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Designation	Assistant Professor			
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Faculty	Faculty of Life Sciences & Informatics			
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Qualification				
Year	Degree/Certificate	Name of the Institute/ University	Field of study	
2016	PhD	Institute of Process Engineering, University of Chinese Academy of Sciences (IPE-UCAS), Beijing, China	Environmental Engineering	
2006	MSc	Hazara University Mansehra	Chemistry	
2003	Graduation	University of Peshawar	Biological Sciences	
Publications in HEC Recognized journals				
S. No	Title of Paper	Name of Journal	National/ International	Publication date
1.	A novel process for recycling and resynthesizing LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ from the cathode scraps intended for lithium-ion batteries	Waste Management	International	2014, 34, 1715-1724. (IF = 5.43)
2.	Catalytic ozonation of 4-nitrophenol over a mesoporous α-MnO ₂ with resistance to leaching	Catalysis Today	International	2015, 258, 595601. (IF = 4.8)
3.	The active crystalline polymorph of manganese dioxides for 4-nitrophenol degradation in catalytic ozonation	IWA Nano & Water Regional	International	2015
4.	A closed-loop process for recycling LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ from the cathode scraps of lithium-ion batteries: Process optimization and kinetics analysis	Separation and Purification Technology	International	2015, 150, 186-195. (IF = 5.11)
5.	Insights into the mechanism of phenolic mixture degradation by catalytic ozonation with mesoporous Fe ₃ O ₄ /MnO ₂ composite	RSC Advances	International	2016, 6, 29674-29684. (IF = 3.32)

6.	The influence of the substituent on the phenol oxidation rate and reactive species in cubic MnO ₂ catalytic ozonation	Catalysis Science & Technology	International	2016, 6, 7875-7884. (IF = 5.77)
7.	Super synergy between photocatalysis and ozonation using bulk g-C ₃ N ₄ as catalyst: A potential sunlight/O ₃ /g-C ₃ N ₄ method for efficient water decontamination	Applied Catalysis B: Environmental	International	2016, 181, 420-428. (IF = 14.3)
8.	Dramatic coupling of visible light with ozone on honeycomb-like porous gC ₃ N ₄ towards superior oxidation of water pollutants	Applied Catalysis B: Environmental	International	2016, 183, 417-425. (IF = 14.3)
9.	Disparate roles of doped metal ions in promoting surface oxidation of TiO ₂ photo catalysis	Journal of Photochemistry & Photobiology A: Chemistry	International	2016, 315, 59-66. (IF = 3.3)
10.	Superoxide radical-mediated photocatalytic oxidation of phenolic compounds over Ag ⁺ /TiO ₂ : Influence of electron donating and withdrawing substituents	Journal of Hazardous Materials	International	2016, 304, 126-133. (IF = 7.7)
11.	MnO _x 基材料催化臭氧氧化酚类混合物的活性物种及机理研究	Institute of Process Engineering Journal	International	2016
12.	Selection of active phase of MnO ₂ for catalytic ozonation of 4-Nitro phenol	Chemosphere	International	2017, 168, 1457-1466. (IF = 4.43)
13.	Adsorptive removal of Cd ²⁺ from aqueous solutions by a highly stable covalent triazine-based framework	New Journal of Chemistry	International	2018,42, 10234-10242 (IF = 3.01)
14.	Investigation of raw materials for cement industry of Upper Hunza, Gilgit-Baltistan, Pakistan.	IOP Publishing.	International	2018 , 414, 1, p. 012012)
15.	Formation of Mn ₃ O ₄ @MnO ₂ amoeba shape catalyst for enhanced Catalytic ozonation of fused ring phenols	RSC Advances	International	2019 Under review
16.	Parametric Investigation of Enzyme Zymose on Ethanol Production	Journal of Applied and Emerging Sciences	National	2019 Under review
17.	Removal of phenol from industrial wastewater using surfactants modified Mn ₃ O ₄ nanoparticles.	New Journal of Chemistry	International	2019 Under review
Paper Presented				
S. No	Title of Paper	Name of Conference	National/ International	Date

Books Authored/ Edited				
S. No	Name of book		Publisher	ISBN
Work Experience				
S. No	From (year)	To (year)	Name of the Institution/ Organization	Position held
1.	2017	To-Date	BUIITEMS	Assistant Professor
2.	2007	2012	Pakistan Council of Research in Water Resources (PCRWR), ISLAMABAD	Scientific Officer
Area of specialization			Water and wastewater treatment technologies, drinking water quality parameters and the determination of residual pesticides, especially Persistent Organic Pollutants (POPs)/OCPs in surface water bodies. Specialize at assessing and enhancing the quality of water supply system.	
Research Interest			<ul style="list-style-type: none"> • Environmental Analysis and Toxicology • Environmental catalysis process and atmospheric pollution control technology • Membrane filtration, fabrication of GO membrane, coagulation 	
Future Research Plans				
Expertise			<ul style="list-style-type: none"> • Advance oxidation process for wastewater treatment. • Water Quality related research particularly residual POPs/OCPs. PCBs, PBDEs. • Water Hygiene and Sanitation (WASH). • Monitoring & Evaluation. • Chemical analysis involving: instrumental techniques and chemical instrumentation, chromatographic separations, solvent extractions, qualitative, quantitative and structural spectroscopy, classical wet analysis, microscopy and electrochemical techniques. Design, experimental development and implementation of chemical analysis procedures and program. 	
HEC Approved supervisor			Yes	
If Yes, provide HEC URL			<i>e.g.</i> http:// sc.hec.gov.pk/aphds/submit.asp?supid=29558	
Research grants/ Projects			<ul style="list-style-type: none"> • As Principal Investigator: “Dual nonmetals doped carbon foam photocatalyst; activity in different degradation system and reaction pathway” Pakistan Higher Education Commission, Start-Up Research Grant Program. (Accepted). 	

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| | <ul style="list-style-type: none">• As Principal Investigator: “Influence of EDTA for efficient Hydroxyl radical’s production in ozonation of oxalic acid at low pH” Office of Research Innovation and Commercialization (ORIC) working under Pakistan Higher Education Commission. (Accepted). |
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Additional Information

<https://scholar.google.com/citations?user=VOCaZlwAAAAJ&hl=en&oi=ao>

https://www.researchgate.net/profile/Faheem_Nawaz3