatment naive macular edema patients (Real world evidence in pakistan)	2021	Pakistan Journal of Ophthalmology	37	2	192	197
1196	Li H., Xu X., Rafique M.Z., Naqvi S.A.A., Nadeem A.M.	What drives the environmental performance? Evidence from asian countries	2021	Polish Journal of Environmental Studies	30	4	3685	3697

1197	Tariq S.M., Hanhui Z., Yang J., Ibrahim M., Wang L., Tasleem A.	Extraction of zinc metal ions from aqueous solution using ionic liquids	2021	Global Nest Journal	23	1	29	34
1198	Ramzan M., Aziz A., Ghaffar M.	A study of code-mixing and code-switching (Urdu and Punjabi) in children's early speech	2021	Journal of Language and Linguistic Studies	17	2	869	881
1199	Faizan Muneer, Nadeem H., Arif A., Zaheer W.	Bioplastics from Biopolymers: An Eco-Friendly and Sustainable Solution of Plastic Pollution	2021	Polymer Science - Series C	63	1	47	63
1200	Hina S., Saleem F., Arshad A., Hina A., Ullah I.	Droughts over Pakistan: possible cycles, precursors and associated mechanisms	2021	Geomatics, Natural Hazards and Risk	12	1	1638	1668
1201	Bukhari S.A., Tanveer M., Mustafa G., Zia-Ud-Den N.	Magnetic Field Stimulation Effect on Germination and Antioxidant Activities of Presown Hybrid Seeds of Sunflower and Its Seedlings	2021	Journal of Food Quality	2021			

1202	Pirasteh-Anosheh H., Mirhosseini A., Akram N.A., Hasanuzzaman M.	Forage potential of salsola species in arid-saline rangelands	2021	Turkish Journal of Botany	45	3	203	215
1203	Rashid Q., Yaseen H.M., Jamshaid M.T.	A generalization of lindley distribution with properties and application	2021	Proceedings of the Pakistan Academy of Sciences: Part A	57	3	39	46
1204	Masih A., Rafique A., Jabeen F., Naz S.	Molecular epidemiology of bovine babesiosis in punjab, Pakistan	2021	Acta Scientiae Veterinariae	49			
1205	Zhou S.-S., Rashid S., Set E., Garba A.A., Hamed Y.S.	On more general inequalities for weighted generalized proportional hadamard fractional integral operator with applications	2021	AIMS Mathematics	6	9	9154	9176
1206	Hafeez A., Akram W., Sultan A., Konca Y., Ayasan T., Naz S., Shahzada W., Khan R.U.	Effect of dietary inclusion of taurine on performance, carcass characteristics and muscle micro-measurements in broilers under cyclic heat stress	2021	Italian Journal of Animal Science	20	1	872	877

1207	Shagari M.S., Shi Q.-H., Rashid S., Foluke U.I., Abualnaja K.M.	Fixed points of nonlinear contractions with applications	2021	AIMS Mathematics	6	9	9378	9396
1208	Afzal S.A., Hussain F., Siyal S.H., Javed M.S., Saleem M., Imran M., Assiri M.A., Bahajjaj A.A.A., Ghfar A.A., Al- Anazy M.M., Ouladsmene M., Al- Tamrah S., Ali S.	Weight loss during calcination and sintering process of na0.5bi0.5tio3â€“bi1/2(mg2/3nb1/3)o3 composite lead-free piezoelectric ceramics	2021	Coatings	11	6		
1209	Qurat-UI-Ain H., Ijaz M., Siddique A.B., Muzammil S., Shafique M., Rasool M.H., Almatroudi A., Khurshid M., Chaudhry T.H., Aslam B.	Efficacy of phage-antibiotic combinations against multidrug- resistant klebsiella pneumoniae clinical isolates	2021	Jundishapur Journal of Microbiology	14	1		
1210	Fareed M.M., El-Esawi M.A., El-Ballat E.M., Batiha G.E.-S., Rauf A., El-Demerdash F.M., Alhumaydhi F.A.,	In Silico Drug Screening Analysis against the Overexpression of PGAM1 Gene in Different Cancer Treatments	2021	BioMed Research International	2021			

	Alsagaby S.A.							
1211	Asim M., Aftab M., Bhatti S.H., Ahmad T., Ali Shah S.M., Akram M.	Identifying factors causing decline in physical functionality of geriatric population	2021	European Journal of Inflammation	19			
1212	Chu Y.-M., Rauf A., Rashid S., Batool S., Hamed Y.S.	Quantum estimates in two variable forms for Simpson-type inequalities considering generalized $\tilde{I}^{\alpha}$ -convex functions with applications	2021	Open Physics	19	1	305	326
1213	Ghazal T.M., Anam M., Hasan M.K., Hussain M., Farooq M.S., Ali H.M.A., Ahmad M., Soomro T.R.	Hep-pred: Hepatitis C staging prediction using fine gaussian SVM	2021	Computers, Materials and Continua	69	1	191	203
1214	Gulzar M., Mateen M.H., Chu Y.-M., Alghazzawi D., Abbas G.	Generalized direct product of complex intuitionistic fuzzy subrings	2021	International Journal of Computational Intelligence Systems	14	1	582	593

1215	Shah P.A., Khan T., Syed H.K., Qamer N., Pervaiz A., Zaidi H.A., Iqbal M.S., Khan S.-U.-D., Khan J.	Formulation and evaluation of combined tablet of drotaverine-hcl and piroxicam	2021	Latin American Journal of Pharmacy	40	5	926	935
1216	Arshad M., Saleem S., Raoof R., Sultana N.	The impact of media on entrepreneurship participation: a cross-country panel data analysis	2021	Bottom Line	34	2	124	142
1217	Aslam A., Shah S., Abbas G., Rahman M.-U., Chaudhary Z., Ahmed M.M., Khurram H., Rasul A., Ali M.Y., Chand U.R., Haris M.	Community pharmacists interest and attitudes to pharmacy practice research in Pakistan: A cross-sectional study	2021	Latin American Journal of Pharmacy	40	5	1015	1020
1218	Javaid A., Akbar I., Javed H., Khan U., Iftikhar H., Zahra D., Rashid F., Ashfaq U.A.	Role of heavy metals in diabetes: Mechanisms and treatment strategies	2021	Critical Reviews in Eukaryotic Gene Expression	31	3	65	80
1219	Hussain S.M., Bashir M., Nasir S., Shah S.Z.H., Aslam N., Shahzad M.M., Ahsan S., Hanif S., Hussain M., Ahmad N.	Efficacy of Probiotics Supplementation on Growth Performance, Carcass Composition and Hematological Parameters of Cyprinus carpio Fingerlings Fed Corn Gluten Meal-Based Diet	2021	Brazilian Archives of Biology and Technology	64		1	12

1220	Faiz F.U.H., Shakoor R., Raheem A., Umer F., Rasheed N., Farhan M.	Modeling and Analysis of 3 MW Solar Photovoltaic Plant Using PVSyst at Islamia University of Bahawalpur, Pakistan	2021	International Journal of Photoenergy	2021			
1221	Saleem I., Tahir S.H., Batool Z.	Beyond diversity: Why the inclusion is imperative for boards to promote sustainability among agile non-profit organisations?	2021	International Journal of Agile Systems and Management	14	2	254	275
1222	Ejaz H., Ahmad M., Younas S., Junaid K., Abosalif K.O.A., Abdalla A.E., Alameen A.A.M., Elamir M.Y.M., Bukhari S.N.A., Ahmad N., Qamar M.U.	Molecular epidemiology of extensively-drug resistant acinetobacter baumannii sequence type 2 co-harboring blandm and bla _{oxa} from clinical origin	2021	Infection and Drug Resistance	14		1931	1939
1223	Ali M., Imran M., Khan M.K., Ahmad M.H., Muhammad N.	Functional and Oxidative Quality Characterization of Spray-Dried Omega-3-Enriched Milk Powder	2021	Journal of Food Quality	2021			
1224	Bukhari S.A., Farah N., Mahmood S., Altaf J., Mustafa G.	Effects of Seed Priming with Zinc Sulfate on Nutritional Enrichment and Biochemical Fingerprints of Momordica charantia	2021	Journal of Food Quality	2021			

1225	Kanwal U., Mukhtar S., Waheed M., Mehreen A., Abbas N., Shamim R., Hussain K., Rasool F., Hussain A., Bukhari N.I.	Fixed dose single tablet formulation with differential release of amlodipine besylate and simvastatin and its pharmacokinetic profile: Qbd and risk assessment approach	2021	Drug Design, Development and Therapy	15		2193	2210
1226	Asad M., Jabeen F., Ayaz S.	Assessment of ameliorative effect of Trigonella foenum-graecum against CuO-NPs induced toxicity in Oreochromis mossambicus	2021	Pakistan Journal of Pharmaceutical Sciences	34	1	387	395
1227	Asghar A., Aamir M.N., Shah M.A., Syed S.K., Munir R.	Development, characterization and evaluation of in vitro anti-inflammatory activity of Withania coagulans extract and extract loaded microemulsion	2021	Pakistan Journal of Pharmaceutical Sciences	34	1	473	479
1228	Aziz-Ur-Rehman, Khan S.G., Naqvi S.A.R., Ahmad M., Akhtar N., Bokhari T.H., Irfan M., Usman A., Batool S., Rasool S., Shah S.A.A., Shahid M.	Synthesis, spectral analysis and biological evaluation of 2-[[{(morpholin-4-yl)ethyl]thio}-5-phenyl/aryl-1,3,4-oxadiazole derivatives	2021	Pakistan Journal of Pharmaceutical Sciences	34	1	441	446
1229	Thind S., Hussain I., Ali S., Rasheed R., Ashraf M.A.	Silicon Application Modulates Growth, Physio-Chemicals, and Antioxidants in Wheat (Triticum aestivum L.) Exposed to Different Cadmium Regimes	2021	Dose-Response	19	2		

1230	Iqbal S., Bokhari T.H., Latif S., Imran M., Javaid A., Mitu L.	Structural and Morphological Studies of V2O5/MWCNTs and ZrO2/MWCNTs Composites as Photocatalysts	2021	Journal of Chemistry	2021			
1231	Ijaz M.U., Shahzadi S., Samad A., Ehsan N., Ahmed H., Tahir A., Rehman H., Anwar H.	Dose-Dependent Effect of Polystyrene Microplastics on the Testicular Tissues of the Male Sprague Dawley Rats	2021	Dose-Response	19	2		
1232	Chen S.-B., Asghar S.S., Binyamin M.A., Iqbal Z., Mahmood T., Aslam A.	On the First Three Extremum Values of Variable Sum Exdeg Index of Trees	2021	Complexity	2021			
1233	Rasheed A., Zafar B., Shehryar T., Aslam N.A., Sajid M., Ali N., Dar S.H., Khalid S.	Requirement Engineering Challenges in Agile Software Development	2021	Mathematical Problems in Engineering	2021			
1234	Anwar H., Iftikhar A., Muzaffar H., Almatroudi A., Allemailem K.S., Navaid S., Saleem S., Khurshid M.	Biodiversity of Gut Microbiota: Impact of Various Host and Environmental Factors	2021	BioMed Research International	2021			

1235	Zainab S., Raza M., SokÅÅ, J., Malik S.N.	On Starlike Functions Associated with Cardioid Domain	2021	Publications de l'Institut Mathematique	109	123	95	107
1236	Bhattacharya T., Maishu S.P., Akter R., Rahman Md.H., Akhtar M.F., Saleem A., Bin-Jumah M., Kamel M., Abdel- Latif M.A., Abdel-Daim M.M.	A review on natural sources derived protein nanoparticles as anticancer agents	2021	Current Topics in Medicinal Chemistry	21	12	1014	1026
1237	Javed H., Firdousi S.F., Murad M., Jiatong W., Abrar M.	Exploring disposition decision for sustainable reverse logistics in the era of a circular economy: Applying the triple bottom line approach in the manufacturing industry	2021	International Journal of Supply and Operations Management	8	1	53	68
1238	Zhou S.-S., Rashid S., Rauf A., Jarad F., Hamed Y.S., Abualnaja K.M.	Efficient computations for weighted generalized proportional fractional operators with respect to a monotone function	2021	AIMS Mathematics	6	8	8001	8029

1239	Arif M., Rani L., Raza M., Zaprawa P.	Fourth Hankel Determinant for the Set of Star-Like Functions	2021	Mathematical Problems in Engineering	2021			
1240	Anwar H., Hussain G., Rasul A., Ali Shah S.M., Naqvi S.A.R., Bukhari S.A., Sohail M.U., Faisal M.N., Mustafa I., Munir N., Nisar J., Shaukat A., Muzafer H.	Potential role of probiotic species in ameliorating oxidative stress, effect on liver profile and hormones in male albino rat model	2021	European Journal of Inflammation	19			
1241	Raza H., Gillani S.M.A.H., Kashif M.T., Khan N.	The Impact of Corporate Social Responsibility on Share Price: A Systematic Review and Bibliometric Analysis	2021	Estudios de Economia Aplicada	39	4		
1242	Noor F., Alshamrani R., Gull M., Mehmood M.A., Aslam S.	Identification of conserved and novel mature miRNAs in selected crops as future targets for metabolic engineering	2021	Asian Journal of Agriculture and Biology	2021	2	1	12
1243	Song P., Ali H., Binyamin M.A., Ali B., Liu J.-B.	On Computation of Entropy of Hex-Derived Network	2021	Complexity	2021			

1244	Aslam R., Hussain T., Yousaf A.M., Ghorri M.U., Khan I.U., Rizvi S.A.A., Shahzad Y.	Onychomycosis: Current understanding and strategies for enhancing drug delivery into human nail tissue	2021	Current Drug Research Reviews	13	1	25	35
1245	Shabbir A., Rasheed A., Shehraz H., Saleem A., Zafar B., Sajid M., Ali N., Dar S.H., Shehryar T.	Detection of glaucoma using retinal fundus images: A comprehensive review	2021	Mathematical Biosciences and Engineering	18	3	2033	2076
1246	Ejaz H., Younas S., Qamar M.U., Junaid K., Abdalla A.E., Abosalif K.O.A., Alameen A.A.M., Elamir M.Y.M., Ahmad N., Hamam S.S.M., Salem E.H.M., Bukhari S.N.A.	Molecular epidemiology of extensively drug-resistant mcr encoded colistin-resistant bacterial strains co-expressing multifarious β -lactamases	2021	Antibiotics	10	4		
1247	Ul Haq M.E., Akash M.S.H., Rehman K., Mahmood M.H.	Essential oils downregulate pro-inflammatory cytokines and nitric oxide-mediated oxidative stress in alloxan-induced diabetogenic rats	2021	Endocrine, Metabolic and Immune Disorders - Drug Targets	21	4	756	767
1248	Iqbal S.Z., Abdull Razis A.F., Usman S., Ali N.B., Asi M.R.	Variation of deoxynivalenol levels in corn and its products available in retail markets of punjab, pakistan, and estimation of risk assessment	2021	Toxins	13	5		

1249	Sherwani R.A.K., Naeem M., Aslam M., Raza M.A., Abid M., Abbas S.	Neutrosophic Beta Distribution with Properties and Applications	2021	Neutrosophic Sets and Systems	41		209	214
1250	Alrehaili N.A., Aslam M.A., Alahmadi D.H., Alrehaili D.A., Asif M., Arshad Malik M.S.	Ontology-Based Smart System to Automate Higher Education Activities	2021	Complexity	2021			
1251	Abid F., Saleem M., Zaidi A.A., Mobashar A., Yasir S.	Acacia modesta attenuates MnCl ₂ induced hepatotoxicity, oxidative stress and hepatic inflammation in wistar rats	2021	Pakistan Journal of Pharmaceutical Sciences	34	1	265	274
1252	Hafeez F., Zahoor A.F., Rasul A., Ahmad S., Mansha A.	Synthesis and anticancer evaluation of 2-oxo-2-(arylamino) ethyl 4-phenylpiperazine-1-carbodithioates	2021	Pakistan Journal of Pharmaceutical Sciences	34	1	353	357
1253	Taj M., Khadimallah M.A., Hussain M., Mahmood S., Safeer M., Al Naim A.F., Ahmad M.	Confinement effectiveness of Timoshenko and Euler Bernoulli theories on buckling of microfilaments	2021	Advances in Concrete Construction	11	1	81	88

1254	Saddique F.A., Ahmad M., Ashfaq U.A., Mansha A., Khan S.G.	Alpha-glucosidase inhibition and molecular docking studies of 4-hydroxy-n'-[benzylidene/1-phenylethylidene]-2h-1,2-benzothiazine-3-carbohydrazide 1,1-dioxides	2021	Chiang Mai Journal of Science	48	2	460	469
1255	Tariq A., Tanveer Y.	Organic consumption through ICT: A moderated mediation model of consumer attitude and perceived irritation	2021	Human Systems Management	40	2	223	234
1256	Mustafa G., Mahrosh H.S., Arif R.	Sequence and Structural Characterization of Toll-Like Receptor 6 from Human and Related Species	2021	BioMed Research International	2021			
1257	Shokat Z., Ali A., Ahmed U., Javed M.R., Qasim M., Tariq M., Ahmed M.R., Masoud M.S.	Mesenchymal Stem Cells: From Regeneration to Drug Delivery Systems	2021	Critical reviews in therapeutic drug carrier systems	38	3	33	73
1258	Khan A.S., Muhammad S., Ambreen J., Farooq M., Ihsan J., Haleem A., Usman M., Siddiq M.	Fabrication of Manganese Oxide-silica Based Functional Polymer Composite Membranes and Their Environmental Application	2021	Polymer-Plastics Technology and Materials	60	13	1420	1432
1259	Amin M., Abbas M., Baleanu D., Iqbal M.K., Riaz M.B.	Redefined extended cubic B-spline functions for numerical solution of time-fractional telegraph equation	2021	CMES - Computer Modeling in Engineering and Sciences	127	1	361	384

1260	Bhatti S.H., Azeem M., Ahmad T., Raza M.A.	Modified moment estimators based on non-conventional measures for the power function distribution	2021	Journal of Statistical Computation and Simulation	91	15	3048	3068
1261	Arshed M., Nasir S., Hussain T., Babar M.I., Imran M.	Comparison efficacy of synthetic chemicals and plant extracts for tick control	2021	Slovenian Veterinary Research	58	1	13	23
1262	Batool S.A., Ahmad H., Gillani S.M.A.H., Raza H., Siddique M., Khan N., Qureshi M.I.	Investigating the causal linkage among economic growth, energy consumption, urbanization and environmental quality in asean-5 countries	2021	International Journal of Energy Economics and Policy	11	3	319	327
1263	Ge-JiLe H., Rashid S., Farooq F.B., Sultana S.	Some inequalities for a new class of convex functions with applications via local fractional integral	2021	Journal of Function Spaces	2021			
1264	Tariq H., Hanif M.K., Sarwar M.U., Bari S., Sarfraz M.S., Oskouei R.J.	Employing deep learning and time series analysis to tackle the accuracy and robustness of the forecasting problem	2021	Security and Communication Networks	2021			

1265	Qureshi R., Qamar M.U., Shafique M., Muzammil S., Rasool M.H., Ahmad I., Ejaz H.	Antibacterial efficacy of silver nanoparticles against metallo- Î²-lactamase (blaNDM, blaVIM, blaOXA) producing clinically isolated Pseudomonas aeruginosa	2021	Pakistan Journal of Pharmaceutical Sciences	34	1	237	243
1266	Mustafa G., Mahrosh H.S., Arif R.	In Silico characterization of growth differentiation factors as inhibitors of TNF-alpha and IL-6 in immune-mediated inflammatory disease rheumatoid arthritis	2021	BioMed Research International	2021			
1267	Hussain I., Rehman K., Ashraf M.A., Rasheed R., Gul J., Akash M.S.H., Bashir R.	Effect of Pharmaceutical Effluents on Growth, Oxidative Defense, Secondary Metabolism, and Ion Homeostasis in Carrot	2021	Dose-Response	19	2		
1268	Shah S., Hanif M., Shahzad M.A., Saadullah M., Mahmood K., Aslam A., Bi Bi Z., Abbas N., Ahmed M.M., Khan S.M., Abbas G., Iqbal O., Ashfaq M.	Sensitive inexpensive hplc-uv method for estimation of cyproterone acetate in pharmaceuticals	2021	Latin American Journal of Pharmacy	40	4	808	812
1269	Naz S., Perveen S.	Response of wheat (Triticum aestivum L. var. Galaxy-2013) to pre-sowing seed treatment with thiourea under drought stress	2021	Pakistan Journal of Botany	53	4	1209	1217

1270	Zafar S., Iqbal N., Haider M.Z., Rafique M., Ali M.	Responses of spring sown maize (Zea mays L.) genotypes to aspergillus flavus inoculation: Grain yield and quality attributes	2021	Pakistan Journal of Botany	53	4	1507	1513
1271	Shah S., Chaudhary Z., Rahman M.-U., Saadullah M., Aslam A., Abbas G., Kazmi A., Shah M.A., Tahir S., Nayab K.	Iron chelation therapy in β^2 -thalassemia major showing non-inferiority of oral chelator over parenteral chelator	2021	Latin American Journal of Pharmacy	40	4	655	662
1272	Adnan M., Rasul A., Hussain G., Shah M.A., Sarfraz I., Nageen B., Riaz A., Khalid R., Asrar M., Selamoglu Z., Adem Åž., Sarker S.D.	Physcion and physcion 8-o- β^2 -d-glucopyranoside: Natural anthraqui-nones with potential anticancer activities	2021	Current Drug Targets	22	5	488	504
1273	Nawaz Z., Rasool M.H., Siddique A.B., Zahoor M.A., Muzammil S., Shabbir M.U., Javaid A., Chaudhry M.	Prevalence and risk factors of syphilis among blood donors of Punjab, Pakistan	2021	Tropical Biomedicine	38	1	106	110
1274	Saeed F., Ullah Khan A., Mushtaq Z., Afzaal M., Niaz B., Hussain M., Hameed A., Ahmad A., Anjum F.M., Suleria H.A.	Amino acid profile and safety assessment of infant formula available in local market, Pakistan	2021	International Journal of Food Properties	24	1	533	543

1275	Hu M., Ali H., Binyamin M.A., Ali B., Liu J.-B., Fan C.	On Distance-Based Topological Descriptors of Chemical Interconnection Networks	2021	Journal of Mathematics	2021			
1276	Abbas A., Naqvi S.A.R., Rasool M.H., Noureen A., Mubarik M.S., Tareen R.B.	Phytochemical Analysis, Antioxidant and Antimicrobial Screening of Seriphidium Oliverianum Plant Extracts	2021	Dose-Response	19	1		
1277	Ullah S., Al-Sehemi A.G., Klemeš J.J., Saqib S., Gondal S.M.A., Saqib S., Arshad A., Saqib H., Mukhtar A., Ibrahim M., Asif S., Bokhari A.	A review of the progress of COVID-19 vaccine development [COVID-19 ağırlı gelinme sürecine bir değerlendirme]	2021	Duzce Medical Journal	23	Special Issue 1	1	23
1278	Shahzad S., Omar B.	Social network matters: The influence of online social capital on youth political participation in Pakistan	2021	Journal of Information Technology and Politics	18	4	430	442
1279	Sarwar G., Nazir A., Rizwan M., Shahzadi E., Mahmood A.	Genetic Diversity among Cotton Genotypes for Earliness, Yield and Fiber Quality Traits using Correlation, Principal Component and Cluster Analyses	2021	Sarhad Journal of Agriculture	37	1	307	314
1280	Ahmed T., Wu Z., Jiang H., Luo J., Noman M., Shahid M., Manzoor I., Allemailem K.S., Alrumaihi F., Li B.	Bioinspired green synthesis of zinc oxide nanoparticles from a native bacillus cereus strain rnt6: Characterization and antibacterial activity against rice panicle blight pathogens burkholderia glumae and B. Gladioli	2021	Nanomaterials	11	4		

1281	Mahrosh H.S., Mehmood R., Bukhari S.A., Afzal G., Arif R.	Investigation of Hypoglycemic Peptides Derived from Conserved Regions of adMc1 to Reveal Their Antidiabetic Activities	2021	BioMed Research International	2021			
1282	Usman A., Bahmani-Oskoe M., Anwar S., Ullah S.	IS THERE J-CURVE EFFECT in the TRADE between PAKISTAN and UNITED KINGDOM? ASYMMETRIC EVIDENCE from INDUSTRY LEVEL DATA	2021	Singapore Economic Review				
1283	Yousaf M.T.B., Nawaz M.F., Zia ur Rehman M., Gul S., Yasin G., Rizwan M., Ali S.	Effect of three different types of biochars on eco-physiological response of important agroforestry tree species under salt stress	2021	International Journal of Phytoremediation	23	13	1412	1422
1284	Mushtaq A., Mustafa G., Ansari T.M., Shad M.A., Cruz-Reyes J., Jamil A.	Antiviral activity of hexapeptides derived from conserved regions of bacterial proteases against HCV NS3 protease	2021	Pakistan Journal of Pharmaceutical Sciences	34	1	215	223
1285	Ge-JiLe H., Nazeer M., Hussain F., Khan M.I., Saleem A., Siddique I.	Two-phase flow of MHD Jeffrey fluid with the suspension of tiny metallic particles incorporated with viscous dissipation and Porous Medium	2021	Advances in Mechanical Engineering	13	3		
1286	Kausar S., Said Khan F., Ishaq Mujeeb Ur Rehman M., Akram M., Riaz M., Rasool G., Hamid Khan A., Saleem I., Shamim S., Malik A.	A review: Mechanism of action of antiviral drugs	2021	International Journal of Immunopathology and Pharmacology	35			

1287	Den N.Z.U., Bukhari S.A., Iftikhar T., Mustafa G.	Biochemical and phenolic acid profiling of sunflower hybrid varietiesâ€™ seed treated with different bio-priming agents	2021	Pakistan Journal of Botany	53	3	981	989
1288	Asif M., Yousaf H.M., Saleem M., Saadullah M., Chohan T.A., Shamas M.U., Yaseen H.S., Mahrukh, Yousaf M.U., Yaseen M.	Trigonella foenum-graecum seeds oil attenuated inflammation and angiogenesis in vivo through down-regulation of tnf- α	2021	Anti-Cancer Agents in Medicinal Chemistry	21	11	1460	1471
1289	Mahmood-Ur-rahman, Shaheen T., Zaib P., Abbas M.F., Mehboob-Ur-rahman, Arif A.	Identification, characterization and interaction studies of di19-2 gene from gossypium arboreum	2021	Pakistan Journal of Botany	53	2	483	492
1290	Bilal M.H., Mehmood R., Fakhar-E-alam M., Munir T., Saadullah M., Mahmood A., Majeed S.S., Ghafar N., Sohail A., Mehmood-Ur-rehman K.	Biocompatible graphene oxide (Go) nanobiosensor used for quantitative analysis of glucose	2021	Digest Journal of Nanomaterials and Biostructures	16	1	19	24
1291	Srivastava H.M., Arif M., Raza M.	Convolution properties of meromorphically harmonic functions defined by a generalized convolution q-derivative operator	2021	AIMS Mathematics	6	6	5869	5885

1292	Asma, Hussain I., Ashraf M.Y., Ashraf M.A., Rasheed R., Iqbal M., Anwar S., Shereen A., Khan M.A.	Assessment of rice (<i>Oryza sativa</i> L.) genotypes for drought stress tolerance using morpho-physiological indices as a screening technique	2021	Pakistan Journal of Botany	53	1	45	58
1293	Niaz B., Zahid F.M., Hongjuan L., Wei W., Lizhi Y., Niaz Y., Iftikhar F., Dong R.	Catalyst-Free Microwave Digestion and Estimation of Nitrogen and Phosphorus Contents in Chicken Manure Adopting Competitive Analytical Methods	2021	Communications in Soil Science and Plant Analysis	52	15	1811	1818
1294	SUMRRA S.H., IMRAN M., IBRAHIM M., AMBREEN S., MEHMOOD R., ASSIRI M.A., IRFAN A.	In-vitro antimicrobial screening and coordination behavior of metals based bidentate compounds	2021	Journal of the Chilean Chemical Society	65	1	5057	5062
1295	Alwabli A.S., Kaci A., Bellifa H., Bousahla A.A., Tounsi A., Alzahrani D.A., Abulfaraj A.A., Bourada F., Benrahou K.H., Tounsi A., Mahmoud S.R., Hussain M.	The nano scale buckling properties of isolated protein microtubules based on modified strain gradient theory and a new single variable trigonometric beam theory	2021	Advances in Nano Research	10	1	15	24
1296	Akhtar M.S., Rehman A.-U., Arshad H., Malik A., Fatima M., Tabassum T., Raza A.R., Bukhsh M., Murtaza M.A.,	In Vitro Antioxidant Activities and the Therapeutic Potential of Some Newly Synthesized Chalcones Against 4-Acetaminophenol Induced Hepatotoxicity in Rats	2021	Dose-Response	19	1		

	Mehmood M.H., Sultan A., Rasool G., Riaz M.							
1297	Anjum A., Anwar H., Sohail M.U., Ali Shah S.M., Hussain G., Rasul A., Ijaz M.U., Nisar J., Munir N., Shahzad A.	The association between serum cortisol, thyroid profile, paraoxonase activity, arylesterase activity and anthropometric parameters of undergraduate students under examination stress	2021	European Journal of Inflammation	19			
1298	Shifa M.S., Khan M.I., Mustaqeem M., Munir T., Gilani Z.A., Noor Ul Huda Khan Asghar H.M., Ahmed M.S., Qureshi I.	Structural, morphological study of neodymium substituted cobalt zinc ferrites nanoparticles synthesized via co-precipitation method	2021	Journal of Ovonic Research	17	1	89	98
1299	Rafi N., Ahmed A., Shafique I., Kalyar M.N.	Knowledge management capabilities and organizational agility as liaisons of business performance	2021	South Asian Journal of Business Studies				
1300	Tanveer A., Naz S., Rafique A., Ashraf A.	Prevalence of Endo-parasites in Peafowls (<i>Pavo cristatus</i>) under Captivity Stress and Ameliorative Effect of Anti-Helminthic Drugs	2021	Pakistan Journal of Zoology	53	2	627	633
1301	Rehman M.U., Rasul A., Khan M.I., Rasool M., Abbas G., Masood F., Nazir I., Iqbal M., Islam N., Hameed M., Shah P.A.	Oral bioavailability studies of niosomal formulations of Cyclosporine A in albino rabbits	2021	Pakistan Journal of Pharmaceutical Sciences	34	1	313	319

1302	Mustafa A., Wan-Kadir W.M.N., Ibrahim N., Shah M.A., Younas M., Khan A., Zareei M., Alanazi F.	Automated test case generation from requirements: A systematic literature review	2021	Computers, Materials and Continua	67	2	1819	1833
1303	Aslam M.S., Younas M., Sarwar M.U., Shah M.A., Khan A., Uddin M.I., Ahmad S., Firdausi M., Zaindin M.	Liver-Tumor detection using CNN ResUNet	2021	Computers, Materials and Continua	67	2	1899	1914
1304	Ilyas S., Rasool M.H., Arshed M.J., Qamar M.U., Aslam B., Almatroudi A., Khurshid M.	The escherichia coli sequence type 131 harboring extended-spectrum beta-lactamases and carbapenemases genes from poultry birds	2021	Infection and Drug Resistance	14		805	813
1305	Imtiaz A., Shuaib U., Razaq A., Gulistan M.	Image development in the framework of $\hat{\mathbb{I}}^{\frac{3}{4}}$ -complex fuzzy morphisms	2021	Journal of Intelligent and Fuzzy Systems	40	3	4425	4437

1306	Zhang L., He F., Gao L., Cong M., Sun J., Xu J., Wang Y., Hu Y., Asghar S., Hu L., Qiao H.	Engineering exosome-like nanovesicles derived from <i>Asparagus cochinchinensis</i> can inhibit the proliferation of hepatocellular carcinoma cells with better safety profile	2021	International Journal of Nanomedicine	16		1575	1586
1307	Ibrahim H.M., Syed H.K., Affan M., Anees S., Loh G.O.K., Iqbal M.S., Khan S.-U.-D., Al-Saikhan F.I.	Stability indicating isocratic rp-hplc method for simultaneous estimation of amlodipine and valsartan in pharmaceutical solid dosage form	2021	Latin American Journal of Pharmacy	40	3	546	556
1308	Rashid S., Parveen S., Ahmad H., Chu Y.-M.	New quantum integral inequalities for some new classes of generalized $\tilde{\eta}$ -convex functions and their scope in physical systems	2021	Open Physics	19	1	35	50
1309	Waqas M., Haider A., Rehman A., Qasim M., Umar A., Sufyan M., Akram H.N., Mir A., Razzaq R., Rasool D., Tahir R.A., Sehgal S.A.	Immunoinformatics and Molecular Docking Studies Predicted Potential Multiepitope-Based Peptide Vaccine and Novel Compounds against Novel SARS-CoV-2 through Virtual Screening	2021	BioMed Research International	2021			
1310	Javaid A., Ashfaq U.A., Zafar Z., Akmal A., Taj S., Khalid H.	Phytochemical analysis and antidiabetic potential of <i>armoracia rusticana</i> : Pharmacological and computational approach	2021	Combinatorial Chemistry and High Throughput Screening	24	3	465	471

1311	Ahmed U., Khaliq S., Ahmad H.U., Ahmad I., Ashfaq U.A., Qasim M., Masoud M.S.	Pathogenesis of diabetic cardiomyopathy and role of mirna	2021	Critical Reviews in Eukaryotic Gene Expression	31	1	79	92
1312	Javaid A., Zahra D., Asim A., Javaid N., Ashfaq U.A.	Recent updates on the role of nanoparticles in the treatment of viral diseases	2021	Critical Reviews in Therapeutic Drug Carrier Systems	38	2	75	102
1313	Bashir M., Hameed A., Bari M.W., Ullah R.	The Impact of Age-Diverse Workforce on Organization Performance: Mediating Role of Job Crafting	2021	SAGE Open	11	1		
1314	Hussain S., Abid M.A., Munawar K.S., Saddiqa A., Iqbal M., Suleman M., Hussain M., Riaz M., Ahmad T., Abbas A., Rehman M., Amjad M.	Choice of suitable economic adsorbents for the reduction of heavy metal pollution load	2021	Polish Journal of Environmental Studies	30	3	1969	1979
1315	Bashir M., Ahmad J., Asif M., Khan S.-U.-D., Irfan M., Ibrahim A.Y., Asghar S., Khan I.U., Iqbal M.S., Haseeb A., Khalid S.H.,	Nanoemulgel, an innovative carrier for diflunisal topical delivery with profound anti-inflammatory effect: In vitro and in vivo evaluation	2021	International Journal of Nanomedicine	16		1457	1472

	Abourehab M.A.S.							
1316	Uddin M.S., Hasana S., Hossain M.F., Islam M.S., Behl T., Perveen A., Hafeez A., Ashraf G.M.	Molecular genetics of early- and late-onset alzheimerâ€™s disease	2021	Current Gene Therapy	21	1	43	52
1317	Irfan M.M., Shah S.U., Khan I.U., Munir M.U., Khan N.R., Shah K.U., Ur Rehman S., Sohaib M., Basit H.M., Mahmood S.	Physicochemical characterization of finasteride nanosystem for enhanced topical delivery	2021	International Journal of Nanomedicine	16		1207	1220
1318	Nageen B., Rasul A., Hussain G., Shah M.A., Anwar H., Hussain S.M., Uddin M.S., Sarfraz I., Riaz A., Selamoglu Z.	Jaceosidin: A natural flavone with versatile pharmacological and biological activities	2021	Current Pharmaceutical Design	27	4	456	466
1319	Ejaz S., Zubair M., Rizwan K., Karakaya I., Rasheed T., Rasool N.	An updated coverage on the synthesis of benzo[b]thiophenes via transition-metal-catalyzed reactions: A review	2021	Current Organic Chemistry	25	1	40	67

1320	Safdar M.R., Akram M., Sher F., Rehman A.	Socioeconomic determinants of caste-based endogamy: A qualitative study	2021	Journal of Ethnic and Cultural Studies	8	2	39	54
1321	Habib S., Farid G., Mubeen S.	GrÃ¼ss type integral inequalities for a new class of k-fractional integrals	2021	International Journal of Nonlinear Analysis and Applications	12	1	541	554
1322	Adeel S., Rehman F., Pervaiz M., Hussaan M., Amin N., Majeed A., Rehman H.	Microwave Assisted Green Isolation of Laccaic Acid from Lac Insect (Kerria lacca) for Wool Dyeing	2021	Progress in Color, Colorants and Coatings	14	4	293	299
1323	Javed I., Tang X., Shaukat K., Sarwar M.U., Alam T.M., Hameed I.A., Saleem M.A.	V2X-Based Mobile Localization in 3D Wireless Sensor Network	2021	Security and Communication Networks	2021			
1324	Ahmad N., Shabbir U., Sameen A., Manzoor M.F., Ahmad M.H., Ismail T., Ahmed S., Siddique R.	Hypocholesterolemic effect of designer yogurts fortified with omega fatty acids and dietary fibers in hypercholesterolemic subjects	2021	Food Science and Technology (Brazil)	41	4	1000	1008
1325	Nawaz Z., Aslam B., Zahoor M.A., Siddique A.B., Rafique A., Aslam R., Qamar M.U., Ali S., ul Mubeen M.	Frequency of extended spectrum beta lactamase producing escherichia coli in fresh and frozen meat	2021	Pakistan Veterinary Journal	41	1	102	106

1326	Javed A., Hussain M.B., Tahir A., Waheed M., Anwar A., Shariati M.A., Plygun S., Laishvce A., Pasalar M.	Pharmacological applications of phlorotannins: A comprehensive review	2021	Current Drug Discovery Technologies	18	2	282	292
1327	Mathew B., Harilal S., Musa A., Kumar R., Parambi D.G.T., Jose J., Uddin M.S., Shah M.A., Behl T., Unnikrishnan M.K.	An agathokakological tale of Δ^9 -thc: Exploration of possible biological targets	2021	Current Drug Targets	22	7	823	834
1328	Mushtaq B.S., Hussain M.B., Omer R., Toor H.A., Waheed M., Shariati M.A., Sergey P., Heydari M.	Moringa oleifera in malnutrition: A comprehensive review	2021	Current Drug Discovery Technologies	18	2	235	243
1329	Zhou S.-S., Rashid S., Parveen S., Akdemir A.O., Hammouch Z.	New computations for extended weighted functionals within the hilfer generalized proportional fractional integral operators	2021	AIMS Mathematics	6	5	4507	4525
1330	Iqbal Z., Ishaq M., Binyamin M.A.	Depth and stanley depth of the edge ideals of the strong product of some graphs	2021	Hacettepe Journal of Mathematics and Statistics	50	1	92	109

1331	Shahid S., Sultana T., Sultana S., Hussain B., Irfan M., Al-Ghanim K.A., A-Misned F., Mahboob S.	Histopathological alterations in gills, liver, kidney and muscles of ictalurus punctatus collected from pollutes areas of river [Alterações histopatológicas em brânquias, fígado, rim e músculos de ictalurus punctatus coletados em áreas poluídas do rio]	2021	Brazilian Journal of Biology	81	3	814	821
1332	Butt S.I., Rashid S., Tariq M., Wang M.-K.	Novel Refinements via n -Polynomial Harmonically s -Type Convex Functions and Application in Special Functions	2021	Journal of Function Spaces	2021			
1333	Rashid S., Butt S.I., Kanwal S., Ahmad H., Wang M.-K.	Quantum Integral Inequalities with Respect to Raina's Function via Coordinated Generalized $\hat{\eta}$ -Convex Functions with Applications	2021	Journal of Function Spaces	2021			
1334	Mukhtar I., Anwar H., Mirza O.A., Ali Q., Ijaz M.U., Hume M., Prabhala B.K., Iftikhar A., Hussain G., Sohail M.U., Khan K.U.R.	Sulpiride Serves, a Substrate for the Gut Microbiome	2021	Dose-Response	19	1		
1335	Akram M., Nasar A., Safdar M.R., Sher F.	Restorative justice approach to cow vigilante violence in India	2021	Journal of Ethnic and Cultural Studies	8	1	190	205
1336	Habiba U., Nisar J., Choochan M.A., Shah S.M.A., Nisar Z., Mustafa I.	Antibacterial Activity of Tris NaCl and PBS Buffer Protein Extract of Cassia fistula, Saccharum officinarum, Albizia lebbeck and Cymbopogon citrates Against Bacterial Strains	2021	Dose-Response	19	1		

1337	Qureshi H., Anwar T., Habib N., Ali Q., Haider M.Z., Yasmin S., Munazir M., Basit Z., Waseem M.	Multiple comparisons of diversity indices invaded by Lantana camara [Análises múltiplas de Índices de diversidade da invasiva Lantana camara]	2021	Brazilian Journal of Biology	81	1	83	91
1338	Roohi S., Rizvi S.K., Naqvi S.A.R.	¹⁷⁷ Lu-DOTATATE Peptide Receptor Radionuclide Therapy: Indigenously Developed Freeze Dried Cold Kit and Biological Response in In-Vitro and In-Vivo Models	2021	Dose-Response	19	1		
1339	Muzammil S., Siddique M.H., Mureed F., Andleeb R., Jabeen F., Waseem M., Zafar S., Rehman H.F., Ali T., Ashraf A.	Assessment of cadmium tolerance and biosorptive potential of bacillus cereus GCFSD01 isolated from cadmium contaminated soil [Avaliação da tolerância ao cádmio e do potencial bioabsorptivo de bacillus cereus GCFSD01 isolado de solo contaminado com cádmio]	2021	Brazilian Journal of Biology	81	2	398	405
1340	Asad F., Qamer S., Ashraf A., Ali T., Shaheen Z., Akhter S., Nisar A., Parveen A., Cheema N., Mustafa G.	Masculinization in common carp (Cyprinus carpio) by androgen immersion: The interaction effect of hormone concentration and immersion time [Masculinização na carpa comum (Cyprinus carpio) por imersão em androgênio: efeito da interação da concentração hormonal e do tempo de imersão]	2021	Brazilian Journal of Biology	81	2	285	290
1341	Rasool M.H., Mehmood A., Saqalein M., Nisar M.A., Almatroudi A., Khurshid M.	Development, Biological Characterization, and Immunological Evaluation of Virosome Vaccine against Newcastle Disease in Pakistan	2021	BioMed Research International	2021			

1342	NAZ S., NAEEM M.N.	On the Generalization of I^q Fractional Hilfer Katugampola Derivative with Cauchy Problem	2021	Turkish Journal of Mathematics	45	1	110	124
1343	Shah S.H.H., Noor S., Lei S., Butt A.S., Ali M.	Role of privacy/safety risk and trust on the development of presumption and value co-creation under the sharing economy: a moderated mediation model	2021	Information Technology for Development	27	4	718	735
1344	Shah S.Z.H., Afzal M., Fatima M., Hussain S.M., Ahmed T.	Nutrient digestibility in Labeo rohita fingerlings fed citric acid acidified phytase sprayed diet	2021	Pakistan Journal of Zoology	53	2	459	465
1345	Bokhari T.H., Bano S., Tanveer M., Khan S.G., Hina S., Jilani M.I., Latif M., Ibrahim S.M., Iqbal M., Nazir A.	Estimation of mineral composition, antioxidant, antimicrobial, biofilm activity and hplc profile of halothamnus auriculus	2021	Polish Journal of Environmental Studies	30	2	1557	1562
1346	Kashif M., Shahzad A., Nasir N., Kamran K., Munir T., Shifa M.S., Yaseen M., Hussain A., Anjum N., Ghani S.	Electronic and optical properties modulation of lacuose by strain	2021	Journal of Ovonic Research	17	1	45	51
1347	Ghaffar A., Sehgal S.A., Fatima R., Batool R., Aimen U., Awan S., Batool S., Ahmad F.,	Molecular docking analyses of CYP450 monooxygenases of Tribolium castaneum (Herbst) reveal synergism of quercetin with paraoxon and tetraethyl pyrophosphate: In vivo and in	2021	Toxicology Research	9	3	212	221

	Nurulain S.M.	silico studies						
1348	Inam Bhutta A., Sheikh M.F., Munir A., Naz A., Saif I.	Managerial ability and firm performance: Evidence from an emerging market	2021	Cogent Business and Management	8	1		
1349	Shah P.A., Syed H.K., Pervaiz A., Gohar U.F., Saleem M., Iqbal M.S., Liew K.B., Khan S.-U.-D., Al-Saikhani F.I.	Development and validation of in vitro-in vivo correlation (Ivirc) model for microparticulate lornoxicam loaded controlled release tablet	2021	Latin American Journal of Pharmacy	40	2	370	377
1350	Massud A., Umar M.H., Iqbal M.S., Ahmed B., Qadir M.I.	Formulation and evaluation of sustained release bilayer tablets of naproxen and tizanidine	2021	Latin American Journal of Pharmacy	40	2	390	397
1351	Shah S., Ahmed M.M., Mahmood-Ur-rahman, Chaudhry Z., Aslam A., Nisar N., Abbas G., Khurram H., Mukhtar A., Noureen S., Zulfiqar N.	Utilization of self-medication, prescription medication and herbal remedies during pregnancy in Punjab, Pakistan	2021	Latin American Journal of Pharmacy	40	2	339	346
1352	Khan S., Hayat S., Khan A., Malik M.Y.H., Cao J.	Hamilton-connectedness and hamilton-laceability of planar geometric graphs with applications	2021	AIMS Mathematics	6	4	3947	3973

1353	Mohsen B.B., Awan M.U., Javed M.Z., Noor M.A., Noor K.I.	Some New Ostrowski-Type Inequalities Involving $\bar{I}^{\alpha}$ -Fractional Integrals	2021	Journal of Mathematics	2021			
1354	Idrees N., Kamal S.	Modelling of wheat production in punjab through the regularized regression approach while addressing multicollinearity	2021	Pakistan Journal of Agricultural Sciences	58	1	179	186
1355	Hashim M., Nazam M., Abrar M., Hussain Z., Nazim M., Shabbir R.	Unlocking the Sustainable Production Indicators: A Novel TESCO based Fuzzy AHP Approach	2021	Cogent Business and Management	8	1		
1356	Siddique R., Zahoor A.F., Ahmad S., Ahmad H., Mansha A., Zahid F.M., Faisal S., Aadil R.M.	Gc-ms analysis of pahs in charcoal grilled rabbit meat with and without additives	2021	Food Science and Technology (Brazil)	41		702	707
1357	Shoaib M., Abbas Z., Yousaf M., Zameer R., Ahmed J., Saqib S.	The role of GHRM practices towards organizational commitment: A mediation analysis of green human capital	2021	Cogent Business and Management	8	1		
1358	Akram N., Saeed M., Usman M., Mansha A., Anjum F., Zia K.M., Mahmood I., Mumtaz N., Gul Khan W.	Influence of graphene oxide contents on mechanical behavior of polyurethane composites fabricated with different diisocyanates	2021	Polymers	13	3	1	16

1359	Zulfiqar H., Masoud M.S., Yang H., Han S.-G., Wu C.-Y., Lin H.	Screening of Prospective Plant Compounds as H1R and CL1R Inhibitors and Its Antiallergic Efficacy through Molecular Docking Approach	2021	Computational and Mathematical Methods in Medicine	2021			
1360	Ahmad A., Mubarak N.M., Jannat F.T., Ashfaq T., Santulli C., Rizwan M., Najda A., Bin-Jumah M., Abdel-Daim M.M., Hussain S., Ali S.	A critical review on the synthesis of natural sodium alginate based composite materials: An innovative biological polymer for biomedical delivery applications	2021	Processes	9	1	1	27
1361	Siddique K., Hussain S., Shahid M., Shahzad T., Mahmood F., Sadak O., Gunasekaran S., Kamal T., Ahmad I.	Comparative Efficacy of Biogenic Silver Nanoparticles Synthesized by Pseudochrobactrum spp. C5 and Chemically Synthesized Silver Nanoparticles for Catalytic Degradation of Methylene Blue and 4-Nitrophenol Dyes	2021	International Journal of Agriculture and Biology	25	1	201	210
1362	Imran M., Bano S., Manzoor A., Azeem M., Rehman T., Yousaf S., But M., Hussain T., Qaisar U.	Ectopic Expression of Fiber Related Gbwril Complements Seed Phenotype in Arabidopsis thaliana	2021	International Journal of Agriculture and Biology	25	1	123	130
1363	Zafar S., Rasul A., Iqbal M.S., Rasool M., Ahmed B., Qadir M.I.	Nanobiotechnology: Cradle for revolution in drug carrier systems	2021	Pakistan Journal of Pharmaceutical Sciences	34	1	185	196

1364	Din A., Jahangir Chughtai M.F., Mehmood T., Khaliq A., Nadeem M., Ahsan S., Amir R.M., Abrar M., Saeed K., Manzoor M.S.	Shelf Life Extension of Mango Fruit by using Non-Preservative Technique	2021	International Journal of Fruit Science	21	1	232	241
1365	Saeed F., Hussain M., Arshad M.S., Afzaal M., Munir H., Imran M., Tufail T., Anjum F.M.	Functional and nutraceutical properties of maize bran cell wall non-starch polysaccharides	2021	International Journal of Food Properties	24	1	233	248
1366	Malik M.Y.H., Hayat S., Khan S., Binyamin M.A.	Predictive potential of spectrum-based topological descriptors for measuring the π -electronic energy of benzenoid hydrocarbons with applications to boron triangular and boron $\pm$ -nanotubes	2021	Mathematical Methods in the Applied Sciences				
1367	Kaur G., Behl T., Bungau S., Kumar A., Uddin M.S., Mehta V., Zengin G., Mathew B., Shah M.A., Arora S.	Dysregulation of the gut-brain axis, dysbiosis and influence of numerous factors on gut microbiota associated parkinson's disease	2021	Current Neuropharmacology	19	2	233	247
1368	Wu S., Awan M.U., Ullah M.U., Talib S., Kashuri A.	Some Integral Inequalities for n -Polynomial η -Preinvex Functions	2021	Journal of Function Spaces	2021			
1369	Waqas H., Manzoor U., Shah Z., Arif M., Shutaywi M.	Magneto-Burgers Nanofluid Stratified Flow with Swimming Motile Microorganisms and Dual Variables Conductivity Configured by a Stretching Cylinder/Plate	2021	Mathematical Problems in Engineering	2021			

1370	Yousaf I., Nasir S., Hussain S.M., Rafique A., Ijaz M.U., Asrar M., Saif-Ur-rehman, Ahmad B., Khan N.A., Iftikhar M.	The mosquito microbiome: Analysis for endemic and emerging pathogens of public health significance in district Faisalabad, Pakistan	2021	Pakistan Journal of Agricultural Sciences	58	1	161	167
1371	Rizwan Z., Aslam N., Zafar F., Humma R., Jamil A.	Isolation of novel cyclotide encoding genes from some solanaceae species and evolutionary link to other families	2021	Pakistan Journal of Agricultural Sciences	58	1	169	177
1372	Azeem F., Hussain M., Hussain S., Zubair M., Nadeem H., Ali M.A., Afzal M., Siddique M.H.	Genome-wide analysis and expression profiling of potassium transport related genes in solanum tuberosum	2021	Pakistan Journal of Agricultural Sciences	58	1	81	94
1373	Jabeen F., Adrees M., Ibrahim M., Yamin M., Batool S.A., Mahmood A., Khalid S.	Estimation of greenhouse gases emission from domestic solid waste of faisalabad city and schemed formula thereof	2021	Pakistan Journal of Agricultural Sciences	58	1	69	79
1374	Karthick R., Ramkumar R., Akram M., Kumar M.V.	Overcome the challenges in bio-medical instruments using IOT - A review	2021	Materials Today: Proceedings	45		1614	1619
1375	ur Rehman M.Z., Waqar M., Bashir S., Rizwan M., Ali S., El Baroudy A.A.E.F., Khalid H., Ayub M.A., Usman M., Jahan	Effect of biochar and compost on cadmium bioavailability and its uptake by wheatâ€”rice cropping system irrigated with untreated sewage water: a field study	2021	Arabian Journal of Geosciences	14	2		

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1376	Anam M., Ponnusamy V., Hussain M., Nadeem M.W., Javed M., Goh H.G., Qadeer S.	Osteoporosis prediction for trabecular bone using machine learning: a review	2021	Computers, Materials and Continua	67	1	89	105
1377	Ejaz H., Younas S., Abosalif K.O.A., Junaid K., Alzahrani B., Alsrhani A., Abdalla A.E., Ullah M.I., Qamar M.U., Hamam S.S.M.	Molecular analysis of blaSHV, blaTEM, and blaCTX-M in extended-spectrum $\hat{I}^2$ -lactamase producing enterobacteriaceae recovered from fecal specimens of animals	2021	PLoS ONE	16	45292		
1378	Chu Y.-M., Talib S., Set E., Awan M.U., Noor M.A.	(p , q) -Analysis of Montgomery identity and estimates of (p , q) -bounds with applications	2021	Journal of Inequalities and Applications	2021	1		
1379	Rammy S.A., Abbas W., Mahmood S.S., Riaz H., Rehman H.U., Abideen R.Z.U., Aqeel M., Zhang W.	Sequence-to-sequence deep neural network with spatio-spectro and temporal features for motor imagery classification	2021	Biocybernetics and Biomedical Engineering	41	1	97	110
1380	Rashid S., Hammouch Z., Ashraf R., Chu Y.-M.	New computation of unified bounds via a more general fractional operator using generalized mittag-leffler function in the kernel	2021	CMES - Computer Modeling in Engineering and	126	1	359	378

				Sciences				
1381	Islam N., Irfan M., Khan S.-U.-D., Syed H.K., Iqbal M.S., Khan I.U., Mahdy A., Raafat M., Hossain M.A., Inam S., Munir R., Ishtiaq M.	Poloxamer-188 and d- α -tocopheryl polyethylene glycol succinate (tpgs-1000) mixed micelles integrated orodispersible sublingual films to improve oral bioavailability of ebastine in vitro and in vivo characterization	2021	Pharmaceutics	13	1	1	21
1382	MAHEEN S., RASUL A., KHAN H.U., ABBAS G., SAADULLAH M., AFZAL S., SHARIF M., AFZAL K., TARIQ F., SHAH P.A.	Co-estimation of saxagliptin and enalapril in lipospheres: Hplc method development, validation and optimization using response surface technique	2021	Acta Poloniae Pharmaceutica - Drug Research	77	5	673	684
1383	Munir M., Kausar N., Davvaz B., Gulistan M., Gulzar M.	Studying semigroups using the properties of their prime m-ideals	2021	Bulletin of Irkutsk State University, Series Mathematics	4		109	125
1384	Saeed M.Y., Awais M., Younas M., Shah M.A., Khan A., Uddin M.I., Mahmoud M.	An abstractive summarization technique with variable length keywords as per document diversity	2021	Computers, Materials and Continua	66	3	2409	2423

1385	Noman A., Aqeel M., Khalid N., Hashem M., Alamari S., Zafar S., Qasim M., Irshad M.K., Qari S.H.	Spike glycoproteins: Their significance for corona viruses and receptor binding activities for pathogenesis and viral survival	2021	Microbial Pathogenesis	150			
1386	Tanzeem-Ul-haq H.S., Rasool B., Ehtisham-Ul- haque S., Saif S., Zafar S., Younis T., Akhtar I., Jafri L., Iqbal N., Masood N., LewiÅ„ska K., Iqbal M.	Chitosan with bentonite and biochar in ni-affected soil reduces grain ni concentrations, improves soil enzymes and grain quality in lentil	2021	Minerals	11	1	1	19
1387	Javaid M.S., Khan Z.A., Mansha A., Shahzad S.A.	Iodine mediated carbocyclization reactions in organic syntheses: A review	2021	Synthetic Communications	51	7	997	1022
1388	Chen Z., Maqbool J., Sajid F., Hussain G., Sun T.	Human gut microbiota and its association with pathogenesis and treatments of neurodegenerative diseases	2021	Microbial Pathogenesis	150			
1389	Ali S., Nawaz M.A., Ghufran M., Hussain S.N., Hussein Mohammed A.S.	GM trust shaped by trust determinants with the impact of risk/benefit framework: the contingent role of food technology neophobia	2021	GM Crops and Food	12	1	170	191

1390	Abouelregal A.E., Moustapha M.V., Nofal T.A., Rashid S., Ahmad H.	Generalized thermoelasticity based on higher-order memory- dependent derivative with time delay	2021	Results in Physics	20			
1391	Iqbal S., Nadeem S., Bahadur A., Javed M., Ahmad Z., Ahmad M.N., Shoaib M., Liu G., Mohyuddin A., Raheel M.	The Effect of Ni-Doped ZnO NPs on the Antibacterial Activity and Degradation Rate of Polyacrylic Acid-Modified Starch Nanocomposite	2021	JOM	73	1	380	386
1392	Rubab S., Bahadur S., Hanif U., Durrani A.I., Sadiqa A., Shafique S., Zafar U., Shuaib M., Urooj Z., Nizamani M.M., Iqbal S.	• Phytochemical and antimicrobial investigation of methanolic extract/fraction of Ocimum basilicum L.	2021	Biocatalysis and Agricultural Biotechnology	31			
1393	Perveen S., Mushtaq M.N., Yousaf M., Sarwar N.	Allelopathic hormesis and potent allelochemicals from multipurpose tree Moringa oleifera leaf extract	2021	Plant Biosystems	155	1	154	158
1394	Saira, Khan M.F., Ahmad M.S., Tabassum S., Yasmin S., Aziz F., Khan M.S., Khan A.A., Ali S., Jamil J., Kalsoom, Khan F.A., Khattak M.R., Ahmed R., Sthanader	Association of polymorphisms in inflammatory cytokine genes with the development of head and neck cancer in Pakistani population	2021	Journal of King Saud University - Science	33	1		

	A.A., Qamer S.							
1395	Nazeer M., Khan M.I., Kadry S., Chu Y., Ahmad F., Ali W., Irfan M., Shaheen M.	Regular perturbation solution of Couette flow (non-Newtonian) between two parallel porous plates: a numerical analysis with irreversibility	2021	Applied Mathematics and Mechanics (English Edition)	42	1	127	142
1396	Ashraf M.A., Rasheed R., Zafar S., Iqbal M., Saqib Z.A.	Menadione sodium bisulfite neutralizes chromium phytotoxic effects in okra by regulating cytosolutes, lipid peroxidation, antioxidant system and metal uptake	2021	International Journal of Phytoremediation	23	7	736	746
1397	Ahmed T., Ren H., Noman M., Shahid M., Liu M., Ali M.A., Zhang J., Tian Y., Qi X., Li B.	Green synthesis and characterization of zirconium oxide nanoparticles by using a native Enterobacter sp. and its antifungal activity against bayberry twig blight disease pathogen Pestalotiopsis versicolor	2021	NanoImpact	21			
1398	Ahmed S., Rashid M.A.R., Zafar S.A., Azhar M.T., Waqas M., Uzair M., Rana I.A., Azeem F., Chung G., Ali Z., Atif R.M.	Genome-wide investigation and expression analysis of APETALA-2 transcription factor subfamily reveals its evolution, expansion and regulatory role in abiotic stress responses in Indica Rice (Oryza sativa L. ssp. indica)	2021	Genomics	113	1P2	1029	1043

1399	Jamal Z.A., Abou-Shaara H.F., Qamer S., Alhumaidi Alotaibi M., Ali Khan K., Fiaz Khan M., Amjad Bashir M., Hannan A., AL-Kahtani S.N., Taha E.-K.A., Ishtiaq Anjum S., Attaullah M., Raza G., Ansari M.J.	Future expansion of small hive beetles, <i>Aethina tumida</i> , towards North Africa and South Europe based on temperature factors using maximum entropy algorithm	2021	Journal of King Saud University - Science	33	1		
1400	Alqarni M.S., Waqas H., Imran M., Alghamdi M., Muhammad T.	Thermal transport of bio-convection flow of micropolar nanofluid with motile microorganisms and velocity slip effects	2021	Physica Scripta	96	1		
1401	Ali M., Afzal S., Parveen A., Kamran M., Javed M.R., Abbasi G.H., Malik Z., Riaz M., Ahmad S., Chattha M.S., Ali M., Ali Q., Uddin M.Z., Rizwan M., Ali S.	Silicon mediated improvement in the growth and ion homeostasis by decreasing Na ⁺ uptake in maize (<i>Zea mays</i> L.) cultivars exposed to salinity stress	2021	Plant Physiology and Biochemistry	158		208	218
1402	Shah A.A., Aslam S., Akbar M., Ahmad A., Khan W.U., Yasin N.A., Ali B., Rizwan M., Ali S.	Combined effect of <i>Bacillus fortis</i> IAGS 223 and zinc oxide nanoparticles to alleviate cadmium phytotoxicity in <i>Cucumis melo</i>	2021	Plant Physiology and Biochemistry	158		1	12

1403	Naseem A., Akhtar S., Manzoor M.F., Sameen A., Layla A., Afzal K., Karrar E., Rahaman A., Ismail T., Ahmad N., Siddeeg A.	Effect of herbal formulation intake on health indices in albino Wistar rat model	2021	Food Science and Nutrition	9	1	441	448
1404	Imran M., Saeed F., Gilani S.A., Shariati M.A., Imran A., Afzaal M., Atif M., Tufail T., Anjum F.M.	Fisetin: An anticancer perspective	2021	Food Science and Nutrition	9	1	3	16
1405	Asghar M., Rehmani M.A., Ali Q.-U.-A.S.	Haveli paintings: further explorations of Baba Sir Khem Singh Bedi's Haveli in Punjab/Pakistan	2021	South Asian History and Culture	12	1	75	92
1406	Riaz M.U., Guang L.X., Zafar M., Shahzad F., Shahbaz M., Lateef M.	Consumers' purchase intention and decision-making process through social networking sites: a social commerce construct	2021	Behaviour and Information Technology	40	1	99	115
1407	Iman S., Saleem U., Ahmad B.	Preclinical assessment of antiurolithiatic activity of mangifera indica seeds on ethylene glycol induced urolithiasis in rat model	2021	Pakistan Veterinary Journal	41	1	92	96
1408	Akram M., Daniyal M., Sultana S., Owais A., Akhtar N., Zahid R., Said F., Bouyahya A., Ponomarev E., Ali Shariat M., Thiruvengadam M.	Traditional and modern management strategies for rheumatoid arthritis	2021	Clinica Chimica Acta	512		142	155

1409	Mukhtar S., Xiaoxiong Z., Qamer S., Saad M., Mubarik M.S., Mahmoud A.H., Mohammed O.B.	Hepatoprotective activity of silymarin encapsulation against hepatic damage in albino rats	2021	Saudi Journal of Biological Sciences	28	1	717	723
1410	Akram R., Iqbal R., Hussain R., Jabeen F., Ali M.	Evaluation of Oxidative stress, antioxidant enzymes and genotoxic potential of bisphenol A in fresh water bighead carp (<i>Aristichthys nobilis</i>) fish at low concentrations	2021	Environmental Pollution	268			
1411	Nadeem M.A., Liu Z., Younis A., Asghar F., Ghani U., Xu Y.	How governance structure, terrorism, and internationalisation affect innovation? Evidence from Pakistan	2021	Technology Analysis and Strategic Management	33	6	670	684
1412	Bukhari S.A., Mustafa G., Bashir S., Tahir M.F., Anjum F.	In vitro biological evaluation and dna damage protection activities of <i>cotoneaster afghanicus</i> g.Klotz and <i>tamarix arceuthoides bunge</i> extracts	2021	Pakistan Journal of Botany	53	1	197	202
1413	Majid I., Hussain S., Nanda V., Jabeen F., Mehmood Abbasi A., Alkahtani J., Soliman Elshikh M., Azhar Khan M., Usmani S., Javed Ansari M.	Changes in major flavonols and quercetin glycosides upon sprouting in onion cultivars	2021	Journal of King Saud University - Science	33	1		
1414	Ghayyur S., Khan M.F., Tabassum S., Ahmad M.S., Sajid M., Badshah K., Khan M.A., Saira,	A comparative study on the effects of selected pesticides on hemato-biochemistry and tissue histology of freshwater fish <i>Cirrhinus mrigala</i> (Hamilton, 1822)	2021	Saudi Journal of Biological Sciences	28	1	603	611

	Ghayyur S., Khan N.A., Ahmad B., Qamer S.							
1415	Waqas H., Khan S.A., Khan S.U., Khan M.I., Kadry S., Chu Y.-M.	Falkner-Skan time-dependent bioconvrction flow of cross nanofluid with nonlinear thermal radiation, activation energy and melting process	2021	International Communications in Heat and Mass Transfer	120			
1416	Qamer S., Al-Abbadi A.A., Sajid M., Asad F., Khan M.F., Khan N.A., Sthanadar A.A., Akhtar M.N., Mahmoud A.H., Mohammed O.B.	Genetic analysis of honey bee, Apis dorsata populations using random amplified polymorphic DNA (RAPD) markers	2021	Journal of King Saud University - Science	33	1		
1417	Mahmood H., Khan I.U., Asif M., Khan R.U., Asghar S., Khalid I., Khalid S.H., Irfan M., Rehman F., Shahzad Y., Yousaf A.M., Younus A., Niazi Z.R., Asim M.	In vitro and in vivo evaluation of gellan gum hydrogel films: Assessing the co impact of therapeutic oils and ofloxacin on wound healing	2021	International Journal of Biological Macromolecules	166		483	495
1418	Chu Y.-M., Nazeer M., Khan M.I., Hussain F., Rafi H., Qayyum S., Abdelmalek Z.	Combined impacts of heat source/sink, radiative heat flux, temperature dependent thermal conductivity on forced convective Rabinowitsch fluid	2021	International Communications in Heat and Mass Transfer	120			

1419	Arif M., Ali S., Ilyas M., Riaz M., Akhtar K., Ali K., Adnan M., Fahad S., Khan I., Shah S., Wang H.	Enhancing phosphorus availability, soil organic carbon, maize productivity and farm profitability through biochar and organicâ€‘inorganic fertilizers in an irrigated maize agroecosystem under semi-arid climate	2021	Soil Use and Management	37	1	104	119
1420	Almaghbash Z.A.A.R., Arbouche O., Dahani A., Cherifi A., Belabbas M., Zenati A., Mebarki H., Hussain A.	Thermoelectric and Piezoelectric Properties in Half-Heusler Compounds $TaXSn$ ($X = Co, Rh$ and Ir) Based on Ab Initio Calculations	2021	International Journal of Thermophysics	42	1		
1421	Latif M.M., Haq A.-U., Amin F., Ajaz-un-Nabi M., Khan I.-U., Sabir N.	Synthesis and antimicrobial activities of Manganese (Mn) and iron (Fe) co-doped Cerium dioxide (CeO_2) Nanoparticles	2021	Physica B: Condensed Matter	600			
1422	Ahmed T., Noman M., Shahid M., Shahid M.S., Li B.	Antibacterial potential of green magnesium oxide nanoparticles against rice pathogen <i>Acidovorax oryzae</i>	2021	Materials Letters	282			
1423	Bano K., Raza M., Thomas D.K.	On the coefficients of $B_1(\hat{I} \pm)$ Bazilevič• functions	2021	Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales - Serie A: Matemáticas	115	1		
1424	Abbas Z., Nazir H.Z., Abid M., Akhtar N., Riaz M.	Nonparametric progressive sign chart for monitoring process location based on individual data	2021	Quality Technology and Quantitative Management	18	2	225	247

1425	Abou-Shaara H.F., Syed Abbas A., AL-Kahtani S.N., Taha E.-K.A., Ali Khan K., Jamal Z.A., Alhumaidi Alotaibi M., Ahmad B., Ahmad Khan N., Qamer S., Ishtiaq Anjum S., Khan S., Hossam Mahmoud A., Mohammed O.B., Gamal El Den Nasser M.	Exploring the non-coding regions in the mtDNA of some honey bee species and subspecies	2021	Saudi Journal of Biological Sciences	28	1	204	209
1426	Ahmad Saddique F., Ahmad M., Kanwal A., Aslam S., Fawad Zahoor A.	Recent trends toward the synthesis of fused-benzothiazines and their derivatives	2021	Synthetic Communications	51	3	351	378
1427	Ud Din N., Cheng X., Ahmad B., Sheikh M.F., Adedigba O.G., Zhao Y., Nazneen S.	Gender diversity in the audit committee and the efficiency of internal control and financial reporting quality	2021	Economic Research-Ekonomska Istrazivanja	34	1	1170	1189
1428	Shafique I., Kalyar M.N., Mehwish N.	Organizational ambidexterity, green entrepreneurial orientation, and environmental performance in SMEs context: Examining the moderating role of perceived CSR	2021	Corporate Social Responsibility and Environmental Management	28	1	446	456

1429	Javid M., Qu X., Huang F., Li X., Farid A., Shah A., Duan Y., Zhang Z., Dong X., Pan L.	In-situ synthesis of SiC/Fe nanowires coated with thin amorphous carbon layers for excellent electromagnetic wave absorption in GHz range	2021	Carbon	171		785	797
1430	Jadoon I.A., Ali A., Ayub U., Tahir M., Mumtaz R.	The impact of sustainability reporting quality on the value relevance of corporate sustainability performance	2021	Sustainable Development	29	1	155	175
1431	Munir N., Jahangeer M., Hussain S., Mahmood Z., Ashiq M., Ehsan F., Akram M., Ali Shah S.M., Riaz M., Sana A.	Hantavirus diseases pathophysiology, their diagnostic strategies and therapeutic approaches: A review	2021	Clinical and Experimental Pharmacology and Physiology	48	1	20	34
1432	Irshad S., Sultana H., Usman M., Saeed M., Akram N., Yusaf A., Rehman A.	Solubilization of direct dyes in single and mixed surfactant system: A comparative study	2021	Journal of Molecular Liquids	321			
1433	Jabeen S., Sherazi T.A., Ullah R., Naqvi S.A.R., Rasheed M.A., Ali G., Shah A.U., Khan Y.	Electrodeposition-assisted formation of anodized TiO ₂ ‐CuO heterojunctions for solar water splitting	2021	Applied Nanoscience (Switzerland)	11	1	79	90
1434	Maqsood A., Shahid M., Hussain S., Mahmood F., Azeem F., Tahir M., Ahmed T., Noman M.,	Root colonizing Burkholderia sp. AQ12 enhanced rice growth and upregulated tillering-responsive genes in rice	2021	Applied Soil Ecology	157			

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1435	Saddique F.A., Farhad M., Aslam S., Ahmad M.	Recent synthetic methodologies for the tricyclic fused-quinoline derivatives	2021	Synthetic Communications	51	1	13	36
1436	Pervaiz S., Khan I.A., Hussain S.A., Kanwal N., Farid A., Saleem M.	Polymer Based ZnO-SiO ₂ Nanocomposite Flexible Sheets as High Dielectric Materials	2021	Journal of Inorganic and Organometallic Polymers and Materials	31	1	209	219
1437	Kamran M., Danish M., Saleem M.H., Malik Z., Parveen A., Abbasi G.H., Jamil M., Ali S., Afzal S., Riaz M., Rizwan M., Ali M., Zhou Y.	Application of abscisic acid and 6-benzylaminopurine modulated morpho-physiological and antioxidative defense responses of tomato (<i>Solanum lycopersicum</i> L.) by minimizing cobalt uptake	2021	Chemosphere	263			
1438	Naqvi S.A.A., Shah S.A.R., Anwar S., Raza H.	Renewable energy, economic development, and ecological footprint nexus: fresh evidence of renewable energy environment Kuznets curve (RKC) from income groups	2021	Environmental Science and Pollution Research	28	2	2031	2051
1439	Batool M., Khurshid S., Qureshi Z., Hassan A., Siddique M.B.A., Naveed S., Siddique S.A.	Study of biogenically fabricated transition metal oxides nanoparticles on oral cavity infectious microbial strains	2021	Inorganic and Nano-Metal Chemistry	51	6	856	866

1440	Bari M.W., Mahmood F., Qurrah-tul-ain, Bashir M., Usman M.	The role of instrumental guanxi in the relation between entrepreneurs' social competence and firms' financial performance: A comparative study	2021	Economic Research-Ekonomska Istrazivanja	34	1	243	265
1441	Fatima S., Riaz M., Al-Wabel M.I., Arif M.S., Yasmeen T., Hussain Q., Roohi M., Fahad S., Ali K., Arif M.	Higher biochar rate strongly reduced decomposition of soil organic matter to enhance C and N sequestration in nutrient-poor alkaline calcareous soil	2021	Journal of Soils and Sediments	21	1	148	162
1442	Fatemi H., Esmail Pour B., Rizwan M.	Foliar application of silicon nanoparticles affected the growth, vitamin C, flavonoid, and antioxidant enzyme activities of coriander (<i>Coriandrum sativum</i> L.) plants grown in lead (Pb)-spiked soil	2021	Environmental Science and Pollution Research	28	2	1417	1425
1443	Ali A., Jacob J., Mehboob K., Hussain S., Ashfaq A., Mahmood K., Ikram S., Amin N., Rehman U., Akbar S., Siyal S.H.	Correlation of thermoelectric properties of Cu ₂ ZnSnS ₄ thin films grown by the chemical solution method with sulfur concentration	2021	Journal of Physics and Chemistry of Solids	148			
1444	Khan M.U., Mehboob M.Y., Hussain R., Fatima R., Tahir M.S., Khalid M., Braga A.A.C.	Molecular designing of high-performance 3D star-shaped electron acceptors containing a truxene core for nonfullerene organic solar cells	2021	Journal of Physical Organic Chemistry	34	1		
1445	Rizwan M., Ali S., Rehman M.Z.U., Rinklebe J., Tsang	Effects of selenium on the uptake of toxic trace elements by crop plants: A review	2021	Critical Reviews in Environmental Science	51	21	2531	2566

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1446	Khalid M., Ali A., Asim S., Tahir M.N., Khan M.U., Curcino Vieira L.C., de la Torre A.F., Usman M.	Persistent prevalence of supramolecular architectures of novel ultrasonically synthesized hydrazones due to hydrogen bonding [X=O; X=N]: Experimental and density functional theory analyses	2021	Journal of Physics and Chemistry of Solids	148			
1447	Tariq M., Shah A.A., Yasin N.A., Ahmad A., Rizwan M.	Enhanced performance of Bacillus megaterium OSR-3 in combination with putrescine ameliorated hydrocarbon stress in Nicotiana tabacum	2021	International Journal of Phytoremediation	23	2	119	129
1448	Saleem A., Saleem M., Akhtar M.F., Rasul A., Baig M.M.F.A.	Chemical characterisation, in vitro antioxidant, cytotoxicity and safety evaluation of Polystichum braunii (Spenn.) fern roots	2021	Natural Product Research	35	24	6223	6228
1449	Luqman A., Masood A., Shahzad F., Shahbaz M., Feng Y.	Untangling the adverse effects of late-night usage of smartphone-based SNS among University students	2021	Behaviour and Information Technology	40	15	1671	1687
1450	Muhammad T., Alamri S.Z., Waqas H., Habib D., Ellahi R.	Bioconvection flow of magnetized Carreau nanofluid under the influence of slip over a wedge with motile microorganisms	2021	Journal of Thermal Analysis and Calorimetry	143	2	945	957

1451	Muhammad T., Waqas H., Khan S.A., Ellahi R., Sait S.M.	Significance of nonlinear thermal radiation in 3D Eyringâ€Powell nanofluid flow with Arrhenius activation energy	2021	Journal of Thermal Analysis and Calorimetry	143	2	929	944
1452	Khan S.U., Tlili I., Waqas H., Imran M.	Effects of nonlinear thermal radiation and activation energy on modified second-grade nanofluid with Cattaneoâ€Christov expressions	2021	Journal of Thermal Analysis and Calorimetry	143	2	1175	1186
1453	Aslam M., Raza M.A., Sherwani R.A.K., Farooq M., Jeong J.Y., Jun C.-H.	A mixed control chart for monitoring failure times under accelerated hybrid censoring	2021	Journal of Applied Statistics	48	1	138	153
1454	Qureshi H., Anwar T., Ali Q., Haider M.Z., Habib N., Fatima S., Waseem M., Bibi Y., Arshad M., Adkins S.W.	Isolation of natural herbicidal compound from Lantana camara	2021	International Journal of Environmental Analytical Chemistry	101	5	631	638
1455	Baig S.A., Iqbal S., Abrar M., Baig I.A., Amjad F., Zia-ur-Rehman M., Awan M.U.	Impact of leadership styles on employeesâ€™ performance with moderating role of positive psychological capital	2021	Total Quality Management and Business Excellence	32	45545	1085	1105
1456	Aziz H., Zahoor A.F., Shahzadi I., Irfan A.	Recent Synthetic Methodologies Towards the Synthesis of Pyrazoles	2021	Polycyclic Aromatic Compounds	41	4	698	720

1457	Noureen A., Jabeen F., Tabish T.A., Ali M., Iqbal R., Yaqub S., Shakoor Chaudhry A.	Histopathological changes and antioxidant responses in common carp (<i>Cyprinus carpio</i>) exposed to copper nanoparticles	2021	Drug and Chemical Toxicology	44	4	372	379
1458	Du T., Awan M.U., Kashuri A., Zhao S.	Some k-fractional extensions of the trapezium inequalities through generalized relative semi-(m,h)-preinvexity	2021	Applicable Analysis	100	3	642	662
1459	Manzoor M., Jabeen F., Thomas-Hall S.R., Altaf J., Younis T., Schenk P.M., Qazi J.I.	Sugarcane bagasse as a novel low/no cost organic carbon source for growth of <i>Chlorella</i> sp. BR2	2021	Biofuels	12	9	1067	1073