Dr. Azeem Intisar
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OBJECTIVE

To best serve my institution by effectively utilizing skills and expertise in research and education in a stable environment to make positive contribution to science and humanity.

ACADEMIC QUALIFICATIONS

Degree	Subject	Division	Institution
DSc (PhD)	Analytical Chemistry	(85%)	East China University of Science & Technology, Shanghai, China.
MS	Chemistry	Ist	University of The Punjab, Lahore
BS	Chemistry	Ist	University of The Punjab, Lahore
FSc	Pre-Medical	Ist	F.G Degree College, Lahore
Matric	Science	Ist	P.R High School, Lahore

RESEARCH PROJECTS

From University of the Punjab: 08

From other agencies: 01

CONFERENCES & PRESENTATIONS

Conferences attended: 18

Conferences organized: 02

MEMBERSHIP OF SCIENTIFIC SOCIETIES

Premium Member of “American Chemical Society”

SOFTWARE SKILLS

Proficient in M.S. Office (Word, Excel, Power Point), Origin, Endnote, MSD Chemstation, Turbomass, Chemsketch, Adobe Photoshop, Paint, Windows, MAC, iOS and Android systems.

LANGUAGE SKILLS

English	Proficient
Chinese	Learnt for one year with certificate
Urdu	Proficient
Punjabi	Proficient
Arabic	Reading & Writing

ACADEMIC ACHIEVEMENTS

- Throughout 1st divisions in academic carrier.
- Full scholarship was awarded by Ministry of Education, Government of Pakistan for doctorate studies.
- Scholarship awarded by China Scholarship Council, Ministry of Education, China.
- Stipend awarded by East China University of Science and Technology on all ISI articles published as leading author.
- Secured numerous 'First Positions' including 'Merit-based Scholarships' at school level.

WORK EXPERIENCE

- More than 12 years of teaching and research experience in University of the Punjab, Lahore, Pakistan.
- Started working as Assistant Professor in University of the Punjab, Lahore, Pakistan since November 1, 2012.
- Currently working as Associate Professor of Chemistry since May 03, 2021.
- One year of demonstrative teaching in University of the Punjab, Lahore during 2007-2008.
- Supervised 115 theses of BS, MSc and MPhil students as main supervisor and supervising two PhD students whose theses are near submission.
- Trained through Indigenous on-campus Teacher Training Program.

OTHER SERVICES AND DUTIES

- Member of DTRC, DDPC and BOS in School of Chemistry and Board of Faculty at Faculty of Science, University of the Punjab.
- Member Board of Studies at Department of Chemistry, University of Sahiwal.
- Acting as External Examiner for taking Viva Voce for various BS, MSc, MPhil and PhD students at various universities.
- Acting as a paper setter for BS programs for affiliated colleges.
- Acted as the member of various committees at School of Chemistry, University of the Punjab.
- Acted as the interviewing representative from the School of Chemistry, for the selection of employees for the Environmental Monitoring Center/Central Laboratory of EPA Punjab.
- Acted as the member of Selection Committee at University of Sahiwal, Sahiwal, Pakistan.
- Acting as a reviewer for various well-known ISI Journals such as Journal of Hazardoud Materials, ACS Omega, Chemosphere, Energy Nexus, Polymers and Polymer

Composites, Food Research International, Natural Product Research, Analytical and bioanalytical Chemistry, Chemistry and Biodiversity, Journal of Food Science, Journal of Essential Oil Bearing Plants, Chemical Papers, Polymer Bulletin, Processes, Grasas y Aceites, Toxicon, etc.

RESEARCH PUBLICATIONS

Sr. No.	Article Title	Journal	Year	Volume	Pages / Article ID	Impact Factor / HEC's Journal Category
1.	Remarkable visible light actuated photodegradation of methylene blue using copper oxide/tungsten oxide heterojunction composites	Materials Science and Engineering: B	2025	315	118079	3.9/W
2.	Essential oil composition and antibacterial activity of Kalanchoe blossfeldiana Flower	Chemistry of Natural Compounds	2025	61	181-182	0.8 / W
3.	Synergistic effect of hydroxyapatite-magnetite nanocomposites in magnetic hyperthermia for bone cancer treatment	Nanotechnology Reviews	2024	13	20230225	6.1 / W
4.	Excellent catalytic performance over reduced graphene boosted novel nanoparticles for oxidative desulfurization of fuel oil	Nanotechnology Reviews	2024	13	20240116	6.1 / W
5.	Synthesis, characterization and catalytic activity of rGO supported novel hybrid materials for green fuel production	Journal of the Indian Chemical Society	2024	101	101141	3.2 / Y
6.	Sustainable self-cleaning fabrics enabled by sunlit metal oxide catalysts: A critical review	Sustainable Materials and Technologies	2024	41	e01009	8.6 / W

7.	An insight into the catalytic properties and process optimization of Fe, Ni doped eggshell derived CaO for a green biodiesel synthesis from waste chicken fat	Catalysis Communications	2024	187	106848	3.4 / W
8.	Advancing Sustainable Agriculture: Metal Doped Urea Hydroxyapatite-Hybrid Nanofertilizer for Agro-industry	Nanotechnology Reviews	2024	13	20240107	6.1 / W
9.	Synthesis, characterization and antimicrobial analysis of metal-doped (Zn^{2+} and Ag^{+}) brushite powder for bone regeneration	Materials Chemistry and Physics	2024	320	129460	4.3 / W
10.	Chemical Profile, Antibacterial Activity and Antioxidant Activity of Bark Volatile Oil of Terminalia arjuna	Chemistry & Biodiversity	2024	21	e20240095	2.3 / X
11.	Constituents and Antibacterial Activity of Essential Oil of Nyctanthes arbor-tristis Flower	Journal of Analytical Chemistry	2024	79	1345-1351	1.0 / Y
12.	Assessing nutritional probing and storage stability of functional Aloe vera (Aloe barbadensis) based guava jam: a machine learning approach for predictive modelling	International Journal of Food Science & Technology	2024	59	4797-4806	2.6 / W
13.	Sustainable synthesis of cobalt nanoparticles in the presence of Trachyspermum ammi leaf extract for water purification.	Desalination and Water Treatment	2024	317	100100	1.0 / Y
14.	Adsorptive and photocatalytic degradation potential of porous polymeric materials for removal of pesticides, pharmaceuticals, and dyes-based emerging contaminants from water	Chemosphere	2023	336	139203	8.1 / W

15.	Green synthesis of SnO_2 nanorods and Mo–SnO_2 nanocomposite for efficient sunlight driven organic dye photodegradation in aqueous solution.	Materials Chemistry and Physics	2023	305	127920	4.6 / W
16.	Probe Sonicated Cotton Cellulose Fibers Treated with Bone Conditioned Medium for Optimum Cell Growth and Mineralization	Cellulose	2023	30	7497–7518	4.9 / W
17.	Occurrence, toxic effects, and mitigation of pesticides as emerging environmental pollutants using robust nanomaterials–A review.	Chemosphere	2022	293	133538	8.1 / W
18.	Volatile chemical profiling and potent antibacterial activity of senna occidentalis stem oil against various pathogens.	Chemical Papers	2022	76	7235-7243	2.1 / X
19.	A comprehensive review of liquid chromatography hyphenated to post-column photoinduced fluorescence detection system for determination of analytes	Arabian Journal of Chemistry	2022	15	104091	5.3 / W
20.	Facile synthesis of a novel Ni-WO_3@ g-C_3N_4 nanocomposite for efficient oxidative desulfurization of both model and real fuel.	ACS omega	2022	7	15809-15820	3.7 / W
21.	Synthesis, characterization and application of organoclays for adsorptive desulfurization of fuel oil.	Scientific Reports	2022	12	7362	3.8 / W
22.	Immobilized enzymes-based biosensing cues for strengthening biocatalysis and biorecognition	Catalysis Letters	2022	152	2637-2649	2.3 / X

23.	Green and eco-friendly adsorption of dyes with organoclay: isothermal, kinetic and thermodynamic studies.	Toxin Reviews	2022	41	1105-1114	3.3 / Y
24.	Heterometallic decanuclear [Fe6–Ln4] coordination clusters with enzymatic mimic activity: Synthesis, structures, magnetic properties, and evaluation of catecholase activity.	Applied Organometallic Chemistry	2022	36	e6707	3.7 / W
25.	Highly Stable APTES Incorporated CNTs Based Ternary Polymer Composites with Improved Dielectric and Thermal Properties	Silicon	2022	14	10807-10816	2.8 / W
26.	Synthesis, Characterization, Hydrolytic Degradation, Mathematical Modeling and Antibacterial Activity of Poly[bis((methoxyethoxy)ethoxy)phosphazene] (MEEP)	Polymer Bulletin	2021	78	6059-6072	3.1 / X
27.	Ion chromatography coupled with fluorescence/UV detector: A comprehensive review of its applications in pesticides and pharmaceutical drug analysis	Arabian Journal of Chemistry	2021	14	102972	5.3 / W
28.	Enhanced photodegradation activity of Cuprous oxide nanoparticles towards Congo red for water purification.	Desalination and Water Treatment	2021	227	330-337	1.0 / Y
29.	Efficient surfactant modified copper oxide nanoparticles for solar light driven water purification	Optical Materials	2021	122	111688	3.8 / W
30.	Fabrication of ZnO/Mg nanoparticles for catalytic pyrolysis of Phoenix dactylifera seeds biomass	Digest Journal of Nanomaterials and Biostructures	2021	16	1157 – 1162	1.0 / Y
31.	Effect of different temperatures on the pyrolytic bio-oil yield and FT-IR characterization. Journal of Optoelectronic and Biomedical Materials	Journal of Optoelectronic and Biomedical Materials	2021	13	137-144	0.9 / Y

32.	Eco friendly synthesis of nickel oxide nanoparticles and its application on pyrolysis of Calotropis procera (AKH) Plant roots	Journal of Optoelectronic and Biomedical Materials	2021	13	119 – 125	0.9 / Y
33.	Constituents and antibacterial activity of leaf essential oil of Plectranthus scutellarioides	Plant Biosystems-An International Journal Dealing with all Aspects of Plant Biology	2021	155	1247-1252	1.6 / W
34.	Essential oil composition and antibacterial activity of Canarium strictum Roxb. resin	Plant Biosystems-An International Journal Dealing with all Aspects of Plant Biology	2021	155	1198-1202	1.6 / W
35.	Synthesis, Characterization, Hydrolytic Degradation and Mathematical Modeling of Poly [bis (2 (2-methoxyethoxyethoxy diethylamino) phosphazene]	Arabian Journal for Science and Engineering	2020	45	241-247	1.9 / W
36.	Critical review on the chemical reduction of nitroaniline	RSC Advances	2020	10	19041-19058	3.9/ W
37.	Comparative steam distillation based digestion of complex inorganic copper concentrates samples followed by ion chromatographic determination of halogens	Microchemical Journal	2020	158	105176	4.9 / W
38.	Comparative analysis of volatile composition and antibacterial activity of aerial parts of Terminalia arjuna (Roxb.)	Natural Product Research	2020	34	1311-1314	1.9 / W
39.	Synthesis, photoinduced, amination and topological	Journal of Porphyrins and Phthalocyanines	2020	8	1054-1065	0.9 / W

	indices of novel porphyrin dyads					
40.	Feasibility of pyrohydrolysis and extended-steam distillation method for the extraction of two halides from zinc and lead concentrate samples followed by ion chromatography analysis	Microchemical Journal	2020	159	105593	4.9 / W
41.	The Volatile Composition and Antibacterial Activity of Leaves of Chorisia Speciosa	Journal of the Mexican Chemical Society	2020	64	4341-4350	1.1 / Y
42.	Innovative seizure of metal/metal oxide nanoparticles in water purification: a critical review of potential risks	Critical Reviews in Analytical Chemistry	2019	49	534-541	4.2 / W
43.	Online clean-up setup for the determination of non-fluorescent acidic pharmaceutical drugs in complex biological samples	Journal of Chromatography B	2019	121708	1125-1126	2.8 / W
44.	Simultaneous Determination of Fluoride and Chloride in Iron Ore by Steam Distillation Followed by Ion Chromatography.	Chromatographia	2019	82	1839-1844	1.2 / W
45.	Metal Based Drugs and Chelating Agents as Therapeutic Agents and Their Antimicrobial Activity	Revue Roumaine de Chimie	2019	64	5-17	0.4 / W
46.	Constituents of Volatile Oil from Bark of Clerodendrum serratum (L.) and its Antibacterial Activity	Journal of Essential Oil Bearing Plants	2018	21	198-205	2.1 / W

47.	Comparative study of different activation treatments for the preparation of activated carbon: a mini-review	Science Progress	2017	100	299-312	2.6 / W
48.	Acid Catalyzed Solvent Free Synthesis of New 1-Acyl-4-benzhydryl Substituted Pyrazoles	Journal of The Chemical Society of Pakistan	2016	38	1211-1217	0.6 / W
49.	Qualitative Phytochemical Screening and chemical variability in aerial parts of Morinda morindoides	Natural Product Research	2016	30	2249-2252	1.9 / W
50.	Microwave Treated Salvadora oleoides as an Eco-friendly Biosorbent for the Removal of Toxic Methyl Violet Dye from Aqueous Solution–A Green Approach	International journal of phytoremediation	2016	18	477-486	3.4 / W
51.	Structure, Stability, and Aromaticity of 2,4,6,1,3,5-Trisilatriphosphabenzene versus 2,4,6-Trisilatriazine: A Quantum Chemical Approach	Computational and Theoretical Chemistry	2015	1065	18-26	3.0 / W
52.	RP-HPLC Separation and Statistical Data Processing of Different Batches of Aerial Parts of Jologbo	Journal of Liquid Chromatography and Related Technologies	2014	37	48-60	1.0 / W
53.	Anticancer Constituents and Cytotoxic Activity of Methanol-Water Extract of Polygonum bistorta L.	African Journal of Traditional Complementary and Alternative Medicines	2013	10	53-59	0.5 / W (IF was in 2013)
54.	Effect of Mobile Phase Composition and pH on HPLC Separation of Rhizome of Polygonum bistorta	Journal of Liquid Chromatography and Related Technologies	2012	35	977-987	1.0 / W
55.	Difference in Essential Oil Composition of Rhizome of Polygonum bistorta L.	Journal of Essential Oil Bearing Plants	2012	15	964-971	2.1 / W

	from Different Asian Regions and Evaluation of its Antibacterial Activity					
56.	Study on Light Aging of Silk Fabric by Fourier Transform Infraded Spectroscopy and Principal Component Analysis.	Analytical Letters	2012	45	1286-1296	1.6 / W
57.	Development of a Parallel-Tandem Column Interface in a Two-Dimensional Liquid Chromatography System.	Chromatographia	2011	73	871–877	1.2 / W
58.	Polymer/POSS based robust and emerging flame retardant nanocomposites: A comprehensive review	Nano-Structures & Nano-Objects	2025	41	101427	Citescore = 9.2
59.	Volatile Composition and antibacterial activity of Ceiba insignis flowers	Biological and Clinical Sciences Research Journal	2024	2024	1242	HEC's Y Category
60.	A review on pathogenesis associated with Pseudomonas aeruginosa and its modulation through paerucumarin	Pure and Applied Biology	2024	13	47-54	-
61.	Volatile Composition and Antibacterial Activity of Fruits of Withania coagulans Dunal	Pakistan Journal of Scientific & Industrial Research Series A: Physical Sciences	2023	66	227-233	HEC's Y Category
62.	Volatile Constituents of Leaves of Trifolium alexandrinum	Journal of Botanical Research	2022	4	20-27	-
63.	Essential Oil Activity Against Methicillin-Resistant Staphylococcus aureus and Multidrug-Resistant Mycobacterium tuberculosis: A Mini-Review	Organic and Medicinal Chemistry: International Journal	2020	9	61-63	-

64.	Proficient photo catalytic degradation of methylene blue and methyl orange dyes as organic pollutant from aqueous medium.	Parana Journal of Science and Education	2018	4	17-23	-
65.	Monitoring Oxidative Degradation of Thermally Stressed Palm Olein Shortening by Spectroscopic and Chromatographic Techniques	Open Journal of Applied Sciences	2018	8	598-606	-
66.	Structural Features in Composition of Different Parts of Silybum marianum (L.) Gaertn.	Chinese Journal of Chromatography	2010	28	1192-1195	-

BOOK CHAPTERS

1. Mateen Hedar, Shahzar Hafeez, **Azeem Intisar***, Zeeshan Mutahir, Ejaz Ahmed, Ahsan Sharif, and Aneela Anwar. "Green nanomaterials for chromatographic separation." *Elsevier*, 105 (2024): 371-389.

2. Nimra Bashir, Maida Amjad, **Azeem Intisar***, Ayesha Javed, Ejaz Ahmed, Ayesha Sattar, and Muhammad Rizwan Tariq. "Future of analytical chemistry in relation to the green nanoparticles." *Elsevier*, 105 (2024): 419-460

3. Mateen Hedar, **Azeem Intisar***, Aneela Anwar, Muhammad Imran Din, and Muhammad Rizwan Tariq. "Membranes with green nanoparticles." *Elsevier*, 105 (2024): 391-418.

4. **Azeem Intisar**, Mateen Hedar, Ahsan Sharif, Ejaz Ahmed, Nazim Hussain, Tony Hadibarata, Mohammad Ali Shariati, Smaoui Slim, Muhammad Bilal. Enzyme immobilization on alginate biopolymer for biotechnological applications. Microbial Biomolecules, *Elsevier*, (2023), pp. 471-488

5. **Azeem Intisar**, Arooj Ramzan, Mateen Hedar, Nazim Hussain, Muhammad Bilal, Biopolymer Waste Management, in Handbook of Biopolymers, *Springer Nature*, 2023, chapter 51, 1447-1468.

6. Arooj Ramzan, **Azeem Intisar***, Nazish Mumtaz, Nazim Hussain, Muhammad Bilal, Applications of Biopolymer-Based Nanofibers and Nanomembranes, in Handbook of Biopolymers, *Springer Nature*, 2023, chapter 45, 1281-1304.

7. Mateen Hedar, **Azeem Intisar***, Tajamal Hussain, Nazim Hussain, Muhammad Bilal. Challenges and Issues in Biopolymer Applications, in Handbook of Biopolymers, *Springer Nature*, 2023, chapter 53, 1497-1512.

8. Mateen Hedar, Iqra Zaman, Muhammad Imran Din, Nazim Hussain, **Azeem Intisar***, Adeel Afzal, and Muhammad Amin Abid. "Removal of pharmaceutical compounds from water." 2023, *Elsevier*, Vol 9, pp 35-63

9. Mateen Hedar, **Azeemn Intisar***, Nazim Hussain, and Muhammad Bilal. "Immobilized enzyme systems for wastewater treatment." *Elsevier*, 2023, Vol 9, pp 13-206.

10. Mahnoor Amjad, **Azeem Intisar***, Adeel Afzal, Nazim Hussain, and Muhammad Bilal. "Biological methods for the removal of microplastics from water." *Elsevier*, (2023), Vol 9, pp 65-78

11. Arooj Ramzan, Vaneeza Aiman, **Azeem Intisar***, Adeel Afzal, Tajamal Hussain, Muhammad Amin Abid, Nazim Hussain, and Muhammad Bilal. "Microbial remediation of emerging pollutants from wastewater." *Elsevier*, (2023), Vol 9, pp 207-226

12. Hafiz Adnan Akram, Adeel Afzal, **Azeem Intisar***, Mateen Hedar, Nazim Hussain, and Muhammad Bilal. "Advanced biomaterials for the removal of pesticides from water." *Elsevier*, (2023), Vol 9, pp 133-151

13. **Azeem Intisar**, Nazim Hussain, Arooj Ramzan, Tehzeeb Sawaira, Arpita Roy, and Muhammad Bilal. "Biomedical Applications of Inorganic Biomaterials." Functional Biomaterials: Drug Delivery and Biomedical Applications. *Springer Nature*, (2022), pp. 265-284.

14. Maria Tariq, Tajamal Hussain, Adnan Mujahid, Mirza Nadeem Ahmad, Muhammad Imran Din, **Azeem Intisar**, and Muhammad Zahid. "Applications of Carbon Based Materials in Developing Advanced Energy Storage Devices." In Carbon Nanotubes-Redefining the World of Electronics. *IntechOpen*, 2021.