

List of Publication 2020

Sr. No.	Authors	Title	Year	Source title	Volume	Issue	Page start	Page end
1	Ramesh K., Kumar D., Nazeer M., Waqfi D., Hussain F.	Mathematical modeling of MHD Jeffrey nanofluid in a microchannel incorporated with lubrication effects: A Graetz problem	2020	Physica Scripta	96	2		
2	Mukhtar A., Saqib S., Mellon N.B., Rafiq S., Babar M., Ullah S., Muhammad N., Khan A.L., Ayoub M., Ibrahim M., Maqsood K., Bustam M.A., Al-Sehemi A.G., Klemeš J.J., Asif S., Bokhari A.	A review on CO2 capture via nitrogen-doped porous polymers and catalytic conversion as a feedstock for fuels	2020	Journal of Cleaner Production	277			
3	Alim M.E., Alam N.S.B., Ahmad S.	RFID based Security and Home Automation System using FPGA	2020	7th IEEE International Conference on Engineering Technologies and Applied Sciences, ICETAS 2020				

4	Naeem M.A., Jia X., Saleem M.A., Akbar W., Hussain A., Nazir S., Ahmad K.M.	Vehicle to Everything (V2X) Communication Protocol by Using Vehicular AD-HOC Network	2020	2020 17th International Computer Conference on Wavelet Active Media Technology and Information Processing, ICCWAMTIP 2020			384	388
5	Khalid M., Ali A., Abid S., Tahir M.N., Khan M.U., Ashfaq M., Imran M., Ahmad A.	Facile Ultrasound-Based Synthesis, SC-XRD, DFT Exploration of the Substituted Acyl-Hydrazones: An Experimental and Theoretical Slant towards Supramolecular Chemistry	2020	ChemistrySelect	5	47	14844	14856
6	Munir T., ur Rehman N., Mahmood A., Mahmood K., Ali A., Khan I., Sohail A., Manzoor A.	Structural, optical, electrical and thermo-electrical properties of Cu doped Co9S8-NPs synthesized via co-precipitation method	2020	Chemical Physics Letters	761			
7	Zia F., Zia K.M., Aftab W., Tabasum S., Nazli Z.-I.-H., Mohammadi M., Zuber M.	Synthesis and characterization of graphene nanoplatelets-hydroxyethyl cellulose copolymer-based polyurethane bionanocomposite system	2020	International Journal of Biological Macromolecules	165		1889	1899
8	Hazafa A., Mumtaz M., Farooq M.F., Bilal S., Chaudhry S.N., Firdous M., Naeem H., Ullah M.O., Yameen M., Mukhtiar M.S., Zafar F.	CRISPR/Cas9: A powerful genome editing technique for the treatment of cancer cells with present challenges and future directions	2020	Life Sciences	263			

9	Arshad M.I., Arshad S., Mahmood K., Ali A., Amin N., Umaid-ur-Rehman, Isa M., Akram A., Sabir N., Ajaz-un-Nabi M.	Impact of Mg doping on structural, spectral and dielectric properties of Cd ²⁺ /Cu nano ferrites prepared via sol-gel auto combustion method	2020	Physica B: Condensed Matter	599			
10	Rehman A.U., Morley N.A., Amin N., Arshad M.I., un Nabi M.A., Mahmood K., Ali A., Aslam A., Bibi A., Iqbal M.Z., Iqbal F., Bano N., Alzaid M.	Controllable synthesis of La ³⁺ doped Zn _{0.5} Co _{0.25} Cu _{0.25} Fe ₂ xLa _x O ₄ (x = 0.0, 0.0125, 0.025, 0.0375, 0.05) nano-ferrites by sol-gel auto-combustion route	2020	Ceramics International	46	18	29297	29308
11	Zhang S.-S., Asghar S., Ye J.-X., Lin L., Ping Q.-N., Chen Z.-P., Shao F., Xiao Y.-Y.	A combination of receptor mediated transcytosis and photothermal effect promotes BBB permeability and the treatment of meningitis using itraconazole	2020	Nanoscale	12	46	23709	23720
12	Liu C.-G., Cao L.-Y., Wen Y., Li K., Mehmood M.A., Zhao X.-Q., Bai F.-W.	Intracellular redox manipulation of Zymomonas mobilis for improving tolerance against lignocellulose hydrolysate-derived stress	2020	Chemical Engineering Science	227			
13	Khadimallah M.A., Hussain M.	Effect of power law index for vibration of armchair and zigzag single walled carbon nanotubes	2020	Steel and Composite Structures	37	5	621	632

14	Saleem M.A., Pei L., Saleem M.F., Shahid S., Wang J.	Sustainable dyeing of nylon with disperse dyes in Decamethylcyclopentasiloxane waterless dyeing system	2020	Journal of Cleaner Production	276			
15	Mahmood S., Hussain T., Mahmood F., Ahmad M., Majeed A., Beg B.M., Areej S.	Attitude, Perception, and Knowledge of COVID-19 Among General Public in Pakistan	2020	Frontiers in Public Health	8			
16	Kanwal A., Ullah S., Ahmad M., Pelletier J., Aslam S., Sultan S., SÃ©vigny J., Iqbal M., Iqbal J.	Synthesis and Nucleotide Pyrophosphatase/Phosphodiesterase Inhibition Studies of Carbohydrazides Based on Benzimidazole-Benzothiazine Skeleton	2020	ChemistrySelect	5	45	14399	14407
17	Jilani A., Rehman G.U., Ansari M.O., Othman M.H.D., Hussain S.Z., Dustgeer M.R., Darwesh R.	Sulfonated polyaniline-encapsulated graphene@graphitic carbon nitride nanocomposites for significantly enhanced photocatalytic degradation of phenol: A mechanistic study	2020	New Journal of Chemistry	44	45	19570	19580
18	Akhtar M.F., Saleem A., Rasul A., Faran Ashraf Baig M.M., Bin-Jumah M., Abdel Daim M.M.	Anticancer natural medicines: An overview of cell signaling and other targets of anticancer phytochemicals	2020	European Journal of Pharmacology	888			
19	Li C., Ashraf S.F., Shahzad F., Bashir I., Murad M., Syed N., Riaz	Influence of Knowledge Management Practices on Entrepreneurial and Organizational Performance: A Mediated-Moderation Model	2020	Frontiers in Psychology	11			

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20	Nazam M., Hashim M., Baig S.A., Abrar M., Shabbir R.	Modeling the key barriers of knowledge management adoption in sustainable supply chain	2020	Journal of Enterprise Information Management	33	5	1077	1109
21	Aslam A., Ibrahim M., Shahid I., Mahmood A., Irshad M.K., Yamin M., Ghazala, Tariq M., Shamshiri R.R.	Pollution characteristics of particulate matter (PM2.5 and PM10) and constituent carbonaceous aerosols in a south asian future megacity	2020	Applied Sciences (Switzerland)	10	24	1	17
22	Nazar Z., Akram N.A., Saleem M.H., Ashraf M., Ahmed S., Ali S., Alsahli A.A., Alyemeni M.N.	Glycinebetaine-induced alteration in gaseous exchange capacity and osmoprotective phenomena in safflower (<i>Carthamus tinctorius</i> L.) under water deficit conditions	2020	Sustainability (Switzerland)	12	24	1	18
23	Riaz A., Riaz M.A., Shahzad K., Ijaz B., Khan M.S.	Deposition trend of subchronic exposure of copper oxide nanoparticles (CuO-NPs) and its effect on the antioxidant system of <i>Labeo rohita</i>	2020	International Nano Letters	10	4	279	285

24	Kausar N., Munir M., Gulzar M., Addis G.M., Gulistan M.	Study on left almost-rings by anti fuzzy bi-ideals	2020	International Journal of Nonlinear Analysis and Applications	11	2	483	498
25	Khadimallah M.A., Hussain M., Harbaoui I.	Application of Kelvin's theory for structural assessment of FG rotating cylindrical shell: Vibration control	2020	Advances in Concrete Construction	10	6	499	507
26	Nawaz M., Ishaq S., Ishaq H., Khan N., Iqbal N., Ali S., Rizwan M., Alsahli A.A., Alyemeni M.N.	Salicylic acid improves boron toxicity tolerance by modulating the physio-biochemical characteristics of maize (Zea mays L.) at an early growth stage	2020	Agronomy	10	12		
27	Khalid S.H., Liaqat I., Mallhi T.H., Khan A.H., Ahmad J., Khan Y.H.	Impact of diabetes mellitus on clinico-laboratory characteristics and in-hospital clinical outcomes among patients with myocardial infarction	2020	Journal of the Pakistan Medical Association	70	12	2376	2382
28	Faheem S., Ul Rehman M.S.N., Nahid N., Militky J., Wiener J.	SARS-CoV-2: Brief history and molecular biology ?	2020	Journal of Fiber Bioengineering and Informatics	13	4	181	194

29	Ali F.M., Nawaz M., Ali Q., Noman A., Hussain M., Iqbal N.	Iron chelated lysine: A promising nutrient complex to improve wheat (<i>Triticum Aestivum</i> L.) growth under water deficit environment	2020	Fresenius Environmental Bulletin	29	12	11246	11252
30	Usman Qamar M., S Lopes B., Hassan B., Khurshid M., Shafique M., Atif Nisar M., Mohsin M., Nawaz Z., Muzammil S., Aslam B., Ejaz H., A Toleman M.	The present danger of New Delhi metallo-β-lactamase: A threat to public health	2020	Future Microbiology	15	18	1759	1778
31	Imtiaz S.A., Saeed S., Munir S., Ashfaq U.A.	Subtractive proteomics to identify targets for vaccine development against vancomycin-resistant	2020	Future Microbiology	15	18	1723	1733
32	Ghadanfer L., Usmani S., Marafi F., Kandari F.A., Rasheed R.	Incremental Value of Post Diuretic 68Ga-PSMA-11 PET-CT in Characterization of Indeterminate ILesions in Prostate Cancer	2020	Asian Pacific Journal of Cancer Prevention	21	12	3719	3723
33	Tahir ul Qamar M., Rehman A., Tusleem K., Ashfaq U.A., Qasim M., Zhu X., Fatima I., Shahid F., Chen L.-L.	Designing of a next generation multiepitope based vaccine (MEV) against SARS-COV-2: Immunoinformatics and in silico approaches	2020	PLoS ONE	15	44177		

34	Amen R., Yaseen M., Mukhtar A., KlemeÅi J.J., Saqib S., Ullah S., Al-Sehemi A.G., Rafiq S., Babar M., Fatt C.L., Ibrahim M., Asif S., Qureshi K.S., Akbar M.M., Bokhari A.	Lead and cadmium removal from wastewater using eco-friendly biochar adsorbent derived from rice husk, wheat straw, and corncob	2020	Cleaner Engineering and Technology	1			
35	Ali M., Usman M., Rasheed H., Hempel G., Nawaz H.A., Hanif M., Rasool F., Saleem M.	A systematic review on chromatography-based method validation for quantification of vancomycin in biological matrices	2020	Bioanalysis	12	24	1767	1786
36	Afzal J., Saleem M.H., Batool F., Elyamine A.M., Rana M.S., Shaheen A., El-Esawi M.A., Javed M.T., Ali Q., Ashraf M.A., Hussain G.S., Hu C.	Role of ferrous sulfate (FeSo4) in resistance to cadmium stress in two rice (Oryza sativa L.) genotypes	2020	Biomolecules	10	12	1	27
37	Kamaran H.W., Qaisar A., Sultana N., Nawaz M.A., Ahmad H.T.	Factors Influencing the Investorâ€™s Decision Making: The Moderating Role of Locus of Control	2020	Journal of Asian Finance, Economics and Business	7	12	535	543

38	Tahir S.H., Moazzam M.M., Sultana N., Ahmad G., Shabir G., Nosheen F.	Firm's Risk and Capital Structure: An Empirical Analysis of Seasonal and Non-Seasonal Businesses	2020	Journal of Asian Finance, Economics and Business	7	12	627	633
39	Emanuil N., Akram M.S., Ali S., El-Esawi M.A., Iqbal M., Alyemeni M.N.	Peptone-induced physio-biochemical modulations reduce cadmium toxicity and accumulation in spinach (<i>Spinacia oleracea</i> L.)	2020	Plants	9	12	1	16
40	Taj M., Khadimallah M.A., Hussain M., Khedher K.M., Shamim R.A., Ahmad M., Tounsi A.	Analysis of nonlocal Kelvin's model for embedded microtubules: Via viscoelastic medium	2020	Smart Structures and Systems	26	6	809	817
41	Fiayaz M., Zia K.M., Javaid M.A., Rehman S., Chatha S.A.S., Zuber M.	Synthesis and characterization of hydroxyethyl cellulose (HEC)-TiO ₂ -based polyurethane bionanocomposites	2020	Korean Journal of Chemical Engineering	37	12	2351	2358
42	Khan A., Khan M., Halim S.A., Khan Z.A., Shafiq Z., Al-Harrasi A.	Quinazolinones as Competitive Inhibitors of Carbonic Anhydrase-II (Human and Bovine): Synthesis, in-vitro, in-silico, Selectivity, and Kinetics Studies	2020	Frontiers in Chemistry	8			

43	Abid M., Batool T., Siddique G., Ali S., Binyamin R., Shahid M.J., Rizwan M., Alsahli A.A., Alyemeni M.N.	Integrated nutrient management enhances soil quality and crop productivity in maize-based cropping system	2020	Sustainability (Switzerland)	12	23	1	15
44	Ali M.Z., Mehmood M.H., Saleem M., Gilani A.-H.	The use of Euphorbia hirta L. (Euphorbiaceae) in diarrhea and constipation involves calcium antagonism and cholinergic mechanisms	2020	BMC Complementary Medicine and Therapies	20	1		
45	Razis A.F.A., Shehzad M.M., Usman S., Ali N.B., Iqbal S.Z., Naheed N., Asi M.R.	Seasonal variation in aflatoxin levels in edible seeds, estimation of its dietary intake and vitamin e levels in southern areas of punjab, pakistan	2020	International Journal of Environmental Research and Public Health	17	23	1	14
46	Riaz M., Abbasi S.A., Hamzat A.K., Abid M.	A new hwma dispersion control chart with an application to wind farm data	2020	Mathematics	8	12	1	14
47	Zhao Y., Dong L., Jiang C., Wang X., Xie J., Rashid M.A.R., Liu Y., Li M., Bu Z., Wang H., Ma X., Sun S., Wang X., Bo C., Zhou T., Kong L.	Distinct nucleotide patterns among three subgenomes of bread wheat and their potential origins during domestication after allopolyploidization	2020	BMC Biology	18	1		

48	Zaheer I.E., Ali S., Saleem M.H., Ali M., Riaz M., Javed S., Sehar A., Abbas Z., Rizwan M., El-Sheikh M.A., Alyemeni M.N.	Interactive role of zinc and iron lysine on Spinacia oleracea L. growth, photosynthesis and antioxidant capacity irrigated with tannery wastewater	2020	Physiology and Molecular Biology of Plants	26	12	2435	2452
49	Manzoor F., Nisa M.U., Hussain H.A., Ahmad N., Umbreen H.	Effect of different levels of hydrolysable tannin intake on the reproductive hormones and serum biochemical indices in healthy female rats	2020	Scientific Reports	10	1		
50	Iqbal M.A., Abbas A., Naqvi S.A.A., Rizwan M., Samie A., Ahmed U.I.	Drivers of farm householdsâ€™ perceived risk sources and factors affecting uptake of mitigation strategies in punjab pakistan: Implications for sustainable agriculture	2020	Sustainability (Switzerland)	12	23	1	17
51	Noman M., Bukhari S.A., Rehman S., Qasim M., Ali M., Riazuddin S., Ahmed Z.M.	Identification and computational analysis of USH1C, and SLC26A4 variants in Pakistani families with prelingual hearing loss	2020	Molecular Biology Reports	47	12	9987	9993
52	Khan Z.A., Rashid S., Ashraf R., Baleanu D., Chu Y.-M.	Generalized trapezium-type inequalities in the settings of fractal sets for functions having generalized convexity property	2020	Advances in Difference Equations	2020	1		

53	Shahid M., Javed M.T., Tanwir K., Akram M.S., Tazeen S.K., Saleem M.H., Masood S., Mujtaba S., Chaudhary H.J.	Plant growth-promoting <i>Bacillus</i> sp. strain SDA-4 confers Cd tolerance by physio-biochemical improvements, better nutrient acquisition and diminished Cd uptake in <i>Spinacia oleracea</i> L.	2020	Physiology and Molecular Biology of Plants	26	12	2417	2433
54	Ahmad Y., Ahmad M.N., Zia A., Alam S.S., Khan R.A.A., Riaz M.	Biocontrol of economically important weed species through endophytic fungi isolated from <i>Parthenium hysterophorus</i> (Family: Asteraceae)	2020	Egyptian Journal of Biological Pest Control	30	1		
55	Tan L., Jin Z., Ge Y., Nadeem H., Cheng Z., Azeem F., Zhan R.	Comprehensive ESI-Q TRAP-MS/MS based characterization of metabolome of two mango (<i>Mangifera indica</i> L) cultivars from China	2020	Scientific Reports	10	1		
56	Chen S.-B., Rashid S., Hammouch Z., Noor M.A., Ashraf R., Chu Y.- M.	Integral inequalities via Raina's fractional integrals operator with respect to a monotone function	2020	Advances in Difference Equations	2020	1		
57	Jeevanandam J., Kulabhusan P.K., Sabbih G., Akram M., Danquah M.K.	Phytosynthesized nanoparticles as a potential cancer therapeutic agent	2020	3 Biotech	10	12		
58	Ahmad A., Mubharak N.M., Naseem K., Tabassum H., Rizwan M., Najda A., Kashif M., Bin- Jumah M., Hussain A.,	Recent advancement and development of chitin and chitosan-based nanocomposite for drug delivery: Critical approach to clinical research	2020	Arabian Journal of Chemistry	13	12	8935	8964

	Shaheen A., Abdel-Daim M.M., Ali S., Hussain S.							
59	Chu Y.-M., Awan M.U., Talib S., Noor M.A., Noor K.I.	New post quantum analogues of Ostrowski-type inequalities using new definitions of leftâ€right (p, q) -derivatives and definite integrals	2020	Advances in Difference Equations	2020	1		
60	Butt S.I., Umar M., Rashid S., Akdemir A.O., Chu Y.-M.	New Hermiteâ€Jensenâ€Mercer-type inequalities via k-fractional integrals	2020	Advances in Difference Equations	2020	1		
61	Waqas H., Imran M., Bhatti M.M.	Influence of bioconvection on Maxwell nanofluid flow with the swimming of motile microorganisms over a vertical rotating cylinder	2020	Chinese Journal of Physics	68		558	577
62	Hussain A., Kashif M., Belabbas M., Noreen M., Rehman janjua F.U., Arbouche O.	First principle calculation of mechanical stability, opto-electronic and thermo-electric properties of TaIrGe _{1-x} Sn _x (0 ≤ x ≤ 1) Half-Heusler alloy	2020	Computational Condensed Matter	25			
63	Saleem A., Ahmed T., Ammar M., Zhang H.-L., Xu H.-B., Tabassum R.	Direct growth of m-BiVO ₄ @carbon fibers for highly efficient and recyclable photocatalytic and antibacterial applications	2020	Journal of Photochemistry and Photobiology B: Biology	213			

64	Changxing L., Galani S., Hassan F.-U., Rashid Z., Naveed M., Fang D., Ashraf A., Qi W., Arif A., Saeed M., Chishti A.A., Jianhua L.	Biotechnological approaches to the production of plant-derived promising anticancer agents: An update and overview	2020	Biomedicine and Pharmacotherapy	132			
65	Nazeer M., Khan M.I., Rafiq M.U., Khan N.B.	Numerical and scale analysis of Eyring-Powell nanofluid towards a magnetized stretched Riga surface with entropy generation and internal resistance	2020	International Communications in Heat and Mass Transfer	119			
66	Iqbal S., Bibi I., Ata S., Kamal S., Ibrahim S.M., Iqbal M.	Gd and Co-substituted LaNiO ₃ and their nanocomposites with r-GO for photocatalytic applications	2020	Diamond and Related Materials	110			
67	Yasin H., Tariq F., Sameen A., Ahmad N., Manzoor M.F., Yasin M., Tariq T., Iqbal M.W., Ishfaq B., Mahmood S., Siddeeg A.	Ethanol extract of okra has a potential gastroprotective effect on acute gastric lesions in Sprague Dawley rats	2020	Food Science and Nutrition	8	12	6691	6698
68	Chu Y.-M., Awan M.U., Talib S., Noor M.A., Noor K.I.	Generalizations of Hermiteâ€“Hadamard like inequalities involving $\tilde{I}^{\alpha}_{\eta}$ -Hilfer fractional integrals	2020	Advances in Difference Equations	2020	1		
69	Rehman H.-U., Rasul A., Farooqi M.A., Aslam H.M.U., Majeed B., Sagheer M., Ali Q.	Compatibility of some botanicals and the entomopathogenic fungus, <i>Beauveria bassiana</i> (Bals.), against the red flour beetle, <i>Tribolium castaneum</i> (Herbst) (Coleoptera: Tenebrionidae)	2020	Egyptian Journal of Biological Pest Control	30	1		

70	Chu Y.-M., Nazeer M., Khan M.I., Ali W., Zafar Z., Kadry S., Abdelmalek Z.	Entropy analysis in the Rabinowitsch fluid model through inclined Wavy Channel: Constant and variable properties	2020	International Communications in Heat and Mass Transfer	119			
71	Iqbal S., Parveen N., Bahadur S., Ahmad T., Shuaib M., Nizamani M.M., Urooj Z., Rubab S.	Paclobutrazol mediated changes in growth and physio-biochemical traits of okra (<i>Abelmoschus esculentus</i> L.) grown under drought stress	2020	Gene Reports	21			
72	Javed M.T., Saleem M.H., Aslam S., Rehman M., Iqbal N., Begum R., Ali S., Alsahli A.A., Alyemeni M.N., Wijaya L.	Elucidating silicon-mediated distinct morpho-physio-biochemical attributes and organic acid exudation patterns of cadmium stressed Ajwain (<i>Trachyspermum ammi</i> L.)	2020	Plant Physiology and Biochemistry	157		23	37
73	Muneer M., Kanjal M.I., Iqbal M., Saeed M., Khosa M.K., Ud Den N.Z., Ali S., Nazir A.	Gamma and UV radiations induced treatment of anti-cancer methotrexate drug in aqueous medium: Effect of process variables on radiation efficiency evaluated using bioassays	2020	Applied Radiation and Isotopes	166			

74	Saleh F., Hussain A., Younis T., Ali S., Rashid M., Ali A., Mustafa G., Jabeen F., AL-Surhanee A.A., Alnoman M.M., Qamer S.	Comparative growth potential of thermophilic amyolytic Bacillus sp. on unconventional media food wastes and its industrial application	2020	Saudi Journal of Biological Sciences	27	12	3499	3504
75	Awan M.U., Talib S., Kashuri A., Noor M.A., Noor K.I., Chu Y.-M.	A new q-integral identity and estimation of its bounds involving generalized exponentially $\hat{1}\frac{1}{4}$ -preinvex functions	2020	Advances in Difference Equations	2020	1		
76	Batool T., Ali S., Seleiman M.F., Naveed N.H., Ali A., Ahmed K., Abid M., Rizwan M., Shahid M.R., Alotaibi M., Al-Ashkar I., Mubushar M.	Plant growth promoting rhizobacteria alleviates drought stress in potato in response to suppressive oxidative stress and antioxidant enzymes activities	2020	Scientific Reports	10	1		
77	Qasim M., Islam S.U., Islam W., Noman A., Khan K.A., Hafeez M., Hussain D., Dash C.K., Bamisile B.S., Akutse K.S., Rizwan M., Nisar M.S., Jan S., Wang L.	Characterization of mycotoxins from entomopathogenic fungi (Cordyceps fumosorosea) and their toxic effects to the development of asian citrus psyllid reared on healthy and diseased citrus plants	2020	Toxicon	188		39	47
78	Latif J., Akhtar J., Ahmad I., Mahmood-ur-Rehman M., Shah G.M., Zaman Q., Javaid T., Farooqi Z.U.R., Shakar M.,	Unraveling the effects of cadmium on growth, physiology and associated health risks of leafy vegetables	2020	Revista Brasileira de Botanica	43	4	799	811

	Saleem A., Rizwan M.							
79	Iqbal M.K., Abbas M., Nazir T., Ali N.	Application of new quintic polynomial B-spline approximation for numerical investigation of Kuramoto–Sivashinsky equation	2020	Advances in Difference Equations	2020	1		
80	Mehboob M.Y., Khan M.U., Hussain R., Fatima R., Irshad Z., Adnan M.	Designing of near-infrared sensitive asymmetric small molecular donors for high-efficiency organic solar cells	2020	Journal of Theoretical and Computational Chemistry	19	8		
81	Siddique S.A., Siddique M.B.A., Hussain R., Liu X., Mehboob M.Y., Irshad Z., Adnan M.	Efficient tuning of triphenylamine-based donor materials for high-efficiency organic solar cells	2020	Computational and Theoretical Chemistry	1191			
82	Sardar M., Jun C., Ullah Z., Cheng J., Sardar S., Jian L.	Tailoring the laser irradiation effects by covering the targets with polymer tapes	2020	Optical Materials	110			

83	Chen S.-B., Rashid S., Noor M.A., Hammouch Z., Chu Y.-M.	New fractional approaches for n-polynomial P-convexity with applications in special function theory	2020	Advances in Difference Equations	2020	1		
84	Rashid Z., Khan M.R., Mubeen R., Hassan A., Saeed F., Afzaal M.	Exploring the effect of cinnamon essential oil to enhance the stability and safety of fresh apples	2020	Journal of Food Processing and Preservation	44	12		
85	Yaqoob M.Z., Ghaffar A., Alkanhal M.A.S., Naz M.Y., Alqahtani A.H., Khan Y.	Electromagnetic surface waves supported by a resistive metasurface-covered metamaterial structure	2020	Scientific Reports	10	1		
86	Khalid N., Aqeel M., Noman A.	Microplastics could be a threat to plants in terrestrial systems directly or indirectly	2020	Environmental Pollution	267			
87	Abdeljawad T., Rashid S., Hammouch Z., ÅÅcan Å., Chu Y.-M.	Some new Simpson-type inequalities for generalized p-convex function on fractal sets with applications	2020	Advances in Difference Equations	2020	1		
88	Elahi I., Alay-e-Abbas S.M., Nazir S., Abbas G., Akbar W., Shaukat A., Tahir M.N.	Formation Energetics, Electronic Structure and Ferromagnetic Properties of C-, Si- and Ge-Doped Zinc Blende Cadmium Chalcogenides	2020	Materials Today Communications	25			

89	Thind S., Hussain I., Ali S., Hussain S., Rasheed R., Ali B., Hussain H.A.	Physiological and Biochemical Bases of Foliar Silicon-Induced Alleviation of Cadmium Toxicity in Wheat	2020	Journal of Soil Science and Plant Nutrition	20	4	2714	2730
90	Iftikhar A., Asif A., Manzoor A., Azeem M., Sarwar G., Rashid N., Qaisar U.	Mutation in pvcABCD operon of Pseudomonas aeruginosa modulates MexEF-OprN efflux system and hence resistance to chloramphenicol and ciprofloxacin	2020	Microbial Pathogenesis	149			
91	Ali Q., Raza A., Narjis S., Saeed S., Khan M.T.I.	Potential of renewable energy, agriculture, and financial sector for the economic growth: Evidence from politically free, partly free and not free countries	2020	Renewable Energy	162		934	947
92	Akram M.A., Iqbal N., Aqeel M., Khalid N., Alamri S., Hashem M., Abrar M., Manan A., Islam W., Noman A.	Exploration of medicinal phyto-diversity of the semi-arid area in Punjab province, Pakistan	2020	Journal of Animal and Plant Sciences	30	6	1442	1464
93	Ahmed T., Noman M., Shahid M., Niazi M.B.K., Hussain S., Manzoor N., Wang X., Li B.	Green synthesis of silver nanoparticles transformed synthetic textile dye into less toxic intermediate molecules through LC-MS analysis and treated the actual wastewater	2020	Environmental Research	191			

94	Ismail M., Ahmad A., Nadeem M., Javed M.A., Khan S.H., Khawaish I., Sthanadar A.A., Qari S.H., Alghanem S.M., Khan K.A., Khan M.F., Qamer S.	Development of DNA barcodes for selected Acacia species by using rbcL and matK DNA markers	2020	Saudi Journal of Biological Sciences	27	12	3735	3742
95	Noman A., Qari S.H., Aqeel M., Khalid N., Alamri S., Bouqellah N.A., Hashem M., Soliman M.H., Ali H., Haider I.	Regulation of Capsicum immunity against microbial pathogens: Transcription factors in focus	2020	Physiological and Molecular Plant Pathology	112			
96	Abdeljawad T., Rashid S., El-Deeb A.A., Hammouch Z., Chu Y.-M.	Certain new weighted estimates proposing generalized proportional fractional operator in another sense	2020	Advances in Difference Equations	2020	1		
97	Zubair M., Ghuffar S., Shoaib M., Awan A.B., Bhatti A.R.	Assessment of photovoltaic capabilities in urban environments: A case study of islamabad, pakistan	2020	Journal of Solar Energy Engineering, Transactions of the ASME	142	6		
98	Shaheen S., Fateh R., Younis S., Harun N., Jaffer M., Hussain K., Ashfaq M., Siddique R.,	Light and scanning electron microscopic characterization of thirty endemic Fabaceae species of district Lahore, Pakistan	2020	Microscopy Research and Technique	83	12	1507	1529

	Mukhtar H., Khan F.							
99	Khalid S., Abbas G., Hanif M., Shah S., Shah S.N.H., Jalil A., Yaqoob M., Ameer N., Anum A.	Thiolated sodium alginate conjugates for mucoadhesive and controlled release behavior of metformin microspheres	2020	International Journal of Biological Macromolecules	164		2691	2700
100	Khalid S., Shaheen S., Hussain K., Shahid M.N., Sarwar S.	Pharmacological analysis of obnoxious water weed: Eichhornia crassipes (mart.) solms	2020	Journal of Animal and Plant Sciences	30	6	1465	1475
101	Siddique N., Imran M., Khan K.A., Peñari J.	Difference equations related to majorization theorems via Montgomery identity and Green's functions with application to the Shannon entropy	2020	Advances in Difference Equations	2020	1		
102	Shah S., Hanif M., Abbas G., Rasul A., Zaman M., Rehman A.U., Khan H.U., Maheen S., Ashfaq M., Iqbal O.	Prompt drug delivery of rabeprazole through raft formation: In vitro and in vivo evaluation	2020	Journal of Drug Delivery Science and Technology	60			
103	Riaz M., Marschner P.	Sandy Soil Amended with Clay Soil: Effect of Clay Soil Properties on Soil Respiration, Microbial Biomass, and Water Extractable Organic C	2020	Journal of Soil Science and Plant Nutrition	20	4	2465	2470

104	Aldabesh A., Ullah Khan S., Habib D., Waqas H., Tlili I., Ijaz Khan M., Azeem Khan W.	Unsteady transient slip flow of Williamson nanofluid containing gyrotactic microorganism and activation energy	2020	Alexandria Engineering Journal	59	6	4315	4328
105	Anjum N., He J.-H.	Analysis of nonlinear vibration of nano/microelectromechanical system switch induced by electromagnetic force under zero initial conditions	2020	Alexandria Engineering Journal	59	6	4343	4352
106	Shah A.A., Gong Z., Ali M., Jamshed A., Naqvi S.A.A., Naz S.	Measuring education sector resilience in the face of flood disasters in Pakistan: an index-based approach	2020	Environmental Science and Pollution Research	27	35	44106	44122
107	Abdeljawad T., Rashid S., Hammouch Z., Chu Y.-M.	Some new local fractional inequalities associated with generalized (s, m) -convex functions and applications	2020	Advances in Difference Equations	2020	1		
108	Munir T., Latif M., Mahmood A., Malik A., Shafiq F.	Influence of IP-injected ZnO-nanoparticles in Catla catla fish: hematological and serological profile	2020	Naunyn-Schmiedeberg's Archives of Pharmacology	393	12	2453	2461
109	Akhtar S., Alay-e-Abbas S.M., Batool J., Zulfiqar W., Laref A., Abbas G., Amin N.	Investigation of structural, electronic and optical properties of (V+P)-doped BaZrO ₃ for photocatalytic applications using density functional theory	2020	Journal of Physics and Chemistry of Solids	147			

110	Naqqash T., Imran A., Hameed S., Shahid M., Majeed A., Iqbal J., Hanif M.K., Ejaz S., Malik K.A.	First report of diazotrophic Brevundimonas spp. as growth enhancer and root colonizer of potato	2020	Scientific Reports	10	1		
111	Muneer M., Kanjal M.I., Saeed M., Javed T., Haq A.U., Ud Den N.Z., Jamal M.A., Ali S., Iqbal M.	High energy radiation induced degradation of reactive yellow 145 dye: A mechanistic study	2020	Radiation Physics and Chemistry	177			

112	Naqvi S.A.A., Shah S.A.R., Mehdi M.A.	Revealing empirical association among ecological footprints, renewable energy consumption, real income, and financial development: a global perspective	2020	Environmental Science and Pollution Research	27	34	42830	42849
113	Tahir W., Mustafa G.M., Noor N.A., Alay-e-Abbas S.M., Mahmood Q., Laref A.	Analysis of optoelectronic and transport properties of magnesium based MgSc ₂ X ₄ (X=S, Se) spinels for solar cell and energy storage device applications	2020	Ceramics International	46	17	26637	26645
114	Usman M., Kousar R., Makhdum M.S.A.	The role of financial development, tourism, and energy utilization in environmental deficit: evidence from 20 highest emitting economies	2020	Environmental Science and Pollution Research	27	34	42980	42995
115	Rehman K., Tahir A., Niaz S., Shabbir S., Jabeen K., Faheem A., Akash M.S.H.	Frequency of PPAR- γ ³ , FTO and ABCC8 genetic variation in Pakistani cardiovascular smokers	2020	Environmental Science and Pollution Research	27	34	42611	42620
116	Rashid S., Hammouch Z., Ashraf R., Baleanu D., Nisar K.S.	New quantum estimates in the setting of fractional calculus theory	2020	Advances in Difference Equations	2020	1		
117	Khan M.I., Khan W.A., Waqas M., Kadry S., Chu Y.-M., Nazeer M.	Role of dipole interactions in Darcy–Forchheimer first-order velocity slip nanofluid flow of Williamson model with Robin conditions	2020	Applied Nanoscience (Switzerland)	10	12	5343	5350

118	Rashid S., Hammouch Z., Baleanu D., Chu Y.-M.	New generalizations in the sense of the weighted non-singular fractional integral operator	2020	Fractals	28	8		
119	Iqbal S., Xu J., Allen S.D., Khan S., Nadir S., Arif M.S., Yasmeen T.	Unraveling consequences of soil micro- and nano-plastic pollution on soil-plant system: Implications for nitrogen (N) cycling and soil microbial activity	2020	Chemosphere	260			
120	Deeba F., Qureshi A.S., Kamran M., Farooq A., Faisal N., Muzaffar H., Usman M.	Short term therapeutic efficacy of camel milk Vis-À-Vis buffalo milk in Alloxan® induced diabetic rabbits	2020	Journal of Diabetes and Metabolic Disorders	19	2	915	923
121	Ijaz N., Khan I.U., Khalid I., Khan R.U., Khan H.A., Asghar S., Khalid S.H., Shahzad Y., Yousaf A.M., Hussain T., Sabir N., Ali A.	In vitro and toxicological assessment of dexamethasone sodium phosphate loaded pH sensitive Pectin-g-poly(AA)/PVP semi interpenetrating network	2020	Materials Today Communications	25			
122	Waqas H., Imran M., Hussain S., Ahmad F., Khan I., Nisar K.S., Almatroud A.O.	Numerical simulation for bioconvection effects on MHD flow of Oldroyd-B nanofluids in a rotating frame stretching horizontally	2020	Mathematics and Computers in Simulation	178		166	182
123	Jan S., Noman A., Kaya C., Ashraf M., Alyemeni M.N., Ahmad P.	24-Epibrassinolide Alleviates the Injurious Effects of Cr(VI) Toxicity in Tomato Plants: Insights into Growth, Physio-Biochemical Attributes, Antioxidant Activity and Regulation of Ascorbateâ€“Glutathione and Glyoxalase Cycles	2020	Journal of Plant Growth Regulation	39	4	1587	1604

124	Jarad F., Abdeljawad T., Rashid S., Hammouch Z.	More properties of the proportional fractional integrals and derivatives of a function with respect to another function	2020	Advances in Difference Equations	2020	1		
125	Rashid S., Å°ÅŸcan Å°, Baleanu D., Chu Y.-M.	Generation of new fractional inequalities via n polynomials s-type convexity with applications	2020	Advances in Difference Equations	2020	1		
126	Asghar Z., Ali N., Waqas M., Nazeer M., Khan W.A.	Locomotion of an efficient biomechanical sperm through viscoelastic medium	2020	Biomechanics and Modeling in Mechanobiology	19	6	2271	2284
127	Javaid M., Imran M., Imran M.A., Khan I., Nisar K.S.	Natural convection flow of a second grade fluid in an infinite vertical cylinder	2020	Scientific Reports	10	1		
128	Hussain K., Rashid K., Hafeez F., Amad I., Ashraf M.	Molecular identification of sugarcane black bug (Cavelarius excavates) from Pakistan using cytochrome C oxidase I (COI) gene as DNA barcode	2020	International Journal of Tropical Insect Science	40	4	1119	1124

129	Hussain M.S., Dastgeer G., Afzal A.M., Hussain S., Kanwar R.R.	Eco-friendly magnetic field treatment to enhance wheat yield and seed germination growth	2020	Environmental Nanotechnology, Monitoring and Management	14			
130	Abbas G., Shah S., Hanif M., Shah A., Rehman A., Tahir S., Nayab K., Asghar A.	The frequency of pulmonary hypertension in newborn with intrauterine growth restriction	2020	Scientific Reports	10	1		
131	Rashid S., Jarad F., Noor M.A., Noor K.I., Baleanu D., Liu J.-B.	On GrÃ¼ss inequalities within generalized K-fractional integrals	2020	Advances in Difference Equations	2020	1		
132	Zulhussnain M., Zahoor M.K., Rizvi H., Zahoor M.A., Rasul A., Ahmad A., Majeed H.N., Rasul A., Ranian K., Jabeen F.	Insecticidal and Genotoxic effects of some indigenous plant extracts in Culex quinquefasciatus Say Mosquitoes	2020	Scientific Reports	10	1		
133	Rasul M.N., Shahid M., Manzoor A., Khan M.A., Rafique M.A., Mehmood S., Hussain A.	Novel 1:1 stoichiometric rare-earth HoX (X = Pd, Ag and Cd) intermetallic compounds: DFT-based study	2020	Bulletin of Materials Science	43	1		

134	Majeed A., Kamran M., Iqbal M.K., Baleanu D.	Solving time fractional Burgers's and Fisher's equations using cubic B-spline approximation method	2020	Advances in Difference Equations	2020	1		
135	Khalid N., Abbas M., Iqbal M.K., Baleanu D.	A numerical investigation of Caputo time fractional Allen-Cahn equation using redefined cubic B-spline functions	2020	Advances in Difference Equations	2020	1		
136	Riaz M.A., Nisa Z.U., Anjum M.S., Butt H., Mehmood A., Riaz A., Akhtar A.B.T.	Assessment of metals induced histopathological and gene expression changes in different organs of non-diabetic and diabetic rats	2020	Scientific Reports	10	1		
137	Waqas H., Khan S.U., Shehzad S.A., Imran M., Tlili I.	Activation energy and bioconvection aspects in generalized second-grade nanofluid over a Riga plate: a theoretical model	2020	Applied Nanoscience (Switzerland)	10	12	4445	4458
138	Saleem A., Saleem M., Akhtar M.F., Shahzad M., Jahan S.	Polystichum braunii extracts inhibit Complete Freund's adjuvant-induced arthritis via upregulation of IL-10, IL-4, and IL-10, downregulation of COX-2, PGE2, IL-1 β , IL-6, NF- κ B, and TNF- α , and subsiding oxidative stress	2020	Inflammopharmacology	28	6	1633	1648

139	Rehman K., Haider K., Jabeen K., Akash M.S.H.	Current perspectives of oleic acid: Regulation of molecular pathways in mitochondrial and endothelial functioning against insulin resistance and diabetes	2020	Reviews in Endocrine and Metabolic Disorders	21	4	631	643
140	Akram A., Tara N., Khan M.A., Abbasi S.A., Irfan M., Arslan M., Afzal M.	Enhanced remediation of Cr6+ in bacterial-assisted floating wetlands	2020	Water and Environment Journal	34	S1	970	978
141	Barkat K., Ahmad M., Minhas M.U., Khalid I., Malik N.S.	Chondroitin sulfate-based smart hydrogels for targeted delivery of oxaliplatin in colorectal cancer: preparation, characterization and toxicity evaluation	2020	Polymer Bulletin	77	12	6271	6297
142	Rehman O., Shahid A., Liu C.-G., Xu J.-R., Javed M.R., Eid N.H., Gull M., Nawaz M., Mehmood M.A.	Optimization of low-temperature energy-efficient pretreatment for enhanced saccharification and fermentation of Conocarpus erectus leaves to produce ethanol using Saccharomyces cerevisiae	2020	Biomass Conversion and Biorefinery	10	4	1269	1278
143	Khan N.-U.-H., Bhatti H.N., Iqbal M., Nazir A., Ain H.	Kinetic Study of Degradation of Basic Turquoise Blue X-GB and Basic Blue X-GRRL using Advanced Oxidation Process	2020	Zeitschrift fur Physikalische Chemie	234	11	1803	1817
144	Anjum N., Suleman M., Lu D., He J.-H., Ramzan M.	Numerical iteration for nonlinear oscillators by Elzaki transform	2020	Journal of Low Frequency Noise Vibration and Active Control	39	4	879	884

145	Sohail M.M., Mahmood Q.K., Sher F., Saud M., Masâ€™udah S., Ida R.	Coping Through Religiosity, Spirituality and Social Support Among Muslim Chronic Hepatitis Patients	2020	Journal of Religion and Health	59	6	3126	3140
146	Buzdar M.A., Nadeem M., Fatima T., Naoreen B.	Effects of Religious Orientations on the Prevalence of Social Media Disorder Among Muslim University Students in Pakistan	2020	Journal of Religion and Health	59	6	3247	3256
147	Mehmood S., Raza H., Abid F., Saeed N., Rehman H.M., Javed S., Khan M.S.	National prevalence rate of hepatitis B and C in Pakistan and its risk factors	2020	Journal of Public Health (Germany)	28	6	751	764
148	Hanif M., Shah S., Rasool N., Saadullah M., Khan A.R., Siddique W., Nasir B., Rasul A., Abbas G., Khan S.M., Ahmed M.M.	Development and characterization of novel pectin rafts for the delivery of ibandronate	2020	Bioinspired, Biomimetic and Nanobiomaterials	9	4	233	240
149	Maheen S., Rasul A.	Formulation, characterization and statistical optimization of enalapril-loaded lipospheres	2020	Bioinspired, Biomimetic and Nanobiomaterials	9	4	202	212
150	Rehman U., Jacob J., Mahmood A., Mahmood K., Ali A., Ashfaq A., Basit M., Amin N., Ikram S.,	Modulation of secondary phases in hydrothermally grown zinc oxide nanostructures by varying the Cu dopant concentration for enhanced thermo power	2020	Journal of Alloys and Compounds	843			

	Hussain S.							
151	Belabbas M., Marbough N., Arbouche O., Hussain A.	Optoelectronic properties of the novel perovskite materials LiPb(Cl:Br:I)3 for enhanced hydrogen production by visible photo-catalytic activity: Theoretical prediction based on empirical formulae and DFT	2020	International Journal of Hydrogen Energy	45	58	33466	33477
152	Umair M., Abdullah R.M., Aslam B., Nawaz M.H., Ali Q., Fatima F., Ali J., Zahoor M.A., Mohsin M.	First Case Report on Quantification of Antimicrobial Use in Corporate Dairy Farms in Pakistan	2020	Frontiers in Veterinary Science	7			
153	Basri R., Khalid M., Shafiq Z., Tahir M.S., Khan M.U., Tahir M.N., Naseer M.M., Braga A.A.C.	Exploration of chromone-based thiosemicarbazone derivatives: SC-XRD/DFT, spectral (IR, UV-Vis) characterization, and quantum chemical analysis	2020	ACS Omega	5	46	30176	30188
154	Akram N., Mansha A., Premkumar R., Franklin Benial A.M., Asim S., Iqbal S.Z., Ali H.S.	Spectroscopic, quantum chemical and molecular docking studies on 2,4-dimethoxy-1,3,5-triazine: a potent inhibitor of protein kinase CK2 for the development of breast cancer drug	2020	Molecular Simulation	46	17	1340	1353
155	Huo Y., Ali H., Binyamin M.A., Asghar S.S., Babar	On Topological Indices of mth Chain Hex-Derived Network of Third Type	2020	Frontiers in Physics	8			

	U., Liu J.-B.							
156	Saleem S., Humayun S., Latif B., Iftikhar U., Sharif I.	Identities Hidden in Challenges: The Sequential Mediation of Thriving at Work and Employee Investment	2020	Frontiers in Psychology	11			
157	Rasool M.F., Rehman A.U., Imran I., Abbas S., Shah S., Abbas G., Khan I., Shakeel S., Ahmad Hassali M.A., Hayat K.	Risk Factors Associated With Medication Errors Among Patients Suffering From Chronic Disorders	2020	Frontiers in Public Health	8			
158	Bari M.W., Ghaffar M., Ahmad B.	Knowledge-hiding behaviors and employees'™ silence: mediating role of psychological contract breach	2020	Journal of Knowledge Management	24	9	2171	2194
159	Akhtar R., Zahoor A.F.	Transition metal catalyzed Glaser and Glaser-Hay coupling reactions: Scope, classical/green methodologies and synthetic applications	2020	Synthetic Communications	50	22	3337	3368
160	Khan M.U., Mehboob M.Y., Hussain R., Afzal Z., Khalid M., Adnan M.	Designing spirobifullerene core based three-dimensional cross shape acceptor materials with promising photovoltaic properties for high-efficiency organic solar cells	2020	International Journal of Quantum Chemistry	120	22		

161	Ahmed M., Imran M., Muddassar M., Hussain R., Khan M.U., Ahmad S., Mehboob M.Y., Ashfaq S.	Benzenesulfonohydrazides inhibiting urease: Design, synthesis, their in vitro and in silico studies	2020	Journal of Molecular Structure	1220			
162	Ali A., Bin Faheem Z., Waseem M., Draz U., Safdar Z., Hussain S., Yaseen S.	Systematic Review: A State of Art ML Based Clustering Algorithms for Data Mining	2020	Proceedings - 2020 23rd IEEE International Multi-Topic Conference, INMIC 2020				
163	Abbas A., Khalid M.S., Mughees A., Mughees A., Yousaf S., Sohail F., Rehman H.	Monitoring and Control of Reverse Feed Current in Grid Tied PV Systems Using Multiple MPPT Inverter	2020	Proceedings - 2020 23rd IEEE International Multi-Topic Conference, INMIC 2020				
164	Sohail F., Mughees A., Mughees A., Mughees N., Yousaf S., Hassan S.Z., Rehman H., Kamal T., Khan M.A.	Design and Control of Generated Electricity Using Solar Powered Stirling Engine	2020	Proceedings - 2020 23rd IEEE International Multi-Topic Conference, INMIC 2020				
165	Noman M., Ahmed T., Hussain S., Niazi M.B.K., Shahid M., Song F.	Biogenic copper nanoparticles synthesized by using a copper-resistant strain Shigella flexneri SNT22 reduced the translocation of cadmium from soil to wheat plants	2020	Journal of Hazardous Materials	398			

166	Alim M.E., Ahmad S., Dorabati M.N., Hassoun I.	Design Implementation of IoT Based Smart Helmet for Road Accident Detection	2020	11th Annual IEEE Information Technology, Electronics and Mobile Communication Conference, IEMCON 2020			576	581
167	Kausar N., Munir M., Gulzar M., Addis G.M., Anjum R.	ANTI FUZZY BI-IDEALS ON ORDERED AG-GROUPOIDS	2020	Journal of the Indonesian Mathematical Society	26	3	299	318
168	Zafar S., Anwar H., Qasim M., Irfan S., Maqbool J., Sajid F., Naqvi S.A.R., Hussain G.	Calotropis procera (root) escalates functions rehabilitation and attenuates oxidative stress in a mouse model of peripheral nerve injury	2020	Pakistan journal of pharmaceutical sciences	33	6	2801	2807
169	Qadir A., -Nisa M.-U., Sharif M., Khan M.K., Ahmad N., Komal F.	Effect of different level of resistant starch in induce diabetic rats	2020	Pakistan journal of pharmaceutical sciences	33	6	2715	2719
170	Khadimallah M.A., Hussain M., Khedher K.M., Bouzgarrou S.M., Naim A.F.A., Naeem M.N., Taj M., Iqbal Z., Tounsi A.	Vibration of SWCNTs: Consistency and behavior of polynomial law index with Galerkin's model	2020	Advances in Nano Research	9	4	251	261
171	Ali H., Shafiq M.K., Farahani M.R., Cancan	Degree-based topological descriptors of Star of David and	2020	Eurasian Chemical	2	11	1093	1100

	M., Aldemir M.S.	Hexagonal Cage networks		Communications				
172	Naz A., Masood H., Ehsan S., Tahir T.	Removal of acid black 1 by Acacia Concinna; adsorption kinetics, isotherm and thermodynamic study	2020	Membrane and Water Treatment	11	6	407	416
173	Ain Q.T.U.L., He J.-H., Anjum N., Ali M.	The Fractional Complex Transform: A Novel Approach to the Time-Fractional Schrödinger Equation	2020	Fractals	28	7		
174	Bibi I., Ali U., Kamal S., Ata S., Ibrahim S.M., Majid F., Nazeer Z., Rehman F., Iqbal S., Iqbal M.	Synthesis of La _{1-x} CoxFe _{1-y} CryO ₃ nano crystallites for enhanced ferroelectric, magnetic and photocatalytic properties	2020	Journal of Materials Research and Technology	9	6	12031	12042
175	Imran K., Syed H.K., Asghar S., Irfan M., Ullah M.S., Khan I.U., Iqbal M.S., Shah P.A., Khalid I., Gohar U.F., Hussain A.I., Saleem M., Ashraf U.	Validated RP-HPLC method for the simultaneous determination of glucosamine sulphate and curcumin in cream formulation: A novel stability-indicating study	2020	Tropical Journal of Pharmaceutical Research	19	11	2415	2424
176	Sahar A., Farhan A., Bano S., Rashid H.	Docking analysis for identification of lead compound and 3d pharmacophore generation against gsk-3 β involved in bipolar disorder	2020	Pakistan Journal of Pharmaceutical Sciences	33	6	2547	2552

177	Waqas M.K., Ali R., Usman M., Shahid M.N., Rasul A., Khan B.A., Murtaza G.	In vitro comparative dissolution assessment of different brands of co-amoxiclav tablets in Pakistan	2020	Dissolution Technologies	27	4	1	8
178	Nawaz M.A., Azeem F., Zakharenko A.M., Lin X., Atif R.M., Baloch F.S., Chan T.-F., Chung G., Ham J., Sun S., Golokhvast K.S.	In-silico exploration of channel type and efflux silicon transporters and silicification proteins in 80 sequenced viridiplantae genomes	2020	Plants	9	11	1	21
179	Khan A., Rehman H.U., Habib U., Ijaz U.	Detecting N6-methyladenosine sites from RNA transcriptomes using random forest	2020	Journal of Computational Science	47			
180	Beig B., Niazi M.B.K., Jahan Z., Kakar S.J., Shah G.A., Shahid M., Zia M., Haq M.U., Rashid M.I.	Biodegradable polymer coated granular urea slows down n release kinetics and improves spinach productivity	2020	Polymers	12	11	1	19
181	Abbas S., Bibi I., Majid F., Ata S., Ibrahim S.M., Kamal S., Sultan M., Jilani K., Iqbal S., Iqbal M.	Micro-emulsion synthesis of La1-XCrxFEO3nanoparticles: Effect of Cr doping on ferroelectric, dielectric and photocatalytic properties	2020	International Journal of Chemical Reactor Engineering	18	45576		

182	Abbas M., Rizwan K., Rasool N., Hashmi M.A., Ahmad G., Rashid U., Shah S.A.A.	Palladium (0) catalyzed synthesis of thiophene based 1,3,4-oxadiazoles their reactivities and potential nonlinear optical properties	2020	Chiang Mai Journal of Science	47	6	1255	1264
183	Ahmad J., Bukhari S.H., Khan J.A., Jamil M.T., Nissar U., Bibi S., Sultan T.	Optical and dielectric spectroscopic analysis of SmMn2O5	2020	Physica Scripta	95	11		
184	Shaheen S., Jalal M., Ashfaq M., Ali M., Rasool B., Watto J.I., Asrar M., Ali U., Sajjad M., Jaffer M., Haroon N., Khan F.	Evaluation of nutraceutical potential of five selected wild edible plants of lahore, pakistan	2020	Pakistan Journal of Agricultural Sciences	57	6	1557	1563
185	Zhu H., Wang N., Mehmood M.A., Saleemi M.K., Tang Y., Bilal M.Q., Xie J., Gu B., Luo H.	Probiotics-based fermentation enhanced the protein content of the distiller's grain for its applications in animal husbandry	2020	Pakistan Journal of Agricultural Sciences	57	6	1629	1636
186	Malik A., Rasool N., Kanwal I., Hashmi M.A., Zahoor A.F., Ahmad G., Altaf A.A., Shah S.A.A., Sultan S., Zakaria Z.A.	Suzuki-Miyaura reactions of (4-bromophenyl)-4,6-dichloropyrimidine through commercially available palladium catalyst: Synthesis, optimization and their structural aspects identification through computational studies	2020	Processes	8	11	1	12

187	Ashraf M.F., Peng G., Liu Z., Noman A., Alamri S., Hashem M., Qari S.H., Zoubi O.M.A.	Molecular control and application of male fertility for two-line hybrid rice breeding	2020	International Journal of Molecular Sciences	21	21	1	29
188	Munawar T., Mukhtar F., Nadeem M.S., Riaz M., Naveed ur Rahman M., Mahmood K., Hasan M., Arshad M.I., Hussain F., Hussain A., Iqbal F.	Novel photocatalyst and antibacterial agent; direct dual Z-scheme ZnOâ€‘CeO2-Yb2O3 heterostructured nanocomposite	2020	Solid State Sciences	109			
189	Manzoor M.F., Ahmad N., Ahmed Z., Siddique R., Mehmood A., Usman M., Zeng X.-A.	Effect of dielectric barrier discharge plasma, ultra-sonication, and thermal processing on the rheological and functional properties of sugarcane juice	2020	Journal of Food Science	85	11	3823	3832
190	Malik M.Z., Kumar M., Soomro A.M., Baloch M.H., Gul M., Farhan M., Kaloi G.S.	Strategic planning of renewable distributed generation in radial distribution system using advanced MOPSO method	2020	Energy Reports	6		2872	2886
191	Jamil M., Ilyas M., Rasheed A., Ayesha R., Asif M., Shahid M.	Oblique waveguide instability in quantum plasmas	2020	Physica Scripta	95	11		

192	Shah A.A., Gong Z., Ali M., Sun R., Naqvi S.A.A., Arif M.	Looking through the Lens of schools: Children perception, knowledge, and preparedness of flood disaster risk management in Pakistan	2020	International Journal of Disaster Risk Reduction	50			
193	Raza N., Arshad M.U., Saeed F., Farooq U., Naz A., Murtaza M.S., Badar Ul Ain H., Tufail T., Imran M., Anjum F.M.	Comparative study of innovative blends prepared by fortification of date powder to alleviate child malnutrition	2020	Food Science and Nutrition	8	11	5875	5887
194	Faheem A., Rehman K., Jabeen K., Akash M.S.H.	Nicotine-mediated upregulation of microRNA-141 expression determines adipokine-intervened insulin resistance	2020	Environmental Toxicology and Pharmacology	80			
195	Naseem B., Arif I., Jamal M.A.	Role of cationic moiety in phosphate fertilizers's molecules on their solution behavior in terms of volumetric and acoustic parameters at different temperatures and atmospheric pressure	2020	Arabian Journal of Chemistry	13	11	7759	7772
196	Lu R., Hina S., Hong X.	Upper- and Lower-tropospheric Circulation Anomalies Associated with Interannual Variation of Pakistan Rainfall during Summer	2020	Advances in Atmospheric Sciences	37	11	1179	1190

197	Sajid M.M., Khan S.B., Javed Y., Amin N., Shad N.A., Zhang Z., Zhai H.	Facile synthesis of Se/BiVO ₄ heterojunction composite and evaluation of synergetic reaction mechanism for efficient photocatalytic staining of organic dye pollutants in wastewater under visible light	2020	Journal of Materials Science: Materials in Electronics	31	22	19599	19612
198	Siddique Z., Payne J.L., Irvine J.T.S., Jagadamma L.K., Akhter Z., Samuel I.D.W., Iqbal A.	Effect of halide-mixing on tolerance factor and charge-carrier dynamics in (CH ₃ NH ₃ PbBr ₃) _x Cl _x) perovskites powders	2020	Journal of Materials Science: Materials in Electronics	31	21	19415	19428
199	Khan I., Raza M.A., Awan S.A., Shah G.A., Rizwan M., Ali B., Tariq R., Hassan M.J., Alyemeni M.N., Brestic M., Zhang X., Ali S., Huang L.	Amelioration of salt induced toxicity in pearl millet by seed priming with silver nanoparticles (AgNPs): The oxidative damage, antioxidant enzymes and ions uptake are major determinants of salt tolerant capacity	2020	Plant Physiology and Biochemistry	156		221	232
200	Yasmeen T., Ahmad A., Arif M.S., Mubin M., Rehman K., Shahzad S.M., Iqbal S., Rizwan M., Ali S., Alyemeni M.N., Wijaya L.	Biofilm forming rhizobacteria enhance growth and salt tolerance in sunflower plants by stimulating antioxidant enzymes activity	2020	Plant Physiology and Biochemistry	156		242	256

201	Bader Ul Ain H., Saeed F., Kashif M., Mushtaq Z., Imran A., Ahmad A., Tufail T.	Effect of cereal endospermic cell wall on farinographic and mixographic characteristics of wheat flour	2020	Journal of Food Processing and Preservation	44	11		
202	Parambi D.G.T., Saleem U., Shah M.A., Anwar F., Ahmad B., Manzar A., Itzaz A., Harilal S., Uddin M.S., Kim H., Mathew B.	Exploring the Therapeutic Potentials of Highly Selective Oxygenated Chalcone Based MAO-B Inhibitors in a Haloperidol-Induced Murine Model of Parkinson's Disease	2020	Neurochemical Research	45	11	2786	2799
203	Sajid A., Usman N., Khan I., Usman S., Mirza Mehmood A., Malik M.S.A., Rana J.M.	Artificial Intelligence based rule base fire engine testing model for congestion handling in opportunistic networks	2020	Measurement and Control (United Kingdom)	53	45545	1841	1850
204	Sharif H., Akash M.S.H., Rehman K., Irshad K., Imran I.	Pathophysiology of atherosclerosis: Association of risk factors and treatment strategies using plant-based bioactive compounds	2020	Journal of Food Biochemistry	44	11		
205	Shah S.A.R., Naqvi S.A.A., Riaz S., Anwar S., Abbas N.	Nexus of biomass energy, key determinants of economic development and environment: A fresh evidence from Asia	2020	Renewable and Sustainable Energy Reviews	133			

206	Islam W., Noman A., Naveed H., Huang Z., Chen H.Y.H.	Role of environmental factors in shaping the soil microbiome	2020	Environmental Science and Pollution Research	27	33	41225	41247
207	Zhang S., Asghar S., Yu F., Hu Z., Ping Q., Chen Z., Shao F., Xiao Y.	The enhancement of N-acetylcysteine on intestinal absorption and oral bioavailability of hydrophobic curcumin	2020	European Journal of Pharmaceutical Sciences	154			
208	Adnan M., Rasul A., Hussain G., Shah M.A., Zahoor M.K., Anwar H., Sarfraz I., Riaz A., Manzoor M., Adem, Selamoglu Z.	Ginkgetin: A natural biflavone with versatile pharmacological activities	2020	Food and Chemical Toxicology	145			
209	Chohan T.A., Sarfraz M., Rehman K., Muhammad T., Ghori M.U., Khan K.M., Afzal I., Akash M.S.H., Alamgeer, Malik A., Chohan T.A.	Phytochemical profiling, antioxidant and antiproliferation potential of Euphorbia milii var.: Experimental analysis and in-silico validation	2020	Saudi Journal of Biological Sciences	27	11	3025	3034
210	Sarfraz A., Rasul A., Sarfraz I., Shah M.A., Hussain G., Shafiq N., Masood M., Adem,	Hispolon: A natural polyphenol and emerging cancer killer by multiple cellular signaling pathways	2020	Environmental Research	190			

	Sarker S.D., Li X.							
211	Waheed R., Sarwar S., Sarwar S., Khan M.K.	The impact of COVID-19 on Karachi stock exchange: Quantile-on-quantile approach using secondary and predicted data	2020	Journal of Public Affairs	20	4		
212	Khalil U., Bilal Shakoor M., Ali S., Rizwan M., Nasser Alyemeni M., Wijaya L.	Adsorption-reduction performance of tea waste and rice husk biochars for Cr(VI) elimination from wastewater	2020	Journal of Saudi Chemical Society	24	11	799	810
213	Zaman H., Jacob J., Mehboob K., Mahmood K., Rehman U., Ikram S., Ali A., Ashfaq A., Amin N., Hussain S., Tanveer Z., Ghani U.U.	Effect of annealing temperature on thermoelectric properties of zinc nitride thin films grown by thermal evaporation method	2020	Ceramics International	46	16	25992	25995
214	Zhang T., Khan S.U., Imran M., Tlili I., Waqas H., Ali N.	Activation energy and thermal radiation aspects in bioconvection flow of rate-type nanoparticles configured by a stretching/shrinking disk	2020	Journal of Energy Resources Technology, Transactions of the ASME	142	11		

215	Wakif A., Chamkha A., Animasaun I.L., Zaydan M., Waqas H., Sehaqui R.	Novel Physical Insights into the Thermodynamic Irreversibilities Within Dissipative EMHD Fluid Flows Past over a Moving Horizontal Riga Plate in the Coexistence of Wall Suction and Joule Heating Effects: A Comprehensive Numerical Investigation	2020	Arabian Journal for Science and Engineering	45	11	9423	9438
216	Naveed F., Khurshid M.K., Saqib S.	Corporate governance mechanism and the ratings of Islamic and conventional mutual funds: Evidence from Pakistan	2020	International Journal of Islamic and Middle Eastern Finance and Management	13	5	769	786
217	Abbas Z., Nazir H.Z., Akhtar N., Riaz M., Abid M.	On developing an exponentially weighted moving average chart under progressive setup: An efficient approach to manufacturing processes	2020	Quality and Reliability Engineering International	36	7	2569	2591
218	Shah S.A.R., Naqvi S.A.A., Anwar S.	Exploring the linkage among energy intensity, carbon emission and urbanization in Pakistan: fresh evidence from ecological modernization and environment transition theories	2020	Environmental Science and Pollution Research	27	32	40907	40929
219	Qasim M., Xiao H., He K., Noman A., Liu F., Chen M.-Y., Hussain D., Jamal Z.A., Li F.	Impact of landfill garbage on insect ecology and human health	2020	Acta Tropica	211			
220	Faisal M., Chunping X., Akhtar S., Raza M.H., Khan M.T.I., Ajmal M.A.	Modeling smallholder livestock herders' intentions to adopt climate smart practices: An extended theory of planned behavior	2020	Environmental Science and Pollution Research	27	31	39105	39122

221	Usman M., Kousar R., Yaseen M.R., Makhdum M.S.A.	An empirical nexus between economic growth, energy utilization, trade policy, and ecological footprint: a continent-wise comparison in upper-middle-income countries	2020	Environmental Science and Pollution Research	27	31	38995	39018
222	Fatemi H., Esmail Pour B., Rizwan M.	Isolation and characterization of lead (Pb) resistant microbes and their combined use with silicon nanoparticles improved the growth, photosynthesis and antioxidant capacity of coriander (<i>Coriandrum sativum</i> L.) under Pb stress	2020	Environmental Pollution	266			
223	Abbasi S.A., Riaz M., Ahmad S., Sanusi R.A., Abid M.	New efficient exponentially weighted moving average variability charts based on auxiliary information	2020	Quality and Reliability Engineering International	36	7	2203	2224
224	Iqbal S., Jabeen F., Peng C., Ijaz M.U., Chaudhry A.S.	<i>Cinnamomum cassia</i> ameliorates Ni-NPs-induced liver and kidney damage in male Sprague Dawley rats	2020	Human and Experimental Toxicology	39	11	1565	1581
225	Irshad M.A., Nawaz R., Zia ur Rehman M., Imran M., Ahmad J., Ahmad S., Inam A., Razzaq A., Rizwan M., Ali S.	Synthesis and characterization of titanium dioxide nanoparticles by chemical and green methods and their antifungal activities against wheat rust	2020	Chemosphere	258			

226	Block J., Fisch C., Rehan F.	Religion and entrepreneurship: a map of the field and a bibliometric analysis	2020	Management Review Quarterly	70	4	591	627
227	Ajaz N., Khalid I., Minhas M.U., Barkat K., Khan I.U., Syed H.K., Asghar S., Munir R., Aslam F.	Pectin-based hydrogels with adjustable properties for controlled delivery of nifedipine: development and optimization	2020	Polymer Bulletin	77	11	6063	6083
228	Anees ur Rehman, Ahmad Hassali M.A., Muhammad S.A., Shah S., Abbas S., Hyder Ali I.A.B., Salman A.	The economic burden of chronic obstructive pulmonary disease (COPD) in the USA, Europe, and Asia: results from a systematic review of the literature	2020	Expert Review of Pharmacoeconomics and Outcomes Research	20	6	661	672
229	Zamin M., Fahad S., Khattak A.M., Adnan M., Wahid F., Raza A., Wang D., Saud S., Noor M., Bakhat H.F., Mubeen M., Hammad H.M., Soliman M.H., Elkelish A.A., Riaz M., Nasim W.	Developing the first halophytic turfgrasses for the urban landscape from native Arabian desert grass	2020	Environmental Science and Pollution Research	27	32	39702	39716

230	Khadimallah M.A., Hussain M., Khedher K.M., Naeem M.N., Tounsi A.	Backward and forward rotating of FG ring support cylindrical shells	2020	Steel and Composite Structures	37	2	137	150
231	Ali E., Hassan Z., Irfan M., Hussain S., Rehman H.-U., Shah J.M., Shahzad A.N., Ali M., Alkahtani S., Abdel-Daim M.M., Bukhari S.A.H., Ali S.	Indigenous Tocopherol Improves Tolerance of Oilseed Rape to Cadmium Stress	2020	Frontiers in Plant Science	11			
232	Iman S., Saleem U., Ahmad B.	Pharmacological Screening of Mangifera indica Seeds for Antidepressant-like Action along with a Mechanistic Study	2020	ACS Omega	5	41	26924	26932
233	Munir S., Rasheed A., Rasheed T., Ayman I., Ajmal S., Rehman A., Shakir I., Agboola P.O., Warsi M.F.	Exploring the Influence of Critical Parameters for the Effective Synthesis of High-Quality 2D MXene	2020	ACS Omega	5	41	26845	26854
234	Zubair N.F., Jamil S., Fatima S., Khan S.R., Khan M.U., Janjua M.R.S.A.	Synthesis of needle like nano composite of rGO-Mn2O and their applications as photo-catalyst	2020	Chemical Physics Letters	757			

235	Waqas M., Haider A., Sufyan M., Siraj S., Sehgal S.A.	Determine the Potential Epitope Based Peptide Vaccine Against Novel SARS-CoV-2 Targeting Structural Proteins Using Immunoinformatics Approaches	2020	Frontiers in Molecular Biosciences	7			
236	Hussain M.	Application of Kelvin's approach for material structure of CNT: Polynomial volume fraction law	2020	Structural Engineering and Mechanics	76	1	129	139
237	Huang X., Wang N., Mehmood M.A., Saleemi M.K., Deng T., Wu H., Ke Y., Zhu H.	Pyrosequencing of the 16S rRNA Gene Elucidated the Diet and Age-related Association of the Intestinal Microbial Community in Ailuropoda melanoleuca (Giant Panda)	2020	International Journal of Agriculture and Biology	24	6	1699	1707
238	Baig M.M.F.A., Lai W.-F., Akhtar M.F., Saleem A., Mikrani R., Farooq M.A., Ahmed S.A., Tahir A., Naveed M., Abbas M., Ansari M.T.	Targeting folate receptors ($\hat{1}\pm 1$) to internalize the bleomycin loaded DNA-nanotubes into prostate cancer xenograft CWR22R cells	2020	Journal of Molecular Liquids	316			
239	Saleem U., Chauhdary Z., Raza Z., Shah S., Rahman M.-U., Zaib P., Ahmad B.	Anti-Parkinson's Activity of Tribulus terrestris via Modulation of AChE, $\hat{1}\pm$ -Synuclein, TNF- $\hat{1}\pm$, and IL-1 $\hat{1}^2$	2020	ACS Omega	5	39	25216	25227
240	Alsukhayri A.M., Aslam M.A., Saeedi K., Malik M.S.A.	A linked open data-oriented sustainable system for transparency and open access to government data: A case study of the publicâ€™s response to womenâ€™s driving in Saudi Arabia	2020	Sustainability (Switzerland)	12	20	1	26

241	Shaheen S., Zulfiqar S., Saleem S., Shehazadi G.	Does Organizational Cronyism Lead to Lower Employee Performance? Examining the Mediating Role of Employee Engagement and Moderating Role of Islamic Work Ethics	2020	Frontiers in Psychology	11			
242	Mushtaq F., Zahid M., Mansha A., Bhatti I.A., Mustafa G., Nasir S., Yaseen M.	MnFe2O4/coal fly ash nanocomposite: a novel sunlight-active magnetic photocatalyst for dye degradation	2020	International Journal of Environmental Science and Technology	17	10	4233	4248
243	Zuber M., Adeel S., Rehman F.-U., Anjum F., Muneer M., Abdullah M., Zia K.M.	Influence of Microwave Radiation on Dyeing of Bio-mordanted Silk Fabric using Neem Bark (Azadirachta indica)-Based Tannin Natural Dye	2020	Journal of Natural Fibers	17	10	1410	1422
244	Ahmed M., Saeed M., Waheed U., Mujtaba A., Hanif A., Khalid A., Rasheed F.	PERCEPTION OF BLOOD DONATION AMONG PAKISTANI YOUTH	2020	Pakistan Armed Forces Medical Journal	70	5	1360	1365
245	Otekunrin O.A., Otekunrin O.A., Fasina F.O., Omotayo A.O., Akram M.	Assessing the Zero Hunger Target Readiness in Africa in the Face of COVID-19 Pandemic	2020	Caraka Tani: Journal of Sustainable Agriculture	35	2	213	227
246	Sharif H., Naeem M.N., Khadimallah M.A., Ayed H., Bouzgarrou S.M., Al Naim A.F., Hussain S., Hussain M., Iqbal Z.,	Energy effects on MHD flow of Eyring's nanofluid containing motile microorganism	2020	Advances in Concrete Construction	10	4	357	367

	Tounsi A.							
247	Asghar S., Khadimallah M.A., Naeem M.N., Ghamkhar M., Khedher K.M., Hussain M., Bouzgarrou S.M., Ali Z., Iqbal Z., Mahmoud S.R., Algarni A., Taj M., Tounsi A.	Small scale computational vibration of double-walled CNTs: Estimation of nonlocal shell model	2020	Advances in Concrete Construction	10	4	345	355
248	Malik N., Nosheen F., Nafees M., Ashraf R., Jabbar M.	Depressive disorder in the mothers of Thalassemia patients in Punjab, Pakistan	2020	Rawal Medical Journal	45	4	882	885
249	Asghar A.R., Nawaz Y., Sher F., Afzal A.	Impact of food consumption, social network and recreational activities on health of older people in Punjab, Pakistan	2020	Rawal Medical Journal	45	4	934	937
250	Sana S., Bacha R., Fatima M., Gilani S.A., Raouf A., Akhter N.	Diagnostic accuracy of ultrasound findings in the differentiation of benign and malignant breast lesions	2020	Pakistan Journal of Medical and Health Sciences	14	4	773	776

251	Sumrra S.H., Anees M., Asif A., Zafar M.N., Mahmood K., Nazar M.F., Khalid M., Nadeem M.A., Khan M.U.	Synthesis, structural, spectral and biological evaluation of metals endowed 1,2,4-Triazole	2020	Bulletin of the Chemical Society of Ethiopia	34	2	335	351
252	Arshad S., Hussain I., Ibrahim M., Imran M., Assiri M.A., Thind S., Bilal M., Irfan A., Al-Sehemi A.G.	Biochemical studies on protein, phenolic contents and antioxidant activities of sida cordifolia extracts	2020	Bulletin of the Chemical Society of Ethiopia	34	2	427	434
253	Shahzad A., Kashif M., Munir T., He M., Tu X.	Thermal conductivity analysis of two-dimensional complex plasma liquids and crystals	2020	Physics of Plasmas	27	10		
254	Hussain M., Naeem M.N., Shahzad A., Taj M., Asghar S., Fatahi-Vajari A., Singh R., Tounsi A.	On mixing the rayleigh-ritz formulation with hankel's function for vibration of fluid-filled functionally graded cylindrical shell	2020	Advances in Computational Design	5	4	363	380
255	Salman M., Tariq A., Ijaz A., Naheed S., Hashem A., Abd-Allah E.F., Soliman M.H., Javed M.R.	In vitro antimicrobial and antioxidant activities of lactobacillus coryniformis BCH-4 bioactive compounds and determination of their bioprotective effects on nutritional components of maize (Zea mays L.)	2020	Molecules	25	20		

256	Khan S.U., Waqas H., Muhammad T., Imran M., Ullah M.Z.	Significance of activation energy and Wu's slip features in Cross nanofluid with motile microorganisms	2020	Communications in Theoretical Physics	72	10		
257	Chu Y.-M., Aziz S., Khan M.I., Khan S.U., Nazeer M., Ahmad I., Tlili I.	Nonlinear radiative bioconvection flow of Maxwell nanofluid configured by bidirectional oscillatory moving surface with heat generation phenomenon	2020	Physica Scripta	95	10		
258	Hamza M., Altaf A.A., Kausar S., Murtaza S., Rasool N., Gul R., Badshah A., Zaheer M., Shah S.A.A., Zakaria Z.A.	Catalytic removal of alizarin red using chromium manganese oxide nanorods: Degradation and kinetic studies	2020	Catalysts	10	10	1	17
259	Azeem M., Arshad M., Mahmood S., Abrar S., Zahoor A.F., Javed S., Tariq B., Hayyat K.	Development of one pot strategy for hyper production and in vivo evaluation of lovastatin	2020	Molecules	25	19		
260	Sohail A., Rana M., Ikram S., Munir T., Hussain T., Ahmed R., Yu C.-S.	Enhancement of mechanical entanglement in hybrid optomechanical system	2020	Quantum Information Processing	19	10		
261	Saleem U., Zaib S., Khalid S., Anwar F., Akhtar M., Ahmad B.	Chemical characterization, docking studies, anti-arthritic activity and acute oral toxicity of Convolvulus arvensis L. leaves	2020	Asian Pacific Journal of Tropical Biomedicine	10	10	442	451

262	Kakar A., Hayat M.T., Abbasi A.M., Pervez A., Mahmood Q., Farooq U., Akbar T.A., Ali S., Rizwan M., El-Serehy H.A., Abdel-Daim M.M.	Risk assessment of heavy metals in selected marine fish species of gadani shipbreaking area and Pakistan	2020	Animals	10	10	1	17
263	Akram N.A., Hafeez N., Farid-ul-Haq M., Ahmad A., Sadiq M., Ashraf M.	Foliage application and seed priming with nitric oxide causes mitigation of salinity-induced metabolic adversaries in broccoli (Brassica oleracea L.) plants	2020	Acta Physiologiae Plantarum	42	10		
264	Ahsan H., Umar Ijaz M., Ashraf A., Ehsan N., Noreen R., Zafar S., Samad A., AlGhanim K.A., Al-Misned F., Al-Mulahim N., Kaimkhani Z.A., Mahboob S.	Methanol extract of Artemisia brevifolia as a curative agent against CCl4 induced nephrotoxicity in albino rats	2020	Journal of King Saud University - Science	32	7	3072	3078
265	Kanjal M.I., Muneer M., Abdelhaleem A., Chu W.	Degradation of methotrexate by UV/peroxymonosulfate: Kinetics, effect of operational parameters and mechanism	2020	Chinese Journal of Chemical Engineering	28	10	2658	2667
266	Moeen M., Qi T., Hussain Z., Ge Q., Maqbool Z., Jianjie X., Kaiqing F.	Use of zeolite to reduce the bioavailability of heavy metals in a contaminated soil	2020	Journal of Ecological Engineering	21	7	186	196

267	Abbas S., Javed M.T., Shahid M., Hussain I., Haider M.Z., Chaudhary H.J., Tanwir K., Maqsood A.	Acinetobacter sp. SG-5 inoculation alleviates cadmium toxicity in differentially Cd tolerant maize cultivars as deciphered by improved physio-biochemical attributes, antioxidants and nutrient physiology	2020	Plant Physiology and Biochemistry	155		815	827
268	Afzaal M., Saeed F., Hussain S., Mohamed A.A., Alamri M.S., Ahmad A., Ateeq H., Tufail T., Hussain M.	Survival and storage stability of encapsulated probiotic under simulated digestion conditions and on dried apple snacks	2020	Food Science and Nutrition	8	10	5392	5401
269	Asif M., Saleem M., Saadullah M., Yaseen H.S., Al Zarzour R.	COVID-19 and therapy with essential oils having antiviral, anti-inflammatory, and immunomodulatory properties	2020	Inflammopharmacology	28	5	1153	1161
270	Rehman K., Khan I.I., Akash M.S.H., Jabeen K., Haider K.	Naringenin downregulates inflammation-mediated nitric oxide overproduction and potentiates endogenous antioxidant status during hyperglycemia	2020	Journal of Food Biochemistry	44	10		
271	Zaheer I.E., Ali S., Saleem M.H., Imran M., Alnusairi G.S.H., Alharbi B.M., Riaz M., Abbas Z., Rizwan M., Soliman M.H.	Role of iron and lysine on morpho-physiological traits and combating chromium toxicity in rapeseed (Brassica napus L.) plants irrigated with different levels of tannery wastewater	2020	Plant Physiology and Biochemistry	155		70	84

272	Iqbal S., Shaid N.A., Sajid M.M., Javed Y., Fakhar-e-Alam M., Mahmood A., Ahmad G., Afzal A.M., Hussain S.Z., Ali F., Sarwar M.	Extensive evaluation of changes in structural, chemical and thermal properties of copper sulfide nanoparticles at different calcination temperature	2020	Journal of Crystal Growth	547			
273	Khan I., Khalid M., Adeel M., Khan M.U., Khan M.S., Ahmad N., Ali A., Akram M.	Palladium-catalyzed synthesis of pyrimidine substituted diaryl ethers through Suzuki Miyaura coupling reactions: Experimental and DFT studies	2020	Optik	219			
274	Sattar S., Imran M., Mushtaq Z., Ahmad M.H., Arshad M.S., Holmes M., Maycock J., Nisar M.F., Khan M.K.	Retention and stability of bioactive compounds in functional peach beverage using pasteurization, microwave and ultrasound technologies	2020	Food Science and Biotechnology	29	10	1381	1388
275	Saleem A., Saleem M., Akhtar M.F., Baig M.M.F.A., Rasul A.	HPLC analysis, cytotoxicity, and safety study of Moringa oleifera Lam. (wild type) leaf extract	2020	Journal of Food Biochemistry	44	10		
276	Nisar M.F., Arshad M.S., Yasin M., Khan M.K., Afzaal M., Sattar S., Suleria H.A.R.	Evaluation of gamma irradiation and moringa leaf powder on quality characteristics of meat balls under different packaging materials	2020	Journal of Food Processing and Preservation	44	10		

277	Hameed A., Mehmood M.A., Shahid M., Fatma S., Khan A., Ali S.	Prospects for potato genome editing to engineer resistance against viruses and cold-induced sweetening	2020	GM Crops and Food	11	4	185	205
278	Khan S.U., Waqas H., Muhammad T., Imran M., Aly S.	Simultaneous effects of bioconvection and velocity slip in three-dimensional flow of Eyring-Powell nanofluid with Arrhenius activation energy and binary chemical reaction	2020	International Communications in Heat and Mass Transfer	117			
279	Ijaz M.U., Batool M., Ashraf A., Siddique M.H., Zafar S., Muzammil S., Ayaz F., Samad A., Al-Ghanim K., Mahboob S.	A study on the potential reprotoxic effects of thimerosal in male albino rats	2020	Saudi Journal of Biological Sciences	27	10	2798	2802
280	Nazeer M., Ali N., Ahmad F., Ali W., Saleem A., Ali Z., Sarfraz A.	Effects of radiative heat flux and joule heating on electro-osmotically flow of non-Newtonian fluid: Analytical approach	2020	International Communications in Heat and Mass Transfer	117			
281	Baig M.M.F.A., Lai W.-F., Ashraf S., Saleem A., Akhtar M.F., Mikrani R., Naveed M., Siddique F., Taleb A., Mudassir J., Khan G.J., Ansari M.T.	The integrin facilitated internalization of fibronectin-functionalized camptothecin-loaded DNA-nanofibers for high-efficiency anticancer effects	2020	Drug Delivery and Translational Research	10	5	1381	1392

282	Chu H.-H., Rashid S., Hammouch Z., Chu Y.-M.	New fractional estimates for Hermite-Hadamard-Mercer's type inequalities	2020	Alexandria Engineering Journal	59	5	3079	3089
283	Roohi M., Arif M.S., Yasmeen T., Riaz M., Rizwan M., Shahzad S.M., Ali S., Bragazza L.	Effects of cropping system and fertilization regime on soil phosphorous are mediated by rhizosphere-microbial processes in a semi-arid agroecosystem	2020	Journal of Environmental Management	271			
284	Khalid N., Abbas M., Iqbal M.K., Singh J., Md. Ismail A.I.	A computational approach for solving time fractional differential equation via spline functions	2020	Alexandria Engineering Journal	59	5	3061	3078
285	Munawar T., Mukhtar F., Nadeem M.S., Asghar M., Mahmood K., Hussain A., Arshad M.I., Ajaz un Nabi M., Iqbal F.	Multifunctional properties of $Zn_{0.9}Mn_{0.05}M_{0.05}O$ (M = Al, Bi, Sr, Ag) nanocrystals-structural and optical study: Enhance sunlight driven photocatalytic activity	2020	Ceramics International	46	14	22345	22366
286	Junaid M., Jacob J., Nadeem M., Khan M.A., Hayat S., Manzoor A., Ahmad S., Musaddiq S., Abbas W., Ali A.,	Structural, Spectroscopic, Dielectric, and Magnetic Properties of Cu-Co ²⁺ Co-substituted Manganese Soft Ferrites	2020	Journal of Superconductivity and Novel Magnetism	33	10	3171	3177

	Mahmood K., Hussain S.							
287	Munawar T., Mukhtar F., Nadeem M.S., Mahmood K., Hasan M., Hussain A., Ali A., Arshad M.I., Iqbal F.	Novel direct dual-Z-scheme ZnO-Er2O3-Nd2O3@reduced graphene oxide heterostructured nanocomposite: Synthesis, characterization and superior antibacterial and photocatalytic activity	2020	Materials Chemistry and Physics	253			
288	Hussain M.I., Arif Khalil R.M., Hussain F., Rana A.M., Murtaza G., Imran M.	Probing the structural, electronic, mechanical strength and optical properties of tantalum-based oxide perovskites ATaO3 (A = Rb, Fr) for optoelectronic applications: First-principles investigations	2020	Optik	219			
289	Zia A., van den Berg L., Riaz M., Arif M., Zia D., Khan S.J., Ahmad M.N., Attaullah, Ahsmore M.	Nitrogen induced DOC and heavy metals leaching: Effects of nitrogen forms, deposition loads and liming	2020	Environmental Pollution	265			
290	Abbas A., Mushtaq A., Cheema A.I., Mahmood F., Khan M.A., Naqqash T., Khurshid M., Manzoor I., Muhammad S., Shahid M.	Heterologous expression of azoreductase-encoding gene azrS of Bacillus sp. MR-1/2 for enhanced azo dye decolorization and wastewater treatment	2020	Archives of Microbiology	202	8	2135	2145

291	Amir W., Farid M., Ishaq H.K., Farid S., Zubair M., Alharby H.F., Bamagoos A.A., Rizwan M., Raza N., Hakeem K.R., Ali S.	Accumulation potential and tolerance response of Typha latifolia L. under citric acid assisted phytoextraction of lead and mercury	2020	Chemosphere	257			
292	Saba S., Akash M.S.H., Rehman K., Saleem U., Fiayyaz F., Ahmad T.	Assessment of heavy metals by ICP-OES and their impact on insulin stimulating hormone and carbohydrate metabolizing enzymes	2020	Clinical and Experimental Pharmacology and Physiology	47	10	1682	1691
293	Khalid H., Landry K.B., Ijaz B., Ashfaq U.A., Ahmed M., Kanwal A., Froeyen M., Mirza M.U.	Discovery of novel Hepatitis C virus inhibitor targeting multiple allosteric sites of NS5B polymerase	2020	Infection, Genetics and Evolution	84			
294	Nisar A., Saeed M., Usman M., Muneer M., Adeel M., Khan I., Akhtar J.	Kinetic modeling of ZnO-rGO catalyzed degradation of methylene blue	2020	International Journal of Chemical Kinetics	52	10	645	654
295	Iqbal M.M., Naz T., Zafar M.I., Imtiaz M., Farooq O., Atique ur Rehman, Ali S., Rizwan M., Hussain S., Javed W., Murtaza G., Afzal M., Mahmood A., Mehdi S.M., Sarwar M.A., Du Laing G.	Green remediation of saline-sodic Pb-factored soil by growing salt-tolerant rice cultivar along with soil applied inorganic amendments	2020	Paddy and Water Environment	18	4	637	649

296	Bader Ul Ain H., Saeed F., Sultan M.T., Afzaal M., Imran A., DeFeo V., Cobelschi C.	Effect of thermally treated barley dietary fiber against hypercholesterolemia	2020	Food Science and Nutrition	8	10	5259	5266
297	Mahmood H., Ur Rehman F., Binyamin M.A.	A note on f -graphs	2020	Journal of Algebra and its Applications	19	10		
298	Tanveer H., Balz T., Sumari N.S., Shan R.-U., Tanweer H.	Pattern analysis of substandard and inadequate distribution of educational resources in urbanâ€”rural areas of Abbottabad, Pakistan	2020	GeoJournal	85	5	1397	1409
299	Majeed A., Javed F., Akhtar S., Saleem U., Anwar F., Ahmad B., Nadhman A., Shahnaz G., Hussain I., Hussain S.Z., Sohail M.F.	Green synthesized selenium doped zinc oxide nano-antibiotic: Synthesis, characterization and evaluation of antimicrobial, nanotoxicity and teratogenicity potential	2020	Journal of Materials Chemistry B	8	36	8444	8458
300	Amin M., Abbas M., Iqbal M.K., Baleanu D.	Numerical Treatment of Time-Fractional Kleinâ€”Gordon Equation Using Redefined Extended Cubic B-Spline Functions	2020	Frontiers in Physics	8			

301	Khan M.U., Hussain R., Yasir Mehboob M., Khalid M., Shafiq Z., Aslam M., Al-Saadi A.A., Jamil S., Janjua M.R.S.A.	In Silico Modeling of New "γ-Series"-Based Near-Infrared Sensitive Non-Fullerene Acceptors for Efficient Organic Solar Cells	2020	ACS Omega	5	37	24125	24137
302	Malik M.J., Ahmad M., Kamran M.R., Aliza K., Elahi M.Z.	Student use of social media, academic performance, and creativity: the mediating role of intrinsic motivation	2020	Interactive Technology and Smart Education	17	4	403	415
303	Hameed A., Hameed A., Ahmad M., Farooq T.	Alleviation of cadmium toxicity by mercapto-triazole priming in wheat	2020	Archives of Agronomy and Soil Science	66	11	1467	1480
304	Tahir Ul Qamar M., Shahid F., Aslam S., Ashfaq U.A., Aslam S., Fatima I., Fareed M.M., Zohaib A., Chen L.-L.	Reverse vaccinology assisted designing of multiepitope-based subunit vaccine against SARS-CoV-2	2020	Infectious Diseases of Poverty	9	1		
305	Niaz L., Saddique F.A., Aslam S., Ahmad M., Mohsin N.U.A.	Recent synthetic methodologies for pyridopyrazines: An update	2020	Synthetic Communications	50	18	2755	2786
306	Khan M.U., Khalid M., Arshad M.N., Khan M.N., Usman M., Ali A., Saifullah B.	Designing star-shaped subphthalocyanine-based acceptor materials with promising photovoltaic parameters for non-fullerene solar cells	2020	ACS Omega	5	36	23039	23052

307	Kamal S., Junaid M., Ejaz A., Bibi I., Akash M.S.H., Rehman K.	The secrets of telomerase: Retrospective analysis and future prospects	2020	Life Sciences	257			
308	Mehboob M.Y., Hussain R., Khan M.U., Adnan M., Umar A., Alvi M.U., Ahmed M., Khalid M., Iqbal J., Akhtar M.N., Zafar F., Shahi M.N.	Designing N-phenylaniline-triazol configured donor materials with promising optoelectronic properties for high-efficiency solar cells	2020	Computational and Theoretical Chemistry	1186			
309	Naeem H.M., Ijaz S., Abbas M.H., Ahmed Y., Rehman N., Park T.J., Basit M.A.	HF-based surface modification for enhanced photobiological and photochemical performance of ZnO and ZnO/CdS hierarchical structures	2020	Materials Chemistry and Physics	252			
310	Amen R., Bashir H., Bibi I., Shaheen S.M., Niazi N.K., Shahid M., Hussain M.M., Antoniadis V., Shakoor M.B., Al-Solaimani S.G., Wang H., Bundschuh J., Rinklebe J.	A critical review on arsenic removal from water using biochar-based sorbents: The significance of modification and redox reactions	2020	Chemical Engineering Journal	396			
311	Khalid M., Arshad M.N., Tahir M.N., Asiri A.M., Naseer M.M., Ishaq M., Khan M.U., Shafiq Z.	An efficient synthesis, structural (SC-XRD) and spectroscopic (FTIR, ¹ HNMR, MS spectroscopic) characterization of novel benzofuran-based hydrazones: An experimental and theoretical studies	2020	Journal of Molecular Structure	1216			

312	Komal F., Khan M.K., Imran M., Ahmad M.H., Anwar H., Ashfaq U.A., Ahmad N., Masroor A., Ahmad R.S., Nadeem M., Nisa M.U.	Impact of different omega-3 fatty acid sources on lipid, hormonal, blood glucose, weight gain and histopathological damages profile in PCOS rat model	2020	Journal of Translational Medicine	18	1		
313	Iqbal W., Jalil M., Khadimallah M.A., Ayed H., Naeem M.N., Hussain M., Bouzgarrou S.M., Mahmoud S.R., Ghandourah E., Taj M., Tounsi A.	Runge-Kutta method for flow of dusty fluid along exponentially stretching cylinder	2020	Steel and Composite Structures	36	5	603	615
314	Farid M., Farid S., Zubair M., Ghani M.A., Rizwan M., Ishaq H.K., Alkahtani S., Abdel-Daim M.M., Ali S.	Glutamic Acid-Assisted Phytomanagement of Chromium Contaminated Soil by Sunflower (<i>Helianthus annuus</i> L.): Morphophysiological and Biochemical Alterations	2020	Frontiers in Plant Science	11			
315	Ali R., Asgher M., Malik M.F.	Gravitational analysis of neutral regular black hole in Rastall gravity	2020	Modern Physics Letters A	35	27		
316	Ahmad B., ErÅšek M.	Linking national business system and firm level innovation: A serial mediation analysis with intellectual capital and absorptive capacity	2020	European Journal of Innovation Management	23	5	765	788

317	Bajwa J., Nawaz H., Majeed M.I., Hussain A.I., Farooq S., Rashid N., Bakkar M.A., Ahmad S., Hyat H., Bashir S., Ali S., Kashif M.	Quantitative analysis of solid dosage forms of cefixime using Raman spectroscopy	2020	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	238			
318	Khan N., Riaz M., Hashmi M.S., Khan S.U., Tlili I., Khan M.I., Nazeer M.	Soret and dufour features in peristaltic motion of chemically reactive fluid in a tapered asymmetric channel in the presence of hall current	2020	Journal of Physics Communications	4	9	1	19
319	Qamar S.A., Ashiq M., Jahangeer M., Riasat A., Bilal M.	Chitosan-based hybrid materials as adsorbents for textile dyes“A review	2020	Case Studies in Chemical and Environmental Engineering	2			
320	Hasnain Z., Zafar S., Shafqat U., Perveen S., Iqbal N., Qaisrani S.A., Chattha M.B., Mumtaz S.	Antibacterial activity of eco-friendly zinc nanoparticles prepared from leaf extract of Mentha piperita L	2020	Pakistan journal of pharmaceutical sciences	33	5	2413	2416
321	Shahid M.N., Abbas A., Latif K., Attique A., Khalid S.	The mediating role of board size, philanthropy and working capital management between basic corporate governance factors and firm's performance	2020	Journal of Asian Business and Economic Studies	27	2	135	151

322	Akash M.S.H., Rehman K., Sabir S., Gul J., Hussain I.	Potential Risk Assessment of Pharmaceutical Waste: Critical Review and Analysis	2020	Pakistan Journal of Scientific and Industrial Research Series A: Physical Sciences	63	3	209	219
323	Habiba U., Rana M.S., Hanif A., Gilani S.A., Asif M., Ayaz S.	Prevalence and risk factors associated with prenatal depression among pregnant women in Faisalabad, Pakistan	2020	Pakistan Journal of Pharmaceutical Sciences	33	5	2355	2360
324	Mushtaq A., Ansari T.M., Mustafa G., Shad M.A., Cruz-Reyes J., Jamil A.	Isolation and characterization of nprB, a novel protease from Streptomyces thermovulgaris	2020	Pakistan Journal of Pharmaceutical Sciences	33	5	2361	2369
325	Mustafa G., Majid M., Ghaffar A., Yameen M., Samad H.A., Mahrosh H.S.	Screening and molecular docking of selected phytochemicals against NS5B polymerase of hepatitis c virus	2020	Pakistan Journal of Pharmaceutical Sciences	33	5	2317	2322
326	Bashir M., Syed H.K., Asghar S., Irfan M., Aslam N., Iqbal M.S., Khan I.U., Shah P.A., Khan N.R., Ahmad J., Saleem M., Asif M.	Binary inclusion complexes of diflunisal with β -cyclodextrin and hydroxypropyl- β -cyclodextrin: Preparation and characterization	2020	Pakistan Journal of Pharmaceutical Sciences	33	5	2307	2315

327	Batool A., Saleem M., Alamgeer, Irfan H.M., Younis W., Alotaibi N.H., Alharbi K.S., Bukhari S.N.A., Locatelli M., Saleem H.	Study on vascular mechanisms underlying the hypotensive effect of Sorghum halepense (L.) Pers.	2020	Pakistan Journal of Pharmaceutical Sciences	33	5	2219	2230
328	Ahmad U., Ahmad R.S., Shahbaz M., Imran A., Haseeb M., Siddique F., Yasmin Z., Ashraf I., Masroor A., Basit A.	Hematological and toxicological effects of aqueous leaf extract of Stevia rebaudiana Bertoni in normal rat modals	2020	Pakistan Journal of Pharmaceutical Sciences	33	5	2249	2255
329	Javed S., Naseer A., Nawaz A., Naveed Q., Khan I.U., Gul F., Din B.M.U.	Psychological implications in the coaching context: The mediating role of motivational intensity and team cohesion in elite sport performance	2020	Journal of Physical Education and Sport	20	5	2526	2538
330	Andleeb R., Ashraf A., Ijaz M.U., Sultana T., Asad F., Islam B., Wajid S.A.	In vitro antioxidant, hemolytic, thrombolytic potencies of centrathurum anthelminticum seed extracts and its in ovo antiviral efficacy	2020	Pakistan Journal of Agricultural Sciences	57	5	1261	1269
331	Yamin M., Ismail W.I.B.W., Kassim M.S.B.M., Aziz S.B.A., Shamshiri R., Akbar F.N.,	Development and calibration of orp sensor for the estimation of macronutrients in the soil of oil palm plantation	2020	Pakistan Journal of Agricultural Sciences	57	5	1363	1369

	Ibrahim M.							
332	Rasheed F., Saeed M., Alikhan N.-F., Baker D., Khurshid M., Ainsworth E.V., Turner A.K., Imran A.A., Rasool M.H., Saqalein M., Nisar M.A., Ur Rehman M.F., Wain J., Yasir M., Langridge G.C., Ikram A.	Emergence of resistance to fluoroquinolones and third-generation cephalosporins in salmonella typhi in lahore, pakistan	2020	Microorganisms	8	9	1	10
333	Shahzadi M., Abbas Q.	Individualised cognitive behaviour therapy in patients of substance use disorders: three case studies	2020	Journal of the Pakistan Medical Association	70	9	1657	1660
334	Zaheer I.E., Ali S., Saleem M.H., Ashraf M.A., Ali Q., Abbas Z., Rizwan M., El-Sheikh M.A., Alyemeni M.N., Wijaya L.	Zinc-lysine supplementation mitigates oxidative stress in rapeseed (Brassica napus L.) by preventing phytotoxicity of chromium, when irrigated with tannery wastewater	2020	Plants	9	9	1	19
335	Kamran S.K.S., Rasul A., Anwar H., Irfan S., Ullah K.S., Malik S.A., Razzaq A., Aziz N., Braidy N., Hussain G.	Ferula asafoetida Linn. is effective for early functional recovery following mechanically induced insult to the sciatic nerve of a mouse model	2020	Tropical Journal of Pharmaceutical Research	19	9	1903	1910

336	Qamar S.A., Basharat K., Bilal M., Iqbal H.M.N.	Therapeutic modalities for sARs-Cov-2 (COvid-19): Current status and role of protease inhibitors to block viral entry into host cells	2020	Journal of Pure and Applied Microbiology	14	3	1695	1703
337	Sheikh Y.A., Butt A.D., Paracha K.N., Awan A.B., Bhatti A.R., Zubair M.	An improved cooling system design to enhance energy efficiency of floating photovoltaic systems	2020	Journal of Renewable and Sustainable Energy	12	5		
338	Abbas H., Javed N., Kamran M., Khan S.A., Abbas H., Ehetisham-Ul-Haq, Jabbar A., Naz M., Ullah I.	Effect of different application methods on the nematocidal activity of bio and synthetic chemicals against root knot nematode, Meloidogyne incognita (kofoid and white) chitwood	2020	Pakistan Journal of Zoology	52	6	2363	2370
339	Zeng F., Zahoor M., Waseem M., Anayat A., Rizwan M., Ahmad A., Yasmeen T., Ali S., El-Sheikh M.A., Alyemeni M.N., Wijaya L.	Influence of metal-resistant staphylococcus aureus strain K1 on the alleviation of chromium stress in wheat	2020	Agronomy	10	9		
340	Rashid M., Qasim M., Ishaq R., Bukhari S.A., Sajid Z., Ashfaq U.A., Haque A., Ahmed Z.M.	Pathogenic variants of AIPL1, MERTK, GUCY2D, and FOXE3 in Pakistani families with clinically heterogeneous eye diseases	2020	PLoS ONE	15	45544		

341	Ali Q., Javed M.T., Haider M.Z., Habib N., Rizwan M., Perveen R., Ali S., Alyemeni M.N., El-Serehy H.A., Al-Misned F.A.	Î±-Tocopherol foliar spray and translocation mediates growth, photosynthetic pigments, nutrient uptake, and oxidative defense in Maize (Zea mays L.) under drought stress	2020	Agronomy	10	9		
342	Yan M., Xie Y.-P., Zhao J., Zhang Y.-J., Bashir M., Liu Y.	How Ingratiation Links to Counterproductive Work Behaviors: The Roles of Emotional Exhaustion and Power Distance Orientation	2020	Frontiers in Psychology	11			
343	Jahangeer M., Zia Ud Din N., Karim S., Hussain S., Ashiq M., Ali U., Ul Haq A., Munir N., Mahmood Z., Ghaffar A.	Advancements in combination therapy of Hepatitis C virus	2020	Pakistan Journal of Pharmaceutical Sciences	33	5	2171	2178
344	Alam W., Khan H., Shah M.A., Cauli O., Saso L.	Kaempferol as a Dietary Anti-Inflammatory Agent: Current Therapeutic Standing	2020	Molecules	25	18		
345	Santoso F., Farhan A., Castillo A.L., Malhotra N., Saputra F., Kurnia K.A., Chen K.H.-C., Huang J., Chen J., Hsiao C.	An overview of methods for cardiac rhythm detection in zebrafish	2020	Biomedicines	8	9		
346	Beshbishy A.M., Hetta H.F., Hussein D.E., Saati A.A., Uba C.C., Rivero-	Factors associated with increased morbidity and mortality of obese and overweight COVID-19 patients	2020	Biology	9	9	1	24

	Perez N., Zaragoza-Bastida A., Shah M.A., Behl T., Batiha G.E.-S.							
347	Ali Q., Shahid S., Ali S., El-Esawi M.A., Hussain A.I., Perveen R., Iqbal N., Rizwan M., Alyemeni M.N., El-Serehy H.A., Al-Misned F.A.	Fertigation of ajwain (<i>Trachyspermum ammi</i> L.) with fe-glutamate confers better plant performance and drought tolerance in comparison with FeSO ₄	2020	Sustainability (Switzerland)	12	17		
348	Abbas G., Saadullah M., Rasul A., Shah S., Khan S.M., Hanif M., Ahmed M.M.	Development and Validation of High-Performance Liquid Chromatography Method for the Simultaneous Monitoring of Pantoprazole Sodium Sesquihydrate and Domperidone Maleate in Plasma and its Application to Pharmacokinetic Study	2020	Acta Chromatographica	32	3	157	165
349	Latif U., Farid M., Rizwan M., Ishaq H.K., Farid S., Ali S., El-Sheikh M.A., Alyemeni M.N., Wijaya L.	Physiological and biochemical response of <i>alternanthera bettzickiana</i> (Regel) g. <i>nicholson</i> under acetic acid assisted phytoextraction of lead	2020	Plants	9	9	1	13
350	Ali Q., Perveen R., El-Esawi M.A., Ali S., Hussain S.M., Amber M., Iqbal N., Rizwan M., Alyemeni M.N., El-Serehy H.A., Al-Misned F.A., Ahmad P.	Low doses of <i>cuscuta reflexa</i> extract act as natural biostimulants to improve the germination vigor, growth, and grain yield of wheat grown under water stress: Photosynthetic pigments, antioxidative defense mechanisms, and nutrient acquisition	2020	Biomolecules	10	9	1	30

351	Ali Q., Ali S., El-Esawi M.A., Rizwan M., Azeem M., Hussain A.I., Perveen R., El-Sheikh M.A., Alyemeni M.N., Wijaya L.	Foliar spray of Fe-Asp confers better drought tolerance in sunflower as compared with FeSO4: Yield traits, osmotic adjustment, and antioxidative defense mechanisms	2020	Biomolecules	10	9	1	29
352	Rasheed R., Ashraf M.A., Arshad A., Iqbal M., Hussain I.	Interactive effects of chitosan and cadmium on growth, secondary metabolism, oxidative defense, and element uptake in pea (<i>Pisum sativum</i> L.)	2020	Arabian Journal of Geosciences	13	17		
353	Perveen S., Saeed M., Parveen A., Javed M.T., Zafar S., Iqbal N.	Modulation of growth and key physiobiochemical attributes after foliar application of zinc sulphate (ZnSO4) on wheat (<i>Triticum aestivum</i> L.) under cadmium (Cd) stress	2020	Physiology and Molecular Biology of Plants	26	9	1787	1797
354	Abbas G., Alay-e-Abbas S.M., Laref A., Li Y., Zhang W.X.	Two-dimensional B3P monolayer as a superior anode material for Li and Na ion batteries: a first-principles study	2020	Materials Today Energy	17			
355	Rehman T., Shabbir M.A., Inam-Ur-Raheem M., Manzoor M.F., Ahmad N., Liu Z.-W., Ahmad M.H., Siddeeg A., Abid M., Aadil R.M.	Cysteine and homocysteine as biomarker of various diseases	2020	Food Science and Nutrition	8	9	4696	4707

356	Zafar S., Akhtar M., Perveen S., Hasnain Z., Khalil A.	Attenuating the adverse aspects of water stress on wheat genotypes by foliar spray of melatonin and indole-3-acetic acid	2020	Physiology and Molecular Biology of Plants	26	9	1751	1762
357	Adeel S., Habib N., Arif S., Rehman F.U., Azeem M., Batool F., Amin N.	Microwave-assisted eco-dyeing of bio mordanted silk fabric using cinnamon bark (Cinnamomum Verum) based yellow natural dye	2020	Sustainable Chemistry and Pharmacy	17			
358	Kousar S., Khan A.R., Ul Hassan M., Noreen Z., Bhatti S.H.	Some best-fit probability distributions for at-site flood frequency analysis of the Ume River	2020	Journal of Flood Risk Management	13	3		
359	Irfan M., Javed M., Bhatti S.H., Raza M.A., Ahmad T.	Almost unbiased optimum estimators for population mean using dual auxiliary information	2020	Journal of King Saud University - Science	32	6	2835	2844
360	Kanwal N., Rasul A., Hussain G., Anwar H., Shah M.A., Sarfraz I., Riaz A., Batool R., Shahbaz M., Hussain A., Selamoglu Z.	Oleandrin: A bioactive phytochemical and potential cancer killer via multiple cellular signaling pathways	2020	Food and Chemical Toxicology	143			
361	Hussain D., Hussain T., Khan A.A., Naqvi S.A.A., Jamil A.	A deep learning approach for hydrological time-series prediction: A case study of Gilgit river basin	2020	Earth Science Informatics	13	3	915	927

362	Bari A., Iqbal A., Khan Z.A., Shahzad S.A., Yar M.	Synthetic approaches toward piperidine related structures: A review	2020	Synthetic Communications	50	17	2572	2589
363	Amin N., Ul Hasan M.S., Majeed Z., Latif Z., Ajaz un Nabi M., Mahmood K., Ali A., Mehmood K., Fatima M., Akhtar M., Arshad M.I., Bibi A., Iqbal M.Z., Jabeen F., Bano N.	Structural, electrical, optical and dielectric properties of yttrium substituted cadmium ferrites prepared by Co-Precipitation method	2020	Ceramics International	46	13	20798	20809
364	Tariq M.A., Nadeem M., Iqbal M.M., Imran M., Siddique M.H., Iqbal Z., Amjad M., Rizwan M., Ali S.	Effective sequestration of Cr (VI) from wastewater using nanocomposite of ZnO with cotton stalks biochar: modeling, kinetics, and reusability	2020	Environmental Science and Pollution Research	27	27	33821	33834
365	Iftikhar A., Rizwan M., Adrees M., Ali S., ur Rehman M.Z., Qayyum M.F., Hussain A.	Effect of gibberellic acid on growth, biomass, and antioxidant defense system of wheat (<i>Triticum aestivum</i> L.) under cerium oxide nanoparticle stress	2020	Environmental Science and Pollution Research	27	27	33809	33820
366	Kiran S., Rafique M.A., Iqbal S., Nosheen S., Naz S., Rasheed A.	Synthesis of nickel nanoparticles using <i>Citrullus colocynthis</i> stem extract for remediation of Reactive Yellow 160 dye	2020	Environmental Science and Pollution Research	27	26	32998	33007

367	Alyas T., Shaheen S., Amber U., Harun N., Khalid S., Hussain K., Hanif U., Khan F.	Applications of scanning electron microscopy in taxonomy with special reference to family Euphorbiaceae	2020	Microscopy Research and Technique	83	9	1066	1078
368	Ullah S., Apergis N., Usman A., Chishti M.Z.	Asymmetric effects of inflation instability and GDP growth volatility on environmental quality in Pakistan	2020	Environmental Science and Pollution Research	27	25	31892	31904
369	Muneer F., Rasul I., Azeem F., Siddique M.H., Zubair M., Nadeem H.	Microbial Polyhydroxyalkanoates (PHAs): Efficient Replacement of Synthetic Polymers	2020	Journal of Polymers and the Environment	28	9	2301	2323
370	Rehman K., Jabeen K., Awan F.R., Hussain M., Saddique M.A., Akash M.S.H.	Biochemical investigation of rs1801282 variations in PPAR- γ^3 gene and its correlation with risk factors of diabetes mellitus in coronary artery disease	2020	Clinical and Experimental Pharmacology and Physiology	47	9	1517	1529
371	Bukhat S., Imran A., Javaid S., Shahid M., Majeed A., Naqqash T.	Communication of plants with microbial world: Exploring the regulatory networks for PGPR mediated defense signaling	2020	Microbiological Research	238			

372	Waris M., Nasir S., Abbas S., Azeem M., Ahmad B., Khan N.A., Hussain B., Al-Ghanim K.A., Al-Misned F., Mulahim N., Mahboob S.	Evaluation of larvicidal efficacy of <i>Ricinus communis</i> (Castor) and synthesized green silver nanoparticles against <i>Aedes aegypti</i> L.	2020	Saudi Journal of Biological Sciences	27	9	2403	2409
373	Hafeez A., Ullah Z., Khan R.U., Ullah Q., Naz S.	Effect of diet supplemented with coconut essential oil on performance and villus histomorphology in broiler exposed to avian coccidiosis	2020	Tropical Animal Health and Production	52	5	2499	2504
374	Hussain M.I., Khalil R.M.A., Hussain F., Rana A.M., Imran M.	Ab-initio prediction of the mechanical, magnetic and thermoelectric behaviour of perovskite oxides XGaO_3 (X = Sc, Ti, Ag) using LDA+U functional: For optoelectronic devices	2020	Journal of Molecular Graphics and Modelling	99			
375	Tahir M., Naeem M.A., Shahid M., Khalid U., Farooq A.B.U., Ahmad N., Ahmad I., Arshad M., Waqar A.	Inoculation of pqqE gene inhabiting <i>Pantoea</i> and <i>Pseudomonas</i> strains improves the growth and grain yield of wheat with a reduced amount of chemical fertilizer	2020	Journal of Applied Microbiology	129	3	575	589
376	Iqbal S., Jones D.L., Arif M.S., Yasmeen T., Xu J., Khan S., Nadir S.	Suppression of amino acid and oligopeptide mineralization by organic manure addition in a semiarid environment	2020	Land Degradation and Development	31	15	1915	1925
377	Rafiq K., Akram M.S., Shahid M., Qaisar U., Rashid N.	Enhancement of salt tolerance in maize (<i>Zea mays</i> L.) using locally isolated <i>Bacillus</i> sp. SR-2-1/1	2020	Biologia	75	9	1425	1436

378	Farooque A.A., Zare M., Abbas F., Bos M., Esau T., Zaman Q.	Forecasting potato tuber yield using a soil electromagnetic induction method	2020	European Journal of Soil Science	71	5	880	897
379	Zahid F.M., Faisal S., Heumann C.	Variable selection techniques after multiple imputation in high-dimensional data	2020	Statistical Methods and Applications	29	3	553	580
380	Huma R., Mahmud T., Idrees N., Saif M.J., Munir R., Akbar N.	Crystal Structure and Quantum Chemical Studies of a Novel Pushâ€Pull Enaminone: 3-Chloro-4-((4-bromophenyl)amino)pent-3-en-2-one	2020	Journal of Chemical Crystallography	50	3	187	197
381	Aslam M., Raza M.A., Jun C.-H.	A new variable control chart under generalized multiple dependent state sampling	2020	Communications in Statistics: Simulation and Computation	49	9	2321	2332
382	Shafique I., Kalyar M.N., Rani T.	Examining the impact of ethical leadership on safety and task performance: a safety-critical context	2020	Leadership and Organization Development Journal	41	7	909	926
383	Saleem U., Zubair S., Riaz A., Anwar F., Ahmad B.	Effect of venlafaxine, pramipexole, and valsartan on spermatogenesis in male rats	2020	ACS Omega	5	32	20481	20490

384	Noman A., Aqeel M., Irshad M.K., Qari S.H., Hashem M., Alamri S., AbdulMajeed A.M., Al- Sadi A.M.	Elicitins as molecular weapons against pathogens: consolidated biotechnological strategy for enhancing plant growth	2020	Critical Reviews in Biotechnology	40	6	821	832
385	Rehman U., Jacob J., Mahmood K., Ali A., Ashfaq A., Basit M., Amin N., Ikram S., Hussain S., Noor H., Ahmad A.U., Rehman N.U.	Improving the thermoelectric performance of hydrothermally synthesized FeS ₂ nanoparticles by post sulfurization	2020	Ceramics International	46	12	20496	20499
386	Sarwar S., Waheed R., Sarwar S., Khan A.	COVID-19 challenges to Pakistan: Is GIS analysis useful to draw solutions?	2020	Science of the Total Environment	730			
387	Bari A., Khan Z.A., Shahzad S.A., Raza Naqvi S.A., Khan S.A., Amjad H., Iqbal A., Yar M.	Design and syntheses of 7-nitro-2-aryl-4H- benzo[d][1,3]oxazin-4-ones as potent anticancer and antioxidant agents	2020	Journal of Molecular Structure	1214			
388	Gulzar M.A., Abid M., Nazir H.Z., Zahid F.M., Riaz M.	On enhanced estimation of population variance using unconventional measures of an auxiliary variable	2020	Journal of Statistical Computation and Simulation	90	12	2180	2197

389	Manan M., Saleem U., Hamid Akash M.S., Qasim M., Hayat M., Raza Z., Ahmad B.	Antiarthritic potential of comprehensively standardized extract of alternanthera bettzickiana: In vitro and in vivo studies	2020	ACS Omega	5	31	19478	19496
390	Aslam B., Rasool M., Idris A., Muzammil S., Alvi R.F., Khurshid M., Rasool M.H., Zhang D., Ma Z., Baloch Z.	CRISPR-Cas system: A potential alternative tool to cope antibiotic resistance	2020	Antimicrobial Resistance and Infection Control	9	1		
391	Rasool N., Ikram H.M., Rashid A., Afzal N., Hashmi M.A., Khan M.N., Khan A., Imran I., Rahman H.M.A., Shah S.A.A.	Design, synthesis, and spasmolytic activity of thiophene- based derivatives via Suzuki cross-coupling reaction of 5- bromothiophene-2-carboxylic acid: Their structural and computational studies	2020	Turkish Journal of Chemistry	44	5	1410	1422
392	Khan M., Khan W.	Socioeconomic and recharge effect on spatial changes in the groundwater chemistry of Punjab, Pakistan: a multivariate statistical approach	2020	SN Applied Sciences	2	8		
393	Shahbaz M., Ammar M., Korai R.M., Ahmad N., Ali A., Khalid M.S., Zou D., Li X.J.	Impact of C/N ratios and organic loading rates of paper, cardboard and tissue wastes in batch and CSTR anaerobic digestion with food waste on their biogas production and digester stability	2020	SN Applied Sciences	2	8		

394	Nadeem A.M., Rafique M.Z., Bakhsh K., Makhdum M.S.A., Huang S.	Impact of socio-economic and water access conditions on life satisfaction of rural farmers in Faisalabad district of Pakistan	2020	Water Policy	22	4	686	701
395	Ghafoor S., Mansha A., Asim S., Usman M., Zahoor A.F., Ali H.S.	The structural, spectral, frontier molecular orbital and thermodynamic analysis of 2-hydroxy 2-methyl propiophenone by MP2 and B3LYP methods	2020	Journal of Theoretical and Computational Chemistry	19	5		
396	Tahir S.H., Akram S., Perveen S., Ahmad G., Ullah M.R.	Entrenchment effect and audit quality in family business of Pakistan	2020	Journal of Asian Finance, Economics and Business	7	8	95	102
397	Tahir S.H., Abu Bakar Sadique M.A., Syed N., Rehman F., Ullah M.R.	Mediating role of liquidity policy on the corporate governance-performance link: Evidence from Pakistan	2020	Journal of Asian Finance, Economics and Business	7	8	15	23
398	Zaheer I.E., Ali S., Saleem M.H., Noor I., El-Esawi M.A., Hayat K., Rizwan M., Abbas Z., El-Sheikh M.A., Alyemeni M.N., Wijaya L.	Iron-lysine mediated alleviation of chromium toxicity in Spinach (<i>Spinacia oleracea</i> L.) plants in relation to morpho-physiological traits and iron uptake when irrigated with tannery wastewater	2020	Sustainability (Switzerland)	12	16		
399	Khadimallah M.A., Safeer M., Taj M., Ayed H., Hussain M., Bouzgarrou S.M., Mahmoud S.R., Ahmad M., Tounsi A.	The effects of the surrounding viscoelastic media on the buckling behavior of single microfilament within the cell: A mechanical model	2020	Advances in Concrete Construction	10	2	141	149

400	Naqvi S.A.A., Ul Hassan R.H., Wu W., Shah A.A., Makhdom M.S.A., Shah S.A.R.	Synergy between adaptations and resilience of livelihood from climate change vulnerability: A group-wise comparison of adapters and non-adapters	2020	PLoS ONE	15	45512		
401	Yaseen R., Aziz O., Saleem M.H., Riaz M., Zafar-ul-Hye M., Rehman M., Ali S., Rizwan M., Alyemeni M.N., El-Serehy H.A., Al-Misned F.A., Ahmad P.	Ameliorating the drought stress for wheat growth through application of ACC-deaminase containing rhizobacteria along with biogas slurry	2020	Sustainability (Switzerland)	12	15		
402	Hussain S., Khan S., Noor K.I., Raza M.	Coefficient inequalities related with typically real functions	2020	Mathematica Slovaca	70	4	829	838
403	Mahmud F., Lee P., Wahab H., Mustaffa K.F., Leow C., Rasul A., Lai N.S.	ATP gatekeeper of Plasmodium protein kinase may provide the opportunity to develop selective antimalarial drugs with multiple targets	2020	Asian Pacific Journal of Tropical Medicine	13	8	350	357
404	Nazeer U., Rasool N., Mujahid A., Mansha A., Zubair M., Kosar N., Mahmood T., Shah A.R., Shah S.A.A., Zakaria Z.A., Akhtar M.N.	Selective Arylation of 2-Bromo-4-chlorophenyl-2-bromobutanoate via a Pd-catalyzed suzuki cross-coupling reaction and its electronic and non-linear optical (NLO) properties via DFT studies	2020	Molecules	25	15		

405	Kausar S., Altaf A.A., Hamayun M., Rasool N., Hadait M., Akhtar A., Muhammad S., Badshah A., Shah S.A.A., Zakaria Z.A.	i-propylammonium lead chloride based perovskite photocatalysts for depolymerization of lignin under UV light	2020	Molecules	25	15		
406	Iqbal S.Z., Usman S., Razis A.F.A., Ali N.B., Saif T., Asi M.R.	Assessment of deoxynivalenol in wheat, corn and its products and estimation of dietary intake	2020	International Journal of Environmental Research and Public Health	17	15	1	10
407	Ullah Z., Ali S., Muhammad N., Khan N., Rizwan M., Khan M.D., Khan N., Khattak B., Alhaithloul H.A.S., Soliman M.H., Ullah H., Begum D., Ali N., Hashmatullah	Biochar impact on microbial population and elemental composition of red soil	2020	Arabian Journal of Geosciences	13	16		
408	Faheem M., Shabbir S., Zhao J., Kerr P.G., Ali S., Sultana N., Jia Z.	Multifunctional periphytic biofilms: Polyethylene degradation and Cd ²⁺ and Pb ²⁺ bioremediation under high methane scenario	2020	International Journal of Molecular Sciences	21	15	1	21

409	Zeb A., Ayesha R., Gilani S.A., Shahbaz M., Imran A., El-Ghorab A., El-Massry K.F., Suleman R., Gondal T.A., Asif M., Ahmed S., Afzal M.I., Sultan M.T., Ahmad N., Imran M.	Safety assessment of foods at capital hospital of pakistan through the hazard analysis and critical control point system	2020	Journal of Food Protection	83	8	1387	1395
410	Hussain R., Hassan F., Khan M.U., Mehboob M.Y., Fatima R., Khalid M., Mahmood K., Tariq C.J., Akhtar M.N.	Molecular engineering of Aâ€“Dâ€“Câ€“Dâ€“A configured small molecular acceptors (SMAs) with promising photovoltaic properties for high-efficiency fullerene-free organic solar cells	2020	Optical and Quantum Electronics	52	8		
411	Keuper F., Wild B., Kumm M., Beer C., Blume-Werry G., Fontaine S., Gavazov K., Gentsch N., Guggenberger G., Hugelius G., Jalava M., Koven C., Krab E.J., Kuhry P., Monteux S., Richter A., Shahzad T., Weedon J.T., Dorrepaal E.	Carbon loss from northern circumpolar permafrost soils amplified by rhizosphere priming	2020	Nature Geoscience	13	8	560	565
412	Iqbal S.Z., Rehman B., Selamat J., Akram N., Ahmad M.N., Sanny M.,	Assessment of fumonisin B1 concentrations in wheat and barley products in the Punjab Region of Pakistan	2020	Journal of Food Protection	83	8	1284	1288

	Sukor R., Samsudin N.I.							
413	Maqbool Z., Shahid M., Azeem F., Shahzad T., Mahmood F., Rehman M., Ahmed T., Imran M., Hussain S.	Application of a Dye-Decolorizing Pseudomonas aeruginosa Strain ZM130 for Remediation of Textile Wastewaters in Aerobic/Anaerobic Sequential Batch Bioreactor and Soil Columns	2020	Water, Air, and Soil Pollution	231	8		
414	He Y., Majid K., Maqbool M., Hussain T., Yousaf A.M., Khan I.U., Mehmood Y., Aleem A., Arshad M.S., Younus A., Nirwan J.S., Ghorri M.U., Rizvi S.A.A., Shahzad Y.	Formulation and characterization of lornoxicam-loaded cellulosic-microsponge gel for possible applications in arthritis	2020	Saudi Pharmaceutical Journal	28	8	994	1003
415	Mei X., Li Q., Wang H., Fang H., Chen H., Chen X., Yang Y., Rizwan M., Ye Z.	Effects of cultivars, water regimes, and growth stages on cadmium accumulation in rice with different radial oxygen loss	2020	Plant and Soil	453	45293	529	543
416	Razzaq A., Ahmad Malik S., Saeed F., Imran A., Rasul A., Qasim M., Zafar S., Kamran S.K.S., Maqbool J., Imran M., Hussain G., Hussain M.	Moringa oleifera Lam.ameliorates the muscles function recovery following an induced insult to the Sciatic nerve in a mouse model	2020	Food Science and Nutrition	8	8	4009	4016

417	Hanif M.U., Hussain A.I., Aslam N., Kamal G.M., Chatha S.A.S., Shahida S., Khalid M., Hussain R.	Chemical Composition and Bioactivities of Essential Oil from Leaves of Syzygium cumini (L.) Skeels Native to Punjab, Pakistan	2020	Chemistry and Biodiversity	17	8		
418	Ikram S., Jacob J., Mehboob K., Mahmood K., Ashfaq A., Ali A., Amin N., Hussain S., Rehman U.	A novel approach to simultaneously enhance the Seebeck coefficient and electrical conductivity in rutile phase of TiO ₂ nanostructures	2020	Arabian Journal of Chemistry	13	8	6724	6729
419	Khalid H., Ashfaq U.A.	Exploring HCV genome to construct multi-epitope based subunit vaccine to battle HCV infection: Immunoinformatics based approach	2020	Journal of Biomedical Informatics	108			
420	Rahaman A., Zeng X.-A., Farooq M.A., Kumari A., Murtaza M.A., Ahmad N., Manzoor M.F., Hassan S., Ahmad Z., Bo-Ru C., Jinjing Z., Siddeeg A.	Effect of pulsed electric fields processing on physiochemical properties and bioactive compounds of apricot juice	2020	Journal of Food Process Engineering	43	8		

421	Shahzad M.M., Hussain S.M., Hussain M., Tariq M., Ahmed N., Furqan M., Khalid F., Rafique T.	Improvement in overall performance of Catla catla fingerlings fed phytase included low cost plant by products-based diet	2020	Saudi Journal of Biological Sciences	27	8	2089	2096
422	Ali S., Noreen S., Shakoor M.B., Haroon M.Y., Rizwan M., Jilani A., Arif M.S., Khalil U.	Comparative evaluation of wheat straw and press mud biochars for Cr(VI) elimination from contaminated aqueous solution	2020	Environmental Technology and Innovation	19			
423	Rehman M.Z.U., Batool Z., Ayub M.A., Hussaini K.M., Murtaza G., Usman M., Naeem A., Khalid H., Rizwan M., Ali S.	Effect of acidified biochar on bioaccumulation of cadmium (Cd) and rice growth in contaminated soil	2020	Environmental Technology and Innovation	19			
424	Munawar T., Mukhtar F., Nadeem M.S., Mahmood K., Hussain A., Ali A., Arshad M.I., Ajaz un Nabi M., Iqbal F.	Structural, optical, electrical, and morphological studies of rGO anchored direct dual-Z-scheme ZnO-Sm ₂ O ₃ heterostructured nanocomposite: An efficient photocatalyst under sunlight	2020	Solid State Sciences	106			
425	Ul Islam B., Mukhtar A., Saqib S., Mahmood A., Rafiq S., Hameed A., Khan M.S., Hamid K., Ullah S., Al-Sehemi A.G.,	Thermal Conductivity of Multiwalled Carbon Nanotubes-Kapok Seed Oil-Based Nanofluid	2020	Chemical Engineering and Technology	43	8	1638	1647

	Ibrahim M.							
426	Sial N., Rasool N., Rizwan K., Altaf A.A., Ali S., Malik A., Zubair M., Akhtar A., Kausar S., Shah S.A.A.	Efficient synthesis of 2,3-diarylbenzo[b]thiophene molecules through palladium (0) Suzuki–Miyaura cross-coupling reaction and their antithrombolytic, biofilm inhibition, hemolytic potential and molecular docking studies	2020	Medicinal Chemistry Research	29	8	1486	1496
427	Rauf A., Shariati M.A., Khalil A.A., Bawazeer S., Heydari M., Plygun S., Laishevtcev A., Hussain M.B., Alhumaydhi F.A., Aljohani A.S.M.	Hepcidin, an overview of biochemical and clinical properties	2020	Steroids	160			
428	Iqbal Z., Abbas F., Ibrahim M., Qureshi T.I., Gul M., Mahmood A.	Human health risk assessment of heavy metals in raw milk of buffalo feeding at wastewater-irrigated agricultural farms in Pakistan	2020	Environmental Science and Pollution Research	27	23	29567	29579
429	Shahzad F., Xiu G., Shafique Khan M.A., Shahbaz M.	Predicting the adoption of a mobile government security response system from the user's perspective: An application of the artificial neural network approach	2020	Technology in Society	62			

430	Rana M.S., Sun X., Imran M., Ali S., Shaaban M., Moussa M.G., Khan Z., Afzal J., Binyamin R., Bhantana P., Alam M., Din I.U., Younas M., Hu C.	Molybdenum-induced effects on leaf ultra-structure and rhizosphere phosphorus transformation in <i>Triticum aestivum</i> L	2020	Plant Physiology and Biochemistry	153		20	29
431	Younis S., Shaheen S., Zaib M., Harun N., Khalid S., Hussain K., Hanif U., Khan F.	Scanning electron microscopic screening of 20 medicinally important Asteroideae taxa	2020	Microscopy Research and Technique	83	8	988	1006
432	Saleem M.H., Ali S., Rehman M., Rizwan M., Kamran M., Mohamed I.A.A., Khan Z., Bamagoos A.A., Alharby H.F., Hakeem K.R., Liu L.	Individual and combined application of EDTA and citric acid assisted phytoextraction of copper using jute (<i>Corchorus capsularis</i> L.) seedlings	2020	Environmental Technology and Innovation	19			
433	Chishti M.Z., Ullah S., Ozturk I., Usman A.	Examining the asymmetric effects of globalization and tourism on pollution emissions in South Asia	2020	Environmental Science and Pollution Research	27	22	27721	27737

434	Zeb M.A., Murtaza G., Hussain M.A., Kubra K.T., Muvhiwa R., De Kock L.-A., Hassard F.	A comprehensive adsorption study of 1-Hydroxy-2-Naphthoic acid using cost effective engineered materials	2020	Environmental Technology and Innovation	19			
435	Noman A., Aqeel M., Qari S.H., Al Surhanee A.A., Yasin G., Alamri S., Hashem M., M Al-Saadi A.	Plant hypersensitive response vs pathogen ingresson: Death of few gives life to others	2020	Microbial Pathogenesis	145			
436	Hussain M., Muneer M., Abbas G., Shakir I., Iqbal A., Javed M.A., Iqbal M., Zohaib-Ur-Rehman, Raza R.	Cobalt free $\text{La}_{0.54}\text{Sr}_{0.46}\text{Fe}_{1-y}\text{Cu}_y\text{O}_{3-\delta}$ ($x= 0.54, 0.8, y = 0.2, 0.4$) perovskite structured cathode for SOFC	2020	Ceramics International	46	11	18208	18215
437	Munir H., Srivastava R.R., Kim H., Ilyas S., Khosa M.K., Yameen B.	Leaching of exhausted LNCM cathode batteries in ascorbic acid lixiviant: a green recycling approach, reaction kinetics and process mechanism	2020	Journal of Chemical Technology and Biotechnology	95	8	2286	2294
438	Haq M.E.U., Akash M.S.H., Rehman K., Mahmood M.H.	Chronic exposure of bisphenol A impairs carbohydrate and lipid metabolism by altering corresponding enzymatic and metabolic pathways	2020	Environmental Toxicology and Pharmacology	78			

439	Qasim M., Sajid Kamran M., Ammar M., Ali Jamal M., Yasar Javaid M.	Heat Transfer Enhancement of an Automobile Engine Radiator using ZnO Water Base Nanofluids	2020	Journal of Thermal Science	29	4	1010	1024
440	Afzal G., Mustafa G., Mushtaq S., Jamil A.	DNA barcodes of southeast asian spiders of wheat agro-ecosystem	2020	Pakistan Journal of Zoology	52	4	1433	1441
441	Asif M., Mahrukh, Saadullah M., Yaseen H.S., Saleem M., Yousaf H.M., Khan I.U., Yaseen M., Shams M.U.	Evaluation of in vivo anti-inflammatory and anti-angiogenic attributes of methanolic extract of Launaea spinosa	2020	Inflammopharmacology	28	4	993	1008
442	Raza Z., Saleem U., Naureen Z.	Sphingosine 1-phosphate signaling in ischemia and reperfusion injury	2020	Prostaglandins and Other Lipid Mediators	149			
443	Uddin M.S., Kabir M.T., Rahman M.M., Mathew B., Shah M.A., Ashraf G.M.	TV 3326 for Alzheimer's dementia: a novel multimodal ChE and MAO inhibitors to mitigate Alzheimer's-like neuropathology	2020	Journal of Pharmacy and Pharmacology	72	8	1001	1012

444	Zulfiqar M., Hussain K.	CEO COMPENSATION and FIRM INNOVATION: MODERATING ROLE of OWNERSHIP CONCENTRATION	2020	International Journal of Innovation Management	24	6		
445	Yousaf M., Zahoor A.F., Akhtar R., Ahmad M., Naheed S.	Development of green methodologies for Heck, Chanâ€Lam, Stille and Suzuki cross-coupling reactions	2020	Molecular Diversity	24	3	821	839
446	Bashir N., Akhtar M., Nawaz H.Z.R., Warsi M.F., Shakir I., Agboola P.O., Zulfiqar S.	A High Performance Electrochemical Sensor for Pb ²⁺ Ions Based on Carbon Nanotubes Functionalized CoMn ₂ O ₄ Nanocomposite	2020	ChemistrySelect	5	26	7909	7918
447	Zulfiqar M., Hussain K., Yousaf M.U., Sohail N., Ghafoor S.	Moderating role of CEO compensation in lean innovation strategies of Chinese listed family firms	2020	Corporate Governance (Bingley)	20	5	887	902
448	Munawar T., Yasmeen S., Hussain F., Mahmood K., Hussain A., Asghar M., Iqbal F.	Synthesis of novel heterostructured ZnO-CdO-CuO nanocomposite: Characterization and enhanced sunlight driven photocatalytic activity	2020	Materials Chemistry and Physics	249			

449	Uddin M.S., Hossain M.F., Mamun A.A., Shah M.A., Hasana S., Bulbul I.J., Sarwar M.S., Mansouri R.A., Ashraf G.M., Rauf A., Abdel-Daim M.M., Bin-Jumah M.N.	Exploring the multimodal role of phytochemicals in the modulation of cellular signaling pathways to combat age-related neurodegeneration	2020	Science of the Total Environment	725			
450	Abrar M., Shabbir R., Bashir M., Saqib S., Raza A.	Role of Professional Service Quality and Communication Effectiveness in Predicting Relationship Commitment among Professional-Client in Lawyer Services	2020	International Review of Management and Marketing	10	4	89	95
451	Bilal Ahmed Siddique M., Hussain R., Ali Siddique S., Yasir Mehboob M., Irshad Z., Iqbal J., Adnan M.	Designing Triphenylamine-Configured Donor Materials with Promising Photovoltaic Properties for Highly Efficient Organic Solar Cells	2020	ChemistrySelect	5	25	7358	7369
452	Shah S., Abbas G., Riaz N., Anees ur Rehman, Hanif M., Rasool M.F.	Burden of communicable diseases and cost of illness: Asia pacific region	2020	Expert Review of Pharmacoeconomics and Outcomes Research	20	4	343	354
453	Wei F., Shahid M.J., Alnusairi G.S.H., Afzal M., Khan A., El-Esawi M.A., Abbas Z., Wei K., Zaheer I.E., Rizwan M., Ali S.	Implementation of floating treatment wetlands for textile wastewater management: A review	2020	Sustainability (Switzerland)	12	14	1	29

454	Ahmad R., Ishaque W., Khan M., Ashraf U., Riaz M.A., Ghulam S., Ahmad A., Rizwan M., Ali S., Alkahtani S., Abdel-Daim M.M.	Relief role of lysine chelated zinc (Zn) on 6-week-old maize plants under tannery wastewater irrigation stress	2020	International Journal of Environmental Research and Public Health	17	14	1	18
455	Shahzad F., Du J., Khan I., Fateh A., Shahbaz M., Abbas A., Wattoo M.U.	Perceived threat of covid-19 contagion and frontline paramedicsâ€™ agonistic behaviour: Employing a stressorâ€™strainâ€™outcome perspective	2020	International Journal of Environmental Research and Public Health	17	14	1	22
456	Khaliq A., Ali Shah S.M., Akram M., Munir N., Daniyal M., Irshad M., Ahmad S.	Determination of oil contents from eight varieties of olea europaea (Olive) grown in Pakistan	2020	Natural Product Research	34	13	1951	1955
457	Ahmad T., Gilmour S.G., Muhammad Arshad H.	Comparisons of augmented pairs designs and subset designs	2020	Communications in Statistics: Simulation and Computation	49	7	1898	1921
458	Arshad H.M., Ahmad T., Akhtar M.	Some sequential third order response surface designs	2020	Communications in Statistics: Simulation and Computation	49	7	1872	1885

459	Bilal M., Jianqiu Z., Akram U., Tanveer Y., Sardar T., Rasool H.	Understanding the effects of internet usage behavior on ewom	2020	International Journal of Information Systems in the Service Sector	12	3	93	113
460	Naz F., Abid M., Nawaz T., Pang T.	Enhancing efficiency of ratio-type estimators of population variance by a combination of information on robust location measures	2020	Scientia Iranica	27	4	2040	2056
461	Kanjil M.I., Muneer M., Bhatti I.A., Saeed M., Atta-Ul-haq, Den N.Z.U., Haq E.U., Nisar J., Iqbal M.	Gamma and UV radiation induced degradation of methotrexate (Anti-rheumatic drug) in aqueous solution and conditions optimization	2020	Desalination and Water Treatment	191		332	341
462	Hussain Z., Tahir S., Mahmood K., Ali A., Arshad M.I., Ikram S., Ajaz Un Nabi M., Ashfaq A., Ur Rehman U., Uddassir Y.	SYNTHESIS AND CHARACTERIZATION OF SILVER NANOPARTICLES WITH EPOXY RESIN COMPOSITES	2020	Digest Journal of Nanomaterials and Biostructures	15	3	873	883
463	Munir R., Syed H.K., Asghar S., Iqbal M.S., Irfan M., Khan I.U., Shah P.A., Khalid I., Imran K., Saleem M.	Stability indicating RP-HPLC method of dexibuprofen in nanocream formulation: Identification and quantification	2020	Pakistan Journal of Pharmaceutical Sciences	33	4	1815	1821

464	Ahmed T., Shahid M., Noman M., Bilal Khan Niazi M., Zubair M., Almatroudi A., Khurshid M., Tariq F., Mumtaz R., Li B.	Bioprospecting a native silver-resistant <i>Bacillus safensis</i> strain for green synthesis and subsequent antibacterial and anticancer activities of silver nanoparticles	2020	Journal of Advanced Research	24		475	483
465	Asif R., Siddique M.H., Zakki S.A., Rasool M.H., Waseem M., Hayat S., Muzammil S.	<i>Saccharothrix Algeriensis</i> NRRL B-24137 Potentiates Chemical Fungicide Carbendazim in Treating <i>Fusarium Oxysporum</i> f.sp. Vasinfectum-Induced Cotton Wilt Disease	2020	Dose-Response	18	3		
466	Sabir S., Zahoor M.A., Waseem M., Siddique M.H., Shafique M., Imran M., Hayat S., Malik I.R., Muzammil S.	Biosynthesis of ZnO Nanoparticles Using <i>Bacillus Subtilis</i> : Characterization and Nutritive Significance for Promoting Plant Growth in <i>Zea mays</i> L	2020	Dose-Response	18	3		
467	Munir N., Mahmood Z., Yameen M., Mustafa G.	Therapeutic Response of <i>Epimedium gandiflorum</i> ™s Different Doses to Restore the Antioxidant Potential and Reproductive Hormones in Male Albino Rats	2020	Dose-Response	18	3		
468	Batool S.A., Arshad M.U., Ahmed R.S., Anjum F.M.	Characterization of different date varieties with special reference to their antioxidant potential and bioevaluation trial against hypercholesterolemia	2020	Pakistan Journal of Agricultural Sciences	57	4	1133	1140

469	Ahmad K., Imran M., Ahmad T., Ahmad M.H., Khan M.K.	Impact of ultrasound processing on physicochemical and bioactive attributes of grape based optimized fruit beverage	2020	Pakistan Journal of Agricultural Sciences	57	4	1117	1124
470	Imran M., Shahzad S.M., Arif M.S., Yasmeen T., Ali S., Ali B., Tanveer A., Ghani M.A., Nadeem M., Javed M.A.	Inoculation of potassium solubilizing bacteria with different potassium fertilization sources mediates maize growth and productivity	2020	Pakistan Journal of Agricultural Sciences	57	4	1045	1055
471	Nasir S., Sajid M., Zahid F.M., Anjum M.N., Khan N.A., Ashraf I., Saddiq B., Ahmad B., Bashir W., Mehmood S.	An appraisal of the effects of organophosphate on biochemical parameters of farmers	2020	Pakistan Journal of Agricultural Sciences	57	4	1189	1195
472	Ali S., Abbas Z., Seleiman M.F., Rizwan M., YavaÅŸ Ä°, Alhammad B.A., Shami A., Hasanuzzaman M., Kalderis D.	Glycine betaine accumulation, significance and interests for heavy metal tolerance in plants	2020	Plants	9	7	1	23

473	Rasheed R., Raza Naqi S., Saeed N., Rasheed S.	Proactive response of nuclear medicine department in current Coronavirus Disease-19 pandemic	2020	Indian Journal of Nuclear Medicine	35	3	278	280
474	Afzal M., Mazhar S.F., Sana S., Naeem M., Rasool M.H., Saqalein M., Nisar M.A., Rasool M., Bilal M., Khan A.A., Khurshid M.	Neurological and cognitive significance of probiotics: A holy grail deciding individual personality	2020	Future Microbiology	15	11	1059	1074
475	Ali L., Ahmad M., Aamir M.N., Minhas M.U., Shah H.H., Shah M.A.	Cross-linked pH-sensitive pectin and acrylic acid based hydrogels for controlled delivery of metformin	2020	Pakistan Journal of Pharmaceutical Sciences	33	4	1483	1491
476	Qadir M.I., Rasul A., Akash M.S.H., Irfan M., Ibrahim M.R., Hussain S.B.	Importance of vitamin D in cancer management	2020	Pakistan Journal of Pharmaceutical Sciences	33	4	1711	1718

477	Awan A.B., Alghassab M., Zubair M., Bhatti A.R., Uzair M., Abbas G.	Comparative analysis of ground-mounted vs. rooftop photovoltaic systems optimized for interrow distance between parallel arrays	2020	Energies	13	14		
478	Ummar R., Saleem S.	Thematic Ideation: A Superior Supplementary Concept in Creativity and Innovation	2020	SAGE Open	10	3		
479	Asad F., Qamer S., Ashraf A., Rafique A., Shaheen Z., Nisar A., Javaid S.	Apparent nutrient digestibility of carbohydrate (Corn) in cirrhinus mrigala under the influence of chromium chloride hexahydrate [Digestibilidade aparente de nutrientes oriundos de carboidratos (Milho) em cirrhinus mrigala sob a influência do cloreto de cromo hexa-hidratado]	2020	Brazilian Journal of Biology	80	3	518	522
480	Anwar T., Qureshi H., Parveen N., Bashir R., Qaisar U., Munazir M., Yasmin S., Basit Z., Mahmood R.T., Nayyar B.G., Khan S., Khan S.A., Qureshi M.M., Wali M.	Evaluation of bioherbicidal potential of carica papaya leaves [Avaliação do potencial de bioherbicida das folhas de carica papaya]	2020	Brazilian Journal of Biology	80	3	565	573
481	Ayesha R., Rasheed A., Zubia K., Iqra N., Sarfraz M., Jamil M.	Dynamic charging effect on electromagnetic wave in low β^2 plasmas	2020	Astrophysics and Space Science	365	7		

482	Shahid M.J., AL-surhanee A.A., Kouadri F., Ali S., Nawaz N., Afzal M., Rizwan M., Ali B., Soliman M.H.	Role of microorganisms in the remediation of wastewater in floating treatmentwetlands: A review	2020	Sustainability (Switzerland)	12	14		
483	Shahzad N., Munir T., Javed M., Tasneem F., Aslam B., Ali M., Mutahir Z., Ali M.A., Umer M., Ahmad M., Farooq K., Hassan U., Mustafa T., Anjum R.S., Shakoori A.R.	SHISA3, an antagonist of the Wnt/ β^2 -catenin signaling, is epigenetically silenced and its ectopic expression suppresses growth in breast cancer	2020	PLOs ONE	15	7		
484	Aslam B., Chaudhry T.H., Arshad M.I., Alvi R.F., Shahzad N., Yasmeen N., Idris A., Rasool M.H., Khurshid M., Ma Z., Call D.R., Baloch Z.	The First blaKPCHarboring Klebsiella pneumoniae ST258 Strain Isolated in Pakistan	2020	Microbial Drug Resistance	26	7	783	786
485	Shah S.M.A., Naqvi S.A.R., Munir N., Zafar S., Akram M., Nisar J.	Antihypertensive and Antihyperlipidemic Activity of Aqueous Methanolic Extract of Rauwolfia Serpentina in Albino Rats	2020	Dose-Response	18	3		

486	Bashir M., Syed H.K., Asghar S., Irfan M., Almalki W.H., Menshawi S.A., Khan I.U., Shah P.A., Khalid I., Ahmad J., Gohar U.F., Peh K.K., Iqbal M.S.	Effect of hydrophilic polymers on complexation efficiency of cyclodextrins in enhancing solubility and release of diflunisal	2020	Polymers	12	7		
487	Zafar M.U., Ping Q., Tang Y., Zafar M.U., Khan S.	Consumers' perceptions and knowledge about health benefits of functional foods. A study of Punjab province, Pakistan	2020	Pakistan Journal of Agricultural Sciences	57	4	939	948
488	Abbas Khan, Rehmat U., Shah L.A., Usman M.	Effect of Experimental Variables on the Physicochemical Characteristics of Multi-Responsive Cellulose Based Polymer Microgels	2020	Russian Journal of Physical Chemistry A	94	7	1503	1514
489	Awan S.A., Ilyas N., Khan I., Raza M.A., Rehman A.U., Rizwan M., Rastogi A., Tariq R., Brestic M.	Bacillus siamensis reduces cadmium accumulation and improves growth and antioxidant defense system in two wheat (Triticum aestivum L.) varieties	2020	Plants	9	7	1	14
490	Baig M.M.F.A., Lai W.-F., Akhtar M.F., Saleem A., Ahmed S.A., Xia X.-H.	DNA nanotechnology as a tool to develop molecular tension probes for bio-sensing and bio-imaging applications: An up-to-date review	2020	Nano-Structures and Nano-Objects	23			

491	Maheen S., Rasul A., Hanif M., Khan H.U.	Lipospheres for Simultaneous Controlled Release and Improved Pharmacokinetic Profiles of Saxagliptin-Enalapril: Formulation, Optimization, and Comparative In Vitro-In Vivo Evaluation	2020	AAPS PharmSciTech	21	5		
492	Zohaib A., Zohaib A., Zhang J., Saqib M., Athar M.A., Hussain M.H., Chen J., Sial A.-U.-R., Sial A.-U.-R., Tayyab M.H., Batool M., Khan S., Luo Y., Waruhiu C., Taj Z., Taj Z., Hayder Z., Ahmed R., Siddique A.B., Yang X., Qureshi M.A., Ujjan I.U., Lail A., Khan I., Sajjad-Ur-Rahman, Zhang T., Deng F., Deng F., Shi Z., Shen S., Shen S., Shen S.	DISPATCHES Serologic Evidence of Severe Fever with Thrombocytopenia Syndrome Virus and Related Viruses in Pakistan	2020	Emerging Infectious Diseases	26	7	1513	1516
493	Ijaz M., Ahmad H.R., Bibi S., Ayub M.A., Khalid S.	Soil salinity detection and monitoring using Landsat data: a case study from Kot Addu, Pakistan	2020	Arabian Journal of Geosciences	13	13		

494	Shahzad S.A., Sarfraz A., Yar M., Khan Z.A., Naqvi S.A.R., Naz S., Khan N.A., Farooq U., Batool R., Ali M.	Synthesis, evaluation of thymidine phosphorylase and angiogenic inhibitory potential of ciprofloxacin analogues: Repositioning of ciprofloxacin from antibiotic to future anticancer drugs	2020	Bioorganic Chemistry	100			
495	Niaz N.A., Shakoor A., Imran M., Khalid N.R., Hussain F., Kanwal H., Maqsood M., Afzal S.	Enhanced electrochemical performance of MoS ₂ /PPy nanocomposite as electrodes material for supercapacitor applications	2020	Journal of Materials Science: Materials in Electronics	31	14	11336	11344
496	Yaqoob Z., Arshad M.S., Khan M.K., Imran M., Ahmad M.H., Ahmad S., Nisa M.U., Anjum F.M., Khan U., Khalid W., Suleria H.A.R.	Ultrasound-assisted extraction of guava and papaya leaves for the development of functional shrimp patties	2020	Food Science and Nutrition	8	7	3923	3935
497	Saqlain M., Munir M.M., Rehman S.U., Gulzar A., Naz S., Ahmed Z., Tahir A.H., Mashhood M.	Knowledge, attitude, practice and perceived barriers among healthcare workers regarding COVID-19: a cross-sectional survey from Pakistan	2020	Journal of Hospital Infection	105	3	419	423
498	Lok B., Sandai D., Baharetha H.M., Nazari V.M., Asif M., Tan C.S., Majid A.M.S.A.	Anticancer effect of Psidium guajava (Guava) leaf extracts against colorectal cancer through inhibition of angiogenesis	2020	Asian Pacific Journal of Tropical Biomedicine	10	7	293	307

499	Haq M.E.U., Akash M.S.H., Sabir S., Mahmood M.H., Rehman K.	Human exposure to bisphenol A through dietary sources and development of diabetes mellitus: a cross-sectional study in Pakistani population	2020	Environmental Science and Pollution Research	27	21	26262	26275
500	Manzoor M.F., Zeng X.-A., Ahmad N., Ahmed Z., Rehman A., Aadil R.M., Roobab U., Siddique R., Rahaman A.	Effect of pulsed electric field and thermal treatments on the bioactive compounds, enzymes, microbial, and physical stability of almond milk during storage	2020	Journal of Food Processing and Preservation	44	7		
501	Khair K.U., Farid M., Ashraf U., Zubair M., Rizwan M., Farid S., Ishaq H.K., Iftikhar U., Ali S.	Citric acid enhanced phytoextraction of nickel (Ni) and alleviate Mentha piperita (L.) from Ni-induced physiological and biochemical damages	2020	Environmental Science and Pollution Research	27	21	27010	27022
502	Asghar Jamal M., Naseem B., Naz S., Arif I., Saeed M., Atiq S.	Thermo-acoustic properties of maltose in aqueous amino acids system	2020	Journal of Molecular Liquids	309			
503	Zainab N., Amna, Din B.U., Javed M.T., Afridi M.S., Mukhtar T., Kamran M.A., Qurat ul ain, Khan A.A., Ali J., Jatoi W.N., Hussain Munis M.F., Chaudhary	Deciphering metal toxicity responses of flax (Linum usitatissimum L.) with exopolysaccharide and ACC-deaminase producing bacteria in industrially contaminated soils	2020	Plant Physiology and Biochemistry	152		90	99

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504	Ali A., Aadil M., Rasheed A., Hameed I., Ajmal S., Shakir I., Warsi M.F.	Honeycomb like architectures of the Mo doped ZnS@Ni for high-performance asymmetric supercapacitors applications	2020	Synthetic Metals	265			
505	Naqvi S.A.A., Shah S.A.R., Abbas N.	Nexus between urbanization, emission, openness, and energy intensity: panel study across income groups	2020	Environmental Science and Pollution Research	27	19	24253	24271
506	Shehzad R.A., Iqbal J., Khan M.U., Hussain R., Javed H.M.A., Rehman A.U., Alvi M.U., Khalid M.	Designing of benzothiazole based non-fullerene acceptor (NFA) molecules for highly efficient organic solar cells	2020	Computational and Theoretical Chemistry	1181			
507	Bashir A., Rizwan M., Ali S., Adrees M., Rehman M.Z., Qayyum M.F.	Effect of composted organic amendments and zinc oxide nanoparticles on growth and cadmium accumulation by wheat; a life cycle study	2020	Environmental Science and Pollution Research	27	19	23926	23936
508	Iqbal A., Jacob J., Mahmood A., Mehboob K., Mahmood K., Ali A., Bukhari T.H., Adrees M., Ibrahim M., Ahmad M.	Synthesis and characterization of Zn ²⁺ /Mn ²⁺ /Fe nano oxide composites for the degradation of reactive yellow 15 dye	2020	Physica B: Condensed Matter	588			

509	Afzal T., Iqbal M.J., Iqbal M.Z., Sajjad A., Raza M.A., Riaz S., Kamran M.A., Numan A., Naseem S.	Effect of post-deposition annealing temperature on the charge carrier mobility and morphology of DPPDTT based organic field effect transistors	2020	Chemical Physics Letters	750			
510	Abbas Z., Nazir H.Z., Akhtar N., Riaz M., Abid M.	On designing a progressive mean chart for efficient monitoring of process location	2020	Quality and Reliability Engineering International	36	5	1716	1730
511	Shahzadi I., Zahoor A.F., Rasul A., Rasool N., Raza Z., Faisal S., Parveen B., Kamal S., Zia-ur-Rehman M., Zahid F.M.	Synthesis, anticancer, and computational studies of 1, 3, 4-oxadiazole-purine derivatives	2020	Journal of Heterocyclic Chemistry	57	7	2782	2794
512	Ikram S., Jacob J., Mahmood K., Mehboob K., Maheen M., Ali A., Amin N., Hussain S., Ashraf F., Ilyas S.Z.	A Kinetic study of Tb ³⁺ and Dy ³⁺ co-substituted CoFe ₂ O ₄ spinel ferrites using temperature dependent XRD, XPS and SQUID measurements	2020	Ceramics International	46	10	15943	15948
513	Jacob J., Rehman U., Mahmood K., Ali A., Mehboob K., Ashfaq A., Ikram S., Amin N., Hussain S., Ashraf F.	Improved thermoelectric performance of Al and Sn doped ZnO nano particles by the engineering of secondary phases	2020	Ceramics International	46	10	15013	15017

514	Li C.-Z., Sun H., Gao Q., Bian F.-Y., Noman A., Xiao W.-H., Zhou G.-X., Lou Y.-G.	Host plants alter their volatiles to help a solitary egg parasitoid distinguish habitats with parasitized hosts from those without	2020	Plant Cell and Environment	43	7	1740	1750
515	Akash M.S.H., Sabir S., Rehman K.	Bisphenol A-induced metabolic disorders: From exposure to mechanism of action	2020	Environmental Toxicology and Pharmacology	77			
516	Akram M., Riaz M., Munir N., Rasul A., Daniyal M., Ali Shah S.M., Shariati M.A., Shaheen G., Akhtar N., Parveen F., Akhter N., Owais Ghauri A., Chishti A.W., Usman Sarwar M., Said Khan F.	Progress and prospects in the management of bacterial infections and developments in Phytotherapeutic modalities	2020	Clinical and Experimental Pharmacology and Physiology	47	7	1107	1119
517	Hussain M.I., Khalil R.M.A., Hussain F., Imran M., Rana A.M., Kim S.	Investigations of structural, electronic and optical properties of YInO3 (Y = Rb, Cs, Fr) perovskite oxides using mBJ approximation for optoelectronic applications: A first principles study	2020	Materials Science in Semiconductor Processing	113			

518	Fatima A., Farid M., Alharby H.F., Bamagoos A.A., Rizwan M., Ali S.	Efficacy of fenugreek plant for ascorbic acid assisted phytoextraction of copper (Cu); A detailed study of Cu induced morpho-physiological and biochemical alterations	2020	Chemosphere	251			
519	Raza A., Lin W., Chen Y., Yanting Z., Chattha H.T., Sharif A.B.	Wideband tapered slot antenna for applications in ground penetrating radar	2020	Microwave and Optical Technology Letters	62	7	2562	2568
520	Nawaz T., Raza M.A., Han D.	Generalized multiple dependent state optimal control charts under ranked set sampling for monitoring process mean	2020	Quality and Reliability Engineering International	36	5	1494	1512
521	Farrukh M., Meng F., Sajid M., Shahzad I.	Does strategic fit matter in measuring organizational performance? An empirical analysis	2020	Corporate Social Responsibility and Environmental Management	27	4	1800	1808
522	Munawar T., Yasmeen S., Mukhtar F., Nadeem M.S., Mahmood K., Saqib Saif M., Hasan M., Ali A., Hussain F., Iqbal F.	Zn _{0.9} Ce _{0.05} M _{0.05} O (M = Er, Y, V) nanocrystals: Structural and energy bandgap engineering of ZnO for enhancing photocatalytic and antibacterial activity	2020	Ceramics International	46	10	14369	14383
523	Abid M., Shabbir A., Nazir H.Z., Sherwani R.A.K., Riaz M.	A double homogeneously weighted moving average control chart for monitoring of the process mean	2020	Quality and Reliability Engineering International	36	5	1513	1527

524	Seleiman M.F., Ali S., Refay Y., Rizwan M., Alhammad B.A., El-Hendawy S.E.	Chromium resistant microbes and melatonin reduced Cr uptake and toxicity, improved physio-biochemical traits and yield of wheat in contaminated soil	2020	Chemosphere	250			
525	Muneer F., Siddique M.H., Azeem F., Rasul I., Muzammil S., Zubair M., Afzal M., Nadeem H.	Microbial l-asparaginase: purification, characterization and applications	2020	Archives of Microbiology	202	5	967	981
526	Sarfraz I., Rasul A., Hussain G., Shah M.A., Zahoor A.F., Asrar M., Selamoglu Z., Ji X.-Y., Adem Åž., Sarker S.D.	6-Phosphogluconate dehydrogenase fuels multiple aspects of cancer cells: From cancer initiation to metastasis and chemoresistance	2020	BioFactors	46	4	550	562
527	Akash M.S.H., Rehman K., Fiayyaz F., Sabir S., Khurshid M.	Diabetes-associated infections: development of antimicrobial resistance and possible treatment strategies	2020	Archives of Microbiology	202	5	953	965
528	Saeed M., Siddique M., Ibrahim M., Akram N., Usman M., Aleem M.A., Baig A.	Calotropis gigantea leaves assisted biosynthesis of ZnO and Ag@ZnO catalysts for degradation of rhodamine B dye in aqueous medium	2020	Environmental Progress and Sustainable Energy	39	4		

529	Ayesha S., Hanif M.K., Talib R.	Overview and comparative study of dimensionality reduction techniques for high dimensional data	2020	Information Fusion	59		44	58
530	Amjed N., Bhatti I.A., Zia K.M., Iqbal J., Jamil Y.	Synthesis and characterization of stable and biological active chitin-based polyurethane elastomers	2020	International Journal of Biological Macromolecules	154		1149	1157
531	Raza M.A., Nawaz T., Han D.	On designing distribution-free homogeneously weighted moving average control charts	2020	Journal of Testing and Evaluation	48	4		
532	Wang L., Rasul A., Liu Z., Pan Y., Wang W., Li J., Li X.	The Loss of Masculine With Declined Serum DHT Is Associated With High Risk of Hepatocellular Carcinoma in Chinese Men	2020	Frontiers in Endocrinology	11			
533	Hussain S., Shahid Chatha S.A., Hussain A.I., Hussain R., Mehboob M.Y., Gulzar T., Mansha A., Shahzad N., Ayub K.	Designing Novel Zn-Decorated Inorganic B12P12Nanoclusters with Promising Electronic Properties: A Step Forward toward Efficient CO2Sensing Materials	2020	ACS Omega	5	25	15547	15556

534	Solat S., Abrar M., Shabbir R., Bashir M., Saleem S., Saqib S.	Workplace Interactional Demands and Work-Family Enrichment: An Investigation From the Service Sector	2020	Frontiers in Psychology	11			
535	Khalil R.M.A., Hussain F., Hussain M.I., Parveen A., Imran M., Murtaza G., Sattar M.A., Rana A.M., Kim S.	The investigation of optoelectronic, magnetic and dynamical properties of Ce and Ti doped 2D blue phosphorene: A dispersion corrected DFT study	2020	Journal of Alloys and Compounds	827			
536	Liu C.-G., Li K., Li K.-Y., Sakdaronnarong C., Mehmood M.A., Zhao X.- Q., Bai F.-W.	Intracellular Redox Perturbation in <i>Saccharomyces cerevisiae</i> Improved Furfural Tolerance and Enhanced Cellulosic Bioethanol Production	2020	Frontiers in Bioengineering and Biotechnology	8			
537	Abbas A., Nisar Q.A., Mahmood M.A.H., Chenini A., Zubair A.	The role of Islamic marketing ethics towards customer satisfaction	2020	Journal of Islamic Marketing	11	4	1001	1018
538	Sarfraz A., Javeed M., Shah M.A., Hussain G., Shafiq N., Sarfraz I., Riaz A., Sadiqa A., Zara R., Zafar S., Kanwal L., Sarker S.D., Rasul A.	Biochanin A: A novel bioactive multifunctional compound from nature	2020	Science of the Total Environment	722			

539	Ayman I., Rasheed A., Ajmal S., Rehman A., Ali A., Shakir I., Warsi M.F.	CoFe ₂ O ₄ Nanoparticle-Decorated 2D MXene: A Novel Hybrid Material for Supercapacitor Applications	2020	Energy and Fuels	34	6	7622	7630
540	Zia F., Zia K.M., Nazli Z.-I.-H., Tabasum S., Khosa M.K., Zuber M.	Preparation of hydroxyethyl cellulose/halloysite nanotubes graft polylactic acid-based polyurethane bionanocomposites	2020	International Journal of Biological Macromolecules	153		591	599
541	Ayyaz M., Huda N.U., Rasool F., Sami-Ur-Rehman H., Mehmood A., Naz M.Y., Shukrullah S., Ghaffar A.	Effects of pure and mixed stabilizers on opto-electrical properties and morphology of TiO ₂ nanoparticles synthesized by sol-gel method	2020	IOP Conference Series: Materials Science and Engineering	863	1		
542	Altaf N.-H., Anjam T., Sajid M.M., Shad N.A., Shukrullah S., Naz M.Y., Javed Y.	Characterization of manganese/cobalt oxide composites synthesized by chemical co-precipitation method	2020	IOP Conference Series: Materials Science and Engineering	863	1		
543	Ahmad G., Batool A., Iqbal Q., Iqbal A., Ali F., Nawaz S., Shad N.A., Sajid M.M., Javed Y.	Effect of calcination temperature on the structural and morphological properties of zinc sulphide nanomaterials	2020	IOP Conference Series: Materials Science and Engineering	863	1		
544	Razzaq A., Hussain G., Rasul A., Xu J., Zhang Q., Malik S.A., Anwar H., Aziz N., Braid N., de Aguilar J.-L.G., Wei W., Li	Strychnos nux-vomica L. seed preparation promotes functional recovery and attenuates oxidative stress in a mouse model of sciatic nerve crush injury	2020	BMC complementary medicine and therapies	20	1	181	

	J., Li X.							
545	Bashir M., Shabbir R., Saleem S., Abrar M., Saqib S., Gill S.H.	Job-Related and Nonjob-Related Gossips Among Low-Ranked Employees in Unionized Service Organization	2020	Frontiers in Psychology	11			
546	Rashid S., Aslam Noor M., Nisar K.S., Baleanu D., Rahman G.	A New Dynamic Scheme via Fractional Operators on Time Scale	2020	Frontiers in Physics	8			
547	Shah S.H.H., Lei S., Hussain S.T., Mariam S.	How consumer perceived ethicality influence repurchase intentions and word-of-mouth? A mediated moderation model	2020	Asian Journal of Business Ethics	9	1		
548	Aamir S., Iqbal K.J., Ehsan A., Zulqurnain, Kaukab G., Azeem A., Tehseen A., Asad M.	Heavy metals (Cadmium, Mercury and Arsenic) accumulation in different organs of Sperata sarwari collected from Indus River, Head Taunsa, Dera Ghazi Khan, Punjab, Pakistan	2020	Pesquisa Agropecuaria Brasileira	9	2	1481	1487
549	Majeed M., Hussain A.I., Shahid Chatha S.A., Kamal G.M., Ali Q.	Discrimination of mungbean cultivars/varieties based on minor saccharides composition by hplc coupled with multivariate statistical analysis	2020	Journal of the Chemical Society of Pakistan	42	3	418	428

550	Abdelmalek Z., Al-Khaled K., Waqas H., Aldabesh A., Khan S.U., Musmar S.A., Tlili I.	Bioconvection in cross nano-materials with magnetic dipole impacted by activation energy, thermal radiation, and second order slip	2020	Symmetry	12	6	1	23
551	Tahir M., Aslam M., Abid M., Ali S., Ahsanullah M.	A 3-component mixture of exponential distribution assuming doubly censored data: Properties and Bayesian estimation	2020	Journal of Statistical Theory and Applications	19	2	197	211
552	Zubair M., Bilal Awan A., Ghuffar S., Butt A.D., Farhan M.	Analysis and Selection Criteria of Lakes and Dams of Pakistan for Floating Photovoltaic Capabilities	2020	Journal of Solar Energy Engineering, Transactions of the ASME	142	3		
553	Saeed M., Usman M., Ibrahim M., Ul Haq A., Khan I., Ijaz H., Akram F.	Enhanced photo catalytic degradation of methyl orange using p-n CoO ₃ O ₄ -TiO ₂ hetero-junction as catalyst	2020	International Journal of Chemical Reactor Engineering	18	45418		
554	Ahmad M., Mahmood M.A., Farukh A.	Use of Modals as Stance Markers: A Corpus-Based Study on Pakistani English Newspaper Editorials	2020	Asia Pacific Media Educator	30	1	108	125

555	Mansha A., Zahoor A.F., Zahid F.M., Asim S., Faisal S.	Efficient synthesis of novel tricyclic benzoxazine derivative via ring opening of epoxide along the MP and DFT studies of structural, spectroscopic (IR, RAMAN, UV-VIS), thermodynamic, orbitals and NLO properties of desired tricyclic benzoxazine derivative	2020	Journal of the Chilean Chemical Society	65	2	4769	4777
556	Akash M.S.H., Rehman K., ul Haq M.E., Khurshid M.	Therapeutic role of metformin and troglitazone to prevent cancer risk in diabetic patients: Evidences from experimental studies [Diyabetik hastalarda kanser riskini Ėnlemek iĖsin metformin ve troglitazonun terapĖtik rolĖ: Deneysel ĖsalĖmalardan kanĖtlar]	2020	Turkish Journal of Biochemistry	45	3	229	239
557	Iftikhar A., Jabeen F., Manzoor M., Younis T., Shaheen M.	Passive immunization: Paradoxical and traditional method for new pandemic challenge COVID-19	2020	Acta Microbiologica et Immunologica Hungarica	67	2	87	90
558	Iqbal M.K., Iftikhar M.W., Iqbal M.S., Abbas M.	Numerical treatment of fourth-order singular boundary value problems using new quintic B-spline approximation technique	2020	International Journal of Advanced and Applied Sciences	7	6	48	56
559	Khalid M., Bilal M., Munir H., Shah S.Z.H., Khurshid M., El-Shazly M., Iqbal H.M.N.	In-vitro evaluation of anti-bacterial, anti-biofilm and cytotoxic activity of naturally inspired Juglans regia, Tamarix aphylla L., and Acacia modesta with medicinal potentialities	2020	Journal of Pure and Applied Microbiology	14	2	1133	1142

560	Hussain M., Selmi A.	Analytical vibration of FG cylindrical shell with ring support based on various configurations	2020	Advances in Concrete Construction	9	6	557	568
561	Hussain M., Selmi A.	Effect of Pasternak foundation: Structural modal identification for vibration of FG shell	2020	Advances in Concrete Construction	9	6	569	576
562	Asghar S., Naeem M.N., Khadimallah M.A., Hussain M., Iqbal Z., Tounsi A.	Effect of chiral structure for free vibration of DWCNTs: Modal analysis	2020	Advances in Concrete Construction	9	6	577	588
563	Danish G.A., Imran M., Fetecau C., Vieru D.	First exact solutions for mixed boundary value problems concerning the motions of fluids with exponential dependence of viscosity on pressure	2020	AIP Advances	10	6		
564	Arshad N., Ahmad A., Nadeem M., Amir R.M., Arshad M.S.	Reporting the utilization and perspectives of different surface active agents for bread making	2020	Food Science and Technology (Brazil)	40		312	321

565	Mohsin N.A., Irfan M., Hassan S., Saleem U.	Current Strategies in Development of New Chromone Derivatives with Diversified Pharmacological Activities: A Review	2020	Pharmaceutical Chemistry Journal	54	3	241	257
566	Saleem M.H., Ali S., Kamran M., Iqbal N., Azeem M., Javed M.T., Ali Q., Haider M.Z., Irshad S., Rizwan M., Alkahtani S., Abdelâ€•daim M.M.	Ethylenediaminetetraacetic acid (Edta) mitigates the toxic effect of excessive copper concentrations on growth, gaseous exchange and chloroplast ultrastructure of corchorus capsularis l. and improves copper accumulation capabilities	2020	Plants	9	6	1	20
567	Ye W., Zeng J., Hu W., Bustos-Segura C., Noman A., Lou Y.	The desaturase gene nlug-desata2 regulates the performance of the brown planthopper nilaparvata lugens and its relationship with rice	2020	International Journal of Molecular Sciences	21	11	1	17
568	Qamar M.T.U., Shokat Z., Muneer I., Ashfaq U.A., Javed H., Anwar F., Bari A., Zahid B., Saari N.	Multiepitope-based subunit vaccine design and evaluation against respiratory syncytial virus using reverse vaccinology approach	2020	Vaccines	8	2	1	27
569	Khosa M.K., Wood P.T., Humphrey S.M., Harrison W.T.A.	Hydrothermal synthesis and crystal structure of poly[bis(1/3-3,4-diaminobenzoato)manganese], a layered coordination polymer	2020	Acta Crystallographica Section E: Crystallographic Communications	76		909	913

570	Maqbool A., Ali S., Rizwan M., Arif M.S., Yasmeen T., Riaz M., Hussain A., Noreen S., Abdel-Daim M.M., Alkahtani S.	N-fertilizer (Urea) enhances the phytoextraction of cadmium through Solanum nigrum L.	2020	International Journal of Environmental Research and Public Health	17	11	1	14
571	Yasmeen A., Arshad M.S., Ahmad R.S., Saeed F., Imran A., Anjum F.M., Suleria H.A.R.	Formulation and biochemical evaluation of designer diet enriched with botanicals for bone health	2020	Food Science and Nutrition	8	6	2984	2992
572	Ali H.M.M., Perveen S.	Effect of foliar applied triacontanol on wheat (Triticum aestivum L.) under arsenic stress: a study of changes in growth, yield and photosynthetic characteristics	2020	Physiology and Molecular Biology of Plants	26	6	1215	1224
573	Afzal Z., Hussain R., Khan M.U., Khalid M., Iqbal J., Alvi M.U., Adnan M., Ahmed M., Mehboob M.Y., Hussain M., Tariq C.J.	Designing indenothiophene-based acceptor materials with efficient photovoltaic parameters for fullerene-free organic solar cells	2020	Journal of Molecular Modeling	26	6		
574	Asif Q.U.A., Hussain A., Rafique H.M., Tayyab M.	Computational study of Be-doped hexagonal boron nitride (h-BN): Structural and electronic properties	2020	Computational Condensed Matter	23			

575	Iqbal M., Muneer M., Raza R., Saleem M., Hussain S., Rehman Z.U., Abbas F., Ali S., Javed M.A., Hussain M.	Recycling of lead from lead acid battery to form composite material as an anode for low temperature solid oxide fuel cell	2020	Materials Today Energy	16			
576	Taj Z., Rasool M.H., Almatroudi A., Saqalein M., Khurshid M.	Extensively Drug-resistant <i>Acinetobacter baumannii</i> Belonging to International Clone II from A Pet Cat with Urinary Tract Infection; the First Report from Pakistan	2020	Polish Journal of Microbiology	69	2	231	234
577	Afzaal M., Saeed F., Ateeq H., Ahmed A., Ahmad A., Tufail T., Ismail Z., Anjum F.M.	Encapsulation of <i>Bifidobacterium bifidum</i> by internal gelation method to access the viability in cheddar cheese and under simulated gastrointestinal conditions	2020	Food Science and Nutrition	8	6	2739	2747
578	Amna, Xia Y., Farooq M.A., Javed M.T., Kamran M.A., Mukhtar T., Ali J., Tabassum T., Rehman S.U., Hussain Munis M.F., Sultan T., Chaudhary H.J.	Multi-stress tolerant PGPR <i>Bacillus xiamenensis</i> PM14 activating sugarcane (<i>Saccharum officinarum</i> L.) red rot disease resistance	2020	Plant Physiology and Biochemistry	151		640	649
579	Ali Q., Yaseen M.R., Khan M.T.I.	The impact of temperature, rainfall, and health worker density index on road traffic fatalities in Pakistan	2020	Environmental Science and Pollution Research	27	16	19510	19529

580	Akbar N., Nasir M., Naeem N., Ahmad M.-U.-D., Saeed F., Anjum F.M., Iqbal S., Imran M., Tufail T., Shah F.-U.-H., Atif M.	Assessment of aflatoxin in milk and feed samples and impact of seasonal variations in the Punjab, Pakistan	2020	Food Science and Nutrition	8	6	2699	2709
581	Khera E.A., Ullah H., Imran M., Niaz N.A., Hussain F., Arif Khalil R.M., Rasheed U., Atif Sattar M., Iqbal F., Mahta C., Rana A.M., Kim S.	Structural, electronic and optical properties of transition metal doped Hf1-xTMxO2 (TM=Co, Ni and Zn) using modified TB-mBJ potential for optoelectronic memristors devices	2020	Optik	212			
582	Usman A., Ullah S., Ozturk I., Chishti M.Z., Zafar S.M.	Analysis of asymmetries in the nexus among clean energy and environmental quality in Pakistan	2020	Environmental Science and Pollution Research	27	17	20736	20747
583	Khurshid M., Rasool M.H., Ashfaq U.A., Aslam B., Waseem M., Xu Q., Zhang X., Guo Q., Wang M.	Dissemination of blaOXA-23-harboursing carbapenem-resistant Acinetobacter baumannii clones in Pakistan	2020	Journal of Global Antimicrobial Resistance	21		357	362
584	Nawaz J., Rasul A., Shah M.A., Hussain G., Riaz A., Sarfraz I., Zafar S., Adnan M., Khan A.H., Selamoglu Z.	Cardamonin: A new player to fight cancer via multiple cancer signaling pathways	2020	Life Sciences	250			

585	Zulfqar F., Akhtar M.F., Saleem A., Akhtar B., Sharif A., Saleem U.	Chemical characterization, antioxidant evaluation, and antidiabetic potential of Pinus gerardiana (Pine nuts) extracts	2020	Journal of Food Biochemistry	44	6		
586	Khalid A., Farid M., Zubair M., Rizwan M., Iftikhar U., Ishaq H.K., Farid S., Latif U., Hina K., Ali S.	Efficacy of Alternanthera bettzickiana to Remediate Copper and Cobalt Contaminated Soil Physiological and Biochemical Alterations	2020	International Journal of Environmental Research	14	3	243	255
587	Akram N.A., Umm-e-Hani, Ashraf M., Ashraf M., Sadiq M.	Exogenous application of L-methionine mitigates the drought-induced oddities in biochemical and anatomical responses of bitter gourd (Momordica charantia L.)	2020	Scientia Horticulturae	267			
588	Sajid M.M., Shad N.A., Javed Y., Khan S.B., Zhang Z., Amin N., Zhai H.	Preparation and characterization of Vanadium pentoxide (V2O5) for photocatalytic degradation of monoazo and diazo dyes	2020	Surfaces and Interfaces	19			
589	Imran M., Irfan A., Ibrahim M., Assiri M.A., Khalid N., Ullah S., Al-Sehemi A.G.	Carbonic anhydrase and cholinesterase inhibitory activities of isolated flavonoids from Oxalis corniculata L. and their first-principles investigations	2020	Industrial Crops and Products	148			
590	Imran M., Khan Z.U.H., Iqbal M.M., Iqbal J., Shah N.S., Munawar S., Ali S., Murtaza B., Naeem M.A.,	Effect of biochar modified with magnetite nanoparticles and HNO3 for efficient removal of Cr(VI) from contaminated water: A batch and column scale study	2020	Environmental Pollution	261			

	Rizwan M.							
591	Arshad A., Ashraf M., Sundari R.S., Qamar H., Wajid M., Hasan M.-U.	Vulnerability assessment of urban expansion and modelling green spaces to build heat waves risk resiliency in Karachi	2020	International Journal of Disaster Risk Reduction	46			
592	Saleem M.H., Ali S., Rehman M., Rana M.S., Rizwan M., Kamran M., Imran M., Riaz M., Soliman M.H., Elkelish A., Liu L.	Influence of phosphorus on copper phytoextraction via modulating cellular organelles in two jute (<i>Corchorus capsularis</i> L.) varieties grown in a copper mining soil of Hubei Province, China	2020	Chemosphere	248			
593	Munawar T., Yasmeen S., Hasan M., Mahmood K., Hussain A., Ali A., Arshad M.I., Iqbal F.	Novel tri-phase heterostructured ZnOâ€“Yb2O3â€“Pr2O3 nanocomposite; structural, optical, photocatalytic and antibacterial studies	2020	Ceramics International	46	8	11101	11114
594	Shahid F., Ashfaq U.A., Javaid A., Khalid H.	Immunoinformatics guided rational design of a next generation multi epitope based peptide (MEBP) vaccine by exploring Zika virus proteome	2020	Infection, Genetics and Evolution	80			
595	Shad N.A., Sajid M.M., Javed Y., Amin N., Ikram M., Akhtar K., Ahmad G.,	High-yield synthesis of pure ZnO nanoparticles by one-step solid-state reaction approach for enhanced photocatalytic activity	2020	Journal of the Chinese Chemical Society	67	6	1045	1053

	Ali F., Razaq A.							
596	Shahid M., Shah A.A., Basit F., Noman M., Zubair M., Ahmed T., Naqqash T., Manzoor I., Maqsood A.	Achromobacter sp. FB-14 harboring ACC deaminase activity augmented rice growth by upregulating the expression of stress-responsive CIPK genes under salinity stress	2020	Brazilian Journal of Microbiology	51	2	719	728
597	Bukhat S., Manzoor H., Athar H.-U.-R., Zafar Z.U., Azeem F., Rasul S.	Salicylic Acid Induced Photosynthetic Adaptability of Raphanus sativus to Salt Stress is Associated with Antioxidant Capacity	2020	Journal of Plant Growth Regulation	39	2	809	822
598	Bahmani-Oskooee M., Usman A., Ullah S.	Asymmetric J-curve in the commodity trade between Pakistan and United States: evidence from 41 industries	2020	Eurasian Economic Review	10	2	163	188
599	Ullah B., Ovinis M., Baharom M.B., Ali S.S.A., Khan B., Javaid M.Y.	Effect of waves and current on motion control of underwater gliders	2020	Journal of Marine Science and Technology (Japan)	25	2	549	562

600	Younas M., Jawawi D.N.A., Ghani I., Shah M.A.	Extraction of non-functional requirement using semantic similarity distance	2020	Neural Computing and Applications	32	11	7383	7397
601	Hammad H.M., Khaliq A., Abbas F., Farhad W., Fahad S., Aslam M., Shah G.M., Nasim W., Mubeen M., Bakhat H.F.	Comparative Effects of Organic and Inorganic Fertilizers on Soil Organic Carbon and Wheat Productivity under Arid Region	2020	Communications in Soil Science and Plant Analysis	51	10	1406	1422
602	Hussain R., Saeed M., Mehboob M.Y., Khan S.U., Usman Khan M., Adnan M., Ahmed M., Iqbal J., Ayub K.	Density functional theory study of palladium cluster adsorption on a graphene support	2020	RSC Advances	10	35	20595	20607
603	Rashid M.A., Kalyar M.N., Shafique I.	Market orientation and women-owned SMEs performance: The contingent role of entrepreneurial orientation and strategic decision responsiveness	2020	South Asian Journal of Business Studies	9	2	215	234

604	Abro M.A., Baharun R., Zubair A.	Information credibility and organizational feedback; a solution to plethora of consumer advocacy, brand avoidance and community usefulness	2020	Bottom Line	33	2	165	181
605	Akber Abbasi S., Abid M., Riaz M., Nazir H.Z.	Performance evaluation of moving average-based EWMA chart for exponentially distributed process	2020	Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A	43	4	365	372
606	Huq M.E., Fahad S., Shao Z., Sarven M.S., Khan I.A., Alam M., Saeed M., Ullah H., Adnan M., Saud S., Cheng Q., Ali S., Wahid F., Zamin M., Raza M.A., Saeed B., Riaz M., Khan W.U.	Arsenic in a groundwater environment in Bangladesh: Occurrence and mobilization	2020	Journal of Environmental Management	262			
607	Noreen A., Zia K.M., Tabasum S., Aftab W., Shahid M., Zuber M.	Hydroxyethylcellulose-g-poly(lactic acid) blended polyurethanes: Preparation, characterization and biological studies	2020	International Journal of Biological Macromolecules	151		993	1003
608	Irshad M.K., Noman A., Alhaithloul H.A.S., Adeel M., Rui Y., Shah T., Zhu S., Shang J.	Goethite-modified biochar ameliorates the growth of rice (Oryza sativa L.) plants by suppressing Cd and As-induced oxidative stress in Cd and As co-contaminated paddy soil	2020	Science of the Total Environment	717			

609	Abbas Q., Yousaf B., Ullah H., Ali M.U., Zia-ur-Rehman M., Rizwan M., Rinklebe J.	Biochar-induced immobilization and transformation of silver-nanoparticles affect growth, intracellular-radicles generation and nutrients assimilation by reducing oxidative stress in maize	2020	Journal of Hazardous Materials	390			
610	Kabir S., Tahir Z., Mukhtar N., Sohail M., Saqalein M., Rehman A.	Fluoroquinolone resistance and mutational profile of gyrA in pulmonary MDR tuberculosis patients	2020	BMC Pulmonary Medicine	20	1		
611	Qureshi F.F., Ashraf M.A., Rasheed R., Ali S., Hussain I., Ahmed A., Iqbal M.	Organic chelates decrease phytotoxic effects and enhance chromium uptake by regulating chromium-speciation in castor bean (<i>Ricinus communis</i> L.)	2020	Science of the Total Environment	716			
612	Hussain R., Khan M.U., Mehboob M.Y., Khalid M., Iqbal J., Ayub K., Adnan M., Ahmed M., Atiq K., Mahmood K.	Enhancement in Photovoltaic Properties of N,N-diethylaniline based Donor Materials by Bridging Core Modifications for Efficient Solar Cells	2020	ChemistrySelect	5	17	5022	5034
613	Nawaz T., Han D.	Monitoring the process location by using new ranked set sampling-based memory control charts	2020	Quality Technology and Quantitative Management	17	3	255	284

614	Adeel S., Rehman F.-U., Hameed A., Habib N., Kiran S., Zia K.M., Zuber M.	Sustainable extraction and dyeing of microwave-treated silk fabric using arjun bark colorant	2020	Journal of Natural Fibers	17	5	745	758
615	Adeel S., Salman M., Bukhari S.A., Kareem K., Rehman F.-U., Hassan A., Zuber M.	Eco-friendly food products as source of natural colorant for wool yarn dyeing	2020	Journal of Natural Fibers	17	5	635	649
616	Shahid F., Ashfaq U.A., Saeed S., Munir S., Almatroudi A., Khurshid M.	In silico subtractive proteomics approach for identification of potential drug targets in staphylococcus saprophyticus	2020	International Journal of Environmental Research and Public Health	17	10		
617	Ali Khan Z., Jamil S., Akhtar A., Mustehsan Bashir M., Yar M.	Chitosan based hybrid materials used for wound healing applications- A short review	2020	International Journal of Polymeric Materials and Polymeric Biomaterials	69	7	419	436
618	Zafar N., Ali A., Afzal M.Y., Tanveer Q., Bibi S., Basit I., Nasir H., Imtiaz S., Nazir U.	Role of Streptococci as etiological agents of dental caries	2020	Novel Research in Microbiology Journal	4	3	766	778
619	Raza M.A., Nawaz T., Aslam M.	On designing CUSUM charts using ratio-type estimators for monitoring the location of normal processes	2020	Scientia Iranica	27	3 E	1593	1605

620	Idrees N., Kamal S., Ahmad M.	Appraisal of groundwater alarming zones in district okara-pakistan using dimension reduction and kriging procedures	2020	Desalination and Water Treatment	187		311	320
621	Arif R., Ahmed S., Mustafa G.	In silico study to reveal annotation and significant interactions of human defensin with its isoforms and their phylogeny	2020	Indian Journal of Pharmaceutical Sciences	82	3	465	471
622	Pratiwi Y.S., Prasetyowati I., Hidayati M.N., Antika R.B., Oktafiani L.D.A., Damat D., Shoukat N., Ahmed K.	Review article: The effect of borax as a food additive on energy metabolism	2020	Annals of Tropical Medicine and Public Health	23	8	1317	1323
623	Ahmed B., Basheer R., Irfan M., Hamid Akash M.S., Muhammad S.A., Qadir M.I.	Molecular elucidations of hutchinson-gilford progeria syndrome: A hope for managing horrors of premature aging in children	2020	Pakistan Journal of Pharmaceutical Sciences	33	3	1179	1182
624	Khurshid M., Akash M.S.H.	Probiotic preparations for infantile gastroenteritis: The clinical and economic perspective	2020	Future Microbiology	15	8	567	569

625	Abbas N., Riaz M., Ahmad S., Abid M., Zaman B.	On the efficient monitoring of multivariate processes with unknown parameters	2020	Mathematics	8	5		
626	Saadullah M., Asif M., Sattar A., Rehman K., Shah S., Saleem M., Shah A., Wajid M., Rasool A., Uzair M., Afzal S., Afzal K.	Cytotoxic and antioxidant potentials of ellagic acid derivatives from <i>Conocarpus lancifolius</i> (Combretaceae)	2020	Tropical Journal of Pharmaceutical Research	19	5	1073	1080
627	Hussain M., Naeem M.N., Asghar S., Tounsi A.	Theoretical impact of Kelvin's theory for vibration of double walled carbon nanotubes	2020	Advances in Nano Research	8	4	307	322
628	Taj M., Hussain M., Afsar M.A., Safeer M., Ahmad M., Naeem M.N., Badshah N., Khan A., Tounsi A.	Effects of elastic medium on buckling of microtubules due to bending and torsion	2020	Advances in Concrete Construction	9	5	491	501
629	Hussain M., Naeem M.N., Khan M.S., Tounsi A.	Computer-aided approach for modelling of FG cylindrical shell sandwich with ring supports	2020	Computers and Concrete	25	5	411	425

630	Munir T., Mahmood A., Kashif M., Sohail A., Shifa M.S., Sharif M., Manzoor S.	Impact of NI dopant on optical and magnetic properties of zno nanoparticles for biomedical applications	2020	Journal of Ovonic Research	16	3	165	171
631	Nawaz N., Ali S., Shabir G., Rizwan M., Shakoor M.B., Shahid M.J., Afzal M., Arslan M., Hashem A., Abd_Allah E.F., Alyemeni M.N., Ahmad P.	Bacterial augmented floating treatmentwetlands for efficient treatment of synthetic textile dye wastewater	2020	Sustainability (Switzerland)	12	9		
632	Sohail M.I., ur Rehman M.Z., Rizwan M., Ali S., Ayub M.A., Aziz T., Saqib M., Murtaza G.	Effect of biochars, biogenic, and inorganic amendments on dissolution and kinetic release of phytoavailable silicon in texturally different soils under submerged conditions	2020	Arabian Journal of Geosciences	13	10		
633	Ahmad N., Kamal S., Raza Z.A., Abid S., Zeshan M.	Multi-response Optimization in the Development of a Superhydrophobic Cotton Fabric Using ZnO Nanoparticles Mediated Resin Finish under Taguchi Based Grey Relational Analysis and Fuzzy Logics Approaches	2020	Fibers and Polymers	21	5	1039	1051
634	Ali M.A., Ajaz M.M., Rizwan M., Qayyum M.F., Arshad M., Hussain S., Ahmad N., Qureshi M.A.	Effect of biochar and phosphate solubilizing bacteria on growth and phosphorus uptake by maize in an Aridisol	2020	Arabian Journal of Geosciences	13	9		

635	Zeashan M., Afzaal M., Saeed F., Ahmed A., Tufail T., Ahmed A., Anjum F.M.	Survival and behavior of free and encapsulated probiotic bacteria under simulated human gastrointestinal and technological conditions	2020	Food Science and Nutrition	8	5	2419	2426
636	Bukhari S.A., Mustafa G., Bashir S., Akram N.A., Rahman M.-U., Sadia B., Alyemeni M.N., Ahmad P.	Genetic transformation of Sr22 gene in a high yielding susceptible cultivar of commercial wheat (Triticum aestivum L.)	2020	3 Biotech	10	5		
637	Ahmed Z., Manzoor M.F., Ahmad N., Zeng X.-A., Din Z.U., Roobab U., Qayum A., Siddique R., Siddeeg A., Rahaman A.	Impact of pulsed electric field treatments on the growth parameters of wheat seeds and nutritional properties of their wheat plantlets juice	2020	Food Science and Nutrition	8	5	2490	2500
638	Senousy H.H., Abd Ellatif S., Ali S.	Assessment of the antioxidant and anticancer potential of different isolated strains of cyanobacteria and microalgae from soil and agriculture drain water	2020	Environmental Science and Pollution Research	27	15	18463	18474
639	Ali A., Jacob J., Arshad M.I., Ajaz un Nabi M., Ashfaq A., Mahmood K., Amin N., Ikram S., Rehman U., Hussain S., Mehboob K.	Enhancement of thermoelectric properties of sulphurized CZTS nano-crystals by the engineering of secondary phases	2020	Solid State Sciences	103			

640	Aftab K., Akhtar K., Hussain M., Aslam K.	Synthesis, Characterization and Application of Bio-composites Based on Aspergillus flavus NA9 for Extraction of Zinc Ions from Synthetic and Real Waste Water Effluents	2020	Journal of Polymers and the Environment	28	5	1441	1449
641	Waqas H., Khan S.U., Bhatti M.M., Imran M.	Significance of bioconvection in chemical reactive flow of magnetized Carreau–Yasuda nanofluid with thermal radiation and second-order slip	2020	Journal of Thermal Analysis and Calorimetry	140	3	1293	1306
642	Mohsin N.-U.-A., Irfan M.	Selective cyclooxygenase-2 inhibitors: A review of recent chemical scaffolds with promising anti-inflammatory and COX-2 inhibitory activities	2020	Medicinal Chemistry Research	29	5	809	830
643	Sattar R., Mukhtar R., Atif M., Hasnain M., Irfan A.	Synthetic transformations and biological screening of benzoxazole derivatives: A review	2020	Journal of Heterocyclic Chemistry	57	5	2079	2107
644	Khera E.A., Ullah H., Hussain F., Imran M., Khalil R.M.A., Sattar M.A., Rana A.M., Mahata C., Kim S.	Investigation of structural and electronic properties of doped ceria Ce _{1-x} M _x O ₂ (M=Hf,Ti,Ba,Mg,Nb,Vx=0.25%) for ReRAM applications: A first principles study	2020	Physica E: Low-Dimensional Systems and Nanostructures	119			
645	Noreen A., Zia K.M., Tabasum S., Aftab W., Shahid M., Zuber M.	Structural elucidation and biological aptitude of modified hydroxyethylcellulose-polydimethyl siloxane based polyurethanes	2020	International Journal of Biological Macromolecules	150		426	440

646	Younas S., Rizvi H., Ali S., Abbas F.	Irrigation of Zea mays with UASB-treated textile wastewater; effect on early irrigation of Zea mays with UASB-treated textile wastewater; effect on early growth and physiology	2020	Environmental Science and Pollution Research	27	13	15305	15324
647	Nadeem A.M., Ali T., Khan M.T.I., Guo Z.	Relationship between inward FDI and environmental degradation for Pakistan: an exploration of pollution haven hypothesis through ARDL approach	2020	Environmental Science and Pollution Research	27	13	15407	15425
648	Noreen A., Zia K.M., Tabasum S., Khalid S., Shareef R.	A review on grafting of hydroxyethylcellulose for versatile applications	2020	International Journal of Biological Macromolecules	150		289	303
649	Hussain K., Bibi A., Jabeen F., Amin N., Mahmood K., Ali A., Iqbal M.Z., Arshad M.I.	Study of structural, optical, electrical and magnetic properties of Cu ²⁺ -doped Zn _{0.4} Co _{0.6-x} Ce _{0.1} Fe _{1.9} O ₄ spinel ferrites	2020	Physica B: Condensed Matter	584			
650	Ashfaq A., Jacon J., Ali A., Mehboob K., Mahmood K., Rehman U., Ahmad W., Ikram S., Amin N., Tahir S., Arshad M.I., Ajaz un Nabi M., Hussain S.	Designing of Seebeck coefficient and electrical conductivity in CZTS thin films for giant power factor	2020	Ceramics International	46	7	9646	9655

651	Bashir A., Rizwan M., Zia ur Rehman M., Zubair M., Riaz M., Qayyum M.F., Alharby H.F., Bamagoos A.A., Ali S.	Application of co-composted farm manure and biochar increased the wheat growth and decreased cadmium accumulation in plants under different water regimes	2020	Chemosphere	246			
652	Afzal A.M., Javed Y., Hussain S., Ali A., Yaqoob M.Z., Mumtaz S.	Enhancement in photovoltaic properties of bismuth ferrite/zinc oxide heterostructure solar cell device with graphene/indium tin oxide hybrid electrodes	2020	Ceramics International	46	7	9161	9169
653	Rasheed M., Khan Y.H., Mujtaba G., Mallhi T.H., Saadullah M., Saifullah A.	Assessment of clinical features and determinants of mortality among cancer patients with septic shock of pulmonary origin: A prospective analysis	2020	Postgraduate Medical Journal	96	1135	277	285
654	Korai M.A., Shar G.A., Soomro G.A., Ahmad A., Jalal F., Ashiq M.S., Husnain H.M., Shar N.A., Shar R.A., Iqbal M.	A novel method for the estimation of cobalt (II) in practical samples using ammonium pyrrolidine dithiocarbamate	2020	Environmental Progress and Sustainable Energy	39	3		
655	Muhammad N., Huma N., Sahar A., Ahmad M.H., Rahman U.U., Khan M.A., Ishaq A.	Application of fluorescence spectroscopy for rapid and noninvasive quality determination of yoghurt ice cream using chemometrics	2020	International Journal of Dairy Technology	73	2	437	446

656	Jamil M., Ali A., Mahmood K., Arshad M.I., Tahir S., Ajaz un Nabi M., Ikram S., Amin N., Hussain S.	Numerical simulation of perovskite/Cu ₂ Zn(Sn _{1-x} Gex)S ₄ interface to enhance the efficiency by valence band offset engineering	2020	Journal of Alloys and Compounds	821			
657	Saeed M., Usman M., Muneer M., Akram N., Ul Haq A., Tariq M., Akram F.	Synthesis of Ag-Fe ₃ O ₄ nanoparticles for degradation of methylene blue in aqueous medium	2020	Bulletin of the Chemical Society of Ethiopia	34	1	123	134
658	Shahid M.N., Jehanzeb M., Abbas A., Zubair A., Akbar M.A.H.	Predictability of precious metals and adaptive market hypothesis	2020	International Journal of Emerging Markets	15	5	1011	1027
659	Zahra Z., Khan M.R., Shah S.A., Maryam S., Majid M., Younis T., Sajid M.	Vincetoxicum arnottianum ameliorate inflammation by suppressing oxidative stress and pro-inflammatory mediators in rat	2020	Journal of Ethnopharmacology	252			
660	Hameed S., Arshad M.S., Ahmad R.S., Hussain G., Imran M., Arshad M.U., Ahmed A., Imran M., Imran A.	Potential preventive and protective perspectives of different spice powders and their mixtures in rat model	2020	Lipids in Health and Disease	19	1		

661	Muzammil S., Khurshid M., Nawaz I., Siddique M.H., Zubair M., Nisar M.A., Imran M., Hayat S.	Aluminium oxide nanoparticles inhibit EPS production, adhesion and biofilm formation by multidrug resistant <i>Acinetobacter baumannii</i>	2020	Biofouling	36	4	492	504
662	Khan I.T., Nadeem M., Imran M., Khaliq A.	Impact of post fermentation cooling patterns on fatty acid profile, lipid oxidation and antioxidant features of cow and buffalo milk set yoghurt	2020	Lipids in Health and Disease	19	1		
663	Hussain S., Hussain R., Mehboob M.Y., Chatha S.A.S., Hussain A.I., Umar A., Khan M.U., Ahmed M., Adnan M., Ayub K.	Adsorption of Phosgene Gas on Pristine and Copper-Decorated B12N12 Nanocages: A Comparative DFT Study	2020	ACS Omega	5	13	7641	7650
664	Akram N., Zia K.M., Saeed M., Usman M., Iqbal S.Z., Shafi A., Khan W.G.	Influence of cornstarch on thermomechanical behavior of poly(vinyl) chloride bioplastics	2020	Journal of Applied Polymer Science	137	13		
665	Ahmad L.	Association of ageing and PCOS women's metabolic turbulence: A cohort study in hospitals of Faisalabad, Pakistan	2020	Chulalongkorn Medical Journal	64	2	173	183

666	Mehmood Y., Awan Z.L., Afzal A., Akhtar M.S., Hussain F., Ashraf M.I., Yousaf H.	ESTIMATES OF THE SEVERITY OF COVID-19: A COMPARISON OF PAKISTAN WITH OTHER DEVELOPED COUNTRIES	2020	Journal of University Medical and Dental College	11	2	43	48
667	Nasreen S., Naqvi S.A.A., Tiwari A.K., Hammoudeh S., Shah S.A.R.	A Wavelet-Based Analysis of the Co-Movement between Sukuk Bonds and Shariah Stock Indices in the GCC Region: Implications for Risk Diversification	2020	Journal of Risk and Financial Management	13	4		
668	Idrees N., Khalid R., Farooq F.B., Nasir S.	Computing topological invariants of triangular chandelier lattice	2020	Computers, Materials and Continua	63	3	1119	1132
669	Hussain A., Rauf A., Abu-Izneid T., Ibrahim M., Abrar S., Khan H., Ullah B., Cer�n-Carrasco J.P., P�rez-S�nchez H., Choudhary M.I., Mubarak M.S., Shariati M.A., Mabkhot Y.N., Bourguet-Kondracki M.-L.	Sedative, muscle relaxant-like effects, and molecular docking study of compounds isolated from salvia leriifolia	2020	Revista Brasileira de Farmacognosia	30	2	257	260

670	Ahmed I., Fiorenza A., Hafeez A.	Some Interpolation Formulae for Grand and Small Lorentz Spaces	2020	Mediterranean Journal of Mathematics	17	2		
671	Ijaz U., Pervaiz T., Ahmed T., Seemab R., Shahid M., Noman M., Nadeem M., Azeem F.	Plant Cis-regulatory elements: Methods of identification and applications	2020	Asian Journal of Agriculture and Biology	8	2	207	222
672	Hussain M., Naeem M.N., Asghar S., Tounsi A.	Eringen's nonlocal model sandwich with Kelvin's theory for vibration of DWCNT	2020	Computers and Concrete	25	4	343	354
673	Kanwal I., Mujahid A., Rasool N., Rizwan K., Malik A., Ahmad G., Shah S.A.A., Rashid U., Nasir N.M.	Palladium and copper catalyzed Sonogashira cross coupling has been an excellent methodology for C-C bond formation for 17 years: A review	2020	Catalysts	10	4		
674	Riaz M., Ahmad N., Rasheed A., Khalid M.	Influence of Fe on Microstructure and Physical Properties of Cu ₉₀ –xFePd ₁₀ Ternary Alloys with x = 5, 10, 15, and 20	2020	Physics of the Solid State	62	4	592	596

675	Tariq S., Naqvi S.A.R., Naz S., Mubarik M.S., Yaseen M., Riaz M., Shah S.M.A., Rafi M., Roohi S.	Dose-Dependent Internalization and Externalization Integrity Study of Newly Synthesized 99mTc-Thymoquinone Radiopharmaceutical as Cancer Theranostic Agent	2020	Dose-Response	18	2		
676	Bilal M., Jianqiu Z., Akram U., Tanveer Y., Sohaib M., Raza M.A.A.	The role of motivational factors for determining attitude towards eWOM in social media context	2020	International Journal of Enterprise Information Systems	16	2	73	91
677	Intisar R.A., Yaseen M.R., Kousar R., Usman M., Amjad Makhdum M.S.	Impact of trade openness and human capital on economic growth: A comparative investigation of asian countries	2020	Sustainability (Switzerland)	12	7		
678	Sumera P., Rasheed A., Areeb F., Siddique M., Javed A., Jamil M.	Landau quantization effects on hybrid waves in semiconductor plasmas	2020	European Physical Journal Plus	135	4		
679	Parveen A., Hamzah Saleem M., Kamran M., Zulqurnain Haider M., Chen J.-T., Malik Z., Shoaib Rana M., Hassan A., Hur G., Tariq Javed M., Azeem M.	Effect of citric acid on growth, ecophysiology, chloroplast ultrastructure, and phytoremediation potential of jute (<i>Corchorus capsularis</i> L.) seedlings exposed to copper stress	2020	Biomolecules	10	4		

680	Talib S., Awan M.U., Noor M.A., Noor K.I.	Approximately h-preinvex functions, associated Hermite-Hadamard-like inequality, new q -identity, and estimation of its bounds with applications	2020	AIP Advances	10	4		
681	Saleem M.H., Ali S., Hussain S., Kamran M., Chattha M.S., Ahmad S., Aqeel M., Rizwan M., Aljarba N.H., Alkahtani S., Abdel-Daim M.M.	Flax (Linum usitatissimum L.): A potential candidatfor phytoremediation? biological and economical points of view	2020	Plants	9	4		
682	Mehmood Y., Khan I.U., Shahzad Y., Khan R.U., Iqbal M.S., Khan H.A., Khalid I., Yousaf A.M., Khalid S.H., Asghar S., Asif M., Hussain T., Shah S.U.	In-vitro and in-vivo evaluation of velpatasvir-loaded mesoporous silica scaffolds. A prospective carrier for drug bioavailability enhancement	2020	Pharmaceutics	12	4		
683	Tan L., Ijaz U., Salih H., Cheng Z., Htet N.N.W., Ge Y., Azeem F.	Genome-wide identification and comparative analysis of MYB transcription factor family in Musa acuminata and Musa balbisiana	2020	Plants	9	4		
684	Saleem M., Tanvir M., Akhtar M.F., Saleem A.	Crimean-Congo hemorrhagic fever: Etiology, diagnosis, management and potential alternative therapy	2020	Asian Pacific Journal of Tropical Medicine	13	4	143	151

685	Sajid M.M., Shad N.A., Afzal A.M., Javed Y., Khan S.B., Amin N., Shah A., Yousaf I., Zhai H.	Generation of strong oxidizing radicals from plate-like morphology of BiVO ₄ for the fast degradation of crystal violet dye under visible light	2020	Applied Physics A: Materials Science and Processing	126	4		
686	Manzoor M.F., Ahmed Z., Ahmad N., Aadil R.M., Rahaman A., Roobab U., Rehman A., Siddique R., Zeng X.-A., Siddeeg A.	Novel processing techniques and spinach juice: Quality and safety improvements	2020	Journal of Food Science	85	4	1018	1026
687	Arif M., Ullah I., Raza M., Zaprawa P.	Investigation of the fifth Hankel determinant for a family of functions with bounded turnings	2020	Mathematica Slovaca	70	2	319	328
688	Ni X., Li Q., Stidham T.A., Yang Y., Ji Q., Jin C., Samiullah K.	Earliest-known intentionally deformed human cranium from Asia	2020	Archaeological and Anthropological Sciences	12	4		
689	Abbas G., Shah S., Hanif M., Asghar A., Shafique M., Ashraf K.	Cancer prevalence, incidence and mortality rates in Pakistan in 2018 [Prévalence, incidence et mortalité du cancer au Pakistan en 2018]	2020	Bulletin du Cancer	107	4	517	518

690	Adeel S., Kiran S., Habib N., Hassan A., Kamal S., Qayyum M.A., Tariq K.	Sustainable ultrasonic dyeing of wool using coconut coir extract	2020	Textile Research Journal	90	45481	744	756
691	Zohaib A., Saqib M., Athar M.A., Hussain M.H., Sial A.-U.-R., Tayyab M.H., Batool M., Sadia H., Taj Z., Tahir U., Jakhrani M.Y., Tayyab J., Kakar M.A., Shahid M.F., Yaqub T., Zhang J., Wu Q., Deng F., Corman V.M., Shen S., Khan I., Shi Z.-L.	Crimean-Congo hemorrhagic fever virus in humans and livestock, Pakistan, 2015â€“2017	2020	Emerging Infectious Diseases	26	4	773	777
692	Sattar A., Sher A., Ijaz M., Ullah M.S., Ahmad N., Umar U.U.	Individual and combined effect of terminal drought and heat stress on allometric growth, grain yield and quality of bread wheat	2020	Pakistan Journal of Botany	52	2	405	412
693	Ashraf A., Zafar S., Ashraf M.Y., Ijaz M.U., Muzammal S., Asad F., Jabeen F., Shahid M.	Phytochemical composition and potent biological activities of ficus benjamina var. Comosa leaves extract	2020	Pakistan Journal of Botany	52	2	531	535
694	Khan M., Irfan M.H., Israr M., Rehman N., Park T.J., Basit M.A.	Comparative investigation of ZnO morphologies for optimal CdS quantum-dot deposition via pseudo-SILAR method	2020	Chemical Physics Letters	744			

695	Sajid M.M., Shad N.A., Javed Y., Khan S.B., Zhang Z., Amin N., Zhai H.	Morphological effects on the photocatalytic performance of FeVO4 nanocomposite	2020	Nano-Structures and Nano-Objects	22			
696	Ullah S., Ozturk I., Usman A., Majeed M.T., Akhtar P.	On the asymmetric effects of premature deindustrialization on CO2 emissions: evidence from Pakistan	2020	Environmental Science and Pollution Research	27	12	13692	13702
697	Noman M., Shahid M., Ahmed T., Tahir M., Naqqash T., Muhammad S., Song F., Abid H.M.A., Aslam Z.	Green copper nanoparticles from a native Klebsiella pneumoniae strain alleviated oxidative stress impairment of wheat plants by reducing the chromium bioavailability and increasing the growth	2020	Ecotoxicology and Environmental Safety	192			
698	Shoaib H.M., Rafique M.Z., Nadeem A.M., Huang S.	Impact of financial development on CO2 emissions: A comparative analysis of developing countries (D8) and developed countries (G8)	2020	Environmental Science and Pollution Research	27	11	12461	12475
699	Duan H., Javaid K., Liang L., Huang L., Yu J., Zhang H., Gao J., Zhuge F., Chang T.-C., Cao H.	Broadband Optoelectronic Synaptic Thin-Film Transistors Based on Oxide Semiconductors	2020	Physica Status Solidi - Rapid Research Letters	14	4		

700	Javaid M.A., Zia K.M., Iqbal A., Ahmad S., Akram N., Liu X., Nawaz H., Khosa M.K., Awais M.	Utilization of waxy corn starch as an efficient chain extender for the preparation of polyurethane elastomers	2020	International Journal of Biological Macromolecules	148		415	423
701	Imran M., Haq Khan Z.U., Iqbal J., Shah N.S., Muzammil S., Ali S., Muhammad N., Aziz A., Murtaza B., Naeem M.A., Amjad M., Shahid M., Zakir A., Rizwan M.	Potential of siltstone and its composites with biochar and magnetite nanoparticles for the removal of cadmium from contaminated aqueous solutions: Batch and column scale studies	2020	Environmental Pollution	259			
702	Rehman M.Z.U., Zafar M., Waris A.A., Rizwan M., Ali S., Sabir M., Usman M., Ayub M.A., Ahmad Z.	Residual effects of frequently available organic amendments on cadmium bioavailability and accumulation in wheat	2020	Chemosphere	244			
703	Wang Q., Xing H., Liu X., Mao L., Wei Z., Zhang H., Wang L., Wang H., Saeed M., Zhang G., Song X., Sun X.-Z., Yuan Y.	Estimation of Protein and Fatty Acid Composition in Shell-Intact Cottonseed by Near Infrared Reflectance Spectroscopy	2020	JAOCS, Journal of the American Oil Chemists' Society	97	4	331	340
704	Nawaz A., Ali H., Sufyan M., Gogi M.D., Arif M.J., Ali A., Qasim M., Islam W., Ali N., Bodla I., Zaynab M., Khan K.A.,	In-vitro assessment of food consumption, utilization indices and losses promises of leafworm, Spodoptera litura (Fab.), on okra crop	2020	Journal of Asia-Pacific Entomology	23	1	60	66

	Ghramh H.A.							
705	Sohail M.I., Zia ur Rehman M., Rizwan M., Yousaf B., Ali S., Anwar ul Haq M., Anayat A., Waris A.A.	Efficiency of various silicon rich amendments on growth and cadmium accumulation in field grown cereals and health risk assessment	2020	Chemosphere	244			
706	Khan M.A., Mahmood-ur-Rahman, Ramzani P.M.A., Zubair M., Rasool B., Khan M.K., Ahmed A., Khan S.A., Turan V., Iqbal M.	Associative effects of lignin-derived biochar and arbuscular mycorrhizal fungi applied to soil polluted from Pb-acid batteries effluents on barley grain safety	2020	Science of the Total Environment	710			
707	Aslam M., Ali Raza M., Azam M., Ahmad L., Jun C.-H.	Design of a sign chart using a new EWMA statistic	2020	Communications in Statistics - Theory and Methods	49	6	1299	1310
708	Kalyar M.N., Shafique I., Ahmad B.	Effect of innovativeness on supply chain integration and performance: Investigating the moderating role of environmental uncertainty	2020	International Journal of Emerging Markets	15	2	362	386

709	Naeem M.A., Shabbir A., Amjad M., Abbas G., Imran M., Murtaza B., Tahir M., Ahmad A.	Acid treated biochar enhances cadmium tolerance by restricting its uptake and improving physio-chemical attributes in quinoa (<i>Chenopodium quinoa</i> Willd.)	2020	Ecotoxicology and Environmental Safety	191			
710	Younis T., Jabeen F., Jafri L., Rasul A., Manzoor M., Shaheen M., Riaz A.	The protective potential of a: <i>Fraxinus xanthoxyloides</i> ethyl acetate fraction against CCl ₄ -induced oxidative stress in the cardiac tissue of rats	2020	RSC Advances	10	17	10221	10231
711	Tariq S., Raza A.R., Khalid M., Rubab S.L., Khan M.U., Ali A., Tahir M.N., Braga A.A.C.	Synthesis and structural analysis of novel indole derivatives by XRD, spectroscopic and DFT studies	2020	Journal of Molecular Structure	1203			
712	Anjum N., He J.-H.	Two Modifications of the Homotopy Perturbation Method for Nonlinear Oscillators	2020	Journal of Applied and Computational Mechanics	6	Special Issue	1420	1425
713	Adeel S., Rehman F.-U., Kaleem Khosa M., Anum T., Shahid M., Mahmood Zia K., Zuber M.	Microwave-assisted appraisal of neem bark based tannin natural dye and its application onto bio-mordanted cotton fabric	2020	Iranian Journal of Chemistry and Chemical Engineering	39	2	159	170
714	Peerzada S., Khan M.T., Akhtar M.F., Saleem A., Hamid I., Sharif A.,	Phytochemical, anti-inflammatory, anti-nociceptive and cytotoxic basis for the use of <i>Haloxylon stocksii</i>	2020	Pakistan journal of pharmaceutical sciences	33	2	887	894

	Akhtar B., Ali S., Ahmed S., Raza M.							
715	Salman S., Asghar S., Khan I.U., Khalid S.H., Shah F.H., Usman M.	Equilibrium, kinetics, thermodynamics and docking studies of Cu ²⁺ ion adsorption over ion-exchange resin and kappa carrageenan blends in blood samples	2020	Pakistan journal of pharmaceutical sciences	33	2	795	803
716	Walayat K., Ahmad M., Rasul A., Aslam S., Anjum M.N., Sultan S., Iqbal M.	Synthesis, characterization and antimicrobial activity of norfloxacin based acetohydrazides	2020	Pakistan journal of pharmaceutical sciences	33	2	855	860
717	Aziz-Ur-Rehman, Khan S.G., Bokhari T.H., Anjum F., Akhter N., Rasool S., Ali Shah S.A., Shahid M., Arshad A.	Synthesis, characterization, antibacterial, hemolytic and thrombolytic activity evaluation of 5-(3-chlorophenyl)-2-((N-(substituted)-2-acetamoyl)sulfanyl)-1,3,4-oxadiazole derivatives	2020	Pakistan journal of pharmaceutical sciences	33	2	871	876
718	Mehmood Y., Farooq U., Yousaf H., Riaz H., Mahmood R.K., Nawaz A., Abid Z., Gondal M., Malik N.S., Barkat K., Khalid I.	Antiviral activity of green silver nanoparticles produced using aqueous buds extract of Syzygium aromaticum	2020	Pakistan journal of pharmaceutical sciences	33	2	839	845
719	Ibraheem F., Ahmad M., Ashfaq U.A., Aslam S.,	Synthesis, molecular docking and anti-diabetic studies of	2020	Pakistan journal of pharmaceutical	33	2	847	854

	Khan Z.A., Sultan S.	novel benzimidazole-pyrazoline hybrid molecules		sciences				
720	Hamam S.S.M., Qamar M.U., Younas S., Almurshed S.M., Kashafjunaid, Abosalif K.O.A., Abdalla A.E., Elamir M.Y.M., Ahmad M., Ejaz H.	Emergence of extensively resistant acinetobacterbaumannii isolated from hospitalized patients in a tertiary care hospital	2020	Pakistan Journal of Medical and Health Sciences	14	1	618	621
721	Abrar S., Naqvi K.R., Javed S., Kiran S., Qaiser I., Gulzar T., Abbas Q.	Investigation of the physiochemical properties of beauty soaps available in Pakistan	2020	Tenside, Surfactants, Detergents	57	2	162	167
722	Shah S.H.H., Lei S., Noor S., Anjum A.	Research synthesis and new directions of prosumption: A bibliometric analysis	2020	International Journal of Information and Management Sciences	31	1	79	98
723	Aziz H., Zahoor A.F., Ahmad S.	Pyrazole bearing molecules as bioactive scaffolds: A review	2020	Journal of the Chilean Chemical Society	65	1	4746	4753

724	Bilal M., Ahmad S., Rehman T., Abbasi W.M., Ghauri A.O., Arshad M.A., Ayaz S., Nawaz A.	Development of herbal formulation of medicinal plants and determination of its antihyperuricemic potential in vitro and in vivo rat's model	2020	Pakistan Journal of Pharmaceutical Sciences	33	2	641	649
725	Afzaal M.U., Sajjad I.A., Awan A.B., Paracha K.N., Khan M.F.N., Bhatti A.R., Zubair M., Rehman W., Amin S., Haroon S.S., Liaqat R., Hddidi W., Tlili I.	Probabilistic generation model of solar irradiance for grid connected photovoltaic systems using weibull distribution	2020	Sustainability (Switzerland)	12	6		
726	Mukhtar T., ur Rehman S., Smith D., Sultan T., Seleiman M.F., Alsadon A.A., Amna, Ali S., Chaudhary H.J., Solieman T.H.I., Ibrahim A.A., Saad M.A.O.	Mitigation of heat stress in solanum lycopersicum l. by ACC- deaminase and exopolysaccharide producing Bacillus cereus: Effects on biochemical profiling	2020	Sustainability (Switzerland)	12	6		
727	Fahid M., Ali S., Shabir G., Ahmad S.R., Yasmeen T., Afzal M., Arslan M., Hussain A., Hashem A., Allah E.F.A., Alyemeni	Cyperus laevigatus L. Enhances diesel oil remediation in synergism with bacterial inoculation in floating treatment wetlands	2020	Sustainability (Switzerland)	12	6		

	M.N., Ahmad P.							
728	Iqbal S., Fakhar-e-Alam M., Atif M., Ahmed N., ul-Ahmad A., Amin N., Alghamdi R.A., Hanif A., Farooq W.A.	Correction: Empirical modeling of Zn/ZnO nanoparticles decorated/conjugated with fotolon (Chlorine e6) based photodynamic therapy towards liver cancer treatment. [Micromachines, (2019), 10, (60)] doi: 10.3390/mi10010060	2020	Micromachines	11	3		
729	Saleem M.H., Ali S., Irshad S., Husaan M., Rizwan M., Rana M.S., Hashem A., Abd_allah E.F., Ahmad P.	Copper uptake and accumulation, ultra-structural alteration, and bast fibre yield and quality of fibrous jute (Corchorus capsularis L.) plants grown under two different soils of china	2020	Plants	9	3		
730	Mallhi A.I., Chatha S.A.S., Hussain A.I., Rizwan M., Bukhar S.A.H., Hussain A., Mallhi Z.I., Ali S., Hashem A., Abd_allah E.F., Alyemeni M.N., Ahmad P.	Citric acid assisted phytoremediation of chromium through sunflower plants irrigated with tannery wastewater	2020	Plants	9	3		
731	Ali S., Abbas Z., Rizwan M., Zaheer I.E., Yavas I., Aœenay A., Abdel-Daim M.M., Bin-Jumah M., Hasanuzzaman M.,	Application of floating aquatic plants in phytoremediation of heavy metals polluted water: A review	2020	Sustainability (Switzerland)	12	5		

	Kalderis D.							
732	Nasreen S., Anwar S.	Financial stability and the role of economic and financial integration in south Asia: Evidence from time-series data	2020	Singapore Economic Review	65	2	303	333
733	Li Y., Waqas H., Imran M., Farooq U., Mallawi F., Tlili I.	A numerical exploration of modified second-grade nanofluid with motile microorganisms, thermal radiation, and wu's slip	2020	Symmetry	12	3		
734	Kalsoon H., Rashid S., Idrees M., Safdar F., Akram S., Baleanu D., Chu Y.-M.	Post quantum integral inequalities of Hermite-Hadamard-type associated with co-ordinated higher-order generalized strongly pre-invex and quasi-pre-invex mappings	2020	Symmetry	12	3		
735	Khan M.S., Qureshi N.A., Jabeen F., Wajid M., Sabri S., Shakir M.	The role of garlic oil in the amelioration of oxidative stress and tissue damage in rohu Labeo rohita treated with silver nanoparticles	2020	Fisheries Science	86	2	255	269
736	Ahmed T., Shahid M., Noman M., Niazi M.B.K., Mahmood F., Manzoor I., Zhang Y., Li B., Yang Y., Yan C., Chen J.	Silver nanoparticles synthesized by using Bacillus cereus SZT1 ameliorated the damage of bacterial leaf blight pathogen in rice	2020	Pathogens	9	3		

737	Salman M., Shahid M., Sahar T., Naheed S., Mahmood-ur-Rahman, Arif M., Iqbal M., Nazir A.	Development of regression model for bacteriocin production from local isolate of Lactobacillus acidophilus MS1 using Box-Behnken design	2020	Biocatalysis and Agricultural Biotechnology	24			
738	Abbasi G.H., Hussain A., Ali M., Jamil M., Anwar-Ul-haq M., Malik Z., Ali S., Javaid B.	Role of silicon in morpho-physiological, ionic and biochemical acclimation of mungbean challenged with salt stress	2020	Pakistan Journal of Agricultural Sciences	57	2	457	464
739	Farid M., Ali S., Rizwan M., Yasmeen T., Arif M.S., Riaz M., Saqib M., Rehman M.Z.U., Ayub M.A.	Combined effects of citric acid and 5-aminolevulinic acid in mitigating chromium toxicity in sunflower (Helianthus annuus L.) grown in copper spiked soil	2020	Pakistan Journal of Agricultural Sciences	57	2	477	488
740	Shahid M., Anjum F., Iqbal Y., Khan S.G., Pirzada T.	Modification of date palm mucilage and evaluation of their nutraceutical potential	2020	Pakistan Journal of Agricultural Sciences	57	2	401	411
741	Manzoor M., Ahmad J.N., Ahmad S.J.N., Naqvi S.A., Umar U.U.D., Rasheed R., Haider M.S.	Population dynamics, abundance and infestation of the red palm weevil, rhynchophorus ferrugineus (Olivier) in different geographical regions of date palm in Pakistan	2020	Pakistan Journal of Agricultural Sciences	57	2	381	391

742	Ashfaq M., Kousar R., Makhdum M.S.A., Naqivi S.A.A., Razzaq A.	Farmersâ€™ perception and awareness regarding constraints and strategies to control livestock diseases	2020	Pakistan Journal of Agricultural Sciences	57	2	573	583
743	Azeem F., Tahir H., Ijaz U., Shaheen T.	A genome-wide comparative analysis of bZIP transcription factors in <i>G. arboreum</i> and <i>G. raimondii</i> (Diploid ancestors of present-day cotton)	2020	Physiology and Molecular Biology of Plants	26	3	433	444
744	Rasheed R., Yasmeen H., Hussain I., Iqbal M., Ashraf M.A., Parveen A.	Exogenously applied 5-aminolevulinic acid modulates growth, secondary metabolism and oxidative defense in sunflower under water deficit stress	2020	Physiology and Molecular Biology of Plants	26	3	489	499
745	Bukhari S.A., Salman M., Numan M., Javed M.R., Zubair M., Mustafa G.	Characterization of antifungal metabolites produced by <i>Lactobacillus plantarum</i> and <i>Lactobacillus coryniformis</i> isolated from rice rinsed water	2020	Molecular Biology Reports	47	3	1871	1881
746	Shafiq F., Iqbal M., Ashraf M.A., Ali M.	Foliar applied fullerol differentially improves salt tolerance in wheat through ion compartmentalization, osmotic adjustments and regulation of enzymatic antioxidants	2020	Physiology and Molecular Biology of Plants	26	3	475	487
747	Munir S., Shah A.A., Rahman H., Bilal M., Rajoka M.S.R., Khan A.A., Khurshid M.	Nanozymes for medical biotechnology and its potential applications in biosensing and nanotherapeutics	2020	Biotechnology Letters	42	3	357	373

748	Mahmood K., Jacob J., Ibrahim M., Ail A., Amin N., Ikram S.	Modulation of structural, electrical, optical and thermoelectric properties of MOCVD grown GdN thin films by nitrogen environment annealing process	2020	Optik	206			
749	Rehman A., Usman M., Bokhari T.H., Haq A.U., Saeed M., Rahman H.M.A.U., Siddiq M., Rasheed A., Nisa M.U.	The application of cationic-nonionic mixed micellar media for enhanced solubilization of Direct Brown 2 dye	2020	Journal of Molecular Liquids	301			
750	Javaid M.A., Zia K.M., Zafar K., Khosa M.K., Akram N., Ajmal M., Imran M., Iqbal M.N.	Synthesis and molecular characterization of chitosan/starch blends based polyurethanes	2020	International Journal of Biological Macromolecules	146		243	252
751	Amin N., Rehman F.-U., Adeel S., Ahamd T., Muneer M., Haji A.	Sustainable application of cochineal-based anthraquinone dye for the coloration of bio-mordanted silk fabric	2020	Environmental Science and Pollution Research	27	7	6851	6860
752	Afzaal M., Saeed F., Saeed M., Ahmed A., Ateeq H., Nadeem M.T., Tufail T.	Survival and stability of free and encapsulated probiotic bacteria under simulated gastrointestinal conditions and in pasteurized grape juice	2020	Journal of Food Processing and Preservation	44	3		

753	Bibi I., Kamal S., Abbas Z., Atta S., Majid F., Jilani K., Hussain A.I., Kamal A., Nouren S., Abbas A.	A new approach of photocatalytic degradation of remazol brilliant blue by environment friendly fabricated zinc oxide nanoparticle	2020	International Journal of Environmental Science and Technology	17	3	1765	1772
754	Adnan M., Islam W., Noman A., Hussain A., Anwar M., Khan M.U., Akram W., Ashraf M.F., Raza M.F.	Q-SNARE protein FgSyn8 plays important role in growth, DON production and pathogenicity of Fusarium graminearum	2020	Microbial Pathogenesis	140			
755	Ikram S., Jacob J., Mahmood K., Ali A., Amin N., Rehman U., Arshad M.I., Ajaz un Nabi M., Javid K., Ashfaq A., Sharif M., Hussain S.	Influence of Ce ³⁺ substitution on the structural, electrical and magnetic properties of Zn _{0.5} Mn _{0.43} Cd _{0.07} Fe ₂ O ₄ spinel ferrites	2020	Physica B: Condensed Matter	580			
756	Tufail T., Saeed F., Arshad M.U., Afzaal M., Rasheed R., Bader Ul Ain H., Imran M., Abrar M., Farooq M.A., Shahid M.Z.	Exploring the effect of cereal bran cell wall on rheological properties of wheat flour	2020	Journal of Food Processing and Preservation	44	3		

757	Laref A., Alsagri M., Alay-e-Abbas S.M., Laref S., Huang H.M., Xiong Y.C., Yang J.T., Khandy S.A., Rai D.P., Varshney D., Wu X.	Electronic structure and optical characteristics of AA stacked bilayer graphene: A first principles calculations	2020	Optik	206			
758	Arshad R., Bokhari T.H., Khosa K.K., Bhatti I.A., Munir M., Iqbal M., Iqbal D.N., Khan M.I., Iqbal M., Nazir A.	Gamma radiation induced degradation of anthraquinone Reactive Blue-19 dye using hydrogen peroxide as oxidizing agent	2020	Radiation Physics and Chemistry	168			
759	Farooq W.A., Atif M., Fatehmulla A., Yahia I.S., AlSalhi M.S., Fakhar-e-Alam M., Ali S.M., Ali K., Munir T., Manthrammel M.A.	Photovoltaic and capacitance measurements of solar cells comprise of Al-doped CdS (QD) and hierarchical flower-like TiO2 nanostructured electrode	2020	Results in Physics	16			

760	Saleem U., Khalid S., Zaib S., Anwar F., Ahmad B., Ullah I., Zeb A., Ayaz M.	Phytochemical analysis and wound healing studies on ethnomedicinally important plant <i>Malva neglecta</i> Wallr	2020	Journal of Ethnopharmacology	249			
761	Heikal Y.M., ÅžuÅ£an N.A., Rizwan M., Elsayed A.	Green synthesized silver nanoparticles induced cytogenotoxic and genotoxic changes in <i>Allium cepa</i> L. varies with nanoparticles doses and duration of exposure	2020	Chemosphere	243			
762	Sharma P., Singh R., Hussain M.	On modal analysis of axially functionally graded material beam under hygrothermal effect	2020	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	234	5	1085	1101
763	Hussain S.A., Vas J.V., Medwal R., Zheng Z., Wang Y., Handong S., Pae J.Y., Murukeshan V.M., Khan I.A., Rawat R.S.	Non-focusing dense plasma focus device based alternative synthesis technology for ZnO thin films	2020	Ceramics International	46	4	4690	4699

764	Abbas Z., Nazir H.Z., Akhtar N., Abid M., Riaz M.	On designing an efficient control chart to monitor fraction nonconforming	2020	Quality and Reliability Engineering International	36	2	547	564
765	Shahid M.J., Ali S., Shabir G., Siddique M., Rizwan M., Seleiman M.F., Afzal M.	Comparing the performance of four macrophytes in bacterial assisted floating treatment wetlands for the removal of trace metals (Fe, Mn, Ni, Pb, and Cr) from polluted river water	2020	Chemosphere	243			
766	Kanwal R.S., Qurashi S.M., Shabir M.	Generalized approximation of substructures in quantales by soft relations	2020	Computational and Applied Mathematics	39	1		
767	Ali S., Rizwan M., Shakoor M.B., Jilani A., Anjum R.	High sorption efficiency for As(III) and As(V) from aqueous solutions using novel almond shell biochar	2020	Chemosphere	243			
768	Rehman A., Hassali M.A.A., Muhammad S.A., Harun S.N., Shah S., Abbas S.	The economic burden of chronic obstructive pulmonary disease (COPD) in Europe: results from a systematic review of the literature	2020	European Journal of Health Economics	21	2	181	194

769	Kashif Irshad M., Chen C., Noman A., Ibrahim M., Adeel M., Shang J.	Goethite-modified biochar restricts the mobility and transfer of cadmium in soil-rice system	2020	Chemosphere	242			
770	Ahmad B., Azeem F., Ali M.A., Nawaz M.A., Nadeem H., Abbas A., Batool R., Atif R.M., Ijaz U., Nieves-Cordones M., Chung G.	Genome-wide identification and expression analysis of two component system genes in <i>Cicer arietinum</i>	2020	Genomics	112	2	1371	1383
771	Manzoor M., Ahmad Q.-U.-A., Aslam A., Jabeen F., Rasul A., Schenk P.M., Qazi J.I.	Mixotrophic cultivation of <i>Scenedesmus dimorphus</i> in sugarcane bagasse hydrolysate	2020	Environmental Progress and Sustainable Energy	39	2		
772	Ali S., Rizwan M., Arif M.S., Ahmad R., Hasanuzzaman M., Ali B., Hussain A.	Approaches in Enhancing Thermotolerance in Plants: An Updated Review	2020	Journal of Plant Growth Regulation	39	1	456	480
773	Shahzad U., Sarwar S., Farooq M.U., Qin F.	USAID, official development assistance and counter terrorism efforts: Pre and post 9/11 analysis for South Asia	2020	Socio-Economic Planning Sciences	69			

774	Chen J., Fu Z., Wu W., Li A., Khalid S., Wang J.	Two Dimensions for Determining and Analyzing the Patterns of the Modal Accessibility Gap in Nanjing, China	2020	Applied Spatial Analysis and Policy	13	1	27	49
775	Rashid S., Hammouch Z., Kalsoom H., Ashraf R., Chu Y.M.	New Investigation on the Generalized K-Fractional Integral Operators	2020	Frontiers in Physics	8			
776	Asghar S., Naeem M.N., Hussain M., Tounsi A.	Nonlocal vibration of DWCNTs based on FEM shell model using wave propagation approach	2020	Steel and Composite Structures	34	4	599	613
777	Kalyar M.N., Shoukat A., Shafique I.	Enhancing firms' environmental performance and financial performance through green supply chain management practices and institutional pressures	2020	Sustainability Accounting, Management and Policy Journal	11	2	451	476
778	Shahid A., Malik S., Zhu H., Xu J., Nawaz M.Z., Nawaz S., Asraful Alam M., Mehmood M.A.	Cultivating microalgae in wastewater for biomass production, pollutant removal, and atmospheric carbon mitigation; a review	2020	Science of the Total Environment	704			

779	Baig Z., Akram N., Zia K.M., Saeed M., Khosa M.K., Ali L., Saleem S.	Influence of amine-terminated additives on thermal and mechanical properties of diglycidyl ether of bisphenol A (DGEBA) cured epoxy	2020	Journal of Applied Polymer Science	137	8		
780	Akram N., Zia K.M., Saeed M., Khosa M.K., Khan W.G., Arain M.A.	Compositional effect on the deformation behavior of polyurethane pressure-sensitive adhesive thin films	2020	Journal of Applied Polymer Science	137	8		
781	Zhang S., Asghar S., Yang L., Hu Z., Chen Z., Shao F., Xiao Y.	Borneol and poly (ethylene glycol) dual modified BSA nanoparticles as an itraconazole vehicle for brain targeting	2020	International Journal of Pharmaceutics	575			
782	Irshad A., Sarwar N., Sadia H., Malik K., Javed I., Irshad A., Afzal M., Abbas M., Rizvi H.	Comprehensive facts on dynamic antimicrobial properties of polysaccharides and biomolecules-silver nanoparticle conjugate	2020	International Journal of Biological Macromolecules	145		189	196
783	Mehmood Y., Khan I.U., Shahzad Y., Khan R.U., Khalid S.H., Yousaf A.M., Hussain T., Asghar S., Khalid I., Asif M., Shah S.U.	Amino-decorated mesoporous silica nanoparticles for controlled sofosbuvir delivery	2020	European Journal of Pharmaceutical Sciences	143			
784	Haroon M., Khalid M., Akhtar T., Tahir M.N., Khan M.U., Muhammad S., Al-Sehemi A.G.,	Synthesis, crystal structure, spectroscopic, electronic and nonlinear optical properties of potent thiazole based derivatives: Joint experimental and computational insight	2020	Journal of Molecular Structure	1202			

	Hameed S.							
785	Sohail A., Ahmed R., Yu C.S., Munir T.	Enhanced entanglement induced by Coulomb interaction in coupled optomechanical systems	2020	Physica Scripta	95	3		
786	Rehman A., Usman M., Bokhari T.H., Rahman H.M.A.U., Mansha A., Siddiq M., Rasheed A., Nisa M.U.	Effects of nonionic surfactant (TX-100) on solubilizing power of cationic surfactants (CTAB and CPC) for Direct Red 13	2020	Colloids and Surfaces A: Physicochemical and Engineering Aspects	586			
787	Hussain A., Khan M.U., Ibrahim M., Khalid M., Ali A., Hussain S., Saleem M., Ahmad N., Muhammad S., Al-Sehemi A.G., Sultan A.	Structural parameters, electronic, linear and nonlinear optical exploration of thiopyrimidine derivatives: A comparison between DFT/TDDFT and experimental study	2020	Journal of Molecular Structure	1201			
788	Malik N.S., Ahmad M., Minhas M.U., Tulain R., Barkat K., Khalid I., Khalid Q.	Chitosan/Xanthan Gum Based Hydrogels as Potential Carrier for an Antiviral Drug: Fabrication, Characterization, and Safety Evaluation	2020	Frontiers in Chemistry	8			

789	Hussain G., Anwar H., Rasul A., Imran A., Qasim M., Zafar S., Imran M., Kamran S.K.S., Aziz N., Razzaq A., Ahmad W., Shabbir A., Iqbal J., Baig S.M., Ali M., Gonzalez de Aguilar J.-L., Sun T., Muhammad A., Muhammad Umair A.	Lipids as biomarkers of brain disorders	2020	Critical Reviews in Food Science and Nutrition	60	3	351	374
790	Gulzar M., Dilawar F., Alghazzawi D., Mateen M.H.	A note on complex fuzzy subfield	2020	Indonesian Journal of Electrical Engineering and Computer Science	21	2	1048	1056
791	Hameed M.S., Mukhtar S., Nawaz H., Ali S., Mateen M.H., Gulzar M.	Pythagorean fuzzy N-soft groups	2020	Indonesian Journal of Electrical Engineering and Computer Science	21	2	1030	1038
792	Khan N.M., Ullah H., Raziq A., Khan A.A., Khan M.W.	Molecular genetic analysis of leucine tRNA in relevance to type 2 diabetes mellitus	2020	Clinical Diabetology	9	3	167	173

793	Kabir S., Shahid M., Waseem M., Muzammil S., Nawaz Z., Rasool M.H., Shahzad A., Hayat S., Taj Z., Khurshid M., Rizvi N.B., Waheed S., Nisar M.A., Saqalein M.	Dairy origin lactobacilli: Functional analyses and antagonistic potential against multidrug-resistant foodborne pathogens	2020	International Food Research Journal	27	1	131	140
794	Ali N., Mansha A., Asim S., Ali H.S., Usman M.	Insight into the Molecular Characterization and Spectral Properties of 2-Methoxy-1,4-Naphthoquinone: A Computational Approach	2020	Journal of Structural Chemistry	61	2	182	196
795	Habib N., Ali Q., Ali S., Javed M.T., Haider M.Z., Perveen R., Shahid M.R., Rizwan M., Abdel-Daim M.M., Elkelish A., Bin-Jumah M.	Use of nitric oxide and hydrogen peroxide for better yield of wheat (<i>Triticum aestivum</i> L.) under water deficit conditions: Growth, osmoregulation, and antioxidative defense mechanism	2020	Plants	9	2		
796	Saadat S., Akhtar S., Ismail T., Sharif M.K., Shabbir U., Ahmad N., Ali A.	Multilegume bar prepared from extruded legumes flour to address protein energy malnutrition	2020	Italian Journal of Food Science	32	1	167	180

797	Yasir M., Afzal S., Latif K., Chaudhary G.M., Malik N.Y., Shahzad F., Song O.-Y.	An efficient deep learning based model to predict interest rate using twitter sentiment	2020	Sustainability (Switzerland)	12	4		
798	Hussain M., Naqvi R.A., Abbas N., Khan S.M., Nawaz S., Hussain A., Zahra N., Khalid M.W.	Ultra-high-molecular-weight-polyethylene (UHMWPE) as a promising polymer material for biomedical applications: A concise review	2020	Polymers	12	2		
799	Abdelmalek Z., Khan S.U., Waqas H., Nabwey H.A., Tlili I.	Utilization of second order slip, activation energy and viscous dissipation consequences in thermally developed flow of third grade nanofluid with gyrotactic microorganisms	2020	Symmetry	12	2		
800	Chu H.-H., Kalsoom H., Rashid S., Idrees M., Safdar F., Chu Y.-M., Baleanu D.	Quantum analogs of ostrowski-type inequalities for Raina's function correlated with coordinated generalized $\hat{I}_1^*$ -convex functions	2020	Symmetry	12	2		
801	Rashid S., Kalsoom H., Hammouch Z., Ashraf R., Baleanu D., Chu Y.-M.	New multi-parametrized estimates having pth-order differentiability in fractional calculus for predominating h-convex functions in Hilbert space	2020	Symmetry	12	2		

802	Naz T., Nazir S., Rashid M.A., Akhtar M.N., Usman M., Abbas M., Abbas G.	The Study of Stability and Location of Chloramphenicol in Newly Formed Microemulsion Based Ocular Drug Delivery System	2020	Pharmaceutical Chemistry Journal	53	11	1047	1052
803	Rasheed R., Al-Kandari F., Ghanem M., Marafi F., Usmani S.	Significance of 18F-FDG PET/CT in Characterization of Equivocal Lesions in High-Risk Testicular Carcinoma in Restaging Setting	2020	Asian Pacific Journal of Cancer Prevention	21	2	511	515
804	Waqas H., Khan S.U., Tlili I., Awais M., Shadloo M.S.	Significance of bioconvective and thermally dissipation flow of viscoelastic nanoparticles with activation energy features: Novel biofuels significance	2020	Symmetry	12	2		
805	Saleem M.H., Ali S., Rehman M., Hasanuzzaman M., Rizwan M., Irshad S., Shafiq F., Iqbal M., Alharbi B.M., Alnusaie T.S., Qari S.H.	Jute: A potential candidate for phytoremediation of metals—A review	2020	Plants	9	2		
806	Haider Zaidi S.M.I., Yaqoob N., Mehmood K., Naveed A., Farwa U., Noor A.	Level of sleep disorders among patients with chronic obstructive pulmonary disease	2020	Journal of the Pakistan Medical Association	70	2	259	263

807	Tahir R.A., Bashir A., Yousaf M.N., Ahmed A., Dali Y., Khan S., Sehgal S.A.	In Silico identification of angiotensin-converting enzyme inhibitory peptides from MRJP1	2020	PLoS ONE	15	2		
808	Saleem A., Muhammad D., Khan M., Khan Q.U., Rizwan M., Shaheen S., Noor H., Gul S., Khan M.D., Ali S.	Dynamics of AB-DTPA-extractable Zn in high and low limed calcareous soils amended with biochar and farmyard and poultry manures	2020	Arabian Journal of Geosciences	13	3		
809	Ellahi A., Almanjahie I.M., Hussain T., Hashmi M.Z., Faisal S., Hussain I.	Analysis of agricultural and hydrological drought periods by using non-homogeneous Poisson models: Linear intensity function	2020	Journal of Atmospheric and Solar-Terrestrial Physics	198			
810	Saeed M., Akram S., Azeem M., Song X., Sun X., Riaz M.	Population structure and linkage disequilibrium assessment among cotton varieties from two important cotton growing regions in Punjab, Pakistan	2020	Journal of Animal and Plant Sciences	30	1	91	97
811	Shahid M., Rasheed A., Kanwal M., Jamil M.	Landau quantised modification of rayleigh-taylor instability in dense plasmas	2020	Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences	75	2	113	118

812	Arshad M.S., Kwon J.-H., Ahmad R.S., Ameer K., Ahmad S., Jo Y.	Influence of E-beam irradiation on microbiological and physicochemical properties and fatty acid profile of frozen duck meat	2020	Food Science and Nutrition	8	2	1020	1029
813	Mahmood F., Shahid M., Hussain S., Haider M.Z., Shahzad T., Ahmed T., Noman M., Rasheed F., Khan M.B.	Bacillus firmus strain FSS2C ameliorated oxidative stress in wheat plants induced by azo dye (reactive black-5)	2020	3 Biotech	10	2		
814	Farooq R., Hussain K., Tariq M., Farooq A., Mustafa M.	CRISPR/Cas9: targeted genome editing for the treatment of hereditary hearing loss	2020	Journal of Applied Genetics	61	1	51	65
815	Hussain M.I., Arif Khalil R.M., Boota S., Hussain F., Imran M., Murtaza G., Rana A.M., Sattar M.A.	The structural, electronic and dynamical investigations of NdMn2O5 and La2CoMnO6 for optoelectronic applications: A first principles study	2020	Optik	204			
816	Rehman U., Mahmood K., Ali A., Ashfaq A., Rehman A., Nabi M.A.U., Arshad M.I., Amin N., Ikram S., Hussain S.	Optimizing the electrical transport properties of ZnSnO thin films by post growth annealing in air	2020	Optik	204			

817	Naz S., Muazzam S., Sagheer A., Tanveer A., Khan N.A., Ali Z., Chand N., Khan R.U.	Captivity stress influences the DNA damage of <i>Pavo cristatus</i> under environmental conditions of Faisalabad, Pakistan	2020	Environmental Science and Pollution Research	27	5	5636	5639
818	Khan Z.S., Rizwan M., Hafeez M., Ali S., Adrees M., Qayyum M.F., Khalid S., ur Rehman M.Z., Sarwar M.A.	Effects of silicon nanoparticles on growth and physiology of wheat in cadmium contaminated soil under different soil moisture levels	2020	Environmental Science and Pollution Research	27	5	4958	4968
819	Riaz Rajoka M.S., Mehwish H.M., Zhang H., Ashraf M., Fang H., Zeng X., Wu Y., Khurshid M., Zhao L., He Z.	Antibacterial and antioxidant activity of exopolysaccharide mediated silver nanoparticle synthesized by <i>Lactobacillus brevis</i> isolated from Chinese koumiss	2020	Colloids and Surfaces B: Biointerfaces	186			
820	Niaz N.A., Hussain F., Khalil R.M.A., Imran M., Shakoor A., Khalid N.R., Choudhry B., Khan M.A., Kim S.	Hybrid Nanocomposites of Multi-walled Carbon Nanotubes (MWCNTs) and CuO as Electrode Materials for Energy Storage Devices	2020	Journal of Electronic Materials	49	2	1096	1103
821	Ahmed A., Ali S.W., Imran A., Afzaal M., Arshad M.S., Nadeem M., Mubeen Z., Ikram A.	Formulation of date pit oil-based edible wax coating for extending the storage stability of guava fruit	2020	Journal of Food Processing and Preservation	44	2		

822	Ali S., Hameed S., Shahid M., Iqbal M., Lazarovits G., Imran A.	Functional characterization of potential PGPR exhibiting broad-spectrum antifungal activity	2020	Microbiological Research	232			
823	Naseem B., Nawaz A., Arif I., Jamal M.A.	Effect of non-steroidal anti-inflammatory drug on pharmacological activity of antibiotic in terms of thermo-acoustic parameters	2020	Journal of Molecular Liquids	299			
824	Noman M., Shahid M., Ahmed T., Niazi M.B.K., Hussain S., Song F., Manzoor I.	Use of biogenic copper nanoparticles synthesized from a native Escherichia sp. as photocatalysts for azo dye degradation and treatment of textile effluents	2020	Environmental Pollution	257			
825	Yasmin N., Grundmann P.	Home-cooked energy transitions: Women empowerment and biogas-based cooking technology in Pakistan	2020	Energy Policy	137			
826	Saleem M.H., Fahad S., Khan S.U., Ahmar S., Ullah Khan M.H., Rehman M., Maqbool Z., Liu L.	Morpho-physiological traits, gaseous exchange attributes, and phytoremediation potential of jute (<i>Corchorus capsularis</i> L.) grown in different concentrations of copper-contaminated soil	2020	Ecotoxicology and Environmental Safety	189			
827	Jahangeer M., Mahmood Z., Munir N., Waraich U.-E.-A., Tahir I.M., Akram M., Ali Shah S.M., Zulfqar A., Zainab R.	<i>Naegleria fowleri</i> : Sources of infection, pathophysiology, diagnosis, and management; a review	2020	Clinical and Experimental Pharmacology and Physiology	47	2	199	212

828	Ni X., Li Q., Zhang C., Samiullah K., Zhang L., Yang Y., Cao W.	Paleogene mammalian fauna exchanges and the paleogeographic pattern in Asia	2020	Science China Earth Sciences	63	2	202	211
829	Hammad R., Khan I.U., Asghar S., Khalid S.H., Irfan M., Khalid I., Shah S.U., Sabir N., Ali A., Yousaf A.M., Hussain T., Shahzad Y., Gohar U.F.	Multistage release matrices for potential antiplatelet therapy: Assessing the impact of polymers and Sorb-Cel MÃ® on floating, swelling, and release behavior	2020	Journal of Drug Delivery Science and Technology	55			
830	Sajid M.M., Shad N.A., Javed Y., Khan S.B., Amin N., Zhang Z., Imran Z., Yousuf M.I.	Facile synthesis of Zn ₃ (VO ₄) ₂ /FeVO ₄ heterojunction and study on its photocatalytic and electrochemical properties	2020	Applied Nanoscience (Switzerland)	10	2	421	433
831	Akram M., Riaz M., Munir N., Akhter N., Zafar S., Jabeen F., Ali Shariati M., Akhtar N., Riaz Z., Altaf S.H., Daniyal M., Zahid R., Said Khan F.	Chemical constituents, experimental and clinical pharmacology of Rosa damascena: a literature review	2020	Journal of Pharmacy and Pharmacology	72	2	161	174
832	Sajid M.M., Shad N.A., Javed Y., Khan S.B., Zhang Z., Amin N.	Study of the interfacial charge transfer in bismuth vanadate/reduce graphene oxide (BiVO ₄ /rGO) composite and evaluation of its photocatalytic activity	2020	Research on Chemical Intermediates	46	2	1201	1215

833	ul Haq A., Saeed M., Usman M., Naqvi S.A.R., Bokhari T.H., Maqbool T., Ghaus H., Tahir T., Khalid H.	Sorption of chlorpyrifos onto zinc oxide nanoparticles impregnated Pea peels (<i>Pisum sativum</i> L): Equilibrium, kinetic and thermodynamic studies	2020	Environmental Technology and Innovation	17			
834	Fahid M., Arslan M., Shabir G., Younus S., Yasmeen T., Rizwan M., Siddique K., Ahmad S.R., Tahseen R., Iqbal S., Ali S., Afzal M.	<i>Phragmites australis</i> in combination with hydrocarbons degrading bacteria is a suitable option for remediation of diesel-contaminated water in floating wetlands	2020	Chemosphere	240			
835	Farid M., Farid S., Zubair M., Rizwan M., Ishaq H.K., Ali S., Ashraf U., Alhaithloul H.A.S., Gowayed S., Soliman M.H.	Efficacy of <i>Zea mays</i> L. for the management of marble effluent contaminated soil under citric acid amendment; morpho-physiological and biochemical response	2020	Chemosphere	240			
836	Asghar S., Naeem M.N., Hussain M.	Non-local effect on the vibration analysis of double walled carbon nanotubes based on Donnell shell theory	2020	Physica E: Low- Dimensional Systems and Nanostructures	116			
837	Munawar T., Iqbal F., Yasmeen S., Mahmood K., Hussain A.	Multi metal oxide NiO-CdO-ZnO nanocomposite’s synthesis, structural, optical, electrical properties and enhanced sunlight driven photocatalytic activity	2020	Ceramics International	46	2	2421	2437

838	Arshad M., Du H., Javed M.S., Maqsood A., Ashraf I., Hussain S., Ma W., Ran H.	Fabrication, structure, and frequency-dependent electrical and dielectric properties of Sr-doped BaTiO3 ceramics	2020	Ceramics International	46	2	2238	2246
839	Raza M.A., Nawaz T., Aslam M., Bhatti S.H., Sherwani R.A.K.	A new nonparametric double exponentially weighted moving average control chart	2020	Quality and Reliability Engineering International	36	1	68	87
840	Ahmad R., Ali S., Rizwan M., Dawood M., Farid M., Hussain A., Wijaya L., Alyemeni M.N., Ahmad P.	Hydrogen sulfide alleviates chromium stress on cauliflower by restricting its uptake and enhancing antioxidative system	2020	Physiologia Plantarum	168	2	289	300
841	Majid F., Nazir A., Ata S., Bibi I., Mehmood H.S., Malik A., Ali A., Iqbal M.	Effect of Hydrothermal Reaction Time on Electrical, Structural and Magnetic Properties of Cobalt Ferrite	2020	Zeitschrift fur Physikalische Chemie	234	2	323	353
842	Jamil A., Bokhari T.H., Iqbal M., Bhatti I.A., Zuber M., Nisar J., Masood N.	Gamma Radiation and Hydrogen Peroxide Based Advanced Oxidation Process for the Degradation of Disperse Dye in Aqueous Medium	2020	Zeitschrift fur Physikalische Chemie	234	2	279	294
843	Saleem A., Saleem M., Akhtar M.F., Shahzad M., Jahan S.	Moringa rivae leaf extracts attenuate Complete Freund's adjuvant-induced arthritis in Wistar rats via modulation of inflammatory and oxidative stress biomarkers	2020	Inflammopharmacology	28	1	139	151

844	Sajid M.A., Khan Z.A., Shahzad S.A., Naqvi S.A.R., Usman M.	5-Endo-dig cyclizations in organic syntheses	2020	Molecular Diversity	24	1	295	317
845	Shakoor M.B., Ali S., Rizwan M., Abbas F., Bibi I., Riaz M., Khalil U., Niazi N.K., Rinklebe J.	A review of biochar-based sorbents for separation of heavy metals from water	2020	International Journal of Phytoremediation	22	2	111	126
846	Islam W., Noman A., Naveed H., Alamri S.A., Hashem M., Huang Z., Chen H.Y.H.	Plant-insect vector-virus interactions under environmental change	2020	Science of the Total Environment	701			
847	Ullah R., Nadeem M., Imran M., Khan M.K., Mushtaq Z., Asif M., Din A.	Effect of microcapsules of chia oil on 1-3 fatty acids, antioxidant characteristics and oxidative stability of butter	2020	Lipids in Health and Disease	19	1		
848	Li K., Zhang J.-W., Liu C.- G., Aamer Mehmood M., Bai F.-W.	Elucidating the molecular mechanism of TEMPOL-mediated improvement on tolerance under oxidative stress in <i>Saccharomyces cerevisiae</i>	2020	Chemical Engineering Science	211			
849	Hussain M., Naeem M.N., Taj M.	Effect of length and thickness variations on the vibration of SWCNTs based on FEM's shell model	2020	Micro and Nano Letters	15	1	1	6

850	Abbas T., Mahmood T., Riaz M., Abid M.	Improved linear profiling methods under classical and Bayesian setups: An application to chemical gas sensors	2020	Chemometrics and Intelligent Laboratory Systems	196			
851	Ali A., Ammar M., Mukhtar A., Ahmed T., Ali M., Waqas M., Amin M.N., Rasheed A.	3D NiO nanowires@NiO nanosheets core-shell structures grown on nickel foam for high performance supercapacitor electrode	2020	Journal of Electroanalytical Chemistry	857			
852	Hanif M., Abbas G., Shah S., Zaman M., Rasul A., Majeed A., Khan S.M., Ahmed M.M.	Raft-forming system for pantoprazole and domperidone delivery: In vitro and in vivo study	2020	Bioinspired, Biomimetic and Nanobiomaterials	9	3	137	146
853	Kalyar M.N., Usta A., Shafique I.	When ethical leadership and LMX are more effective in prompting creativity: The moderating role of psychological capital	2020	Baltic Journal of Management	15	1	61	80
854	Noman A., Aqeel M., Qasim M., Haider I., Lou Y.	Plant-insect-microbe interaction: A love triangle between enemies in ecosystem	2020	Science of the Total Environment	699			
855	Shafique I., Ahmad B., Kalyar M.N.	How ethical leadership influences creativity and organizational innovation: Examining the underlying mechanisms	2020	European Journal of Innovation Management	23	1	114	133

856	Ali A., Ali A., Ammar M., Ammar M., Hameed I., Ali M., Tayyab M., Mujahid R., Ali I., Zia-UI- Haq M., Ashraf M.	Hydrothermally Synthesized Cobalt Oxide Nanowires on Nickel Foam for High-Performance Energy-Storage Applications	2020	Journal of the Electrochemical Society	167	10		
857	Nageen B., Sarfraz I., Rasul A., Hussain G., Rukhsar F., Irshad S., Riaz A., Selamoglu Z., Ali M.	Eupatilin: a natural pharmacologically active flavone compound with its wide range applications	2020	Journal of Asian Natural Products Research	22	1	1	16
858	Shahzad Y., Maqbool M., Hussain T., Yousaf A.M., Khan I.U., Mahmood T., Jamshaid M.	Natural and semisynthetic polymers blended orodispersible films of citalopram	2020	Natural Product Research	34	1	16	25
859	Adeel S., Naseer K., javed S., Mahmmod S., Tang R.-C., Amin N., Naz S.	Microwave-assisted improvement in dyeing behavior of chemical and bio-mordanted silk fabric using safflower (Carthamus tinctorius L) extract	2020	Journal of Natural Fibers	17	1	55	65
860	Adeel S., Saeed M., Abdullah A., Gull Khan S., Habib N., Kamran M., Zuber M.	Ultrasonic assisted improved dyeing of cellulosic fabric using Vat Blue 4	2020	Journal of Natural Fibers	17	1	1	8

861	Amin J., Sharif M., Anjum M.A., Khan H.U., Malik M.S.A., Kadry S.	An Integrated Design for Classification and Localization of Diabetic Foot Ulcer Based on CNN and YOLOv2-DFU Models	2020	IEEE Access	8		228586	228597
862	Fatima F., Talib R., Hanif M.K., Awais M.	A Paradigm-Shifting from Domain-Driven Data Mining Frameworks to Process-Based Domain-Driven Data Mining-Actionable Knowledge Discovery Framework	2020	IEEE Access	8		210763	210774
863	Kausar N., Munir M., Gulzar M., Addis G.M.	Characterizing the Ordered AG-Groupoids through the Properties of Their Different Classes of Ideals $[D \cdot \mu \tilde{N}, \tilde{N}, D \cdot \mu D] \gg D^3 \cdot D \cdot \mu D \frac{1}{2} AG-$ $D^3 \tilde{N} \in \tilde{N} f D \frac{1}{2} D \frac{1}{2} D, D' \tilde{N}, D^{\circ} \tilde{N} \in D' \tilde{N} \langle \emptyset \in \acute{O}^{\text{TM}} \tilde{N} \in \tilde{N}, \acute{O}^- \tilde{N} \in D \gg i$ $D, D' \cdot D \cdot \mu D^{\circ} D \gg D' \tilde{N} \langle D^{\circ} D \gg D^{\circ} \tilde{N} \tilde{N}, D^{\circ} \tilde{N} \in \tilde{N} \langle D \frac{1}{2} \tilde{N} \langle \emptyset \in$ $\acute{O} \gg D^{\circ} \tilde{N} \tilde{N} D, D \cdot \mu \tilde{N}, \tilde{N}, D \cdot \mu \tilde{N} \in i D \pm D \frac{3}{4} D^1 \tilde{N} \langle D \frac{1}{2} \tilde{N}^{\wedge} D^{\circ}$ $\tilde{N} \tilde{N} D, D \frac{1}{2} D^{\circ} \tilde{N}, \tilde{N}, D^{\circ} D \frac{1}{4} D^{\circ} \tilde{N} \tilde{N} \langle]$ $[D \nmid D^{\circ} \tilde{N} \in D^{\circ} D^{\circ} \tilde{N}, D \cdot \mu \tilde{N} \in D, D \cdot D^{\circ} \tilde{N} + D, \tilde{N} \bullet$ $\tilde{N} f D \frac{1}{2} D \frac{3}{4} \tilde{N} \in \tilde{N} \tilde{N} D' D \frac{3}{4} \tilde{N} \nmid D \cdot \mu D \frac{1}{2} D \frac{1}{2} \tilde{N} \langle \tilde{N} \dots AG-$ $D^3 \tilde{N} \in \tilde{N} f D \frac{1}{2} D \frac{1}{2} D, D' D \frac{1}{4} D^2 \tilde{N} \nmid D \cdot \mu \tilde{N} \in D \cdot \mu D \cdot \tilde{N} \tilde{N} D^2 D \frac{1}{4} D^1 \tilde{N} \tilde{N}, D^2 D^{\circ}$ $D, \tilde{N} \dots \tilde{N} \in D^{\circ} D \cdot D \gg D, \tilde{N} \nmid D \frac{1}{2} \tilde{N} \langle \tilde{N} \dots D^{\circ} D \gg D^{\circ} \tilde{N} \bullet \tilde{N} \bullet D \frac{3}{4} D^2$ $D, D' \cdot D \cdot \mu D^{\circ} D \gg D \frac{1}{4} D^2]$	2020	Bulletin of the Karaganda University. Mathematics Series	100	4	101	112
864	Saeed M., Amjed M., Attaulhaq, Usman M., Adeel S.	Synthesis and characterization of nickel oxide and evaluation of its catalytic activities for degradation of methyl orange in aqueous medium	2020	Applied Chemical Engineering	3	2	47	52

865	Sharif I., Nazir A., Shahzadi E., Chohan S.M., Sarwar G.	Influence of Sowing Dates on Cotton Growth (<i>Gossypium hirsutum</i>), Yield and Fiber Quality	2020	Pakistan Journal of Agricultural Research	33	4	866	871
866	Hussain G., Asrar M., Hussain D., Zia K., Rashid A., Anwar H., Azeem M., Hussain S., Asghar S.	The Comparative Toxicity of some Insecticides and Plant Extracts against Cotton Mealy Bug (<i>Phenacoccus solenopsis</i>)	2020	Pakistan Journal of Agricultural Research	33	1	17	21
867	Shahzad A., Kashif M., Munir T., Shakoory M.A., He M., Bashir S., Ul Islam Q.	Studies of weak external force on thermal conductivity of complex liquids using homogenous perturbed simulations	2020	High Temperatures - High Pressures	49	45418	461	478
868	Idrees N., Nasir S., Farooq F.B., Majeed M.	On certain prime cordial families of graphs	2020	Journal of Taibah University for Science	14	1	579	584
869	Abbas H., Iqbal M.A., Kamran M., Shahbaz M.U., Kamber H.U., Javed N., Junaid M., Abbas H., Haq M.E.U.	Evaluation of Advanced Mung Bean Germplasm against <i>Cercospora</i> Leaf Spot and its In-vitro Management by Different Fungicides	2020	Pakistan Journal of Agricultural Research	33	4	872	877

870	Amin N., Mahmood K., Ali A., Ikram S., Ashfaq A., U.rehman, Hussain Siyal S.	Temperature dependent current-voltage characteristics of Ag/Zn ₂ GeO ₄ /Si diode grown by thermal evaporation method	2020	Materials Today: Proceedings	47		S99	S101
871	Khan Q.-U.-A., Javid M.A., Rafique M., Hussain A., Nadeem K., Nabi G., Mehmood K., Un-Nabi M.A.	Synthesis and mechanical properties of dental amalgam	2020	Materials Today: Proceedings	47		S33	S37
872	Zafar N., Aslam M.A., Ali A., Khatoon A., Nazir A., Tanveer Q., Bilal M., Kanwar R., Qadeer A., Sikandar M., Zafar A.	Probiotics: Helpful for the prevention of COVID-19?	2020	Biomedical Research and Therapy	7	11	4086	4099
873	Nazir B., Rehman U.U., Arshad S., Arshad M.I., Sabir N., Arshad Javid M., Iqbal F., Ajaz Un Nabi M.	Enhanced photo-absorption of anatase TiO ₂ with Ni and Eu doping: A first principle study	2020	Materials Today: Proceedings	47		S94	S98
874	Shahzad M.A., Jun D., Hassan Q., Zubair R.A., Iqbal T.	Employee's performance affected by the alignment of interest and capacity building [Performanța angajaților influențată de alinierea interesului și consolidarea capacității]	2020	Industria Textila	71	5	473	481

875	Sarfraz Q., Hussain S.M., Sharif A., Selamoglu Z., Bashir F., Ahsan S.	Potential of phytase supplemented moringa oleifera leaf meal based diet on mineral digestibility of oreochromis niloticus fingerlings	2020	Journal of Survey in Fisheries Sciences	6	2	65	77
876	Alghazzawi D., Shuaib U., Fatima T., Razaq A., Binyamin M.A.	Algebraic Characteristics of Anti-Intuitionistic Fuzzy Subgroups over a Certain Averaging Operator	2020	IEEE Access	8		205014	205021
877	Awais M., Saeed M.Y., Malik M.S.A., Younas M., Asif S.R.I.	Intention based comparative analysis of human-robot interaction	2020	IEEE Access	8		205821	205835
878	Alam T.M., Shaukat K., Hameed I.A., Luo S., Sarwar M.U., Shabbir S., Li J., Khushi M.	An investigation of credit card default prediction in the imbalanced datasets	2020	IEEE Access	8		201173	201198
879	Ali A., Hussain M., Ali Z., Ul Rahman J., Hussan M.	Parallel performance analysis and numerical simulation of magnetic nanoparticles transportation and blood flow pattern in capillaries	2020	IEEE Access	8		195021	195029
880	Sharif M., Amin J., Siddiqa A., Khan H.U., Malik M.S.A., Anjum M.A., Kadry S.	Recognition of different types of leukocytes using YOLOv2 and optimized bag-of-features	2020	IEEE Access	8		167448	167459

881	Rasool B., Nabi Z., Bodlah M.A., Afzal N., Samiullah K., Rasool A., Rasool R.	Host food preference, screening and phylogenetic analysis of Wolbachia in Myzus persicae populations	2020	Asian Journal of Agriculture and Biology	8	4	447	456
882	Bodlah M.A., Niaz Y., Rasheed M.T., Gull e Fareen A., Nawaz M., Ikram K., Waqas M.M., Rasool B., Bodlah I.	Contribution to non-Apis bee fauna of family Apidae (Hymenoptera) from Layyah, Punjab, Pakistan	2020	Asian Journal of Agriculture and Biology	8	4	428	435
883	Umber S., Ghauri M.J.	Representation of islam and muslims in the australian newspapers: Exploring the predominant discourses	2020	Journal of Islamic Thought and Civilization	10	2	127	146
884	Shah S.A., Mehmood M.H., Khan M., Bukhari I.A., Alorainey B.I., Vohra F.	Inhibition of soluble epoxide hydrolase offers protection against fructose-induced diabetes and related metabolic complications in rats	2020	Journal of Physiology and Pharmacology	71	5	615	624

885	Dustigeer G., Ali H., Imran Khan M., Chu Y.- M.	On multiplicative degree based topological indices for planar octahedron networks	2020	Main Group Metal Chemistry	43	1	219	228
886	Kashuri A., Awan M.U., Noor M.A.	Fractional integral identity, estimation of its bounds and some applications to trapezoidal quadrature rule	2020	Filomat	34	8	2629	2641
887	Kaloom H., Latif M.A., Rashid S., Baleanu D., Chu Y.-M.	New (p, q)-estimates for different types of integral inequalities via $(\hat{I}^\pm, m)$ -convex mappings	2020	Open Mathematics	18	1	1830	1854
888	Arif M., Raza M., Haq M.U., Srivastava G.	RELATIONSHIP OF THE BERNARDI INTEGRAL OPERATOR WITH CERTAIN CLASSES OF ANALYTIC FUNCTIONS	2020	Miskolc Mathematical Notes	21	2	575	592
889	Riaz A., Rasul A., Kanwal N., Hussain G., Shah M.A., Sarfraz I., Ishfaq R., Batool R., Rukhsar F., Adem A.	Germacrone: A potent secondary metabolite with therapeutic potential in metabolic diseases, cancer and viral infections	2020	Current Drug Metabolism	21	14	1079	1090

890	Din M.U., Raza M., Deniz E.	Univalence criteria for general integral operators involving normalized dini functions	2020	Filomat	34	7	2203	2216
891	Zahra N., Raza Z.A., Mahmood S.	Effect of Salinity Stress on Various Growth and Physiological Attributes of Two Contrasting Maize Genotypes	2020	Brazilian Archives of Biology and Technology	63			
892	Deng Y., Awan M.U., Talib S., Noor M.A., Noor K.I., Mohammed P.O., Wu S.	Inequalities for Estimations of Integrals Related to Higher-Order Strongly n -Polynomial Preinvex Functions	2020	Journal of Mathematics	2020			
893	Farooq U., Ahmed J., Ashfaq K., Hassan Khan G.U., Khan S.	National culture and firm financial performance: A mediating role of firm financing decision	2020	Cogent Business and Management	7	1		
894	Khan M.I., Nazeer M., Shehzad N., Saleem A., Ahmad F.	Scrutiny of entropy optimized tangent hyperbolic fluid (non-Newtonian) through perturbation and numerical methods between heated plates	2020	Advances in Mechanical Engineering	12	12		
895	Maqsood Q., Abbas R.N., Iqbal M.A., Serap K.A., Iqbal A., Sabagh A.E.	Overviewing of weed management practices to reduce weed seed bank and to increase maize yield	2020	Planta Daninha	38		1	10

896	Khan Z.A., Ahmad H., Rashid S., Kaynak K., Wang M.-K.	Some Nonlinear Integral Inequalities Connected with Retarded Terms on Time Scales	2020	Journal of Function Spaces	2020			
897	Binyamin M.A., Aslam S., Mehmood K., Mahmood H., Ishaq M.	Recognition of contact map germs from the plane to the plane by invariants	2020	Comptes Rendus de L'Academie Bulgare des Sciences	73	6	758	766
898	Hetta H.F., Meshaal A.K., Algammal A.M., Yahia R., Makharita R.R., Marraiki N., Shah M.A., Hassan H.-A.M., Batiha G.E.-S.	In-vitro antimicrobial activity of essential oils and spices powder of some medicinal plants against bacillus species isolated from raw and processed meat	2020	Infection and Drug Resistance	13		4367	4378
899	Imtiaz A., Shuaib U., Alolaiyan H., Razaq A., Gulistan M.	On structural properties of $\hat{I}\mathbb{I}$ -complex fuzzy sets and their applications	2020	Complexity	2020			
900	Ijaz M.U., Khan M.A., Yousaf S., Nasir S., Naz H., Anwar H., Younis T., Samad A.	Methanolic extract of fraxinus xanthoxyloides attenuates cisplatin-induced reproductive toxicity in male albino rats	2020	Pakistan Veterinary Journal	40	4	489	493
901	Abbas R.Z., Zaman M.A., Sindhu Z.U.D., Sharif M., Rafique A., Saeed Z., ur Rehman T., Siddique F., Zaheer T., Khan M.K., Akram M.S., Chattha A.J.,	Anthelmintic effects and toxicity analysis of herbal dewormer against the infection of haemonchus contortus and fasciola hepatica in goat	2020	Pakistan Veterinary Journal	40	4	455	460

	Fatima U., Munir T., Ahmad M.							
902	Rashid H., Hussain Z., Ishtiaq S.M., Rasheed M.U., Faisal M.N., Aslam B., Muhammad F., Babar W., Abbas R.Z., Khan J.A.	Prebiotics supplementation ameliorates high fat high sugar diet-associated oxidative stress	2020	Pakistan Veterinary Journal	40	4	467	473
903	Ashraf J., Ali S., Nawaz M.A., Ghufra M.	Tourist intentions to visit or revisit archaeological sites in Pakistan	2020	Asian Journal of Social Science	48	45418	588	617
904	Ullah H., Ullah A., Raziq A., Lateef M., Khan N.M., Khan M.W.	Role of phytochemicals in regulation of cancer cells: A comprehensive literature review	2020	Annals of Cancer Research and Therapy	28	2	143	151
905	Bilal M., Iqbal M.S., Iqbal M.H., Sardar N., Akmal W., Sultan R., Qamar S.A.	Function and mechanism of angiotensin-converting enzyme-2 receptor to transport sars-cov-2 into the host cells•a review	2020	Journal of Experimental Biology and Agricultural Sciences	8	Special Issue 1	S190	S201

906	Younas M., Jawawi D.N.A., Shah M.A., Mustafa A., Awais M., Ishfaq M.K., Wakil K.	Elicitation of Nonfunctional Requirements in Agile Development Using Cloud Computing Environment	2020	IEEE Access	8		209153	209162
907	Rehman W.U., Bhatti A.R., Awan A.B., Sajjad I.A., Khan A.A., Bo R., Haroon S.S., Amin S., Tlili I., Oboreh-Snapps O.	The penetration of renewable and sustainable energy in Asia: A state-of-the-art review on net-metering	2020	IEEE Access	8		170364	170388
908	Alghazzawi D., Hanoon W.H., Gulzar M., Abbas G., Kausar N.	Certain properties of-fuzzy subrings	2020	Indonesian Journal of Electrical Engineering and Computer Science	21	2	822	828
909	Saeed M.Y., Awais M., Talib R., Younas M.	Unstructured Text Documents Summarization with Multi-Stage Clustering	2020	IEEE Access	8		212838	212854
910	Rasheed A., Zafar B., Rasheed A., Ali N., Sajid M., Dar S.H., Habib U., Shehryar T., Mahmood M.T.	Fabric Defect Detection Using Computer Vision Techniques: A Comprehensive Review	2020	Mathematical Problems in Engineering	2020			

911	Hussain S.M., Hussain T., Faryad M., Ali Q., Ali S., Rizwan M., Hussain A.I., Ray M.B., Chatha S.A.S.	Emerging aspects of photo-catalysts (TiO ₂ & ZnO) doped zeolites and advanced oxidation processes for degradation of Azo dyes: A review	2020	Current Analytical Chemistry	17	1	82	97
912	Khurshid M., Rashid A., Husnain M., Rasool M.H., Waqas U., Saeed M., Naeem M., Sohail M.	IN-VITRO ASSESSMENT OF THE THERAPEUTIC POTENTIAL OF POLYMYXINS AND TIGECYCLINE AGAINST MULTIDRUGRESISTANT ACINETOBACTER ISOLATES FROM INFECTED WOUNDS	2020	Journal of Ayub Medical College	32	4	459	464
913	Chu Y.-M., Awan M.U., Talib S., Iftikhar S., Riahi L.	Some New Postquantum Integral Inequalities	2020	Journal of Mathematics	2020			
914	Saleem U., Ahmad N., Shah M.A., Anwar F., Ahmad B.	Anti-urolithiatic activity of salvia hispanica L. Seeds in ethylene glycol induced urolithiasis rat's model	2020	Anais da Academia Brasileira de Ciencias	92	4	1	12
915	Shuaib U., Alolaiyan H., Razaq A., Dilbar S., Tahir F.	On some algebraic aspects of $\hat{I}$ -intuitionistic fuzzy subgroups	2020	Journal of Taibah University for Science	14	1	463	469

916	Gulzar M., Alghazzawi D., Mateen M.H., Kausar N.	A certain class of T-intuitionistic fuzzy subgroups	2020	IEEE Access	8		163260	163268
917	Gulzar M., Mateen M.H., Alghazzawi D., Kausar N.	A Novel Applications of Complex Intuitionistic Fuzzy Sets in Group Theory	2020	IEEE Access	8		196075	196085
918	Zaman T., Iqbal A., Shaukat A., Nazir R., Pervez A., Bilal M., Faridullah, Rizwan M., Ali S., Alkahtani S., Abdel- Daim M.M., Hafeez F.	Assessing the n cycling ecosystem function-processes and the involved functional guilds upon plant litter amendment in lower himalaya	2020	Polish Journal of Environmental Studies	30	1	917	926
919	Zhao L., Mustapha O., Shafique S., Jamshaid T., Din F.U., Mehmood Y., Anwer K., Yousafi Q.U.A., Hussain T., Khan I.U., Ghori M.U., Shahzad Y., Yousaf A.M.	Electrospun gelatin nanocontainers for enhanced biopharmaceutical performance of piroxicam: In vivo and in vitro investigations	2020	International Journal of Nanomedicine	15		8819	8828
920	Arshad H.M., Saleem K., Shafi S., Ahmad T., Kanwal S.	Environmental awareness, concern, attitude and behavior of university students: A comparison across academic disciplines	2020	Polish Journal of Environmental Studies	30	1	561	570

921	Rashid S., Ashraf R., Nisar K.S., Abdeljawad T.	Estimation of Integral Inequalities Using the Generalized Fractional Derivative Operator in the Hilfer Sense	2020	Journal of Mathematics	2020			
922	Rashid S., Ahmad H., Khalid A., Chu Y.-M.	On Discrete Fractional Integral Inequalities for a Class of Functions	2020	Complexity	2020			
923	Ali Z., Hussain I., Nazeer A., Faisal M., Ismail M., Qamar S., Grzegorzczk M., Zahid F.M., Ni G.	Measuring and restructuring the risk in forecasting drought classes: an application of weighted Markov chain based model for standardised precipitation evapotranspiration index (SPEI) at one-month time scale	2020	Tellus, Series A: Dynamic Meteorology and Oceanography	72	1	1	10
924	Tufail A., Aqeel M., Khalid N., Ahsan M., Khilji S.A., Ahmad F., Hameed M., Noman A., Alamri S., Hashem M.	Salt toxicity in a natural habitat induces structural and functional modifications and modulate metabolism in Bermuda grass (Cynodon dactylon [L.] pers.) ecotypes	2020	Applied Ecology and Environmental Research	18	5	6569	6588
925	Baig S.A., Abrar M., Batool A., Hashim M., Shabbir R.	Barriers to the adoption of sustainable supply chain management practices: Moderating role of firm size	2020	Cogent Business and Management	7	1		

926	Munir S., Shahid A., Aslam B., Ashfaq U.A., Akash M.S.H., Ali M.A., Almatroudi A., Allemailem K.S., Rajoka M.S.R., Khurshid M.	The Therapeutic Prospects of Naturally Occurring and Synthetic Indole Alkaloids for Depression and Anxiety Disorders	2020	Evidence-based Complementary and Alternative Medicine	2020			
927	Afzaal M., Saeed F., Saeed M., Azam M., Hussain S., Mohamed A.A., Alamri M.S., Anjum F.M.	Survival and stability of free and encapsulated probiotic bacteria under simulated gastrointestinal and thermal conditions	2020	International Journal of Food Properties	23	1	1899	1912
928	Syed Q.A., Rashid Z., Ahmad M.H., Shukat R., Ishaq A., Muhammad N., Rahman H.U.U.	Nutritional and therapeutic properties of fenugreek (Trigonella foenum-graecum): a review	2020	International Journal of Food Properties	23	1	1777	1791
929	Mehmood M.H., Malik A., Akhtar M.S., Haider G., Gilani A.H.	Antihyperglycaemic, antihyperlipidaemic and antihypertensive effect of a polyherbal formulation in alloxan- induced diabetic rats	2020	Farmacia	68	5	882	890
930	Kiran S., Hassan A., Adeel S., Qayyum M.A., Yousaf M.S., Abdullah M., Habib N.	Green dyeing of microwave treated silk using coconut coir based tannin natural dye	2020	Industria Textila	71	3	227	234

931	Rashid S., Baleanu D., Chu Y.-M.	Some new extensions for fractional integral operator having exponential in the kernel and their applications in physical systems	2020	Open Physics	18	1	478	491
932	Arif M., Umar S., Raza M., Bulboacă T., Farooq M.U., Khan H.	On fourth hankel determinant for functions associated with bernoulli's lemniscate	2020	Hacettepe Journal of Mathematics and Statistics	49	5	1777	1787
933	Saleem U., Usman M., Anwar F., Akhtar M.F., Ahmad B.	Pharmacological and toxicological evaluation of two anti-asthmatic polyherbal formulations	2020	Anais da Academia Brasileira de Ciencias	92	3	1	13
934	Qasim N., Shahid M., Yousaf F., Riaz M., Anjum F., Faryad M.A., Shabbir R.	Therapeutic Potential of Selected Varieties of Phoenix Dactylifera L. Against Microbial Biofilm and Free Radical Damage to DNA	2020	Dose-Response	18	4		
935	Hussain I., Rasheed R., Ashraf M.A., Mohsin M., Shah S.M.A., Rashid D.A., Akram M., Nisar J., Riaz M.	Foliar Applied Acetylsalicylic Acid Induced Growth and Key-Biochemical Changes in Chickpea (Cicer arietinum L.) Under Drought Stress	2020	Dose-Response	18	4		

936	Xu J.Z., Raza U., Javed M.W., Hussain Z., Wang S.	Hermite-Hadamard Inequalities for Harmonic s,m-Convex Functions	2020	Mathematical Problems in Engineering	2020			
937	Nazam M., Hashim M., Ahmad Baig S., Abrar M., Ur Rehman H., Nazim M., Raza A.	Categorizing the barriers in adopting sustainable supply chain initiatives: A way-forward towards business excellence	2020	Cogent Business and Management	7	1		
938	Ul Ain H.B., Saeed F., Barrow C.J., Dunshea F.R., Suleria H.A.R.	Food Processing Waste: A Potential Source for Bioactive Compounds	2020	Reference Series in Phytochemistry			1	25
939	Hussain M., Aftab K., Iqbal M., Ali S., Rizwan M., Alkahtani S., Abdel-Daim M.M.	Determination of Pesticide Residue in Brinjal Sample Using HPTLC and Developing a Cost-Effective Method Alternative to HPLC	2020	Journal of Chemistry	2020			
940	Rasul A., Khan M.I., Rehman M.U., Abbas G., Aslam N., Ahmad S., Abbas K., Shah P.A., Iqbal M., Subari A.M.A.A., Shaheer T., Shah S.	In vitro characterization and release studies of combined nonionic surfactant-based vesicles for the prolonged delivery of an immunosuppressant model drug	2020	International Journal of Nanomedicine	15		7937	7949

941	Ahmad S., Mohiuddin E., Shah S.M.A., Akram M., Amjad M., Nisar J., Riaz M., Munir N., Rasool G.	Therapeutic Efficacy of Urinile Against Gouty Arthritis	2020	Dose-Response	18	4		
942	Ilyas M., Ullah Z., Khan F.A., Chaudary M.H., Malik M.S.A., Zaheer Z., Durrani H.U.R.	Trust-based energy-efficient routing protocol for Internet of thingsâ€”based sensor networks	2020	International Journal of Distributed Sensor Networks	16	10		
943	Safeer A.A., He Y., Abrar M.	The influence of brand experience on brand authenticity and brand love: an empirical study from Asian consumersâ€™ perspective	2020	Asia Pacific Journal of Marketing and Logistics	33	5	1123	1138
944	Ranian K., Zahoor M.K., Zahoor M.A., Rizvi H., Rasul A., Majeed H.N., Jabeen F., Sarfraz I., Zulhussnain M., Riaz B., Ullah A.	Evaluation of resistance to some pyrethroid and organophosphate insecticides and their underlying impact on the activity of esterases and phosphatases in house fly, musca domestica (Diptera: Muscidae)	2020	Polish Journal of Environmental Studies	30	1	327	336
945	Tahir S.H., Tahir F., Syed N., Ahmad G., Ullah M.R.	Stock market response to terrorist attacks: An event study approach	2020	Journal of Asian Finance, Economics and Business	7	9	31	37

946	Sikandar S., Zahoor A.F., Ahmad S., Anjum M.N., Ahmad M.N., Shah M.S.U.	L-cysteine catalyzed environmentally benign one-pot multicomponent approach towards the synthesis of dihydropyrano[2,3-c]pyrazole derivatives	2020	Current Organic Synthesis	17	6	457	463
947	Chen S.-B., Rashid S., Noor M.A., Ashraf R., Chu Y.-M.	A new approach on fractional calculus and probability density function	2020	AIMS Mathematics	5	6	7041	7054
948	Riaz M., Aslam N., Zainab R., Aziz-Ur-Rehman, Rasool G., Ullah M.I., Daniyal M., Akram M.	Prevalence, risk factors, challenges, and the currently available diagnostic tools for the determination of helminths infections in human	2020	European Journal of Inflammation	18			
949	Kamboh M.K., Iqbal M.K., Zafar B.	Categorization of urban slums using fuzzy logic system: A theoretical approach	2020	Proceedings of the Pakistan Academy of Sciences: Part A	57	1	7	16
950	Waqas H., Imran M., Muhammad T., Sait S.M., Ellahi R.	On bio-convection thermal radiation in Darcy – Forchheimer flow of nanofluid with gyrotactic motile microorganism under Wu’s slip over stretching cylinder/plate	2020	International Journal of Numerical Methods for Heat and Fluid Flow	31	5	1520	1546
951	Selvam A.G.M., Alzabut J., Dhineshabu R., Rashid S., Rehman M.	Discrete fractional order two-point boundary value problem with some relevant physical applications	2020	Journal of Inequalities and Applications	2020	1		

952	Mahmud F., Lee P.C., Abdul Wahab H., Mustaffa K.M.F., Leow C.H., Azhar R., Lai N.S.	Plasmodium falciparum protein kinase as a potential therapeutic target for antimalarial drugs development	2020	Tropical Biomedicine	37	3	822	841
953	Shahzad M.M., Rafique T., Hussain S.M., Hussain Z., Zahoor M.Y., Hussain M., Rehman R.A., Ahmad N., Liaquat I., Bashir S.	Effect of phytase supplemented moringa by-products based diets on the performance of oreochromis niloticus fingerlings	2020	Journal of Animal and Plant Sciences	31	1	288	295
954	Gulzar M., Alghazzawi D., Haris Mateen M., Premkumar M.	On some characterization of Q-complex fuzzy sub-rings	2020	Journal of Mathematics and Computer Science	22	3	295	305
955	Hussain S.M., Ahmad N., Shahzad M.M., Javid A., Aslam N., Hussain M., Arsalan M.Z.H., Riaz D.	Efficacy of phytase enzyme and citric acid on growth performance, nutrients and mineral digestibility of Cirrhinus mrigala fingerlings fed guar meal-based diet	2020	Iranian Journal of Fisheries Sciences	19	3	1573	1588
956	Perveen S., Hussain S.A.	Methionine-induced changes in growth, glycinebetaine, ascorbic acid, total soluble proteins and anthocyanin contents of two zea mays l. Varieties under salt stress	2020	Journal of Animal and Plant Sciences	31	1	131	142
957	Naz H., Akram N.A., Kong H.	Assessment of secondary metabolism involvement in water stress tolerance of Quinoa (Chenopodium quinoa willd.) subjected to varying water regimes	2020	Pakistan Journal of Botany	52	5	1553	1559

958	Rehman F.-U., Adeel S., Akmal M., Majeed K., Iqbal S.Z., Amin N.	Eco-friendly dyeing of cellulosic fabric using direct red 28 and direct blue 15 dyes	2020	Global Nest Journal	22	2	173	178
959	Yamin M., Bin Wan Ismail W.I., Bin Mohd Kassim M.S., Aziz S.B.A., Akbar F.N., Shamshiri R.R., Ibrahim M., Mahns B.	Modification of colorimetric method based digital soil test kit for determination of macronutrients in oil palm plantation	2020	International Journal of Agricultural and Biological Engineering	13	4	188	197
960	Afzal A., Malik N.	Assessment and factors associated with wasting in under five children in Faisalabad	2020	Rawal Medical Journal	45	3	690	693
961	Iqbal S., Rasheed H., Awan R.J., Awan R.J., Mukhtar A., Moloney M.G.	Recent advances in the synthesis of pyrroles	2020	Current Organic Chemistry	24	11	1196	1229
962	Anjum F., Shahid M., Jilani M.I., Oranab S., Farooq S., Nazir A., Naz S., Iqbal M.	Evaluation of antioxidant potential and cytotoxic behavior of different varieties of allium sativum	2020	Polish Journal of Environmental Studies	29	6	4447	4451

963	Tabassam Q., Mehmood T., Raza A.R., Ullah A., Saeed F., Anjum F.M.	Synthesis, characterization and anti-cancer therapeutic potential of withanolide-a with 20nm saunps conjugates against skbr3 breast cancer cell line	2020	International Journal of Nanomedicine	15		6649	6658
964	Shah S., Ullah M., Chaudhry Z., Ahmed M.M., Aslam A., Abbas G., Khurram H., Chand U.R., Khaliq H.M.E., Riaz N.	A cross sectional survey of health behaviors, self-prescription and care needs among pharmacy students of different institutions of Punjab, Pakistan	2020	Latin American Journal of Pharmacy	39	9	1817	1822
965	Zaman T., Qazi W., Asad S.A., Bilal M., Iqbal A., Nazir R., Hussain S., Irshad M., Hafeez F.	Nitrification resilience and response of ammonia-oxidizing bacteria upon heat-drought extremes across three soil ecosystems in lower Himalaya	2020	International Journal of Agriculture and Biology	24	5	1107	1114
966	Waris M., Nasir S., Rasule A., Yousaf I.	Evaluation of larvicidal efficacy of ricinus communis (castor) plant extract and synthesized green silver nanoparticles against aedes albopictus	2020	Journal of Arthropod-Borne Diseases	14	2	162	172
967	Zhou S.-S., Rashid S., Noor M.A., Noor K.I., Safdar F., Chu Y.-M.	New hermite-hadamard type inequalities for exponentially convex functions and applications	2020	AIMS Mathematics	5	6	6874	6901

968	Ashfaq M., Kousar R., Makhdum M.S.A., Nasir J.	Empirical analysis of livestock productivity through improved breeding in Punjab, Pakistan	2020	Journal of Animal and Plant Sciences	30	6	1642	1652
969	Sohaib M., Zafar M.S., Arshad M.S., Nauman K., Malhi I.Y.	Evaluation of quality and safety attributes of slaughtered versus dead chicken birds meat	2020	Revista Brasileira de Ciencia Avicola / Brazilian Journal of Poultry Science	22	2	1	10
970	Munir S., Shah A.A., Shahid M., Manzoor I., Aslam B., Rasool M.H., Saeed M., Ayaz S., Khurshid M.	Quorum sensing interfering strategies and their implications in the management of biofilm-associated bacterial infections	2020	Brazilian Archives of Biology and Technology	63			
971	Hayat S., Khan A., Malik M.Y.H., Imran M., Siddiqui M.K.	Fault-Tolerant Metric Dimension of Interconnection Networks	2020	IEEE Access	8		145435	145445
972	Kamal S., Zahoor A.F., Ahmad S., Akhtar R., Khaliq I., Qurban W., Mehreen A.	Recent trends in the development of novel catalysts for asymmetric michael reaction	2020	Current Organic Chemistry	24	13	1397	1458

973	Chu Y.-M., Awan M.U., Javad M.Z., Khan A.G.	Bounds for the remainder in simpson's inequality via n-polynomial convex functions of higher order using Katugampola fractional integrals	2020	Journal of Mathematics	2020			
974	Saleem U., Sabir S., Niazi S.G., Naeem M., Ahmad B.	Role of oxidative stress and antioxidant defense biomarkers in neurodegenerative diseases	2020	Critical Reviews in Eukaryotic Gene Expression	30	4	311	322
975	Kausar N., Munir M., Gulzar M., Alesemi M., Salahuddin	Ordered LA-groups and ideals in ordered LA-semigroups	2020	Italian Journal of Pure and Applied Mathematics	44		723	730
976	Kausar N., Munir M., Islam B.U., Alesemi M., Salahuddin, Gulzar M.	Ideals in LA-rings	2020	Italian Journal of Pure and Applied Mathematics	44		731	744
977	Kausar N., Munir M., Islam B.U., Alesemi M., Salahuddin, Gulzar M.	Fuzzy bi-ideals in LA-rings	2020	Italian Journal of Pure and Applied Mathematics	44		745	763
978	Naqvi S.A.A., Makhdum M.S.A., Husain B., Kousar R., Shah S.A.R.	Effects of diabetes on the output of farmer and its policy implications	2020	Kesmas	15	1	1	6

979	Naseer A., Ali A., Ali S., Mahmood A., Kusuma H.S., Nazir A., Yaseen M., Khan M.I., Ghaffar A., Abbas M., Iqbal M.	Biogenic and eco-benign synthesis of platinum nanoparticles (Pt NPs) using plants aqueous extracts and biological derivatives: Environmental, biological and catalytic applications	2020	Journal of Materials Research and Technology	9	4	9093	9107
980	Ahmad H.M., Mahmood-ur-Rahman, Azeem F., Shaheen T., Irshad M.A.	Genome-Wide analysis of long chain Acyl-CoA synthetase (LACS) genes in sunflower (<i>Helianthus annuus</i>) suggests their role in drought stress	2020	International Journal of Agriculture and Biology	24	4	863	870
981	Xuedong G., Qureshi S.H., Ali G., Bhatti A.	Towards an analysis of best teaching technology during corona days	2020	Revista Argentina de Clinica Psicologica	29	4	21	31
982	Iqbal A., Zaman M., Amjad M.W., Adnan S., Raja M.A.G., Rizvi S.F.H., Mustafa M.W., Farooq U., Abbas G., Shah S.	Solid lipid nanoparticles of mycophenolate mofetil: An attempt to control the release of an immunosuppressant	2020	International Journal of Nanomedicine	15		5603	5612
983	Rashid S., Khalid A., Rahman G., Nisar K.S., Chu Y.-M.	On New Modifications Governed by Quantum Hahn's Integral Operator Pertaining to Fractional Calculus	2020	Journal of Function Spaces	2020			
984	Awan M.U., Talib S., Noor M.A., Chu Y.-M., Noor K.I.	Some Trapezium-Like Inequalities Involving Functions Having Strongly n -Polynomial Preinvexity Property of Higher Order	2020	Journal of Function Spaces	2020			

985	Xu L., Chu Y.-M., Rashid S., El-Deeb A.A., Nisar K.S.	On New Unified Bounds for a Family of Functions via Fractional q -Calculus Theory	2020	Journal of Function Spaces	2020			
986	Chaudhry T.H., Aslam B., Arshad M.I., Alvi R.F., Muzammil S., Yasmeen N., Aslam M.A., Khurshid M., Rasool M.H., Baloch Z.	Emergence of bla _{NDM-1} harboring klebsiella pneumoniae st29 and st11 in veterinary settings and waste of pakistan	2020	Infection and Drug Resistance	13		3033	3043
987	Ahmad M.N., Hussain A., Anjum M.N., Hussain T., Mujahid A., Hammad Khan M., Ahmed T.	Synthesis and characterization of a novel chitosan-grafted-polyorthoethylaniline biocomposite and utilization for dye removal from water	2020	Open Chemistry	18	1	843	849
988	Naqvi S.A.Z., Irfan A., Zahoor A.F., Zafar M., Maria A., Chand A.J., Ashfaq S.	Determination of antimicrobial and antioxidant potential of agro-waste peels	2020	Anais da Academia Brasileira de Ciencias	92	2	1	12
989	Maheen S., Rasul A., Khan H.U., Shah M.A., Saadullah M., Siddiqui F.A., Afzal S., Afzal K., Sharif M.	Development and validation of a sensitive HPLC method for the simultaneous estimation of saxagliptin and enalapril in human plasma	2020	Latin American Journal of Pharmacy	39	7	1279	1285

990	Khurshid M., Rasool M.H., Ashfaq U.A., Aslam B., Waseem M., Ali M.A., Almatroudi A., Rasheed F., Saeed M., Guo Q., Wang M.	Acinetobacter baumannii sequence types harboring genes encoding aminoglycoside modifying enzymes and 16srRNA methylase; a multicenter study from Pakistan	2020	Infection and Drug Resistance	13		2855	2862
991	Mustafa G., Anwar S., Joyia F.A., Hayat M.B., Zia M.A., Ghazala, Khan M.S.	Molecular characterization and mycoparasitic aptitude of indigenous biocontrol agent trichoderma harzianum	2020	Journal of Animal and Plant Sciences	30	6	1508	1515
992	Siddique A.B., Rahman S.U., Ulhaq M., Naveed R.	Occurrence, molecular identification and antibiotic resistance profiling of mycoplasma gallisepticum and mycoplasma synoviae from chronic respiratory disease cases in poultry birds and farm environment [Pojavnost, molekularna identifikacija in ugotavljanje odpornosti na antibiotike mikobakterij mycoplasma gallisepticum in mycoplasma synoviae izoliranih iz kokoÅ i s kroniÄEnimi dihalnimi obolenji in iz njihovega bivalne-ga okolja]	2020	Slovenian Veterinary Research	57	2	61	69
993	Haq K.U., Noreen S., Sehgal S.A., Tahir R.A., Essa A., Ihsan A., Hassan M.U., Iqbal W., Hussain M., Hussain H., Siraj S.	Association of virulence genes with antibiotic resistance in pakistani uropathogenic e. coli isolates	2020	Combinatorial Chemistry and High Throughput Screening	23	6	517	524

994	Anjum M.A., Amin J., Sharif M., Khan H.U., Malik M.S.A., Kadry S.	Deep Semantic Segmentation and Multi-Class Skin Lesion Classification Based on Convolutional Neural Network	2020	IEEE Access	8		129668	129678
995	Sharif A., Tabassum T., Riaz M., Akram M., Munir N.	Cytomorphological patterns of palpable breast lesions diagnosed on fine needle aspiration cytology in females	2020	European Journal of Inflammation	18			
996	Malik N.S., Ahmad M., Minhas M.U., Tulain R., Khalid I., Barkat K., Rashid A.	Toxicological evaluation of xanthan gum based hydrogel formulation in wistar rats using single dose study	2020	Acta Poloniae Pharmaceutica - Drug Research	77	2	353	360
997	Shen J.-M., Rashid S., Noor M.A., Ashraf R., Chu Y.-M.	Certain novel estimates within fractional calculus theory on time scales	2020	AIMS Mathematics	5	6	6073	6086
998	Ge-Jile H., Rashid S., Noor M.A., Suhail A., Chu Y.-M.	Some unified bounds for exponentially TGS-convex functions governed by conformable fractional operators	2020	AIMS Mathematics	5	6	6108	6123

999	Noor S., Rasul A., Iqbal M.S., Ahmed B., Akash M.S.H., Qadir M.I.	Inhibition of hepatitis B virus with the help of CRISPR/Cas9 technology	2020	Critical Reviews in Eukaryotic Gene Expression	30	3	273	278
1000	Mohsin N.U.A., Ahmad M.	Donepezil: A review of the recent structural modifications and their impact on anti-alzheimer activity	2020	Brazilian Journal of Pharmaceutical Sciences	56		1	16
1001	Aftab K., Hameed S., Umbreen H., Ali S., Rizwan M., Alkahtani S., Abdel-Daim M.M.	Physicochemical and Functional Potential of Hydrocolloids Extracted from Some Solanaceae Plants	2020	Journal of Chemistry	2020			
1002	Wu S., Awan M.U., Javed Z.	Estimates of Upper Bound for Differentiable Functions Associated with k -Fractional Integrals and Higher Order Strongly s -Convex Functions	2020	Journal of Function Spaces	2020			
1003	Ul Haq M.E., Akash M.S.H., Rehman K., Mahmood M.H., Murtaza G.	Exposure of bisphenol a in experimental rats: Evidences from biochemical analysis and histopathological examination	2020	Latin American Journal of Pharmacy	39	7	1357	1361
1004	Saeed M., Hussain S., Riaz S., Rasheed F., Ahmad M., Iram S., Arif M., Rahmani T.H., Anwar A.I.	Genexpert technology for the diagnosis of hiv-associated tuberculosis: is scale-up worth it?	2020	Open Life Sciences	15	1	458	465

1005	Shahnaz M.M., Iqbal M., Akhter N.	Tissue-specific modulation of metabolism and nutrients acquisition through seed priming with sodium selenate confers salt tolerance in wheat	2020	Archives of Agronomy and Soil Science			1	14
1006	Javed M., Irfan M.	A simulation study: new optimal estimators for population mean by using dual auxiliary information in stratified random sampling	2020	Journal of Taibah University for Science	14	1	557	568
1007	Akhtar M., Sarwar N., Ashraf A., Ejaz A., Ali S., Rizwan M.	Beneficial role of Azolla sp. in paddy soils and their use as bioremediators in polluted aqueous environments: implications and future perspectives	2020	Archives of Agronomy and Soil Science			1	14
1008	Iqbal D.N., Nazir A., Iqbal M., Yameen M.	Green synthesis and characterization of carboxymethyl guar gum: Application in textile printing technology	2020	Green Processing and Synthesis	9	1	212	218
1009	Siddique N., Imran M., Khan K.A., Pečarić J.	Majorization inequalities via Green functions and Fink's identity with applications to Shannon entropy	2020	Journal of Inequalities and Applications	2020	1		
1010	Rashid S., Hammouch Z., Jarad F., Chu Y.-M.	New estimates of integral inequalities via generalized proportional fractional integral operator with respect to another function	2020	Fractals	28	8		

1011	Anjum N., He J.-H.	Nonlinear dynamic analysis of vibratory behavior of a graphene nano/microelectromechanical system	2020	Mathematical Methods in the Applied Sciences				
1012	Shuaib U., Amin M., Dilbar S., Tahir F.	On algebraic attributes of $\frac{1}{4}$ -intuitionistic fuzzy subgroups	2020	International Journal of Mathematics and Computer Science	15	1	395	411
1013	Khalid N., Noman A., Masood A., Tufail A., Hadayat N., Alnusairi G.S.H., Alamri S., Hashem M., Aqeel M.	Air pollution on highways and motorways perturbs carbon and nitrogen levels in roadside ecosystems	2020	Chemistry and Ecology			868	880
1014	Hameed M., Rasul A., Nazir A., Yousaf A.M., Hussain T., Khan I.U., Abbas G., Abid S., Yousafi Q.U.A., Ghorri M.U., Shahzad Y.	Moxifloxacin-loaded electrospun polymeric composite nanofibers-based wound dressing for enhanced antibacterial activity and healing efficacy	2020	International Journal of Polymeric Materials and Polymeric Biomaterials			1	9
1015	Hafeez A., Shah S.A.A., Khan R.U., Ullah Q., Naz S.	Effect of diet supplemented with phytogenics and protease enzyme on performance, serum biochemistry and muscle histomorphology in broilers	2020	Journal of Applied Animal Research	48	1	326	330

1016	Ul Ain Q., Zia M.A., Asghar N., Saleem A.	Analysis of Variant Data Mining Methods for Depiction of Fraud	2020	Advances in Intelligent Systems and Computing	1190 AISC		423	432
1017	Hanif M., Shah S., Rasul A., Abbas G., Zaman M., Amjad M.W., Raja M.A.G., Khan H.U., Ashfaq M., Iqbal O.	Enhancement of oral bioavailability of ibandronate through gastroretentive raft forming drug delivery system: In vitro and in vivo evaluation	2020	International Journal of Nanomedicine	15		4847	4858
1018	Hassan S., Imran M., Ahmad M.H., Khan M.I., XU C., Khan M.K., Muhammad N.	Phytochemical characterization of ultrasound-processed sorghum sprouts for the use in functional foods	2020	International Journal of Food Properties	23	1	853	863
1019	Ahmad Z., Hafeez A., Ullah Q., Naz S., Khan R.U.	Protective effect of Aloe vera on growth performance, leucocyte count and intestinal injury in broiler chicken infected with coccidiosis	2020	Journal of Applied Animal Research	48	1	252	256
1020	Shahbaz M., Gao C., Zhai L., Shahzad F., Abbas A., Zahid R.	Investigating the impact of big data analytics on perceived sales performance: The mediating role of customer relationship management capabilities	2020	Complexity	2020			
1021	Anjum N., He J.-H.	Homotopy perturbation method for N/MEMS oscillators	2020	Mathematical Methods in the Applied Sciences				

1022	Ashraf R., Habib M.A., Akram M., Latif M.A., Malik M.S.A., Awais M., Dar S.H., Mahmood T., Yasir M., Abbas Z.	Deep Convolution Neural Network for Big Data Medical Image Classification	2020	IEEE Access	8		105659	105670
1023	Tarasenko I.A., Zin'Kov A.V., Kholodov A.S., Riaz M., Petukhov V.I., Popov N.Y., Tsatsakis A., Golokhvast K.S.	Concentrating Mill Wastes are the Source of Pollution of Human Environment and Natural Ecosystems with Heavy Metals: A Case Study in Primorsky Krai, Russian Federation	2020	Journal of Chemistry	2020			
1024	GÃ¼rbÃ¼z M., Akdemir A.O., Rashid S., Set E.	Hermiteâ€™Hadamard inequality for fractional integrals of Caputoâ€™Fabrizio type and related inequalities	2020	Journal of Inequalities and Applications	2020	1		
1025	Rashid S., Akdemir A.O., Nisar K.S., Abdeljawad T., Rahman G.	New generalized reverse Minkowski and related integral inequalities involving generalized fractional conformable integrals	2020	Journal of Inequalities and Applications	2020	1		
1026	Irfan M., Inam-Ur-Raheem M., Aadil R.M., Nadeem R., Shabbir U., Javed A.	Impact of different cut types on the quality of fresh-cut potatoes during storage [Impacto de tipos diferentes de cortes na qualidade de batata crua durante estocagem]	2020	Brazilian Journal of Food Technology	23			

1027	Tariq M., Anayat A., Waseem M., Rasool M.H., Zahoor M.A., Ali S., Rizwan M., Abdel-Daim M.M., Alkahtani S.	Physicochemical and Bacteriological Characterization of Industrial Wastewater Being Discharged to Surface Water Bodies: Significant Threat to Environmental Pollution and Human Health	2020	Journal of Chemistry	2020			
1028	Abbas S.A., Rehman A.U., Majeed F., Majid A., Malik M.S.A., Kazmi Z.H., Zafar S.	Performance Analysis of Classification Algorithms on Birth Dataset	2020	IEEE Access	8		102146	102154
1029	Naqvi S.F.H., Husnain M.	Betalains: Potential drugs with versatile phytochemistry	2020	Critical Reviews in Eukaryotic Gene Expression	30	2	169	189
1030	Shuaib U., Razaq A., Alolaiyan H., Saif M.S., Rafiq A.	On $\hat{I}^{\alpha}$ -Interval Valued Fuzzification of Lagrange's Theorem of $\hat{I}^{\alpha}$ -Interval Valued Fuzzy Subgroups	2020	IEEE Access	8		96261	96270
1031	Awan M.U., Akhtar N., Kashuri A., Noor M.A., Chu Y.-M.	2d approximately reciprocal $\hat{I}^{\alpha}$ -convex functions and associated integral inequalities	2020	AIMS Mathematics	5	5	4662	4680
1032	Rahman G., Nisar K.S., Rashid S., Abdeljawad T.	Certain Grüss-type inequalities via tempered fractional integrals concerning another function	2020	Journal of Inequalities and Applications	2020	1		

1033	Gui-Juan S., Chun-Hui Y., Akram Z., Tanveer Y.	Key factors of university influences in Chinese society: A study based on the DANP method	2020	Human Systems Management	39	2	169	181
1034	Mumtaz M., Saleem S., Sattar A., Waheed A., Jahan S., Gill M.	Identification of serotypes of non-typeable group B streptococci by polymerase chain reaction	2020	Pakistan Journal of Medical and Health Sciences	14	1	338	340
1035	Ahmad R.S., Hussain M.B., Sultan M.T., Arshad M.S., Waheed M., Shariati M.A., Plygun S., Hashempur M.H.	Biochemistry, Safety, Pharmacological Activities, and Clinical Applications of Turmeric: A Mechanistic Review	2020	Evidence-based Complementary and Alternative Medicine	2020			
1036	Ali B., Ahmed F., Shafiq N., Nasrula M.	Optimization of conditions for the synthesis and oxidation of 5,8-dimethoxy-2-methyl-3,4-dihydroisoquinolin-1(2H)-one into novel 2-methylisoquinoline-1,5,8(2H)-trione	2020	Orbital	12	1	30	33
1037	Farooq R., Hafeez M.A., Oneeb M., Rafique A., Ashraf K., Aslam F., Rauf N., Khalid K., Bilal F., Mahmood S., Sattar A.	Molecular characterization and phylogenetic analysis of babesia species isolated from domestic cattle	2020	Pakistan Veterinary Journal	40	2	224	228
1038	Shahzad A., Kashif M., Fatima A., He M.-G.	Wave analysis of Yukawa liquids and solids using molecular dynamics simulations	2020	Proceedings of 2020 17th International Bhurban Conference on Applied Sciences and Technology, IBCAST			477	480

				2020				
1039	Ijaz M.U., Tahir A., Samad A., Ashraf A., Ameen M., Imran M., Yousaf S., Sarwar N.	Casticin alleviates testicular and spermatological damage induced by cisplatin in rats	2020	Pakistan Veterinary Journal	40	2	234	238
1040	Nawaz Z., Rasool M.H., Siddique A.B., Zahoor M.A., Naz A., Ali S., Mukhtar M.U.	Frequency and molecular detection of giardia intestinalis in children attending pediatrics of punjab, pakistan	2020	Jundishapur Journal of Microbiology	13	1		
1041	Zhou S.-S., Rashid S., Dragomir S.S., Latif M.A., Akdemir A.O., Liu J.-B.	Some New Inequalities Involving-Fractional Integral for Certain Classes of Functions and Their Applications	2020	Journal of Function Spaces	2020			
1042	Hussain Z., Talib S.	A note on the paper “Best constants for the Hardy-Littlewood maximal operator on finite graphs”	2020	Hacettepe Journal of Mathematics and Statistics	49	2	498	504

1043	Saleem K., Rasheed N., Zonain M., Muneer S., Bhatti A.R., Amjad M.	Green Computing: A Contribution Towards Better Future	2020	Communications in Computer and Information Science	1198		663	674
1044	Ul Rahman J., Ali A., Ur Rehman M., Kazmi R.	A Unit Softmax with Laplacian Smoothing Stochastic Gradient Descent for Deep Convolutional Neural Networks	2020	Communications in Computer and Information Science	1198		162	174
1045	Ali A., Kazmi R.	High Performance Simulation of Blood Flow Pattern and Transportation of Magnetic Nanoparticles in Capillaries	2020	Communications in Computer and Information Science	1198		222	236
1046	Shah M.A., Jawawi D.N.A., Isa M.A., Younas M., Mustafa A.	Adopting the appropriate performance measures for soft computingbased estimation by analogy	2020	International Journal on Advanced Science, Engineering and Information Technology	10	2	629	634
1047	Asad F., Anwar H., Yassine H.M., Ullah M.I., Aziz-Ul-rahman, Kamran Z., Sohail M.U.	White button mushroom, agaricus bisporus (Agaricomycetes), and a probiotics mixture supplementation correct dyslipidemia without influencing the colon microbiome profile in hypercholesterolemic rats	2020	International Journal of Medicinal Mushrooms	22	3	235	244

1048	Naqvi S.A.R., Ali S., Sherazi T.A., Haq A.-U., Saeed M., Sulman M., Rizwan M., Alkahtani S., Abdel-Daim M.M.	Antioxidant, Antibacterial, and Anticancer Activities of Bitter Gourd Fruit Extracts at Three Different Cultivation Stages	2020	Journal of Chemistry	2020			
1049	Sift B., Naeem Aamir M., Shahiq U.-Z., Masood U.-R., Liaqat A., Khaleeq A., Hina H.	Formulation of adapalene emulgel and its optimization for its potential topical application	2020	Latin American Journal of Pharmacy	39	4	694	700
1050	Ashfaq U.A., Khalid H.	CRISPR/CAS9-mediated antiviral activity: A tool to combat viral infection	2020	Critical Reviews in Eukaryotic Gene Expression	30	1	45	56
1051	Ahmed U., Petri I., Rana O., Raza I., Hussain S.A.	Federating Cloud Systems for Collaborative Construction and Engineering	2020	IEEE Access	8		79908	79919
1052	Fu Y., Yang J., Fan S., Zhao S., Shah S.M.A., Akram M., Rong R., Yang Y.	A Novel Strategy Facilitates Reference Gene Selection by RT-qPCR Analysis in Kidney Yang Deficiency Syndrome Mice Infected with the Influenza A (H1N1) Virus	2020	BioMed Research International	2020			
1053	Awan M.U., Talib S., Chu Y.-M., Noor M.A., Noor	Some New Refinements of Hermite-Hadamard-Type Inequalities Involving $\tilde{I}^k$ -Riemann-Liouville Fractional	2020	Mathematical Problems in	2020			

	K.I.	Integrals and Applications		Engineering				
1054	Hafeez S., Shahid M.R., Sohail A., Jabbar S., Suleman M., Zafar M.	Blockchain based Competent Consensus Algorithm for Secure Authentication in Vehicular Networks	2020	2020 3rd International Conference on Computing, Mathematics and Engineering Technologies: Idea to Innovation for Building the Knowledge Economy, iCoMET 2020				
1055	Khan J., Malik M., Saleem S.	The Impact of Psychological Empowerment of Project-Oriented Employees on Project Success: A Moderated Mediation Model	2020	Economic Research-Ekonomska Istrazivanja	33	1	1311	1329
1056	Razaq A., Alolaiyan H., Ahmad M., Yousaf M.A., Shuaib U., Aslam W., Alawida M.	A Novel Method for Generation of Strong Substitution-Boxes Based on Coset Graphs and Symmetric Groups	2020	IEEE Access	8		75473	75490
1057	Younas M., Bari M.W.	The relationship between talent management practices and retention of generation â€™ employees: mediating role of competency development	2020	Economic Research-Ekonomska Istrazivanja	33	1	1330	1353
1058	Siddique M.H., Aslam B., Imran M., Ashraf A., Nadeem H., Hayat S.,	Effect of Silver Nanoparticles on Biofilm Formation and EPS Production of Multidrug-Resistant Klebsiella pneumoniae	2020	BioMed Research International	2020			

	Khurshid M., Afzal M., Malik I.R., Shahzad M., Qureshi U., Khan Z.U.H., Muzammil S.							
1059	Anwar I., Ashfaq U.A., Shokat Z.	Therapeutic potential of umbilical cord stem cells for liver regeneration	2020	Current Stem Cell Research and Therapy	15	3	219	232
1060	Bilal M., Fatima S., Ishtiaq M., Azeem H.M.	Factors affecting the choice of Islamic banking by SMEs in Pakistan: Implications for Islamic banks' corporate governance	2020	Pakistan Journal of Commerce and Social Sciences	14	1	255	272
1061	Naeem Aamir M., Qadeer A., Masood-Ur R., Shahiq-Uz Z., Liaqat A., Khaleeq A., Atif U., Saba J.	Formulation design and characterization of fast disintegrating tablets of an antipsychotic drug	2020	Latin American Journal of Pharmacy	39	5	980	985
1062	Awan M.U., Akhtar N., Iftikhar S., Noor M.A., Chu Y.-M.	New Hermiteâ€“Hadamard type inequalities for n-polynomial harmonically convex functions	2020	Journal of Inequalities and Applications	2020	1		
1063	Shah S., Hanif M., Rasool N., Javed S., Chauhdary Z., Rashid Khan M., Abbas N., Rehman A.U., Ghani F., Sadam Ali Shah S., Abbas G., Ishfaq M.,	Estimation of pectin in raft forming pharmaceuticals by high performance liquid chromatography method	2020	Latin American Journal of Pharmacy	39	5	904	909

	Mehmood Khan S., Masood Ahmed M.							
1064	Shah S., Abbas G., Rehman A.U., Chauhdary Z., Javed S., Aslam A., Shah M.A., Rashid Khan M., Kazmi A., Noureen S.	Exploring the knowledge and self-prescription with antibiotics in Punjab, Pakistan	2020	Latin American Journal of Pharmacy	39	5	869	873
1065	Arshad M., Rahman A., Qayyum A., Hussain K., Asaf Khan M., Hussain T., Abbas M., Abbas Shar G., Kashif Zahoor M., Nazir A., Iqbal M.	Environmental applications and bio-profiling of tribulus terrestris: An ecofriendly approach	2020	Polish Journal of Environmental Studies	29	4	2981	2986
1066	Qureshi H., Anwar T., Fatima S., Akhtar S., Khan S., Waseem M., Mohibullah M., Shirani M., Riaz S., Azeem M.	Invasion impact analysis of broussonetia papyrifera in Pakistan	2020	Polish Journal of Environmental Studies	29	4	2825	2831
1067	Mazhar S.F., Afzal M., Almatroudi A., Munir S., Ashfaq U.A., Rasool M., Raza H., Munir H.M.W., Rajoka M.S.R., Khurshid M.	The Prospects for the Therapeutic Implications of Genetically Engineered Probiotics	2020	Journal of Food Quality	2020			

1068	Yeung A.W.K., Orhan I.E., Aggarwal B.B., Battino M., Belwal T., Bishayee A., Daglia M., Devkota H.P., El-Demerdash A., Balacheva A.A., Georgieva M.G., Gupta V.K., HorbaÅ„czuk J.O., JÅ³Å¸wik A., Mozos I., Nabavi S.M., Pittala V., Feder-Kubis J., Silva A.S., Sheridan H., Sureda A., Wang D., Weissig V., Yang Y., Zengin G., Shanker K., Moosavi M.A., Shah M.A., Al-Rimawi F., Durazzo A., Lucarini M., Souto E.B., Santini A., Djilianov D., Das N., Skotti E.P., Wieczorek A., Lysek-Gladysinska M., Michalczuk M., SieroÅ„ D., Horbanczuk O.K., Tzvetkov N.T., Atanasov A.G.	Berberine, a popular dietary supplement for human and animal health: Quantitative research literature analysis â€” a review	2020	Animal Science Papers and Reports	38	1	5	19
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1069	Akram M., Riaz M., Wadood A.W.C., Hazrat A., Mukhtiar M., Ahmad Zakki S., Daniyal M., Shariati M.A., Said Khan F., Zainab R.	Medicinal plants with anti-mutagenic potential	2020	Biotechnology and Biotechnological Equipment	34	1	309	318
1070	Anjum N., Ain Q.T.	Application of He's fractional derivative and fractional complex transform for time fractional Camassa-Holm equation	2020	Thermal Science	24		3023	3030
1071	Idrees N., Saif M.J., Nasir S., Farooq F.B., Rauf A., Ashfaq F.	Omega, Sadhana, and PI Polynomials of Quasi-Hexagonal Benzenoid Chain	2020	Journal of Analytical Methods in Chemistry	2020			
1072	Rehman F., Munawar A., Iftikhar A., Hassan J., Samiullah F., Gilani M.B.A., Qasim A., Qasim N.	Design and development of ai-based mirror neurons agent towards emotion and empathy	2020	International Journal of Advanced Computer Science and Applications	11	3	386	395
1073	Hussain S., Maqbool Z., Shahid M., Shahzad T., Muzammil S., Zubair M., Iqbal M., Ahmad I., Imran M., Ibrahim M., Mahmood F.	Simultaneous removal of reactive dyes and hexavalent chromium by a metal tolerant pseudomonas sp. WS-D/183 harboring plant growth promoting traits	2020	International Journal of Agriculture and Biology	23	2		

1074	Shahid M.Z., Imran M., Khan M.K., Ahmad M.H., Nadeem M., Muhammad N., Yasmin A.	OMEGA-3 Fatty Acids Retention, Oxidative Quality, and Sensoric Acceptability of Spray-Dried Flaxseed Oil	2020	Journal of Food Quality	2020			
1075	Wasim I., Abbas M., Iqbal M.K., Hayat A.M.	Exponential B-spline collocation method for solving the generalized Newell-Whitehead-Segel equation	2020	Journal of Mathematics and Computer Science	20	4	313	324
1076	Raza M., Ul Haq W., Liu J.-L., Noreen S.	Regions of variability for a subclass of analytic functions	2020	AIMS Mathematics	5	4	3365	3377
1077	Raza M., Noor K.I.	Subclass of Bazilevič functions of complex order	2020	AIMS Mathematics	5	3	2448	2460
1078	Hussain S.M., Gohar H., Rasul A., Shahzad M.M., Akram A.M., Tariq M., Hussain M., Ali M., Khalid A.	Effect of polyphenols supplemented canola meal based diet on growth performance, nutrient digestibility and antioxidant activity of common carp (Cyprinus carpio linnaeus, 1758) fingerlings	2020	Indian Journal of Fisheries	67	1	72	79

1079	Umar S., Arif M., Raza M., Lee S.K.	On a subclass related to bazilevič functions	2020	AIMS Mathematics	5	3	2040	2056
1080	Khan M.M., Madni A., Tahir N., Parveen F., Khan S., Jan N., Ali A., Abdurrahim M., Farooq U., Khan M.I.	Co-delivery of curcumin and cisplatin to enhance cytotoxicity of cisplatin using lipid-chitosan hybrid nanoparticles	2020	International Journal of Nanomedicine	15		2207	2217
1081	Shah M.A., Jawawi D.N.A., Isa M.A., Younas M., Abdelmaboud A., Sholichin F.	Ensembling Artificial Bee Colony with Analogy-Based Estimation to Improve Software Development Effort Prediction	2020	IEEE Access	8		58402	58415
1082	Zulfiqar F., Younis A., Riaz A., Mansoor F., Hameed M., Akram N.A., Abideen Z.	Morpho-anatomical adaptations of two tagetes erecta l. Cultivars with contrasting response to drought stress	2020	Pakistan Journal of Botany	52	3	801	810

1083	Javed A., Mahmood A., Ahmed Z., Shahzad T., Sarwar G., Ghazala, Mujeeb F., Ali A., Ibrahim M.	Salinity induced differential growth, ionic and anti-oxidative response of two bell pepper (<i>Capsicum annuum</i>) genotypes	2020	International Journal of Agriculture and Biology	23	4	795	800
1084	Hussain M., Naeem M.N., Tounsi A.	Response of orthotropic Kelvin modeling for single-walled carbon nanotubes: Frequency analysis	2020	Advances in Nano Research	8	3	229	244
1085	Majeed M., Hussain A.I., Anwar H., Irfan S., Chatha S.A.S., Ali Q., Mukhtar I., Hafeez Z.	Hepatoprotective effect of desi and kabuli cultivars of <i>Cicer arietinum</i> L (chick peas) against carbon tetrachloride-induced toxicity in rats	2020	Tropical Journal of Pharmaceutical Research	19	3	609	615
1086	Hussain M., Naeem M.N., Tounsi A.	Numerical study for nonlocal vibration of orthotropic SWCNTs based on Kelvin's model	2020	Advances in Concrete Construction	9	3	301	312

1087	Taj M., Safeer M., Hussain M., Naeem M.N., Ahmad M., Abbas K., Khan A.Q., Tounsi A.	Effect of external force on buckling of cytoskeleton intermediate filaments within viscoelastic media	2020	Computers and Concrete	25	3	205	214
1088	Shahid M., Fatima H., Anjum F., Riaz M., Akhter N., Murtaza M.A.	Proximate composition, antioxidant activities and fatty acid profiling of selected mushrooms collected from Azad Jammu and Kashmir	2020	Acta Poloniae Pharmaceutica - Drug Research	77	1	145	153
1089	Taj M., Majeed A., Hussain M., Naeem M.N., Safeer M., Ahmad M., Khan H.U., Tounsi A.	Non-local orthotropic elastic shell model for vibration analysis of protein microtubules	2020	Computers and Concrete	25	3	245	253
1090	Hussain M., Naeem M.N., Taj M., Tounsi A.	Simulating vibration of single-walled carbon nanotube using Rayleigh-Ritz's method	2020	Advances in Nano Research	8	3	215	228
1091	Asghar S., Naeem M.N., Hussain M., Taj M., Tounsi A.	Prediction and assessment of nonlocal natural frequencies of DWCNTs: Vibration analysis	2020	Computers and Concrete	25	2	133	144

1092	Cui N., Cui J., Sun J., Xu X., Aslam B., Bai L., Li D., Wu D., Ma Z., Gu H., Baloch Z.	Triglycerides and total cholesterol concentrations in association with hyperuricemia in chinese adults in Qingdao, China	2020	Risk Management and Healthcare Policy	13		165	173
1093	Gulzar M., Abbas G., Dilawar F.	Algebraic properties of $\tilde{I}$ -Q-fuzzy subgroups	2020	International Journal of Mathematics and Computer Science	15	1	265	274
1094	Sohail A., Ahmed R., Yu C.S., Munir T., E-Alam F.	Tunable optical response of an optomechanical system with two mechanically driven resonators	2020	Physica Scripta	95	4		
1095	Sanad M.H., Rizvi F.A., Kumar R.R.	Radiosynthesis and Bioevaluation of Ranitidine as Highly Selective Radiotracer for Peptic Ulcer Disorder Detection	2020	Radiochemistry	62	1	119	124
1096	Nadeem N., Zahid M., Tabasum A., Mansha A., Jilani A., Bhatti I.A., Bhatti H.N.	Degradation of reactive dye using heterogeneous photo-Fenton catalysts: ZnFe ₂ O ₄ and GO-ZnFe ₂ O ₄ composite	2020	Materials Research Express	7	1		
1097	Shad N.A., Sajid M.M., Javed Y., Ikram M., Hussain M.I., Nawaz S.,	Lamellar shape lead tungstate (PbWO ₄) nanostructures as synergistic catalyst for peroxidase mimetic activity	2020	Materials Research Express	7	1		

	Afzal A.M., Hussain S.Z., Amin N., Yousuf I.							
1098	Farooq U., Rasul A., Sher M., Qadir M.I., Nazir I., Mehmood Y., Riaz H., Shah P.A., Jamil Q.A., Khan B.A.	Development, characterization and evaluation of anti-fungal activity of miconazole based nanogel prepared from biodegradable polymer	2020	Pakistan journal of pharmaceutical sciences	33	1	449	457
1099	Mushtaq A., Chen Z., Ud Din N., Ahmad B., Zhang X.	Income inequality, innovation and carbon emission: Perspectives on sustainable growth	2020	Economic Research- Ekonomska Istrazivanja	33	1	769	787
1100	Anwar H.N., Malik N., Sheer F., Nawaz W.	Utilization of health services and satisfaction of the patients in District Bhakkar, Pakistan	2020	Rawal Medical Journal	45	1	192	195
1101	Malik N., Nohsheen F., Afzal A.	Determinants of exclusive breastfeeding in Pakistan: An examination of the 2012-2013 demographic and health survey	2020	Rawal Medical Journal	45	1	172	175

1102	Khan I.A., Medwal R., Fareed S., Farid A., Vas J.V., Reddy M.V., Rawat R.S.	Nanostructured polycrystalline Ni3S2 as electrode material for lithium ion batteries	2020	Materials Research Express	7	1		
1103	Anjum R., Ijaz T., Ghani M.U.	Coping mechanisms curtailed to stress by the by-birth hermaphrodites	2020	Rawal Medical Journal	45	1	7	12
1104	Saeed M., Rasool M.H., Rasheed F., Saqalein M., Nisar M.A., Imran A.A., Tariq S., Amir A., Ikram A., Khurshid M.	Extended-spectrum beta-lactamases producing extensively drug-resistant Salmonella Typhi in Punjab, Pakistan	2020	Journal of Infection in Developing Countries	14	2	169	176
1105	Asgher M., Qamar S.A., Sadaf M., Iqbal H.M.N.	Multifunctional materials conjugated with near-infrared fluorescent organic molecules and their targeted cancer bioimaging potentialities	2020	Biomedical Physics and Engineering Express	6	1		
1106	Arshad R., Bokhari T.H., Javed T., Bhatti I.A., Rasheed S., Iqbal M., Nazir A., Naz S., Khan M.I., Khosa M.K.K., Iqbal M., Zia-Ur-Rehman M.	Degradation product distribution of Reactive Red-147 dye treated by UV/H2O2/TiO2advanced oxidation process	2020	Journal of Materials Research and Technology	9	3	3168	3178

1107	Ayub R., Umer M., Maan A.A., Rasool B., Khan M.K.I., Younis T., Abbas S., Sajjad M., Kaleem I., Imran M., Ullah A., Afzal M.S., Shah Z.H., Ahmed S., Aslam F., Chaudhary N., Afzal M.I.	Antibiotics, Acid and Heat Tolerance of Honey adapted Escherichia coli, Salmonella Typhi and Klebsiella pneumoniae	2020	Foods	9	3		
1108	Babar U., Ali H., Arshad S.H., Sheikh U.	Multiplicative topological properties of graphs derived from honeycomb structure	2020	AIMS Mathematics	5	2	1562	1587
1109	Hussain R., Mahmood F., Aslam B., Siddique A.B., Rafique A., Khaliq S.A., Khan I., Imran S., Mubeen M., Jahanzaib, Nasir A.A.	Investigation of different serotypes of FMDV in vaccinated buffaloes (Bubalus bubalis) in Southern Areas of Punjab Province, Pakistan	2020	Pakistan Veterinary Journal	40	1	118	122
1110	Basit A., Ali M., Hussain G., Irfan S., Saqib M., Iftikhar A., Mustafa I., Mukhtar I., Anwar H.	Effect of equine piroplasmosis on hematological and oxidative stress biomarkers in relation to different seasons in district Sargodha, Pakistan	2020	Pakistan Veterinary Journal	40	1	43	48

1111	Hussain S., Chatha S.A.S., Hussain A.I., Hussain R., Mehboob M.Y., Muhammad S., Ahmad Z., Ayub K.	Zinc-Doped Boron Phosphide Nanocluster as Efficient Sensor for SO ₂	2020	Journal of Chemistry	2020			
1112	Bari M.N., Saleem U., Faisal M.N., Mehmood M.H., Asif M., Majeed W., Anwar H., Muzaffar H., Mahmood A., Abdelsadik A.	Anti-hyperglycemic efficacy of derris ovalifolia in alloxan-induced diabetic wister rats	2020	Pakistan Veterinary Journal	40	1	108	112
1113	Ashfaq M.A., Javed I., Arshad M., Yaseen M.	Role of methyl prednisolone in longitudinal extensive transverse myelitis (LETM) in children.	2020	Pakistan Journal of Medical Sciences	36	3		
1114	Sarwar M.U., Hanif M.K., Talib R., Aziz M.H.	Accelerating Forward Algorithm for Stochastic Automata on Graphics Processing Units	2020	IEEE Access	8		32270	32279
1115	Mehdi F., Ali K., Huma N., Hussain I., Azhar A., Galani S.	Comparative biochemical analysis of high and low sucrose accumulating sugarcane varieties at formative stage under heat stress	2020	Tarim Bilimleri Dergisi	26	1	78	86

1116	Farooq M.U., Munir B., Naeem S., Yameen M., Iqbal S.Z., Ahmad A., Mustaan M.A., Noor M.W., Nadeem M.A., Ghaffar A.	Exploration of Carica papaya bioactive compounds as potential inhibitors of dengue NS2B, NS3 and NS5 protease	2020	Pakistan journal of pharmaceutical sciences	33	1	355	360
1117	Salam N.A., Naeem M.A., Malik N.S., Riaz M., Shahiq-Uz-Zaman, Masood-Ur-Rehman, Aslam F.	Exploring the potential of tianeptine matrix tablets: Synthesis, physico-chemical characterization and acute toxicity studies	2020	Pakistan journal of pharmaceutical sciences	33	1	269	279
1118	Rasheed R., Naqvi S.A.R., Siraj R., Aslam N., Nasir M.W., Abbas A., Yaseen M., Qaddus A., Roohi S.	Development of ^{99m} Tc-SDP-choline SPECT radiopharmaceutical for imaging of cerebrovascular diseases	2020	Pakistan Journal of Pharmaceutical Sciences	33	1	241	244
1119	Sheikh F.A., Aamir M.N., Shah M.A., Ali L., Anwer K., Javaid Z.	Formulation design, characterization and in vitro drug release study of orodispersible film comprising BCS class II drugs	2020	Pakistan journal of pharmaceutical sciences	33	1	343	353
1120	Ali M.Z., Mehmood M.H., Haneef M., Saleem M., Ishrat G., Siddiqi H.S., Gilani A.-U.-H., Ahmed M.	A flavonoid driven phyto-pharmacological effects of Capparis decidua Edgew. in rodents	2020	Pakistan journal of pharmaceutical sciences	33	1	333	342

1121	Iqbal S., Khan A., Nazir R., Kiran S., Perveen S., Khan K.M., Iqbal Choudhary M.	Synthesis of β^2 -ketosulfone derivatives as new non-cytotoxic urease inhibitors in vitro	2020	Medicinal Chemistry	16	2	244	255
1122	Kousar R., Makhdum M.S.A., Ullah R., Saghir A., Usman S., Sadaf T.	Empirical investigation of impact of land fragmentation on crop productivity in Punjab, Pakistan	2020	Sarhad Journal of Agriculture	36	1	217	223
1123	Javed W., Ali R., Babar R., $\tilde{A}-vg\tilde{A}$ n A.	Tunneling of massive vector particles under influence of quantum gravity	2020	Chinese Physics C	44	1		
1124	Abdulhaq N., Nawaz Z., Zahoor M.A., Siddique A.B.	Association of biofilm formation with multi drug resistance in clinical isolates of pseudomonas aeruginosa	2020	EXCLI Journal	19		201	208
1125	Naz F., Nawaz T., Pang T., Abid M.	Use of nonconventional dispersion measures to improve the efficiency of ratio-type estimators of variance in the presence of outliers	2020	Symmetry	12	1		
1126	Amin N., Akhtar M., Sabir M., Mahmood K., Ali A., Mustafa G., Hasan M.S., Bibi A., Iqbal M.Z., Iqbal F., Rehman A., Aslam A., Mehmood K., Latif Z., Hussain K.,	Synthesis, structural and optical properties of Zn-substituted Co W-ferrites by coprecipitation method	2020	Journal of Ovonic Research	16	1	11	18

	Nawaz Z.H., Fatima M., Nadeem S., Sharif S., Jilani M., Ghaffar A., Javeed K., Zakir R., Amin A., Arshad M.I.							
1127	Nawaz A., Tahir S., Ali A., Arshad M.I., Mahmood K., Siraj S., Muddassir Y.	Effect of phosphorous/boron doping profile differences on the performance of silicon solar cells	2020	Journal of Ovonic Research	16	1	63	70
1128	Kalsoom H., Rashid S., Idrees M., Chu Y.-M., Baleanu D.	Two-variable quantum integral inequalities of simpson-type based on higher-order generalized strongly preinvex and quasi-preinvex functions	2020	Symmetry	12	1		
1129	Bokhari T.H., Ahmad N., Jilani M.I., Saeed M., Usman M., Haq A.U., Rehman R., Iqbal M., Nazir A., Javed T.	UV/H2O2, UV/H2O2/SnO2 and Fe/H2O2 based advanced oxidation processes for the degradation of disperse violet 63 in aqueous medium	2020	Materials Research Express	7	1		
1130	Pirouz A.A., Selamat J., Iqbal S.Z., Samsudin N.I.P.	Efficient and simultaneous chitosan-mediated removal of 11 mycotoxins from palm kernel cake	2020	Toxins	12	2		
1131	Khan M.I., Hasan M.S., Bhatti K.A., Rizvi H., Wahab A., Rehman S.-U., Afzal M.J., Nazneen A., Fiaz Khan M., Nazir A., Iqbal M.	Effect of Ni doping on the structural, optical and photocatalytic activity of MoS2, prepared by Hydrothermal method	2020	Materials Research Express	7	1		

1132	Arshad M., Ehtisham-UI-Haque S., Bilal M., Ahmad N., Ahmad A., Abbas M., Nisar J., Khan M.I., Nazir A., Ghaffar A., Iqbal M.	Synthesis and characterization of Zn doped WO ₃ nanoparticles: Photocatalytic, antifungal and antibacterial activities evaluation	2020	Materials Research Express	7	1		
1133	Ali I., Amin N., Rehman A., Akhtar M., Fatima M., Mahmood K., Ali A., Mustafa G., Hasan M.S., Bibi A., Iqbal M.Z., Iqbal F., Aslam A., Mehmood K., Latif Z., Hussain K., Nawaz Z.H., Sharif S., Jilani M., Danish U., Yaseen I., Dilbar A., Tahir N., Bilal M., Amin A., Arshad M.I.	Electrical and magnetic properties of baxcd ₂ -xfe ₁₆ o ₂₇ w-type hexaferrites (0 ≤ x ≤ 0.5)	2020	Digest Journal of Nanomaterials and Biostructures	15	1	67	73
1134	Naqvi S.A.R., Shah S.M.A., Kanwal L., Saeed M., Atta-ul-Haq, Nisar J., Nisar Z., Akram M.	Antimicrobial and Antihypercholesterolemic Activities of Pulicaria gnaphalodes	2020	Dose-Response	18	1		
1135	Sun R., Shen C., Shafique S., Mustapha O., Hussain T., Khan I.U., Mehmood Y., Anwer K., Shahzad Y.,	Electrosprayed polymeric nanospheres for enhanced solubility, dissolution rate, oral bioavailability and antihyperlipidemic activity of bezafibrate	2020	International Journal of Nanomedicine	15		705	715

	Yousaf A.M.							
1136	Abbas N., Hussain M., Zahra N., Ahmad H., Zain Mehdi S.M., Sajjad U., Amer M.	Optimization of Cr Seed Layer Effect for Surface Roughness of As-Deposited Silver Film using Electron Beam Deposition Method	2020	Journal of the Chemical Society of Pakistan	42	1	23	30
1137	Yasmin S., Nouren S., Bhatti H.N., Iqbal D.N., Iftikhar S., Majeed J., Mustafa R., Nisar N., Nisar J., Nazir A., Iqbal M., Rizvi H.	Green synthesis, characterization and photocatalytic applications of silver nanoparticles using diospyros lotus	2020	Green Processing and Synthesis	9	1	87	96
1138	Ahmad I., Khalique A., Shahid M.Q., Rashid A.A., Faiz F., Ikram M.A., Ahmed S., Imran M., Khan M.A., Nadeem M., Afzal M.I., Umer M., Imdad K., Shahbaz M., Rasool B.	Studying the influence of apple peel polyphenol extract fortification on the characteristics of probiotic yoghurt	2020	Plants	9	1		
1139	Raza Z., Naureen Z.	Melatonin ameliorates the drug induced nephrotoxicity: Molecular insights [La melatonina mejora la nefrotoxicidad inducida por medicamentos: datos moleculares]	2020	Nefrologia	40	1	12	25

1140	Omer R., Iqbal S., Mushtaq B.S., Hussain M.B., Owaid M.N., Saeed F., Waheed M., Shariati M.A., Khan M.U., Ahmad T.	Evaluating the effect of prebiotics in the rehabilitation of gut microbiota after antibiotic therapy in rats	2020	Gazi Medical Journal	31	1	10	14
1141	Ahmed T., Ammar M., Saleem A., Zhang H.-L., Xu H.-B.	Z -scheme 2D-m-BiVO4 networks decorated by a g-CN nanosheet heterostructured photocatalyst with an excellent response to visible light	2020	RSC Advances	10	6	3192	3202
1142	Rehman K., Munawar S.M., Hamid Akash M.S., Buabeid M.A., Chohan T.A., Tariq M., Jabeen K., Arafa E.-S.A.	Hesperidin improves insulin resistance via down-regulation of inflammatory responses: Biochemical analysis and in silico validation	2020	PLoS ONE	15	1		
1143	Haque A., Kiran S., Nosheen S., Afzal G., Gulzar T., Ahmad S., Ur-Rehman S., Tariq M.H.	Degradation of reactive blue 19 dye using copper nanoparticles synthesized from labeo rohita fish scales: A greener approach	2020	Polish Journal of Environmental Studies	29	1	609	616
1144	Farooq A., Bukhari S.A., Akram N.A., Ashraf M., Wijaya L., Alyemeni M.N., Ahmad P.	Exogenously applied ascorbic acid-mediated changes in osmoprotection and oxidative defense system enhanced water stress tolerance in different cultivars of safflower (Carthamus tinctorious L.)	2020	Plants	9	1		

1145	Arif M., Raza M., Tang H., Hussain S., Khan H.	Hankel determinant of order three for familiar subsets of analytic functions related with sine function	2020	Open Mathematics	17	1	1615	1630
1146	Ahmad N., Mehmood M.A., Malik S.	Recombinant protein production in microalgae: Emerging trends	2020	Protein and Peptide Letters	27	2	105	110
1147	Yaseen M., Abbas F., Shakoore M.B., Farooque A.A., Rizwan M.	Biomass for renewable energy production in Pakistan: current state and prospects	2020	Arabian Journal of Geosciences	13	2		
1148	Hanif M., Shah S., Majeed A., Ur-Rahman M., Chauhdary Z., Masood Ahmed M., Ul-Hassan S., Saleem U., Mehmood Khan S., Abbas G.	In vitro and in vivo evaluation of immediate release tablets of domperidone maleate	2020	Latin American Journal of Pharmacy	39	1	22	28
1149	Jadoon T., Carter-Fenk K., Siddique M.B.A., Herbert J.M., Hussain R., Iqbal S., Iqbal J., Ayub K.	Silver clusters tune up electronic properties of graphene nanoflakes: A comprehensive theoretical study	2020	Journal of Molecular Liquids	297			

1150	Paracha K.N., Butt A.D., Alghamdi A.S., Babale S.A., Soh P.J.	Liquid metal antennas: Materials, fabrication and applications	2020	Sensors (Switzerland)	20	1		
1151	Hussain G., Wang J., Rasul A., Anwar H., Qasim M., Zafar S., Aziz N., Razzaq A., Hussain R., de Aguilar J.-L.G., Sun T.	Current status of therapeutic approaches against peripheral nerve injuries: A detailed story from injury to recovery	2020	International Journal of Biological Sciences	16	1	116	134
1152	Younas M., Jawawi D.N.A., Mahmood A.K., Ahmad M.N., Sarwar M.U., Idris M.Y.	Agile Software Development Using Cloud Computing: A Case Study	2020	IEEE Access	8		4475	4484
1153	Usman M., Javed M.R., Mehmood M.A., Huma T., Ijaz A.	Isolation of aflatoxigenic aspergillus flavus from animal-feed and exploration of the genetic basis of aflatoxin biosynthesis	2020	Pakistan Veterinary Journal	39	4	541	547
1154	Luo C., Du T., Awan M.U., Zhang Y.	Estimation-type results with respect to the parameterized (P, q)-integral inequalities	2020	AIMS Mathematics	5	1	568	586
1155	Akram M., Riaz M., Noreen S., Shariati M.A., Shaheen G., Akhter N., Parveen F., Akhtar N., Zafar S., Owais Ghauri A.,	Therapeutic potential of medicinal plants for the management of scabies	2020	Dermatologic Therapy	33	1		

	Riaz Z., Khan F.S., Kausar S., Zainab R.							
1156	Ahmad R., Ali S., Abid M., Rizwan M., Ali B., Tanveer A., Ahmad I., Azam M., Ghani M.A.	Glycinebetaine alleviates the chromium toxicity in Brassica oleracea L. by suppressing oxidative stress and modulating the plant morphology and photosynthetic attributes	2020	Environmental Science and Pollution Research	27	1	1101	1111
1157	Al-Ghanim K.A., Mahboob S., Vijayaraghavan P., Al-Misned F.A., Kim Y.O., Kim H.-J.	Sub-lethal effect of synthetic pyrethroid pesticide on metabolic enzymes and protein profile of non-target Zebra fish, Danio rerio	2020	Saudi Journal of Biological Sciences	27	1	441	447
1158	Jamil A., Bokhari T.H., Javed T., Mustafa R., Sajid M., Noreen S., Zuber M., Nazir A., Iqbal M., Jilani M.I.	Photocatalytic degradation of disperse dye Violet-26 using TiO ₂ and ZnO nanomaterials and process variable optimization	2020	Journal of Materials Research and Technology	9	1	1119	1128
1159	Khan S.U., Waqas H., Bhatti M.M., Imran M.	Bioconvection in the Rheology of Magnetized Couple Stress Nanofluid Featuring Activation Energy and Wu's Slip	2020	Journal of Non-Equilibrium Thermodynamics	45	1	81	95

1160	Farooq U., Malecki I.A., Mahmood M., Martin G.B.	Age-related declines in ejaculate quality and sperm kinematics vary among strains of Japanese Quail (<i>Coturnix japonica</i>)	2020	Reproduction in Domestic Animals	55	1	64	73
1161	Anwar I., Bukhari H.A., Nahid N., Rashid K., Amin I., Shaheen S., Hussain K., Mansoor S.	Association of cotton leaf curl Multan betasatellite and Ageratum conyzoides symptomless alphasatellite with tomato leaf curl New Delhi virus in <i>Luffa cylindrica</i> in Pakistan	2020	Australasian Plant Pathology	49	1	25	29
1162	Zafar S., Ashraf A., Ijaz M.U., Muzammil S., Siddique M.H., Afzal S., Andleeb R., Al-Ghanim K.A., Al-Misned F., Ahmed Z., Mahboob S.	Eco-friendly synthesis of antibacterial zinc nanoparticles using <i>Sesamum indicum</i> L. extract	2020	Journal of King Saud University - Science	32	1	1116	1122
1163	Siddique M., Shafique M., Mateen A., Shahzad N., Aslam B., Ahmad N., Qamar M.U.	Prevalence and genotypic analysis of hepatitis C Virus isolated from liver center, Faisalabad, Pakistan	2020	Pakistan Journal of Zoology	52	1	313	319
1164	Shahzad M.M., Hussain S.M., Akram A.M., Javid A., Hussain M., Hussain Shah S.Z., Chaudhary A.	Improvement in nutrient digestibility and growth performance of <i>Catla catla</i> fingerlings using phytase in <i>Moringa oleifera</i> leaf meal based diet	2020	Pakistan Journal of Zoology	52	1	157	168
1165	Saleem A., Saleem M., Akhtar M.F.	Antioxidant, anti-inflammatory and antiarthritic potential of <i>Moringa oleifera</i> Lam: An ethnomedicinal plant of Moringaceae family	2020	South African Journal of Botany	128		246	256

1166	Zulfiqar F., Akram N.A., Ashraf M.	Osmoprotection in plants under abiotic stresses: new insights into a classical phenomenon	2020	Planta	251	1		
1167	Mukhtar A., Saqib S., Safdar F., Hameed A., Rafiq S., Mellon N.B., Amen R., Khan M.S., Ullah S., Assiri M.A., Babar M., Bustam M.A., Rehman W.U., Merican Z.M.A.	Experimental and comparative theoretical study of thermal conductivity of MWCNTs-kapok seed oil-based nanofluid	2020	International Communications in Heat and Mass Transfer	110			
1168	Umar Ijaz M., Ashraf A., Ahmed A., Ismail H., Muzzamil S., Samad A., Al-Ghanim K.A., Al-Misned F.A., Ahmed Z., Mahboob S.	Remedial effects of casticin as an antioxidant on cisplatin induced oxidative damage in rat liver	2020	Journal of King Saud University - Science	32	1	1100	1105
1169	Habib A., Iqbal M.A., Bhatti H.N., Kamal A., Kamal S.	Synthesis of alkyl/aryl linked binuclear silver(I)-N-Heterocyclic carbene complexes and evaluation of their antimicrobial, hemolytic and thrombolytic potential	2020	Inorganic Chemistry Communications	111			
1170	Sibt-E-abbas M., Butt M.S., Khan M.R., Sultan M.T., Saddique M.S., Shahid M.	Nutritional and functional characterization of defatted oilseed protein isolates	2020	Pakistan Journal of Agricultural Sciences	57	1	219	228

1171	Hussain A., Zahir Z.A., Asghar H.N., Imran M., Ahmad M., Hussain S.	Integrating the potential of bacillus sp. Az6 and organic waste for zinc oxide bio-activation to improve growth, yield and zinc content of maize grains	2020	Pakistan Journal of Agricultural Sciences	57	1	123	130
1172	Din B.U., Amna, Rafique M., Javed M.T., Kamran M.A., Mehmood S., Khan M., Sultan T., Hussain Munis M.F., Chaudhary H.J.	Assisted phytoremediation of chromium spiked soils by Sesbania Sesban in association with Bacillus xiamenensis PM14: A biochemical analysis	2020	Plant Physiology and Biochemistry	146		249	258
1173	Khan A.U., Akram M., Daniyal M., Akhter N., Riaz M., Akhtar N., Shariati M.A., Anjum F., Khan S.G., Parveen A., Ahmad S.	Awareness and current knowledge of epilepsy	2020	Metabolic Brain Disease	35	1	45	63
1174	Andleeb R., Ashraf A., Muzammil S., Naz S., Asad F., Ali T., Rafi R., Al-Ghanim K.A., Al-Misned F., Ahmed Z., Mahboob S.	Analysis of bioactive composites and antiviral activity of Iresine herbstii extracts against Newcastle disease virus in ovo	2020	Saudi Journal of Biological Sciences	27	1	335	340
1175	Rashid Z., Gilani S.M.H., Ashraf A., Zehra S., Azhar A., Al-Ghanim K.A., Al-Misned F., Mahboob S., Galani S.	Benchmark taxonomic classification of chicken gut bacteria based on 16S rRNA gene profiling in correlation with various feeding strategies	2020	Journal of King Saud University - Science	32	1	1034	1041

1176	Azeem M., Adeel S., Habib N., Fazal-Ur-Rehman, Zahoor A.F., Saeed M., Amin N., Liaqat S., Hussaan M.	Sustainable utilization of ultrasonic radiation in extraction and dyeing of wool fabric using logwood (haematoxylum campechianum) extract	2020	Tekstil ve Konfeksiyon	29	2	181	186
1177	Fazal-Ur-rehman, Adeel S., Saif M.J., Khosa M.K., Anjum M.N., Kamran M., Zuber M., Asif M.	Ultrasonic assisted improvement in dyeing behaviour of polyester fabric using disperse red 343	2020	Polish Journal of Environmental Studies	29	1	261	265
1178	Younis S., Usman M., Atta ul Haq, Akram N., Saeed M., Raza S., Siddiq M., Bukhtawar F.	Solubilization of reactive dyes by mixed micellar system: Synergistic effect of nonionic surfactant on solubilizing power of cationic surfactant	2020	Chemical Physics Letters	738			
1179	Shahid A., Rehman A.U., Usman M., Ashraf M.U.F., Javed M.R., Khan A.Z., Gill S.S., Mehmood M.A.	Engineering the metabolic pathways of lipid biosynthesis to develop robust microalgal strains for biodiesel production	2020	Biotechnology and Applied Biochemistry	67	1	41	51
1180	Hussain F., Imran M., Khalil R.M.A., Niaz N.A., Rana A.M., Sattar M.A., Ismail M., Majid A., Kim S., Iqbal F., Javid M.A., Saeed S., Sattar A.	An insight of Mg doped ZnO thin films: A comparative experimental and first-principle investigations	2020	Physica E: Low-Dimensional Systems and Nanostructures	115			

1181	Iqbal S., Fakhar-e-Alam M., Atif M., Amin N., Ali A., Shafiq M., Ismail M., Hanif A., Farooq W.A.	Photodynamic therapy, facile synthesis, and effect of sintering temperature on the structure, morphology, optical properties, and anticancer activity of Co ₃ O ₄ nanocrystalline materials in the HepG2 cell line	2020	Journal of Photochemistry and Photobiology A: Chemistry	386			
1182	Hussain B., Fatima M., Al-Ghanim K.A., Al-Misned F., Mahboob S.	Assessment of DNA integrity through MN bioassay of erythrocytes and histopathological changes in Wallago attu and Cirrhinus mirigala in response to freshwater pollution	2020	Saudi Journal of Biological Sciences	27	1	251	260
1183	Saddique M.S., Bhatti A.R., Haroon S.S., Sattar M.K., Amin S., Sajjad I.A., ul Haq S.S., Awan A.B., Rasheed N.	Solution to optimal reactive power dispatch in transmission system using meta-heuristic techniques•Status and technological review	2020	Electric Power Systems Research	178			
1184	Bilal M., Alay-e-Abbas S.M., Laref A., Noor M., Amin N.	First-principles investigations of structural, energetic and electronic properties of (001) surfaces of cubic inverse-perovskite Sr ₃ SnO	2020	Journal of Physics and Chemistry of Solids	136			
1185	Rafique M., Ortas I., Rizwan M., Chaudhary H.J., Gurmani A.R., Hussain Munis M.F.	Residual effects of biochar and phosphorus on growth and nutrient accumulation by maize (Zea mays L.) amended with microbes in texturally different soils	2020	Chemosphere	238			
1186	Ahmad A., Arif M.S., Yasmeen T., Riaz M., Rizwan M., Shahzad S.M., Ali S., Riaz M.A., Sarosh M.	Seasonal variations of soil phosphorus and associated fertility indicators in wastewater-irrigated urban aridisol	2020	Chemosphere	239			

1187	Adrees M., Khan Z.S., Ali S., Hafeez M., Khalid S., ur Rehman M.Z., Hussain A., Hussain K., Shahid Chatha S.A., Rizwan M.	Simultaneous mitigation of cadmium and drought stress in wheat by soil application of iron nanoparticles	2020	Chemosphere	238			
1188	Sajid M., Yamin M., Asad F., Yaqub S., Ahmad S., Mubarik M.A.M.S., Ahmad B., Ahmad W., Qamer S.	Comparative study of physio-chemical analysis of fresh and branded honeys from Pakistan	2020	Saudi Journal of Biological Sciences	27	1	173	176
1189	Attaullah, Zahoor M.K., Zahoor M.A., Mubarik M.S., Rizvi H., Majeed H.N., Zulhussnain M., Ranian K., Sultana K., Imran M., Qamer S.	Insecticidal, biological and biochemical response of <i>Musca domestica</i> (Diptera: Muscidae) to some indigenous weed plant extracts	2020	Saudi Journal of Biological Sciences	27	1	106	116
1190	Hafeez M., Qasim M., Ali S., Yousaf H.K., Waqas M., Ali E., Ahmad M.A., Jan S., Bashir M.A., Noman A., Wang M., Gharmh H.A., Khan K.A.	Expression and functional analysis of P450 gene induced tolerance/resistance to lambda-cyhalothrin in quercetin fed larvae of beet armyworm <i>Spodoptera exigua</i> (HKner)	2020	Saudi Journal of Biological Sciences	27	1	77	87
1191	Jamil A., Bokhari T.H., Iqbal M., Zuber M.,	ZnO/UV/H2O2 Based advanced oxidation of disperse red dye	2020	Zeitschrift fur Physikalische Chemie	234	1	129	143

	Bukhari I.H.							
1192	Ali T., Rafiq M., Samee Mubarik M., Zahoor K., Asad F., Yaqoob S., Ahmad S., Qamar S.	Genotoxicity and repair capability of Mus musculus DNA following the oral exposure to Tramadol	2020	Saudi Journal of Biological Sciences	27	1	12	17
1193	khan Z., Minhas M.U., Ahmad M., Khan K.U., Sohail M., Khalid I.	Functionalized pectin hydrogels by cross-linking with monomer: synthesis, characterization, drug release and pectinase degradation studies	2020	Polymer Bulletin	77	1	339	356
1194	Nawaz T., Hussain S., Ahmad T., Naz F., Abid M.	Kumaraswamy generalized Kappa distribution with application to stream flow data	2020	Journal of King Saud University - Science	32	1	172	182