

RESEARCH PUBLICATIONS

Sr. No.	Article Title	Journal	Year	Vol.	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	Catalysis Communications	2024	187	106848	3.4 / W

	eggshell derived CaO for a green biodiesel synthesis from waste chicken fat					
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 <i>Terminalia arjuna</i>	Chemistry & Biodiversity	2024	21	e20240095	2.3 / X
11.	Constituents and Antibacterial Activity of Essential Oil of <i>Nyctanthes arbor-tristis</i> Flower	Journal of Analytical Chemistry	2024	79	1345-1351	1.0 / Y
12.	Assessing nutritional probing and storage stability of functional Aloe vera (<i>Aloe barbadensis</i>) 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 <i>Trachyspermum ammi</i> 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	Materials Chemistry and Physics	2023	305	127920	4.6 / W

	photodegradation in aqueous solution.					
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 ₃ N 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 <i>Plectranthus scutellarioides</i>	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 <i>Canarium strictum</i> 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 <i>Terminalia arjuna</i> (Roxb.)	Natural Product Research	2020	34	1311- 1314	1.9 / W
39.	Synthesis, photoinduced, amination and topological indices of novel porphyrin dyads	Journal of Porphyrins and Phthalocyanines	2020	8	1054- 1065	0.9 / W
40.	Feasibility of pyrohydrolysis and extended-steam distillation method for the extraction	Microchemical Journal	2020	159	105593	4.9 / W

	of two halides from zinc and lead concentrate samples followed by ion chromatography analysis					
41.	The Volatile Composition and Antibacterial Activity of Leaves of <i>Chorisia Speciosa</i>	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 <i>Clerodendrum serratum</i> (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 <i>Morinda morindoides</i>	Natural Product Research	2016	30	2249-2252	1.9 / W
50.	Microwave Treated <i>Salvadora oleoides</i> 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 <i>Jologbo</i>	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 <i>Polygonum bistorta</i> 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 <i>Polygonum bistorta</i>	Journal of Liquid Chromatography and Related Technologies	2012	35	977-987	1.0 / W
55.	Difference in Essential Oil Composition of Rhizome of <i>Polygonum bistorta</i> L. from Different Asian Regions and Evaluation of its Antibacterial Activity	Journal of Essential Oil Bearing Plants	2012	15	964-971	2.1 / W
56.	Study on Light Aging of Silk Fabric by Fourier Transform Infrared	Analytical Letters	2012	45	1286-1296	1.6 / W

	Spectroscopy and Principal Component Analysis.					
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	Open Journal of Applied Sciences	2018	8	598-606	-

	and Chromatographic Techniques					
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, <u>Azeem Intisar*</u> , Zeeshan Mutahir, Ejaz Ahmed, Ahsan Sharif, and Aneela Anwar. "Green nanomaterials for chromatographic separation." <i>Elsevier</i> , 105 (2024): 371-389.
2.	Nimra Bashir, Maida Amjad, <u>Azeem Intisar*</u> , Ayesha Javed, Ejaz Ahmed, Ayesha Sattar, and Muhammad Rizwan Tariq. "Future of analytical chemistry in relation to the green nanoparticles." <i>Elsevier</i> , 105 (2024): 419-460
3.	Mateen Hedar, <u>Azeem Intisar*</u> , Aneela Anwar, Muhammad Imran Din, and Muhammad Rizwan Tariq. "Membranes with green nanoparticles." <i>Elsevier</i> , 105 (2024): 391-418.
4.	<u>Azeem Intisar</u> , 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. <i>Microbial Biomolecules, Elsevier</i> , (2023), pp. 471-488
5.	<u>Azeem Intisar</u> , Arooj Ramzan, Mateen Hedar, Nazim Hussain, Muhammad Bilal, Biopolymer Waste Management, in <i>Handbook of Biopolymers, Springer Nature</i> , 2023, chapter 51, 1447-1468.
6.	Arooj Ramzan, <u>Azeem Intisar*</u> , Nazish Mumtaz, Nazim Hussain, Muhammad Bilal, Applications of Biopolymer-Based Nanofibers and Nanomembranes, in <i>Handbook of Biopolymers, Springer Nature</i> , 2023, chapter 45, 1281-1304.
7.	Mateen Hedar, <u>Azeem Intisar*</u> , Tajamal Hussain, Nazim Hussain, Muhammad Bilal. Challenges and Issues in Biopolymer Applications, in <i>Handbook of Biopolymers, Springer Nature</i> , 2023, chapter 53, 1497-1512.
8.	Mateen Hedar, Iqra Zaman, Muhammad Imran Din, Nazim Hussain, <u>Azeem Intisar*</u> , Adeel Afzal, and Muhammad Amin Abid. "Removal of pharmaceutical compounds from water." 2023, <i>Elsevier</i> , Vol 9, pp 35-63

9. Mateen Hedar, **Azeem 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.