Faculty of Pharmacy

University of Central Punjab, Lahore

Faculty of Sciences

- **Journal Publications**

Sr.	Journal View	HEC Cat.	Impact Factor	Year
1	**K. Naseem**, R. Begum, W. Wu, A. Irfan, J. Nisar, M. Azam, Z. H. Farooqi, Core/shell composite microparticles for catalytic reduction of p-nitrophenol: kinetic and thermodynamic study, International Journal of Environmental Science and Technology, HEC Category: W, IF: 2.540, publisher: Springer	W	2.540	2020
2	S. Zulfiqar, H. Ajaz, **S. U. Rehman**, S. Elahi, A. Shakeel, F. Yasmeen, S. Altaf, Effect of excess Fluoride consumption on urine-serum fluorides, Dental state and thyroid hormones among children in "Talab Sarai" Punjab Pakistan, Open Chemistry, vol: 18, issue: 1, pages: 119-128, HEC Category: W, IF: 1.216, publisher: De Gruyter	W	1.216	2020
3	**S. Tariq**, A. A. Mubarak, A. Mahmood, S. M. Ramay, Evincing structural, electronic and magnetic attributes of LaFe0.5A0.5O3 (A= Co, Cr and Ti): DFT-GGA recapitulation, Crystal Research and Technology, HEC Category: W, IF: 1.169	W	1.169	2020
4	E. Algrafy, **S. Tariq**, Q. Mahmood, N. Kattan, S. M. S.Gilani, S. M. Ramay, A. Mahmood, First principle study of structural, electronic, ferromagnetic, mechanical and thermoelectric properties of ZnMn 2 X 4 (X= S and Se) spinels, Physica Scripta, HEC Category: W, IF: 1.985	W	1.985	2020
5	**K. Naseem**, M. Z. U. Rehman, A. Ahmad, D. Dubal, T. S. AlGarni, Plant extract induced biogenic preparation of silver nanoparticles and their potential as catalyst for degradation of toxic dyes, Coatings, vol: 10, issue: 12, pages: 1235, HEC Category: W, IF: 2.436, publisher: Verlag Coating Thomas & Co.	W	2.436	2020
6	A. Ahmad, N. M. Mubharak, **K. Naseem**, et. al, Recent advancement and development of chitin and chitosan-based nanocomposite for drug delivery: Critical approach to clinical research, Arabian Journal of Chemistry, HEC Category: W, IF: 4.762, publisher: Elsevier	W	4.762	2020
7	**S. Tariq**, A. A. Mubarak, F. Hamioud, M. M. Saad, S. Zahra, B. Kanwal, Q. Afzal, Repercussion of pressure on thermodynamic, optoelectronic, thermoelectric and magneto-elastic rectitude of cubic LaFeO3: Quantum DFT perspective, Journal of Alloys and	W	4.650	2020

	Compounds, vol: 831, HEC Category: W, IF: 4.650, publisher: Elsevier			
8	**K. Naseem****, Z. H. Farooqi, R. Begum, W. Wu, A. Irfan, M. Ajmal, Systematic study for catalytic degradation of nitrobenzene derivatives using core@ shell composite micro particles as catalyst, Colloid and Surfaces A: Physiochemical and Engineering Aspects, HEC Category: W, IF: 3.131, publisher: Elsevier	W	3.131	2020
9	F. hamioud, **S. Tariq**, A.Batool, A. A. Mubarak, Theoretical investigation on orthorhombic XMnO3 (X = Nd, Dy and Ho) perovskite manganates using DFT, Chemical Physics Letters, vol: 760, HEC Category: W, IF: 2.029, publisher: Elsevier	W	2.029	2020
10	Z. H. Farooqi, R. Begum, **K. Naseem**, W. Wu, A. Irfan, Zero valent iron nanoparticles as sustainable nanocatalysts for reduction reactions, Catalysis Reviews - Science and Engineering, HEC Category: W, IF: 11.389, publisher: Taylor & Francis	W	11.389	2020
11	**K. Naseem****, Z. H. Farooqi, R. Begum, M. Z. U. Rehman, M. Ghufran, W. Wu, J. Najeeb, A. Irfan, Synthesis and characterization of poly (N-isopropyl methacrylamide-acrylic acid) smart polymer microgels for adsorptive extraction of copper (II) and cobalt (II) from aqueous medium: kinetic and thermodynamic aspects, Environmental Science and Pollution Research, HEC Category: W , IF: 3.056	W	3.056	2020
12	A. Raza, U. Fatima, **M. Rafiq**, N. Ahmed, I. Khan, K. S. Nisar, Z. Iqbal, Mathematical analysis and design of the nonstandard computational method for an epidemic model of computer virus with delay effect: Application of mathematical biology in computer science, Results in Physics, HEC Category: W, IF: 4.019	W	4.019	2020
13	A. Akgül, N. Ahmed, A. Raza, Z. Iqbal, **M. Rafiq**, D. Baleanu, M. A U. Rehman, New applications related to Covid-19, Results in Physics, HEC Category: W, IF: 4.019	W	4.019	2020
14	A. Raza, A. Ahmadian, **M. Rafiq**, S. Salahshour, M. Naveed, M. Ferrara , A. H. Soori, Modeling the effect of delay strategy on transmission dynamics of HIV/AIDS disease, Advances in Difference Equations, HEC Category: W, IF: 2.421	W	2.421	2020
15	A. Raza, A. Ahmadian, **M. Rafiq**, S. Salahshour, M. Ferrara, An analysis of a nonlinear susceptible-exposed-infected-quarantine-recovered pandemic model of a novel coronavirus with delay effect, Results in Physics, HEC Category: W, IF: 4.019, 2020	W	4.019	2020
16	N. Ahmed , A. Korkmaz, **M. Rafiq**, D. Baleanu, A. S. Alshomrani, M. A. Rehman, M. S. Iqbal A novel time efficient structure-preserving splitting method for the solution of two-dimensional reaction-diffusion systems Advances in Difference Equations, HEC Category: W , IF: 1.510	W	1.510	2020
17	N. Ahmed, M. Ali, **M. Rafiq**, I. Khan, K. S. Nisar, M. A. Rehman, M. O. Ahmad A numerical efficient splitting method for the solution of two dimensional susceptible infected recovered epidemic model of whooping cough dynamics: Applications in	W	3.632	2020

	bio-medical engineering Computer Methods and Programs in Biomedicine, vol: 190, HEC Category: W , IF: 3.632			
18	**M. Rafiq** , W. Ahmad, M. Abbas, D. Baleanu A reliable and competitive mathematical analysis of Ebola epidemic model Advances in Difference Equations, HEC Category: W , IF: 2.421, publisher: Springer	W	2.421	2020
19	Ali Raza, **M. Rafiq**, N. Ahmed, I. Khan, K. S. Nisar, Z. Iqbal A structure preserving numerical method for solution of stochastic epidemic model of smoking dynamics CMC-Computers Materials & Continua, vol: 65, issue: 1, pages: 263-278, HEC Category: W , IF: 4.890	W	4.890	2020
20	**Z. U. A. Zafar**, N. Ali, G. Zaman, P. Thounthong, C. Tuncd Analysis and numerical simulations of fractional order Vallis system Alexandria Engineering Journal , vol: 59, issue: 4, pages: 2591-2605, HEC Category: W , IF: 2.460	W	2.460	2020
21	N. Ahmed, A. Korkamaz, M. A. Rehman, **M. Rafiq** , M. Ali , M. O. Ahmad Computational Modelling and Bifurcation Analysis of Reaction Diffusion Epidemic System with Modified Nonlinear Incidence Rate. International Journal of Computer Mathematics, HEC Category: W , IF: 1.196	W	1.196	2020
22	J. E. Macias-Diaz, N. Ahmed , M. Jawaz , **M. Rafiq**, M. A. Rehman Design and analysis of a discrete method for a time-delayed reaction–diffusion epidemic model Mathematical Methods in the Applied Sciences, HEC Category: W , IF: 1.626	W	1.626	2020
23	W. Shatanawi, A. Raza, M. S. Arif, K. Abodayeh, **M. Rafiq**, M. Bibi Design of nonstandard computational method for stochastic susceptible–infected–treated–recovered dynamics of coronavirus mode Advances in Difference Equations, HEC Category: W , IF: 2.421	W	2.421	2020
24	M. Naveed, D. Baleanu, **M. Rafiq**, A. Raza, A. H. Soori , N. Ahmed Dynamical behavior and sensitivity analysis of a delayed Coronavirus epidemic model Computers, Materials and Continua, vol: 65, issue: 1, pages: 225-241, HEC Category: W , IF: 4.890	W	4.890	2020
25	M. T. Hoang, **Z. U. A. Zafar**, T. K. Q. Ngo Dynamics and numerical approximations for a fractional-order SIS epidemic model with saturating contact rate Computational and Applied Mathematics*** , HEC Category: W , IF: 1.360	W	1.360	2020
26	**Z. U. A. ZAFAR**, N. Ali , Z. Shah, W. Deebani , P. Roy , G. Zaman Hopf bifurcation and global dynamics of time delayed Dengue model Computer methods and Programs in Biomedicine , vol: 195, HEC Category: W , IF: 3.632	W	3.632	2020
27	M. Naveed, **M. Rafiq**, A. Raza, N. Ahmed, I. Khan, K. S. Nisar, A. H. Soori Mathematical analysis of novel Coronavirus (2019-nCov) delay pandemic model Computers, Materials & Continua, vol: 64, issue: 3, pages: 1401-1414, HEC Category: W , IF: 3.024	W	3.024	2020
28	W. Ahmad, **M. Rafiq**, Mujahid Abbas Mathematical analysis to control the spread of Ebolavirus epidemic through voluntary vaccination The European Physical Journal Plus, HEC Category: W , IF: 3.228, publisher: Springer	W	3.228	2020

29	**Z. U. A. ZAFAR**, Z. Shah, N. Ali, E. O. Alzahrani, M. Shutaywi Mathematical and stability analysis of fractional order model for spread of pests in tea plants Fractals-Complex Geometry Patterns and Scaling in Nature and Society, HEC Category: W , IF: 4.536	W	4.536	2020
30	N. Shahid, N. Ahmed, D. Baleanu, A. S. Alshomrani, M. S. Iqbal, M. A. U. Rehman, T. S. Shaikh, **M. Rafiq**, Novel numerical analysis for nonlinear advection–reaction–diffusion systems Open Physics, vol: 18, issue: 1, pages: 112-125, HEC Category: W , IF: 1.005	W	1.005	2020
31	N. Ahmed, M. Ali, D. Baleanu, **M. Rafiq**, M. A. U. Rehman Numerical analysis of diffusive susceptible-infected-recovered epidemic model in three space dimension Chaos, Solitons & Fractals, vol: 132, HEC Category: W , IF: 3.064, publisher: Elsevier	W	3.064	2020
32	K. Abodayeh, A. Raza, M. S. Arif, **M. Rafiq**, M. Bibi, R. Fayaz Numerical analysis of stochastic vector born plant disease model CMC-Computers Materials & Continua, vol: 63, issue: 1, pages: 65-83, HEC Category: W , IF: 3.024	W	3.024	2020
33	N. Ahmed, M. Fatima, D. Baleanu, K. S. Nisar, I. Khan, **M. Rafiq**, M. A. Rehman, M. O. Ahmad Numerical analysis of susceptible exposed infected quarantined and vaccinated (SEIQV) reaction-diffusion epidemic model Frontiers in Physics, vol: 7, HEC Category: W , IF: 1.895	W	1.895	2020
34	**M. Rafiq**, A. Ahmadian, A. Raza, D. Baleanu, M. S. Ahsan, M. H. A. Sathar Numerical control measures of stochastic Malaria epidemic model CMC-Computers, Materials & Continua, vol: 65, issue: 1, pages: 33-51, HEC Category: W , IF: 4.890	W	4.890	2020
35	S. Azam , J. E. Macías-Díaz , N. Ahmed , I. Khan, M. S. Iqbal , **M. Rafiq**, K. S. Nisar , M. O. Ahmad Numerical modeling and theoretical analysis of a nonlinear advection-reaction epidemic system Computer Methods and Programs in Biomedicine, vol: 193, HEC Category: W , IF: 3.632	W	3.632	2020
36	M. S. Arif, A. Raza, **M. Rafiq**, M. Bibi, J. N. Abbasi, A. Nazeer, U. Javed Numerical simulations for stochastic computer virus propagation model CMC-Computers Materials & Continua, vol: 62, issue: 1, pages: 61-77, HEC Category: W , IF: 3.024	W	3.024	2020
37	A. Raza, **M. Rafiq**, D. Baleanu, M. S. Arif Numerical simulations for stochastic meme epidemic model Advances in Difference Equations, HEC Category: W , IF: 1.510, publisher: Springer	W	1.510	2020
38	**Z. U. A. ZAFAR**, Z. Shah, N. Ali, P. Kumam, E. O. Alzahrani Numerical study and stability of the Lengyel–Epstein chemical model with diffusion Advances in Difference Equations, vol: 427, HEC Category: W , IF: 2.421	W	2.421	2020
39	K. Abodayeh , M. S. Arif, A. Raza, **M. Rafiq**, M. Bibi , A. Nazeer Numerical techniques for stochastic foot and mouth disease epidemic model with the impact of vaccination Advances in Difference Equations , vol: 34, HEC Category: W , IF: 1.510	W	1.510	2020

40	N. Ahmed, **M. Rafiq**, D. Baleanu, A. S. Alshomrani, M. A-U. Rehman [Positive explicit and implicit computational techniques for reaction–diffusion epidemic model of dengue disease dynamics](#) Advances in Difference Equations, vol: 202, HEC Category: W , IF: 1.510	W	1.510	2020
41	Z. Iqbal, N. Ahmed , D. Baleanu , W. Adel, **M. Rafiq**, M. A-U. Rehman, A. S. Alshomrani [Positivity and boundedness preserving numerical algorithm for the solution of fractional nonlinear epidemic model of HIV/AIDS transmission](#) Chaos, Solitons & Fractals, vol: 134, HEC Category: W , IF: 3.064, publisher: Elsevier	W	3.064	2020
42	M. Jawaz, N. Ahmed , D. Baleanu, **M. Rafiq**, M. A-U. Rehman [Positivity preserving technique for the solution of HIV/AIDS reaction diffusion model with time delay](#) Frontiers in Physics, vol: 7, HEC Category: W , IF: 1.895	W	1.895	2020
43	N. Ahmed, A. Elsonbaty, W. Adel, D. Baleanu, **M. Rafiq**, [Stability analysis and numerical simulations of spatio-temporal HIV CD4+ T cell model with drug therapy](#) Chaos, Solitons & Fractals, vol: 30, HEC Category: W , IF: 3.764	W	3.764	2020
44	K. Abodayeh, A. Raza, M. S. Arif, **M. Rafiq**, M. Bibi, M. Mohsin [Stochastic numerical analysis for impact of heavy alcohol consumption on transmission dynamics of gonorrhoea epidemic](#) CMC-Computers, Materials & Continua, vol: 62, issue: 3, pages: 1125-1142, HEC Category: W , IF: 3.024	W	3.024	2020
45	N. Ahmed, **M. Rafiq**, D. Baleanu, M. A-U. Rehman, I. Khan, M. Ali, K. S. Nisar [Structure preserving algorithms for mathematical model of auto-catalytic glycolysis chemical reaction and numerical simulations](#) European Physical Journal Plus, vol: 135, issue: 6, HEC Category: W , IF: 2.612	W	2.612	2020
46	Z. Iqbal, N. Ahmed, D. Baleanu, **M. Rafiq**, M. S. Iqbal , M. A-U. Rehman [Structure preserving computational technique for fractional order Schnakenberg model](#) Computational and Applied Mathematics*** , vol: 39, HEC Category: W , IF: 1.260	W	1.260	2020
47	N. Ahmed , **M. Rafiq** , W. Adel , H. Rezazadeh, I. Khan , K. S. Nisar [Structure preserving numerical analysis of HIV and CD4 + T-Cells reaction diffusion model in two space dimensions](#) Chaos, Solitons & Fractals, vol: 139, HEC Category: W , IF: 3.764	W	3.764	2020
48	W. Shatanawi, M. S. Arif, A. Raza, **M. Rafiq**, M. Bibi, J. N. Abbasi [Structure-Preserving dynamics of stochastic epidemic model with the saturated incidence rate](#) Computers, Materials & Continua, vol: 64, issue: 2, pages: 797-811, HEC Category: W , IF: 3.024	W	3.024	2020
49	**K. Naseem****, Z. H. Farooqi, R. Begum, W. Wu, A. Irfan, [Core-shell microgel stabilized silver nanoparticles for catalytic reduction of aryl nitro compounds](#), Applied Organometallic Chemistry, vol: 39, issue: 9, pages: 5742-5756, HEC Category: X, IF: 3.259, publisher: Wiley	X	3.259	2020
50	M. Aravind, A. Ahmad, I. Ahmad, M. Amalanathan, **K. Naseem**, et. al, [Critical green routing synthesis of silver nanoparticles using jasmine flower extract for biological activities and photocatalytic](#)	X	4.300	2020

	degradation of methylene blue, Journal of Environmental Chemical Engineering, HEC Category: X, IF: 4.300, publisher: Elsevier BV			
51	A. A. Mubarak, **S. Tariq**, Influence of pressure on piezoelectric, polarizing and magnetic nature of SmFeO3: DFT study, International Journal of Quantum Chemistry, HEC Category: X, IF: 1.747, publisher: Willey Online Library	X	1.747	2020
52	M. S. Arif, A. Raza, K. Abodayeh, **M. Rafiq**, M. Bibi , A. Nazeer A numerical efficient technique for the solution of susceptible infected recovered epidemic model Computer Modeling in Engineering & Sciences, vol: 164, issue: 2, pages: 477-491, HEC Category: X , IF: 0.805	X	0.805	2020
53	N. Ahmed , D. Baleanu, A. Korkmaz, **M. Rafiq**, M. A. U. Rehman, M. Ali Positivity preserving computational techniques for nonlinear autocatalytic chemical reaction model Romanian Reports in Physics, vol: 72, issue: 4, HEC Category: X , IF: 2.147	X	2.147	2020
54	A. Farooqi, R. Ahmad, R. Farooqi, S. O. Alharbi, D. Baleanu, **M. Rafiq**, I. Khan, M. O. Ahmad, An accurate predictor-corrector-type nonstandard finite difference scheme for an SEIR epidemic model, Journal of Mathematics, vol: 20, HEC Category: Y, IF: 0.712	Y	0.712	2020
55	J-H. Tang, Z. Iqbal, **A. R. Nizami**, M. Munir, F. Azam, J-B. Liu Recurrence relations and Hilbert series of the monoid associated with star topology Journal of Mathematics, vol: 2020, issue: 1, HEC Category: Y , IF: 0.712, publisher: Hindawi	Y	0.712	2020
56	**A. R. Nizami**, A. Naseem, H. M. W. Ahmed The Polygonal cylinder and its Hosoya polynomial Online Journal of Analytic Combinatorics, issue: 15, pages: 1-15, HEC Category: Y , IF: 0.000, publisher: University of Rochester	Y	-	2020
57	**M. Idnan**, A. Javid, M. Nadeem, A. Hussain, **S. Mansoor** , W. Ali, S. M. Bukhari, Preliminary behavior of chinkara (gazella bennettii) under captive conditions with future conservation strategies, RADS Journal of Biological Research & Applied Sciences, vol: 11, issue: 1, pages: 1-8	-	-	2020

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Author** means author exhibits dual affiliations, in which UCP is declared as secondary institute.
Journal Name***: Impact factor journal Not found in HEC database.

▪ **Conference & Miscellaneous Publications**

Sr.	Conference **View**	Year
1	**S. U Rehman**, Durre Shahwar, **Sadaf Javaid**, Acetyl cholinesterase inhibitory potential of some compounds isolated from medicinal plants, Proc. of the 103rd Canadian Chemistry Conference and exhibition	2020
2	**K. Naseem**, Z. U. Rehman, **S. U. rehman**, Recyclable core shell nano catalyst for simultaneous reduction of azo dyes and nitro-aromatic compounds, Proc. of the 3rd International conference on Chemistry (ICC) virtual	2020