



University of Central Punjab, Lahore

Faculty of Sciences & Technology (FOST) - 2023

▪ Journal Publications

Sr. No.	Faculty Member's Name	Publication Title	Journal	Category	Impact Factor	Year
1	Dr Muhammad Naveed	Whole proteome analysis of MDR Klebsiella pneumoniae to identify mRNA and multiple epitope based vaccine targets against emerging nosocomial and lungs associated infections	Journal of Biomolecular Structure and Dynamics	W	4.4	2023
2	Dr Muhammad Naveed	Identification of Bacterial Strains and Development of anmRNA-Based Vaccine to Combat Antibiotic Resistance in Staphylococcus aureus via In Vitro and In Silico Approaches	Biomedicines	W	4.757	2023
3	Dr Muhammad Naveed	The state of health in Pakistan and its provinces and territories, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019	Lancet Global Health,The	W	38.927	2023
4	Dr Muhammad Naveed	Artificial Intelligence Assisted Pharmacophore Design for Philadelphia Chromosome-Positive Leukemia with Gamma-Tocotrienol: A Toxicity Comparison Approach with Asciminib	Biomedicines	W	4.757	2023
5	Dr Muhammad Naveed	Integrated genome based evaluation of safety and probiotic characteristics of Lactiplantibacillus plantarum YW11 isolated from Tibetan kefir	Frontiers in Microbiology	W	6.064	2023
6	Dr Muhammad Naveed	Identification of RdRp inhibitors against SARS-CoV-2 through E-pharmacophore-based virtual screening, molecular docking and MD simulations approaches	International Journal of Biological Macromolecules	W	8.023	2023

7	Dr Muhammad Naveed	Comparative genomics of food-derived probiotic <i>Lactiplantibacillus plantarum</i> K25 reveals its hidden potential, compactness, and efficiency	Frontiers in Microbiology	W	6.064	2023
8	Dr Muhammad Naveed	Global, regional, and national prevalence and mortality burden of sickle cell disease, 2000–2021: a systematic analysis from the Global Burden of Disease Study 2021	Lancet Haematology, The	W	24.7	2023
9	Dr Muhammad Naveed	Identification of NS2B-NS3 Protease Inhibitors for Therapeutic Application in ZIKV Infection: A Pharmacophore-Based High-Throughput Virtual Screening and MD Simulations Approaches	Vaccines	W	4.961	2023
10	Dr Muhammad Naveed & Dr Shafiq Ur Rehman	GC–MS profiling of <i>Bacillus</i> spp. metabolites with an in vitro biological activity assessment and computational analysis of their impact on epithelial glioblastoma cancer genes	Frontiers in Chemistry	W	5.5	2023
11	Dr Muhammad Naveed	Assessing the probiotic potential, antioxidant, and antibacterial activities of oat and soy milk fermented with <i>Lactiplantibacillus plantarum</i> strains isolated from Tibetan Kefir	Frontiers in Microbiology	W	5.2	2023
12	Dr Muhammad Naveed	Drug-use disorders in the Eastern Mediterranean Region: a glance at GBD 2019 findings	Social Psychiatry and Psychiatric Epidemiology	W	4.4	2023
13	Dr Muhammad Naveed	Global Burden of Cardiovascular Diseases and Risks, 1990-2022	Journal of the American College of Cardiology	W	24	2023
14	Dr Muhammad Naveed	Genome Investigation and Functional Annotation of <i>Lactiplantibacillus plantarum</i> YW11 Revealing Streptin and Ruminococcin-A as Potent Nutritive Bacteriocins against Gut Symbiotic Pathogens	Molecules	W	4.927	2023
15	Dr Sumera Zaib	Designing multi-epitope monkeypox virus-specific vaccine using immunoinformatics approach	Journal of Infection and Public Health	W	7.537	2023
16	Dr Sumera Zaib	Ultrasound-Assisted Synthesis of Piperidinyl-Quinoline Acylhydrazones as New Anti-Alzheimer's Agents: Assessment of Cholinesterase Inhibitory Profile, Molecular Docking Analysis, and Drug-like Properties	Molecules	W	4.927	2023
17	Dr Sumera Zaib	Designing Next-Generation Drug-like Molecules for Medicinal Applications	Molecules	W	4.927	2023

18	Dr Sumera Zaib	Preparation and investigation of a novel combination of Solanum nigrum-loaded, arabinoxylan-cross-linked β -cyclodextrin nanosponges for the treatment of cancer: in vitro, in vivo, and in silico evaluation	Frontiers in Pharmacology	W	5.6	2023
19	Dr Sumera Zaib	Discovery of druggable potent inhibitors of serine proteases and farnesoid X receptor by ligand-based virtual screening to obstruct SARS-CoV-2	International Journal of Biological Macromolecules	W	8.2	2023
20	Dr Sumera Zaib	Fabrication and Evaluation of Anticancer Potential of Eugenol Incorporated Chitosan-Silver Nanocomposites: In Vitro, In Vivo, and In Silico Studies	AAPS PharmSciTech	W	3.3	2023
21	Dr Sumera Zaib	Pyrimidine-morpholine hybrids as potent druggable therapeutics for Alzheimer's disease: Synthesis, biochemical and in silico analyses	Bioorganic Chemistry	W	5.1	2023
22	Dr Sumera Zaib	Identification of Potent Inhibitors Targeting EGFR and HER3 for Effective Treatment of Chemoresistance in Non-Small Cell Lung Cancer	Molecules	W	4.927	2023
23	Dr Sumera Zaib	Design and synthesis of novel anti-urease imidazothiazole derivatives with promising antibacterial activity against Helicobacter pylori	PLoS ONE	W	3.752	2023
24	Dr Sumera Zaib	Complex interplay of hydrogen bonding, halogen bonding and π -interactions in methyl 2-(7-chloro-1H-pyrazolo[3,4-b]quinolin-1-yl)acetate: Synthesis, X-ray crystallography, energetic features and anti-urease efficacy	Journal of Molecular Structure	W	3.8	2023
25	Dr Sumera Zaib	Insight into structural topology and supramolecular assembly of tetrahydrocarbazole-carbonitrile: On the importance of noncovalent interactions and urease inhibitory profile	Journal of Molecular Structure	W	3.8	2023
26	Dr Sumera Zaib	N-Arylacetamide derivatives of methyl 1,2-benzothiazine-3-carboxylate as potential drug candidates for urease inhibition	Royal Society Open Science	W	3.653	2023
27	Dr Sumera Zaib	Phytochemical analysis, in vitro and in silico effects from Alstonia boonei De Wild stem bark on selected digestive enzymes and adipogenesis in 3T3-L1 preadipocytes	BMC Complementary Medicine and Therapies	W	3.9	2023
28	Dr Sumera Zaib	Identification of Potential Inhibitors for the Treatment of Alkaptonuria Using an Integrated In Silico Computational Strategy	Molecules	W	4.927	2023

29	Dr Muhammad Rafiq	A reliable numerical investigation of an SEIR model of measles disease dynamics with fuzzy criteria	Scientific Reports	W	4.6	2023
30	Dr Muhammad Rafiq	Optimally analyzed fractional Coronavirus model with Atangana–Baleanu derivative	Results in Physics	W	5.3	2023
31	Dr Muhammad Rafiq	Numerical simulations with mitigation strategies on Barabási–Albert network for the spread of coronavirus in Pakistan	European Physical Journal Plus	W	3.4	2023
32	Dr Muhammad Rafiq	Numerical investigation of a typhoid disease model in fuzzy environment	Scientific Reports	W	4.6	2023
33	Dr Muhammad Rafiq	Spatio-temporal numerical modeling of stochastic predator-prey model	Scientific Reports	W	4.996	2023
34	Dr Muhammad Rafiq	Implementation of computationally efficient numerical approach to analyze a Covid-19 pandemic model	AEJ – Alexandria Engineering Journal	W	6.626	2023
35	Dr Muhammad Rafiq	STRUCTURE PRESERVING SPLITTING TECHNIQUES FOR EBOLA REACTION–DIFFUSION EPIDEMIC SYSTEM	Fractals	W	4.7	2023
36	Dr Muhammad Rafiq	Investigation the soliton solutions of mussel and algae model leading to concentration	AEJ – Alexandria Engineering Journal	W	6.626	2023
37	Dr Muhammad Rafiq	Computational Investigation of Hand Foot Mouth Disease Dynamics with Fuzziness	Computers, Materials and Continua	W	3.86	2023
38	Dr Muhammad Rafiq	A dynamical study on stochastic reaction diffusion epidemic model with nonlinear incidence rate	European Physical Journal Plus	W	3.758	2023
39	Dr Muhammad Rafiq & Dr Nizami	Transmission of SARS-CoV-2 on Barabási–Albert network under constant and variable rates of infection	European Physical Journal Plus	W	3.4	2023
40	Dr Muhammad Rafiq	A dynamical study of diarrhea delayed epidemic model: application of mathematical biology in infectious diseases	European Physical Journal Plus	W	3.4	2023
41	Dr Muhammad Rafiq	Computational study of a co-infection model of HIV/AIDS and hepatitis C virus models	Scientific Reports	W	4.6	2023
42	Dr Muhammad Rafiq	Computationally efficient optimal control analysis for the mathematical model of Coronavirus pandemic	Expert Systems with Applications	W	8.5	2023

43	Dr Shafiq Ur Rehman & Dr Muhammad Naveed	Synthesis of Iron Oxide Nanoparticles from Madhuca indica Plant Extract and Assessment of Their Cytotoxic, Antioxidant, Anti-Inflammatory, and Anti-Diabetic Properties via Different Nanoinformatics Approaches	ACS Omega	W	4.1	2023
44	Dr Shafiq Ur Rehman	Experimental and Theoretical Biological Probing of Schiff Bases as Esterase Inhibitors: Structural, Spectral and Molecular Insights	Molecules	W	4.6	2023
45	Dr Shafiq Ur Rehman & Dr Muhammad Naveed	Molecular Characterization of spa, hld, fmhA, and lukD Genes and Computational Modeling the Multidrug Resistance of Staphylococcus Species through Callindra harrisii Silver Nanoparticles	ACS Omega	W	4.132	2023
46	Dr Shafiq Ur Rehman & Dr Muhammad Naveed	Biosynthesis and Mathematical Interpretation of Zero-Valent Iron NPs Using Nigella sativa Seed Tincture for Indemnification of Carcinogenic Metals Present in Industrial Effluents	Molecules	W	4.927	2023
47	Dr Hafiza Rizwana Kausar	Warm inflation in hybrid metric-Palatini gravity under standard and irreversible thermodynamical approach	European Physical Journal C	W	4.991	2023
48	Dr Hafiza Rizwana Kausar	Cluster of stars in f(G, T) gravity	Physica Scripta	W	3.081	2023
49	Dr Muhammad Riaz	Synergistic Antibacterial Screening of Cymbopogon citratus and Azadirachta indica: Phytochemical Profiling and Antioxidant and Hemolytic Activities	ACS Omega	W	4.132	2023
50	Dr Muhammad Akhyar Farrukh	The Impact of Different Green Synthetic Routes on the Photocatalytic Potential of FeSnO ₂ for the Removal of Methylene Blue and Crystal Violet Dyes under Natural Sunlight Exposure	Catalysts	W	3.9	2023
51	Dr Khalida Naseem	Inorganic nanoparticles fabricated alginate based nanocomposites for the treatment of brilliant blue dye	Journal of Molecular Structure	W	3.8	2023
52	Dr Khalida Naseem	Copper (II) ions extraction by poly(N-vinylcaprolactam-methacrylic acid) microgels for in situ reduction formation of copper nanoparticles to reduce pollutants	Journal of Molecular Liquids	W	6	2023
53	Dr Dilawar Hussain	Metabolism of linoleic and linolenic acids in muscle cells of two freshwater fish with n-3 or n-6 fatty acid requirements	Aquaculture	W	5.135	2023

54	Dr Zain Ul Abadin Zafar	Stochastic suicide substrate reaction model	Physica A: Statistical Mechanics and its Applications	W	3.778	2023
55	Muhammad Awais	Molecular identification of missense variants in SLC3A1 gene; an approach leading to computer-aided drug design for cystinuria	Gene	W	3.5	2023
56	Dr Kanza Aziz Awan & Dr Hafiz Rizwan Sharif	Potential industrial and nutritional applications of shrimp by-products: a review	International Journal of Food Properties	W	2.9	2023
57	Dr Syed Karrar Haider & Dr Tahira Shujah	Multiple phases of yttrium-doped molybdenum trioxide nanorods as efficient dye degrader and bactericidal agents with molecular docking analysis	Chemosphere	W	3.8	2023
58	Dr Asma Zafar	Enzymatic hydrolysis of low temperature alkali pretreated wheat straw using immobilized β -xylanase nanoparticles	RSC Advances	W	4.036	2023
59	Dr Hafiz Rizwan Sharif (Article published in July but volume is in 2024)	Optimization of Extraction Process and Estimation of Flavonoids from Fenugreek Using Green Extracting Deep Eutectic Solvents Coupled with Ultrasonication	Food and Bioprocess Technology	W	5.6	2023
60	Muhammad Asim Farooq	Evolution of expansion-free massive stellar object in $f(R, T)$ gravity	European Physical Journal Plus	W	3.758	2023
61	Dr Khalida Naseem	Adsorptive removal of heavy metals and dyes from wastewater using Azadirachta indica biomass	International Journal of Environmental Science and Technology	W	3.159	2023
62	Dr Muhammad Rafiq	Analysis of the fractional polio model with the Mittag-Leffler kernels	Alexandria Engineering Journal	W	6.626	2023
63	Dr Sumera Zaib	Computational approaches for innovative anti-viral drug discovery using Orthosiphon aristatus blume miq against dengue virus	Journal of Biomolecular Structure and Dynamics	W	3.392	2023
64	Dr Hira Mubeen	Computational insights into missense mutations in HTT gene causing Huntington's disease and its interactome networks	Irish Journal of Medical Science	W	2.089	2023
65	Dr Zain Ul Abadin Zafar	IMPACT OF PUBLIC HEALTH AWARENESS PROGRAMS ON COVID-19 DYNAMICS: A FRACTIONAL MODELING APPROACH	Fractals	W	4.55	2023

66	Dr Muhammad Rafiq	A finite difference scheme to solve a fractional order epidemic model of computer virus	AIMS Mathematics	W	2.739	2023
67	Dr Muhammad Rafiq	Modeling of Computer Virus Propagation with Fuzzy Parameters	Computers, Materials and Continua	W	3.86	2023
68	Faheem Ahmed Khan	Molecular Evolution of the Bactericidal/Permeability-Increasing Protein (BPIFA1) Regulating the Innate Immune Responses in Mammals	Genes	W	4.141	2023
69	Dr Muhammad Rafiq	New Trends in Fuzzy Modeling Through Numerical Techniques	Computers, Materials and Continua	W	3.86	2023
70	Dr Muhammad Rafiq	Numerical approximations of stochastic Gray-Scott model with two novel schemes	AIMS Mathematics	W	2.739	2023
71	Dr Muhammad Rafiq	Numerical Investigation of Malaria Disease Dynamics in Fuzzy Environment	Computers, Materials and Continua	W	3.86	2023
72	Dr Muhammad Rafiq	Numerical simulations of nonlinear stochastic Newell-Whitehead-Segel equation and its measurable properties	Journal of Computational and Applied Mathematics	W	2.872	2023
73	Dr Muhammad Rafiq	Numerical simulations on scale-free and random networks for the spread of COVID-19 in Pakistan	Alexandria Engineering Journal	W	6.626	2023
74	Dr Muhammad Rafiq	Optimization of Coronavirus Pandemic Model Through Artificial Intelligence	Computers, Materials and Continua	W	3.86	2023
75	Dr Muhammad Rafiq	Positivity preserving numerical method for epidemic model of hepatitis B disease dynamic with delay factor	Alexandria Engineering Journal	W	6.626	2023
76	Dr. Zain Ul Abadin Zafar	Numerical simulation and analysis of the stochastic HIV/AIDS model in fractional order	Results in Physics	W	5.3	2023
77	Dr. Khalida Naseem	Biogenic synthesized nanocatalysts and their potential for the treatment of toxic pollutants: environmental remediation, a review	International Journal of Environmental Science and Technology	W	3.1	2023
78	Dr. Amina Arif	Tailoring molecular recognition in predesigned multifunctional enzyme mimicking porphyrin imprinted interface for high affinity and differential selectivity; sensing etoposide in lung cancer patients	Biosensors and Bioelectronics	W	12.6	2023

79	Dr. Muhammad Rafiq	A Nonstandard Computational Investigation of SEIR Model with Fuzzy Transmission, Recovery and Death Rates	Computers, Materials and Continua	W	3.1	2023
80	Dr. Hafiz Rizwan Sharif	New Insights into Health-Promoting Effects of Nobiletin from Citrus Fruits	Food Reviews International	W	6.043	2023
81	Dr. Zain Ul Abadin Zafar	The analysis of a new fractional model to the Zika virus infection with mutant	Heliyon	W	4	2023
82	Dr. Sumera Zaib	Targeting carbonic anhydrases II/IX/XII with novel series of coumarin-based compounds: Synthesis, biological activity and molecular dynamics analysis	Journal of Molecular Structure	W	3.8	2023
83	Dr. Tanzeela Riaz	Comparative effectiveness of deltamethrin, imidacloprid and emamectin benzoate alone and in binary blends to control <i>Trogoderma granarium</i> : Effect on macronutrients	Journal of Stored Products Research	W	2.7	2023
84	Dr. Muhammad Akhyar Farrukh	Citrus limetta essential oil mediated synthesis of Dy ₂ O ₃ /Eu ₂ O ₃ /rGO nanocomposite for the removal of ciprofloxacin under irradiation of visible and UV light	Materials Science and Engineering B: Solid-State Materials for Advanced Technology	W	3.6	2023
85	Dr. Muhammad Akhyar Farrukh	pH-dependent synthesis of CeO ₂ -ZnO nanocomposite for enhanced environmental remediation of endosulfan and dimethoate pesticides	Journal of Molecular Structure	W	3.8	2023
86	Dr. Muhammad Sajid Manzoor	Expression of IFN-Gamma is significantly reduced during severity of covid-19 infection in hospitalized patients	PLoS ONE	W	3.7	2023
87	Muhammad Saad Tariq	DFT insights into LaFeO ₃ with Mn substitution: A promising path to energy-efficient magneto-optical applications	Journal of Computational Chemistry	W	3	2023
88	Dr. Nimra Afzal	Microplastics: unraveling the signaling pathways involved in reproductive health	Environmental Science and Pollution Research	W	5.8	2023
89	Dr. Khalida Naseem	Strategies adopted for the preparation of sodium alginate-based nanocomposites and their role as catalytic, antibacterial, and antifungal agents	Reviews in Chemical Engineering	W	8.742	2023
90	Muhammad Saad Tariq	Study of double perovskites In ₂ Ti(Br/I) ₆ for solar cells, and renewable energy; Alternative of hybrid perovskites	Materials Science in Semiconductor Processing	W	4.644	2023

91	Dr. Sadaf Hameed	Ultrasmall porphyrin-silica core-shell dots for enhanced fluorescence imaging-guided cancer photodynamic therapy	Nanoscale Advances	W	5.598	2023
92	Dr. Saba Kabir	Effect of tellurite on growth of extensively drug resistant (XDR) Mycobacterium tuberculosis and action on mycobacterial drug efflux pump	Journal of King Saud University – Science	W	3.829	2023
93	Dr. Muhammad Afzal	Characterization of Bioactive Compounds and Novel Proteins Derived from Promising Source Citrullus colocynthis along with In-Vitro and In-Vivo Activities	Molecules	W	4.923	2023
94	Dr. Muhammad Afzal	Synthesis, Characterization and Biological Activities of Zinc Oxide Nanoparticles Derived from Secondary Metabolites of Lentinula edodes	Molecules	W	4.927	2023
95	Muhammad Saad Tariq	Elucidating the effect of Pb and Ba substitution in SrTcO ₃ for advanced radioactive semiconducting applications	Optical and Quantum Electronics	W	2.794	2023
96	Muhammad Ramzan	Assessment of the Phytochemical Analysis and Antimicrobial Potentials of Zingiber zerumbet	Molecules	W	4.411	2023
97	Izzah Shahid	Genome mining of Pseudomonas spp. hints towards the production of under-pitched secondary metabolites	3 Biotech	W	2.893	2023
98	Dr Muhammad Naveed	A pharmacophore screening approach of homeopathic phenols for a renovated design of fragment-optimized Bauhiniastatin-1 as a drug against acromegaly	European Review for Medical and Pharmacological Sciences	X	3.3	2023
99	Dr Muhammad Naveed	A reverse vaccinology approach to design an mRNA-based vaccine to provoke a robust immune response against HIV-1	Acta Biochimica Polonica	X	2.349	2023
100	Dr Muhammad Naveed	Side chain inset of neurogenerative amino acids to metalloproteins: a therapeutic signature for huntingtin protein in Huntington's disease	European Review for Medical and Pharmacological Sciences	X	3.3	2023
101	Dr Muhammad Naveed	A one-health approach to design an mRNA-based vaccine candidate against the lumpy skin disease virus as an alternative to live-attenuated vaccines	European Review for Medical and Pharmacological Sciences	X	3.3	2023

102	Dr Muhammad Naveed	Halogens engineering-based design of agonists for boosting expression of frataxin protein in Friedreich's ataxia	European Review for Medical and Pharmacological Sciences	X	3.3	2023
103	Dr Muhammad Naveed	CRISPR-Cas9 guided RNA based model for the treatment of Amyotrophic Lateral Sclerosis: A progressive neurodegenerative disorder	Acta Biochimica Polonica	X	1.7	2023
104	Dr Muhammad Naveed	Designing a novel chimeric multi-epitope vaccine subunit against Staphylococcus argenteus through artificial intelligence approach integrating pan-genome analysis, in vitro identification, and immunogenicity profiling	Journal of Biomolecular Structure and Dynamics	X	4.4	2023
105	Dr Muhammad Naveed	In silico explorations of bacterial mercuric reductase as an ecofriendly bioremediator for noxious mercuric intoxications	Acta Biochimica Polonica	X	1.7	2023
106	Dr Muhammad Naveed	An mRNA-based reverse-vaccinology strategy to stimulate the immune response against Nipah virus in humans using fusion glycoproteins	Acta Biochimica Polonica	X	1.7	2023
107	Dr Muhammad Naveed	Revolutionizing treatment for toxic shock syndrome with engineered super chromones to combat antibiotic-resistant Staphylococcus aureus	European Review for Medical and Pharmacological Sciences	X	3.3	2023
108	Dr Muhammad Naveed	TULP3 NLS inhibition: an in silico study to hamper cargo transport to nucleus	Journal of Biomolecular Structure and Dynamics	X	4.4	2023
109	Dr Sumera Zaib	Computational approaches for innovative anti-viral drug discovery using Orthosiphon aristatus blume miq against dengue virus	Journal of Biomolecular Structure and Dynamics	X	4.4	2023
110	Dr Sumera Zaib	Unraveling the impact of hydrogen bonding and C–H... π (CN) interactions in crystal engineering of cyclic aminobenzonitriles: A combined X-ray crystallographic and computational investigation	Journal of Molecular Structure	X	3.841	2023
111	Dr Sumera Zaib	Evaluating the Anti-Gastric Ulcer Activity of Aegle marmelos: A Brief Review	ChemistrySelect	X	2.307	2023
112	Dr Sumera Zaib	Role of Human Papillomavirus in Various Cancers: Epidemiology, Screening and Prevention	Mini-Reviews in Medicinal Chemistry	X	3.737	2023

113	Dr Sumera Zaib	Identification of potential inhibitors targeting yellow fever virus helicase through ligand and structure-based computational studies	Journal of Biomolecular Structure and Dynamics	X	4.4	2023
114	Dr Sumera Zaib	Discovery of Hydrazone Scaffolds as Potent and Selective Multitarget-Directed Ligands for the Treatment of Neurodegenerative Disorders	ChemistrySelect	X	2.1	2023
115	Dr Sumera Zaib	Purinergic Signaling and its Role in the Stem Cell Differentiation	Mini-Reviews in Medicinal Chemistry	X	3.8	2023
116	Dr Sumera Zaib	An Evaluation of Biomarkers as Determinants of Peripheral Arterial Disease in those with Diabetes Mellitus	ChemistrySelect	X	2.307	2023
117	Dr Sumera Zaib	Analyzing the Challenges, Consequences, and Possible Treatments for Polycystic Ovary Syndrome	Mini-Reviews in Medicinal Chemistry	X	3.8	2023
118	Dr Sumera Zaib	Neurodegenerative Diseases: Their Onset, Epidemiology, Causes and Treatment	ChemistrySelect	X	2.307	2023
119	Dr Muhammad Rafiq	A novel method for the dynamics of worms in wireless sensor networks with fuzzy partition	AIP Advances	X	1.6	2023
120	Dr Muhammad Rafiq	Computational aspects of an epidemic model involving stochastic partial differential equations	International Journal of Modern Physics C	X	1.353	2023
121	Dr Muhammad Rafiq	Numerical investigations of stochastic Newell–Whitehead–Segel equation in (2+1) dimensions	International Journal of Modern Physics B	X	1.404	2023
122	Dr Muhammad Rafiq	Modeling and transmission dynamics of Zika virus through efficient numerical method	AIP Advances	X	1.6	2023
123	Dr Muhammad Rafiq	Analysis of a Modified System of Infectious Disease in a Closed and Convex Subset of a Function Space with Numerical Study	Axioms	X	1.824	2023
124	Dr Muhammad Rafiq	Computational Analysis for Computer Network Model with Fuzziness	Intelligent Automation and Soft Computing	X	3.401	2023
125	Dr Muhammad Rafiq	Dynamical analysis of a class of SEIR models through delayed strategies	AIP Advances	X	1.6	2023
126	Dr Muhammad Rafiq	A non-standard computational method for stochastic anthrax epidemic model	AIP Advances	X	1.6	2023
127	Dr Muhammad Rafiq	Evolutionary computational method for tuberculosis model with fuzziness	AIP Advances	X	1.6	2023

128	Dr Shafiq Ur Rehman	Computational modeling of imines based anti-oxidant and anti-esterases compounds: Synthesis, single crystal and In-vitro assessment	Computational Biology and Chemistry	X	3.737	2023
129	Dr Hafiza Rizwana Kausar & Dr Amal Majid	Comparison of energy conditions in general relativity and modified theories of gravity	International Journal of Geometric Methods in Modern Physics	X	1.8	2023
130	Dr Hafiza Rizwana Kausar	Impact of minimal matter-geometry coupling on anisotropic quark stars	International Journal of Geometric Methods in Modern Physics	X	1.8	2023
131	Dr Muhammad Riaz	Variations in the composition and biochemical attributes of Eucalyptus camaldulensis L. leaves essential oil as function of drying methods	Journal of Essential Oil-Bearing Plants	X	2.4	2023
132	Dr Muhammad Akhyar Farrukh	Comparison of photocatalytic and antibacterial activities of allotropes of graphene doped Sm ₂ O ₃ nanocomposites: Optical, thermal, and structural studies	Journal of the Chinese Chemical Society	X	1.753	2023
133	Dr Khalida Naseem	Raphanus caudatus biomass powder as potential adsorbent for the removal of crystal violet and Rhodamine B dye from wastewater	Zeitschrift fur Physikalische Chemie	X	2.5	2023
134	Dr Khalida Naseem	Towards sustainable water purification: MOFs as a promising solution to eliminate toxic water pollutant resorcinol	Zeitschrift fur Physikalische Chemie	X	2.5	2023
135	Dr Muhammad Riaz	Moxifloxacin and hydrazine mix ligand metal complexes of Cd(II), Cu(II), Co(II), and Zn(II); synthesis, characterization, and pharmacological activities, with molecular docking studies	Inorganic Chemistry Communications	X	3.8	2023
136	Dr. Salma Batool	A Decade of Progress in Rhizoengineering to Exploit Plant Microbiome for Salinity Amelioration	Plant Stress	X	5	2023
137	Dr. Tanzeela Riaz	Sublethal Doses of Clove Oil Deplete the Energy Reserves and Downregulate the Carbohydrate Metabolizing Enzymes in the 4th Instar Larvae of Trogoderma granarium	Pakistan Journal of Zoology	X	0.6	2023
138	Dr. Amina Arif	Tracking molecular response of tyrosine kinase inhibitors therapy in chronic myeloid leukemia patients using rt-pcr profiling of bcr-abl transcripts	Chelonian Conservation and Biology	X	0.7	2023

139	Dr. Sumera Zaib	Cooperative assemblies featuring hydrogen bonding and C-H... π interactions in 2-(methanesulfonamido)benzohydrazide derivatives: Experimental, computational and biochemical assessment	Journal of Molecular Structure	X	3.8	2023
140	Muhammad Saad Tariq	Deciphering the impact of pressure on the electronic, mechanical, and structural properties of PrMnO ₃ through density functional theory analysis	Transition Metal Chemistry	X	1.7	2023
141	Dr. Khalida Naseem	Role of bioinorganic metal nanoparticles as catalyst for the treatment of dyes polluted wastewater	Inorganic Chemistry Communication	X	3.8	2023
142	Muhammad Saad Tariq	Pressure-induced effects on PrAO ₃ (A = Cr and Fe) ferromagnets: a DFT study for spintronic and energy storage devices	Chemical Papers	X	2.2	2023
143	Muhammad Saleem	Vitamin C and Phenolic Compounds in Fruit Peel and Pulp Waste	Journal of Food and Nutrition Research	X	1.1	2023
144	Dr. Muhammad Afzal	Pharmacological Activities and In-Silico Studies of Bioactive Compounds Identified in Organic Fractions of the Methanolic Extract of Citrullus Colocynthis	Dose-Response	X	2.5	2023
145	Dr. Zain Ul Abadin Zafar	A note on weakly σ -n-embedded subgroups of σ -full groups	Ricerche di Matematica	X	1.2	2023
146	Dr. Muhammad Rafiq	Numerical Analysis for the Effect of Irresponsible Immigrants on HIV/AIDS Dynamics	Intelligent Automation & Soft Computing	X	3.401	2023
147	Dr. Khalida Naseem	Thermo-chemical conversion of pre-treated cucumber peel	Environmental Progress and Sustainable Energy	X	2.824	2023
148	Muhammad Saad Tariq	The optoelectronic application of CsSnI ₃ upon substitution with Pb: A DFT approach	International Journal of Quantum Chemistry	X	2.437	2023
149	Muhammad Saad Tariq	Elucidating the Effect of Pressure on Structural, Electronic, Magnetic, Mechanical and Thermal Properties of Mn ₂ ZrZ (Z=Ge and Si): DFT Overview	ECS Journal of Solid State Science and Technology	X	2.483	2023
150	Dr. Muhammad Naveed	Chain-Engineering-Based De Novo Drug Design against MPXVgp169 Virulent Protein of Monkeypox Virus: A Molecular Modification Approach	Bioengineering	X	5.046	2023
151	Dr. Amina Arif	Prospective Biochemical Analysis of Chronic Myeloid Leukemia Patients in Response to Tyrosine Kinase Inhibitors	Pakistan Journal of Zoology	X	0.678	2023

152	Dr Salma Batool	Anti-inflammatory Alkaloids Targeting IL-1 against Respiratory Viral Infections: A Special Insight into Drug Development against SARS-CoV-2	Mini-Reviews in Chemistry	X	2.3	2023
153	Dr Zain Ul Abadin Zafar (2024)	Multi-type solitary wave solutions of Korteweg–de Vries (KdV) equation	International Journal of Modern Physics B	X	1.404	2023
154	Dr Zain Ul Abadin Zafar	Numerical analysis of Bazykin–Berezovskaya model	Journal of Taibah University for Science	X	3.459	2023
155	Zainab Hassan	Preparation and characterization of edible whey protein nanofibrils and efficacy studies on the quality and shelf-life of chilled food products	Journal of Food Safety	X	2.449	2023
156	Dr. Khalida Naseem	Enzymes encapsulated smart polymer micro assemblies and their tuned multi-functionalities: a critical review	International Journal of Polymeric Materials and Polymeric Biomaterials	X	3.221	2023
157	Dr. Khalida Naseem	Investigating adsorptive potential of Raphanus caudatus leaves biomass for methyl orange dye: isotherm and kinetic study	Zeitschrift fur Physikalische Chemie	X	4.315	2023
158	Dr Muhammad Rafiq	Analysis and numerical effects of time-delayed rabies epidemic model with diffusion	International Journal of Nonlinear Sciences and Numerical Simulation	X	2.156	2023
159	Muhammad Awais	Biosynthesis of silver nanoparticles from novel Bischofia javanica plant loaded chitosan hydrogel: as antimicrobial and wound healing agent	Biomass Conversion and Biorefinery	X	4.05	2023
160	Muhammad Riaz	Chemical Characterization, Antioxidant, Antimicrobial, Cytotoxicity and in Silico Studies of Hexane Extract and Essential Oils from Citrus limon Leaves	Chemistry and Biodiversity	X	2.75	2023
161	Dr Sumera Zaib	Frontiers and Approaches in Anticancer Drug Discovery: An Editorial Overview	Anti-Cancer Agents in Medicinal Chemistry	X	2.527	2023

162	Zain Ul Abadin Zafar	Mathematical modeling of corona virus (COVID-19) and stability analysis	Computer Methods in Biomechanics and Biomedical Engineering	X	1.669	2023
163	Muhammad Sajid Manzoor	Phenolic acid profile of oat cultivars, and their suppressive effect on intracellular reactive oxygen species	International Food Research Journal	X	1.169	2023
164	Dr Muhammad Rafiq	Stochastic Analysis for the Dynamics of a Poliovirus Epidemic Model	CMES-Computer Modeling in Engineering & Sciences	X	2.027	2023
165	Muddasir Ali Shah	Role of electron temperature at extremely low density in negative positive ion plasma	AIP Advances	X	1.6	2023
166	Ammara Masood & Dr Asma zafar	ATP SYNTHASE SUBUNITS: STRUCTURE AND ROLE IN PLANTS UNDER STRESS CONDITIONS	Pakistan Journal of Botany	X	1.101	2023
167	Dr Tanzeela Riaz	Characterization of Secondary Metabolites Identified in Lentinula edodes and Determination of Their Biological Activities by in-silico Antioxidant Screening	ChemistrySelect	X	2.1	2023
168	Dr Muhammad Naveed	Exploring the potential application of peroxidase enzyme from Acinetobacter baumannii as an eco-friendly agent for the bioremediation of the highly noxious pyrethroid compounds through molecular docking analysis	Biomass Conversion and Biorefinery	X	4	2023
169	Dr Shafiq Ur Rehman	Eco-friendly Synthesis of benzyl 4-(((4-bromophenyl)sulfonamido)methyl)cyclohexane-1-carboxylate; Physical and Biological Evaluation	Iranian Journal of Chemistry and Chemical Engineering	X	Non-Impact Factor	2023
170	Dr Amina Arif	Quercetin and chlorogenic acid as bioactive compounds show promising docking site interaction and reveal these bioactive compounds as potential targets for rheumatoid arthritis	Informatics in Medicine Unlocked	X	Non-Impact Factor	2023
171	Dr Amina Arif	IDENTIFICATION OF NOVEL MISSENSE PATHOGENIC VARIANT IN FGFR3 GENE CAUSING ACHONDROPLASIA (ACH) IN PAKISTANI PATIENTS	Xi'an Shiyou Daxue Xuebao (Ziran Kexue Ban)/Journal of Xi'an Shiyou University, Natural Sciences	X	Non-Impact Factor	2023

172	Dr Muhammad Naveed	In Silico Investigation of a Chimeric IL24-LK6 Fusion Protein as a Potent Candidate Against Breast Cancer	Bioinformatics and Biology Insights	Y	Non-Impact Factor	2023
173	Dr Sumera Zaib	Nutritional and Health Benefits of Cereals and Grains	Current Nutrition Food Science	Y	Non-Impact Factor	2023
174	Dr Sumera Zaib	Silybum marianum: An Overview of its Phytochemistry and Pharmacological Activities with Emphasis on Potential Anticancer Properties	Anti-Cancer Agents in Medicinal Chemistry	Y	2.527	2023
175	Dr Shafiq Ur Rehman & Dr Nadeem Ullah & Dr Sadia Zulfiqar	Study of Association between Elevated Cardiac Markers with Cardiac Arrest	Tobacco Regulatory Science	Y	2.024	2023
176	Dr Shafiq Ur Rehman & Dr Nadeem Ullah & Dr Sadia Zulfiqar	In Silico analysis of SOX2 genes mutations in Leukemia Patients through Ecosystem approach	Tobacco Regulatory Science	Y	2.024	2023
177	Dr Muhammad Riaz & Dr Muhammad Afzal & Dr Muhammad Pervaiz	Characterization and antioxidant potential of white mustard (Brassica hirta) leaf extract and stabilization of sunflower oil	Open Chemistry	Y	2.3	2023
178	Dr Muhammad Akhyar Farrukh	Facile Synthesis of Gd ₂ O ₃ /rGO Nanocomposite: Optical, Thermal, Morphological, Structural, and Catalytic Studies	Russian Journal of Physical Chemistry A	Y	0.791	2023
179	Dr Muhammad Naveed	Computational Drug Shifting Towards Drug-Drug Conjugates and Monoclonal Antibody Conjugates in the Contradictory Excursion of Asthma	Letters in Drug Design & Discovery	Y	1.099	2023
180	Izzah Shahid	In-silico Evaluation of Novel Honokiol Derivatives against Breast Cancer Target Protein LKB1	Anti-Cancer Agents in Medicinal Chemistry	Y	2.527	2023
181	Dr. Muhammad Naveed	Assessment of Melia azedarach Plant Extracts Activity Against Hypothetical Protein of Mycobacterium tuberculosis via GC-MS Analysis and In Silico Approaches	Journal of Computational Biophysics and Chemistry	Y	2.2	2023

182	Dr. Muhammad Naveed	Spatially Resolved Transcriptomics Reveals Local Invasion-Related Genes in Liver Hepatocellular Carcinoma: Exploring the Therapeutic Potential of a Chimeric Protein Targeting Glypican-3	Journal of Computational Biophysics and Chemistry	Y	2.2	2023
183	Dr Aatif Amin	Evaluation of Antimicrobial Effect of Silver Nanoparticle Based Whey Emulsions and Edible Films for the Extension of Shelf Life of Fruits and Vegetables	Current Microbiology	Y	2.343	2023
184	Dr Salma Batool & Muhammad Awais (2024)	Strategies for Crossing Biological Barriers in Drug Delivery	Proceedings of the National Academy of Science India Section B - Biological Sciences	Y	Non-Impact Factor	2023
185	Dr Salma Batool	Molecular Analysis Of Beta-Globin And Its Correlation With Serum Ferritin Levels In Beta-Thalassemia Patients In Punjab, Pakistan”	Journal of Pharmaceutical Negative Results	Y	Non-Impact Factor	2023
186	Dr Muhammad Riaz	Screening of phytochemicals and in vitro antidiabetic potential of raphanus sativus leaves extract	Pakistan Journal of Phytopathology	Y	Non-Impact Factor	2023
187	Dr Muhammad Riaz	Pathogens detection and identification in drinking water	International Journal of Chemical and Biochemical Sciences	Y	Non-Impact Factor	2023
188	Dr Muhammad Perviaz	EQUILIBRIUM ISOTHERMSTUDIES ON BATCH BIOSORPTION OF TOXIC NICKEL THROUGH FILAMENTOUS FUNGI	Journal Plantarum	Y	Non-Impact Factor	2023
189	Dr Muhammad Perviaz	Synthesis, in vitro α -glucosidase and α -amylase activities and molecular docking study of oxadiazole-sulphonamide hybrid analogues	Chemical Data Collections	Y	Non-Impact Factor	2023
190	Dr Muhammad Perviaz	Synthesis, acetylcholinesterase and butyrylcholinesterase inhibitory potential and molecular docking study of thiazole bearing thiourea analogues	Chemical Data Collections	Y	Non-Impact Factor	2023

191	Ruqia Arif	INVESTIGATING THE ROLE OF ANIMAL BEHAVIOUR IN THE TRANSMISSION AND SPREAD OF ZOONOTIC DISEASES	Biological and Clinical Sciences Research Journal	Y	Non-Impact Factor	2023
192	Dr Muhammad Riaz	Moxifloxacin Metal Complexes: Synthesis, Characterisation, Antimicrobial and Antidiabetic Activities with Docking Studies	Bioinorganic Chemistry and Applications	Non-Recognized	Non-Impact Factor	2023
193	Dr Muhammad Naveed	Molecular docking and density functional theory (DFT) studies on the conversion of linoleic acid into fatty acid metabolites by <i>Lactiplantibacillus plantarum</i> 12-3	Food Science of Animal Products	Non-Recognized	Non-Impact Factor	2023
194	Muhammad Awais	A review on Forkhead Box A1 (FOXA1) gene; A potent candidate for prostate and breast cancer	Pure and Applied Biology (PAB)	Non-Recognized	Non-Impact Factor	2023
195	Dr Dilawar Hussain	Comparative Study of Whole-Body Proximate Composition, Dressing Losses and Bioaccumulation of Heavy Metals in Muscle Tissues of Wild and Farm Raised Labeo Rohita	Journal of Zoology and Systematics	Non-Recognized	Non-Impact Factor	2023
196	Dr Nadeem Ullah	Antibacterial Activity of Roots of Medicinal Plants from Flora of Pakistan	Journal of Biotechnology & Bioresearch	Non-Recognized	Non-Impact Factor	2023
197	Dr Muhammad Rafiq	New Trends in the Modeling of Diseases Through Computational Techniques	Computer Systems Science Engineering	Y (2022-2023)	Non-Impact Factor	2023

▪ **Conference & Miscellaneous Publications**

Sr. No.	Faculty Member's Name	Paper Title	Conference Title	Year
1	Waleed Sultan	“New methods for planning and evaluating programs for food fortification”	Food Crisis in Pakistan Opportunities and Solutions	2023
2	Asfar Nisar	Computationally Efficient Numerical Analysis of Rotavirus Epidemic Model	4th International Conference on computing, Mathematics & Engineering Technologies 2023.	2023
3	Dr Salma Batool	Design, Synthesis, and Assessment of 3-picolinic acid-based siderophores in relation to mineral uptake and plant growth	International Conference on Biological and Medical Sciences ICBMS 2023	2023
4	Dr Salma Batool	Assessment of Efflux Pump Inhibition by Flavonoids using Berberine Uptake Assay against Nosocomial Pathogens	International Conference on Biological and Medical Sciences ICBMS 2023	2023
5	Dr Salma Batool	Design and Synthesis of novel 2-Nicotinic acid based Siderophores to promote Mineral uptake and Plant growth.	International Conference on Biological and Medical Sciences ICBMS 2023	2023
6	Dr Nadeem Ullah	taxonomic studies of fresh water algae from different sites of Lahore, Punjab, Pakistan	1st International Conference on Recent Innovations in Plant Sciences and Natural Products-2023	2023