

Dr. Sadia Ata
(Professor)

PERSONAL INFORMATION

NAME	SADIA ATA
HUSBAND NAME	WASEEM AHAD WANI
DATE OF BIRTH	AUGUST 15, 1975
RELIGION	ISLAM
NATIONALITY	PAKISTANI
LANGUAGES	English, Urdu, Punjabi
E-MAIL	sad_ziam@yahoo.com sadia.chem@pu.edu.pk
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ACADEMIC QUALIFICATION

Ph.D.	Chemistry	2009	1 st Division	Universiti Kebangsaan Malaysia
M. Phil	Chemistry	2007	1 st Division	University of Engineering and Technology, Lahore, Pakistan
M.Sc	Chemistry	1998	1 st Division	University of the Punjab, Lahore, Pakistan
B. Sc	Chemistry	1995	1 st Division	University of the Punjab, Lahore, Pakistan
F.Sc	Science	1993	1 st Division	Lahore College, Lahore, Pakistan
Matric	Science	1990	1 st Division	Govt Girls High School, Rahim Yar Khan, Pakistan

PROFESSIONAL EXPERIENCE

- Worked as lecturer on BPS from **2001 to 2009**.
- Worked as Assistant Professor (TTS) in Centre of Analytical Chemistry in Punjab University, Lahore, Pakistan from **2010 to 2019**.
- Worked as Associate professor (TTS) in Centre of Analytical Chemistry in Punjab University, Lahore, Pakistan **2019 to 2023**.
- Director of Centre of Analytical Chemistry till December 2021.
- Since **2023** working as Professor (TTS) in Centre of Analytical Chemistry till date.

COMPUTER PROFFICENCY

Windows, MS office, SPSS, Minitab, Matlab and Experimental Design 7.1

MAJOR ASSIGNMENT GIVEN BY AUTHORIY

- Student adviser, School of Chemistry
- Store incharge , School of Chemistry
- Member of Board of Studies
- Member of Department Doctoral programme committee (DDPC)
- Member of Departmental Tenured Track committee (DTRC)
- Member of admission committee of BS/MSC/M.phil/Ph.D
- Focal Person for Punjab University Library Book defaulters
- Member of Maintenance Committee
- Member of Disciplinary Committee
- Member of Laboratories Safety Inspection Committee
- Member of Dengue Committee at School of Chemistry
- Member of Security/Laboratory Safety Committee
- Duty on Annual Stock taking of sectional stores
- Director, Center of Analytical Chemistry till December 2021
- Warden, Girls Hostel No. 04, University of the Punjab Lahore
- Advisor PPSC

RESEARCH INTERESTS

- Method development based on Electroanalytical techniques, Sensor fabrication, water splitting
- Synthesis of Nanomaterial specially nanofiber, Nano-ferrites Nano- perovskites and their composite as well as functionalization to control their various potential application in energy storage devices and for efficient removal of toxic and carcinogenic industrial pollutants from the environment
- Method development based on instrumental techniques such as GC- ECD, GC-MS, HPLC, Solid phase extraction (SPE), Solid phase microextraction (SPME)

etc. and validation studies for emergent pollutants such as poly biphenyl compounds, Trihalomethane, Haloacetic acids and chlorinated pesticides.

- Predictive modelling for monitoring environmental pollutants, disinfection by-products, pesticides, poly-aromatic hydrocarbons and tri-halo methane modeling (predictive and time series).
- Development of Fuzzy model for water treatment plant for toxic pollutants

INTERNATIONAL PUBLICATIONS

Impact Factor = 334.422

Sr. No.	Author	Title	Journal	I.F	Vol.	Page No.	Year
1.	Dr. Sadia Ata	The development of analytical methods for the determination of haloacetic acids compounds (HAAs) in drinking water.	Malaysian Journal of Analytical Science Malaysia	0.20	10(1)	75-80	2006
2.	Do	Dissolved organic matter and its impact on the chlorine demand of treated water.	The Malaysian Journal of Analytical Sciences	0.20	10	243-250	2006
3.	Do	Chlorination and chloramines formation.	The Malaysian Journal of Analytical Sciences	0.20	12	528-535	2008
4.	Do	Development of new water quality model using fuzzy logic system for Malaysia.	Open Environment Sciences	2.865	2	101-106	2008
5.	Do	SPE-GC-MS for the determination of halogenated acetic acids in drinking water	Chromatographia	2.044	69(11)	1447-1451	2009
6.	Do	The study of interrelationship between raw water quality parameters, chlorine demand and formation of disinfection byproducts.	Physics and Chemistry of the Earth	2.712	34	806-811	2009
7.	Do	Comparative study of sample preparation techniques coupled to	Journal of Chromatographic Science	2.1	48	188-193	2010

		gas chromatography for the analysis of halogenated acetic acids in tap water.					
8.	Do	Validation of solid phase extraction technique for the determination of halogenated acetic acids in drinking water.	Sains Malaysiana	1.5	39(2)	227-231	2010
9.	Do	Elemental profile of 24 Common Medicinal Plants of Pakistan and its Direct Link with Traditional uses.	Journal of medicinal plant research	0.876	5(26)	6164-6168	2011
10	Do	Evolution and Fate of Haloacetic Acids before and after Chlorination within the Treatment Plant Using SPE-GC-MS.	American Journal of Analytical Chemistry	1.678	2	522-532	2011
11	Do	Optimization of gas chromatographic analysis of halogenated acids in drinking water using full factorial experimental design.	Desalination and water treatment	1.234	49	34-40	2012
12	Do	Equilibrium, Thermodynamics, and Kinetic Sorption Studies for the Removal of Coomassie Brilliant Blue on Wheat Bran as a Low-Cost Adsorbent.	Journal of Analytical Methods in Chemistry	2.594	2012	1-8	2012
13	Do	Biosorptive removal of lead and cadmium ions from aqueous solution: The use of carrot residues as low cost non-conventional adsorbent.	Turkish journal of Biochemistry	0.353	37(3)	272-279	2012
14	Do	Synthesis of Gluconic acid and its salts by using bimetallic catalyst.	Journal of chemical society of Pakistan.	1.35	34	648-650	2012
15	Do	Thermodynamic of biosorption for removal of Co (II) ions by an efficient and ecofriendly biosorbent (Saccharum	Journal of chemistry	3.288	2013	1-11	2012

		bengalense) kinetic and isotherm modeling.					
16	Do	Evaluation of Trace Elemental Composition of Aerosols in the Atmosphere of Rawalpindi and Islamabad using Radio Analytical Methods.	Applied radiation and isotopes	1.513	77	906-910	2012
17	Do	Thermal de-binding study of powder injection molded Fe ⁺ 12% Cu using TG/MS.	Powder Metallurgy	1.93	55	118-123	2012
18	Do	Finite element investigation of backbone binder removal from MIM copper compact.	Powder Metallurgy	1.93	55	333-339	2012
19	Do	Synthesis, spectroscopic characterization and antibacterial activities of three Schiff bases derived from dehydroacetic acids with various substituted anilines.	Turkish journal of biochemistry	0.353	37(4)	386-391	2012
20	Do	Monitoring of anthropogenic influences on underground and surface water quality of Indus River at district Mianwali-Pakistan.	Turkish journal of biochemistry	0.353	38(1)	9-13	2013
21	Do	Analytical investigation of selected pesticide residues from fruits and vegetables by an improved extraction method using reverse phase high performance chromatography.	Ethopian journal of environmental studies and management	0.23	6	342-347	2013
22	Do	Evaluation of Acacia nilotica as a Non-Conventional low cost Biosorbent for the elimination of Pb (II) and Cd (II) ions from Aqueous Solutions.	Arabian Journal of Chemistry	5.165	7	1091-1098	2014
23	Do	Evaluation of	International	2.85	6(2)	154-	2014

		conductive polymers as an adsorbent for eradication of As (III) from aqueous solution using inductively coupled plasma optical emission spectroscopy (ICP-OES).	Journal of Science and Engineering			162	
24	Do	An investigation of toxic heavy metals (Pb,Cd,Cu,Cr and Zn)In Garlic(<i>Allium Sativum</i> L.) and soil samples collected from different locations of Punjab, Pakistan using atomic absorption spectroscopy.	Mediterranean Journal of Chemistry	1.102	2(5)	667-678	2014
25	Do	A method optimization study for atomic absorption spectrophotometric determination of total zinc in insulin using direct aspiration technique.	Alexandria Journal of Medicine	0.67	51	19-23	2015
26	Do	In vitro-binding assay study of ^{99m} Tc-flouroquinolene with <i>E.Coli Salmowella</i> and <i>Ps aeruginera</i> .	Alexandria Journal of Medicine	0.67	51	47-52	2015
27	Do	Critical Study of Multiple Regressions Modelling for Monitoring of Haloacetic Acids in Water Reservoirs.	Arabian Journal of Science and Engineering	2.334	40	101-108	2015
28	Do	Amidine sulfonamides and benzene sulfonamides: Synthesis and their biological evaluation.	Journal of Chemistry	3.288	2015	1-8	2015
29	Do	Injectable biopolymer based hydrogels for drug delivery applications.	International journal of biological Macromolecules	8.025	80	240-245	2015
30	Do	Novel sonochemical single step fabrication of NiO Nanoparticles.	Digest Journal of Nanomaterials and Biostructures	0.963	11(1)	65-80	2016
31	Do	Assessment of	Pakistan Journal	0.4	6(3-4)	67-70	2016

		antioxidant and antimicrobial activities of Ginger.	of Chemistry				
32	Do	Photosensitization of TiO ₂ nanofibers by Ag ₂ S with the synergistic effect of excess surface Ti ³⁺ states for enhanced photocatalytic activity under simulated sunlight.	Scientific report	4.996	7	255-265	2017
33	Do	Green and eco-friendly synthesis of cobalt-oxide nanoparticle: Characterization and photo-catalytic activity.	Advanced Powder Technology	4.833	28	2035-2043	2017
34	Do	Nickel nanoparticle synthesis using Camellia Sinensis as reducing and capping agent: Growth mechanism and photo-catalytic activity evaluation.	International Journal of Biological Macromolecules	8.025	103	783-790	2017
35	Do	Synthesis of carboxyl-modified Fe ₃ O ₄ nanoparticles and their utilization for the remediation of cadmium and nickel from aqueous solution.	Journal of Chili Chemical Society	1.034	62(3)	3588-3592	2017
36	Do	Synthesis, Characterization, and Application Studies of Polyurethane Acrylate Thermoset Coatings: Effect of Hard Segment.	Polymer-Plastics Technology and Engineering	3.267	56	1608-1618	2017
37	Do	Single step facile synthesis of super paramagnetic Iron Oxide nanoparticles for catalytic pyrolysis applications.	Digest journal of Nanomaterials and Biostructures	0.963	12	1197-1203	2017
38	Do	Cu nanoparticles synthesis using biological molecule of P. granatum seeds	International Journal of Biological Macromolecules	8.025	106	1203-1210	2018

		extract as reducing and capping agent: Growth mechanism and photocatalytic activity.					
39	Do	Photo-reduction of heavy metal ions and photo disinfection of pathogenic bacteria under simulated solar light using photosensitized TiO ₂ nanofibers	RSC Advances	4.036	8	20354-20362	2018
40	Do	Controlled release of Montelukast Sodium from pH-sensitive injectable hydrogels	Polymer-Plastics Technology and Engineering	3.267	58(9)	948-956	2018
41	Do	Grafting of Silica Particles with Linoleic Acid via Modified Stober's Method for Preconcentration of Pesticides in Drinking Water	Key Engineering Materials	0.49	778	316-324	2018
42	Do	Graphene and silver decorated ZnO composite synthesis, characterization and photocatalytic activity evaluation	Diamond & Related Materials	3.315	90	26-31	2018
43	Do	Novel synthesis and enhanced catalytic performance of stable nano-scale Fe ₀ , Ag ₀ and ZnO nanoparticles: photo-degradation under mercury lamp	Desalination and Water Treatment	1.234	131	212-219	2018
44	Do	Stimuli responsive biopolymer (chitosan) based blend hydrogels for wound healing application	Carbohydrate Polymers	10.72	203	423-429	2019
45	Do	Fabrication of novel carrageenan based stimuli-responsive injectable hydrogels for controlled release of cephadrine	RSC Advances	4.036	9	12282-12290	2019
46	Do	Hydrothermal synthesis	Zeitschrift für	4.315	233	1411-	2019

		of zinc doped nickel ferrites: evaluation of structural, magnetic and dielectric properties	Physikalische Chemie OR International Journal of Research in Physical Chemistry and Chemical Physics OR Z. Phys. Chem.			1430	
47	Do	Lead remediation using smart materials: a review	Zeitschrift für Physikalische Chemie OR International Journal of Research in Physical Chemistry and Chemical Physics OR Z. Phys. Chem.	4.315	233	1377-1409	2019
48	Do	Structural , dielectric and magnetic studies of Pervoskite [Gd _{1-x} , M _x CrO ₃ (M=La, Co, Bi)] Nanoparticles, photocatalytic degradation of dyes	Zeitschrift für Physikalische Chemie OR International Journal of Research in Physical Chemistry and Chemical Physics OR Z. Phys. Chem.	4.315	233	1431-1445	2019
49	Do	Effect of Fe and Bi doping on LaCoO ₃ structural, magnetic, electric and catalytic properties	Journal of Materials Research and Technology	6.267	8(5)	4831-4842	2019
50	Do	Impact of soft segment size on physio-chemical and antimicrobial properties of waterborne polyurethane dispersions for textile applications	Progress in Organic Coatings	5.161	133	174-179	2019
51	Do	First-Principle simulations of XIn ₂ S ₄ (X=Zn, Cd) thiospinels for energy harvesting devices	Chemical Physics Letters	2.328	723	44-50	2019
52	Do	Synthesis and	Zeitschrift für	4.315	233	995-	2019

		Characterization of ZnO Nanorods as an Adsorbent for Cr (VI) Sequestration	Physikalische Chemie OR International Journal of Research in Physical Chemistry and Chemical Physics OR Z. Phys. Chem.			1017	
53	Do	Recent developments in the synthesis and stability of metal ferrite nanoparticles	Science Progress	1.44	102	61-72	2019
54	Do	Structural and Optical Properties of Multilayer heterostructure of CdTe/CdSe Thin Films	Zeitschrift für Physikalische Chemie OR International Journal of Research in Physical Chemistry and Chemical Physics OR Z. Phys. Chem.	4.315	233	1215-1231	2019
55	Do	Biodegradation of synthetic orange G dye by Pleurotus sojar-caju with Punica granatum peel as natural mediator	Biocatalysis and Agricultural Biotechnology	3.281	22	101420	2019
56	Do	Green Synthesis of Iron oxide nanoparticles using pomegranate seeds extract and photocatalytic activity evaluation for the degradation of textile dye	Journal of Materials Research and Technology	6.267	8(6)	6115-6124	2019
57	Do	Evaluation studies for the eradication of lead ions from aqueous system using Salvadora persica as a potential biosorbent material	Journal of Applied Agriculture and Biotechnology	0.2	3(1)	53-61	2019
58	Do	Kinetics and controlled release of lidocaine from novel carrageenan and	International Journal of Biological	8.025	147	67-78	2020

		alginate-based blend hydrogels	Macromolecules				
59	Do	Loading of Cefixime to pH sensitive chitosan based hydrogel and investigation of controlled release kinetics	International Journal of Biological Macromolecules	8.025	155	1236-1244	2020
60	Do	Effect of Hydrothermal Reaction Time on Electrical, Structural and Magnetic Properties of Cobalt Ferrite	Zeitschrift für Physikalische Chemie OR International Journal of Research in Physical Chemistry and Chemical Physics OR Z. Phys. Chem.	4.315	234(2)	323-353	2020
61	Do	A new approach of photocatalytic degradation of remazol brilliant blue by environment friendly fabricated zinc oxide nanoparticle	International Journal of Environmental Science and Technology	2.86	17	1765-1772	2020
62	Do	Stability-indicating HPLC-DAD assay for simultaneous quantification of hydrocortisone 21 acetate, dexamethasone, and fluocinolone acetonide in cosmetics	Open Chemistry	1.977	18	962-973	2020
63	Do	A novel molecular imprinted polymer layer electrode for enhanced sensitivity electrochemical determination of the antidepressant fluoxetine	Journal of Electroanalytical Chemistry	4.464	878	1-8	2020
64	Do	Gd and Co-substituted LaNiO ₃ and their nanocomposites with r-GO for photocatalytic applications	Diamond and related materials	3.315	110	108119	2020
65	Do	Micro-emulsion synthesis of La ₁₋	International Journal of		18	10-11	2020

		$x\text{Cr}_x\text{FeO}_3$ nanoparticles: effect of Cr doping on ferroelectric, dielectric and photocatalytic properties	Chemical Reactor Engineering	1.51			
66	Do	Synthesis of $\text{La}_{1-x}\text{Co}_x\text{Fe}_{1-y}\text{Cr}_y\text{O}_3$ nano crystallites for enhanced ferroelectric, magnetic and photocatalytic properties	Journal of Materials Research and Technology	6.267	9	12031-12042	2020
67	Do	Synthesis and characterization of NiFe_2O_4 ferrite: Sol-gel and hydrothermal synthesis routes effect on magnetic, structural and dielectric characteristics	Materials Chemistry and Physics	4.094	258	123888	2021
68	Do	Effect of dopant on ferroelectric, dielectric and photocatalytic properties of chromium-doped cobalt perovskite prepared via micro-emulsion route	Results in Physics	4.62	20	103726	2021
69	Do	Cationic distribution of nickel doped $\text{Ni}_x\text{Co}_{x-1}\text{Fe}_2\text{O}_4$ nanoparticles prepared by hydrothermal approach: Effect of doping on dielectric properties	Materials Chemistry and Physics	4.094	264	124451	2021
70	Do	Graphene oxide nanocomposite with Co and Fe doped LaCrO_3 perovskite active under solar light irradiation for the enhanced degradation of crystal violet dye	Journal of Molecular Liquids	6.165	322	114895	2021
71	Do	The effect of temperature on the structural, dielectric and magnetic	Zeitschrift für Physikalische Chemie OR International	4.315	235(10)	1279-1296	2021

		properties of cobalt ferrites synthesized via hydrothermal method	Journal of Research in Physical Chemistry and Chemical Physics OR Z. Phys. Chem.				
72	Do	Synthesis and characterization of magnetically separable $\text{La}_{1-x}\text{Bi}_x\text{Cr}_{1-y}\text{Fe}_y\text{O}_3$ and photocatalytic activity evaluation under visible light	Zeitschrift für Physikalische Chemie OR International Journal of Research in Physical Chemistry and Chemical Physics OR Z. Phys. Chem.	4.315	235 (11)	1413-1431	2021
73	Do	Ferroelectric, dielectric, magnetic, structural and photocatalytic properties of Co and Fe doped LaCrO_3 perovskite synthesized via micro-emulsion route	Ceramics International	4.527	47(12)	16696-16707	2021
74	Do	Fe_3O_4 /graphene oxide/ $\text{Fe}_4[\text{Fe}(\text{CN})_6]_3$ nanocomposite for high performance electromagnetic interference shielding	Ceramics International	4.527	47	11587-11595	2021
75	Do	Hydrothermal route for the synthesis of manganese ferrite nanoparticles and photocatalytic activity evaluation for the degradation of methylene blue dye	Zeitschrift für Physikalische Chemie OR International Journal of Research in Physical Chemistry and Chemical Physics OR Z. Phys. Chem.	4.315	235(11)	1433-1445	2021
76	Do	Band gap tuning of $\text{BaFe}_{12}\text{O}_{19}$ with Mg and Mn doping to enhance solar light absorption for photocatalytic	International Journal of Energy Research	5.164	45 (7)	11193-11205	2021

		application					
77	Do	Micro-emulsion approach for the fabrication of La _{1-x} Gd _x Cr _{1-y} Fe _y O ₃ : Magnetic, dielectric and photocatalytic activity evaluation under visible light irradiation	Results in Physics	4.62	23	104023	2021
78	Do	Structural, electrochemical and photocatalytic properties of zinc doped Co _{1-x} Zn _{1.5x} FeO ₃ perovskites prepared by auto combustion sol-gel approach	Results in Physics	4.62	26	104392	2021
79	Do	Cobalt doping of nickel ferrites via sol gel approach: effect of doping on the structural and dielectric properties	Zeitschrift für Physikalische Chemie OR International Journal of Research in Physical Chemistry and Chemical Physics OR Z. Phys. Chem.	4.315	235 (12)	1811-1829	2021
80	Do	Energy band gap tuning of LaNiO ₃ by Gd, Fe and Co ions doping to enhance solar light absorption for efficient photocatalytic degradation of RhB dye: A mechanistic approach	Journal of Molecular Liquids	6.165	343	117581	2021
81	Do	Aluminum nanoparticles, chitosan, acrylic acid and vinyltrimethoxysilane based hybrid hydrogel as a remarkable water super-absorbent and antimicrobial activity	Surfaces and Interfaces	4.837	25	101285	2021
82	Do	Ce and Fe doped	Materials	1.941	8(8)	085009	2021

		LaNiO ₃ synthesized by micro-emulsion route: Effect of doping on visible light absorption for photocatalytic application	Research Express				
83	Do	The electrochemical, dielectric, and ferroelectric properties of Gd and Fe doped LaNiO ₃ with an efficient solar-light driven catalytic activity to oxidize malachite green dye	Journal of Colloid and Interface Science	9.965	607	568-583	2022
84	Do	Highly photosensitized Mg ₄ Si ₆ O ₁₅ (OH) ₂ ·6H ₂ O@ guar gum nanofibers for the removal of methylene blue under solar light irradiation	Zeitschrift für Physikalische Chemie OR International Journal of Research in Physical Chemistry and Chemical Physics OR Z. Phys. Chem.	4.315	236 (2)	181-196	2022
85	Do	Magnetite/graphene oxide/Prussian blue composite with robust effectiveness for electromagnetic interference shielding	Ceramics International	4.527	48 (2)	1690-1698	2022
86	Do	Kinetics of methylene blue dye adsorptive removal using halloysite nanocomposite hydrogels	Zeitschrift für Physikalische Chemie OR International Journal of Research in Physical Chemistry and Chemical Physics OR Z. Phys. Chem.	4.315	236 (3)	373-385	2022
87	Do	Effect of dopant on ferroelectric, dielectric and photocatalytic properties of Co-La-	Ceramics International	4.527	48 (21)	31763-31772	2022

		doped dysprosium chromite prepared via microemulsion route					
88	Do	Size controlled synthesis of silver nanoparticles: a comparison of modified Turkevich and BRUST methods	Zeitschrift für Physikalische Chemie OR International Journal of Research in Physical Chemistry and Chemical Physics OR Z. Phys. Chem.	4.315	236 (9)	1173-1189	2022
89	Do	Investigation of electrochemical reduction and monitoring of p-nitrophenol on imprinted polymer modified electrode	Synthetic Metals	4	287	117083	2022
90	Do	Yttrium and Cobalt doped LaNiO ₃ nanoparticles synthesis and solar light driven photocatalytic removal of Rhodamine B	Materials Research Bulletin	5.6	159	112112	2023
91	Do	Solar light-based photocatalytic removal of CV and RhB dyes using Bi and Al doped SrFe ₁₂ O ₁₉ NPs and antibacterial properties	Journal of Industrial and Engineering Chemistry	6.76	118	469-482	2023
92	Do	Cationic distributions and dielectric properties of magnesium ferrites fabricated by sol-gel route and photocatalytic activity evaluation	Zeitschrift für Physikalische Chemie OR International Journal of Research in Physical Chemistry and Chemical Physics OR Z. Phys. Chem.	4.315	237(1-2)	67-86	2023

93	Do	Barium and strontium doped La-based perovskite synthesis via sol-gel route and photocatalytic activity evaluation for methylene blue	Results in Physics	4.565	45	106235	2023
94	Do	Adsorption Thermodynamics, Modeling, and Kinetics Studies for the Removal of Lead Ions Using ZnO Nanorods	Adsorption Science & Technology	2.9	2023	10	2023
95	Do	Zn/Mn co-doped NiO synthesized by sol-gel route for the photocatalytic degradation of methylene blue dye	ChemistrySelect	2.1	08	10	2023

RESEARCH PROJECTS

From University of the Punjab:

Projects Title	Principal Co-Principal Investigation	Amount PKR	Duration
New solid phase extraction gas chromatography mass spectrometry for determination of carcinogenic halogenated acid (HAA)	Principal	125,000	1 Year (2010)
Novel disposable pipette extraction for the determination of pesticides in fruits and vegetables using GC MS/ HPLC	Principal	150,000	1 Year (2011)
Novel mesoporous materials as the solid phase extraction for pre concentration environmental pollutants in fruits and vegetables and water using GC MS/ HPLC	Principal	150,000	1 Year (2012)

Selective sensing of Haloacetic acids by using molecular imprinted polymers	Principal	150,000	1 Year (2013)
Synthesis and characterization of NiO and ZnO nanoparticles for the removal of Lead (Pb) from wastewater	Principal	150,000	1 Year (2014)
Efficient removal of micropollutant from drinking and wastage water by using a porous β -cyclodextrin polymer	Principal	150,000	1 Year (2015)
Novel organic metal catalysts: Design, Synthesis, characterization evaluating their photocatalytic activity against toxic substances	Principal	150,000	1 Year (2017)
Multifunctional photosynthesized nanofibers for degradation of emergent organic pollutants	Principal	150,000	1 Year (2018)
Multifunctional Photosensitization of TiO ₂ Nanofibers by Coupling/Doping with Metals, Non-Metals and Ferrites for Photocatalytic Activity under Stimulated Sunlight	Principal	200,000	1 Year (2019)
Transition Metals Based Electrocatalysts for Hydrogen Production: A Green Fuel	Principal	250,000	1 Year (2021)
Overall Electrochemical Water splitting: A Tool to Produce Clean and Sustainable Fuel	Principal	500,000	1 year (2021)

Novel synthesis of composite Si-C based anode materials for sodium ion batteries (SIB's)	Principal	250,000	1 year (2022)
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INTERNATIONAL AND NATIONAL CONFERENCES AND WORKSHOPS

Sr. No.	Type	Title	Date
<u>1</u>	International Conference	Chlorination and chloramines formation. Lim Fang Yee, Md. Pauzi Abdullah, Sadia Ata, Abass Abdullah, BasarIshak and KhairulNidzham. 12th Asian Chemical Congress (12ACC), Malaysia	23-25 August 2007
<u>2</u>	International Conference	Improved SPE-GC-MS method for determination halogenated acids in drinking water. Md. Pauzi Abdullah and Sadia Ata. Asian Water 2008: International Conference on water and waste water, Malaysia	1-2 April 2008
<u>3</u>	International Conference	The study of interrelationship between raw water quality parameters, chlorine demand and formation of disinfection byproducts. 9 th Waternet/ Warfsa Symposium. Md. Pauzi Abdullah, Lim Fang Yee, Sadia Ata, Abass Abdullah, BasarIshak and KhairulNidzham Zainal Abidin, South Africa	28-31 October 2008
<u>4</u>	International Conference	Spe-GC-MS method optimization using 2-level full factorial experimental design. Sadia Ata and Md Pauzi Abdullah. Malaysia , Kolokium Siswazah, Ke-8, Falkultidan Teknologi.	1-2 July 2008
<u>5</u>	International Conference	Multiple regression modeling of Haloacetic acids formation in Malaysian drinking water. Sadia Ata and Md Pauzi Abdullah. Asian Water 2009: International Conference on water and waste water, Indonesia	16-17 May 2009
<u>6</u>	International Conference	The 9 th Postgraduate Colloquium, Faculty of science and technology, Malaysia	24-25 June 2009
<u>7</u>	International Conference	Optimization gas chromatographic analysis of non-volatile halogenated acids in drinking water using factorial experimental design. 10 th Asian Conference on analytical sciences (Asianalysis X), Malaysia	11,13 August 2009
<u>8</u>	International Conference	8 th International Conference and 20 th National Chemistry Conference. Quaid-i-Azam University, Islamabad and Pakistan Chemical Society. Islamabad, Pakistan	21-23 October 2010

<u>9</u>	International Conference	Haloacetic acids in drinking water reservoir and multiple regression modeling for their occurrence. The Sixth Jordanian International Conference of Chemistry, Jordan	19-21 April 2011
<u>10</u>	International Conference	Paper presented in 10 th International and 22 th National Chemistry Conference. The Chemical Society of Pakistan. Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad, Pakistan	21-23 November 2011
<u>11</u>	International Conference	Analysis of Non-Volatile Toxic Heavy Metals (Cd, Pb, Cu, Cr and Zn) in Allium Sativum (Garlic) and soil samples, collected from different locations of Punjab, Pakistan by Atomic Absorption Spectroscopy. The 16 th International Conference on Heavy Metals in the Environment. Angelicum Conference Center, Italy	23-27 September 2012
<u>12</u>	International Conference	Tracer Elements analysis of Aerosols in the Atmosphere of Lahore using Radio Analytical Techniques (Poster Presentation). The 16 th International Conference on heavy Metals in Environment. Rome, Italy	13-17 September 2012
<u>13</u>	International Conference	3 rd International Conference on Materials and Applications for Sensors and Transducers, September 13-17, 2013, Czech Republic	13-17 September 2013
<u>14</u>	International Conference	25 th National and 13 th International Chemistry Conference. Lahore, Pakistan	20-22 October 2014
<u>15</u>	International Conference	The 16 th International Conference on X-ray Absorption Fine Structure – XAFS16 in Germany	23-28 August 2015
<u>16</u>	International Conference	Polyurethanes Technical Conference Hilton, Baltimore, Maryland, USA	26-28 September 2016
<u>17</u>	International Conference	EuCheMS Chemistry Congress Liverpool, United Kingdom	26-30 August 2018
<u>18</u>	International Conference	RSC Pakistan 1 st International Conference on Medicinal Chemistry and Drug Discovery, COMSTECH, Islamabad, Pakistan	18-19 October 2018
<u>19</u>	International Conference	International Conference on Modern trends in Chemistry & Energy Technologies COMSATS, Islamabad, Pakistan	22-23 October 2018
<u>20</u>	International Conference	International Chemistry Conference Fore fronts of Chemistry Celebrating Periodic Table Year 2019, Institute of Chemical Sciences, BZU Multan	27-29 March 2019

<u>21</u>	International Workshop	Principle and applications of modern Mass Spectrometry by Prof. Dr. AthulaAttygalle(Steven institute of Technology, Hoboken, New Jersey), Malaysia	7-9 January 2009
<u>22</u>	International Workshop	Interpretation of electron ionization mass spectra: Aproblem-based learning approach held on 2-5 June 2009 by Prof. Dr. AthulaAttygalle (Steven institute of Technology, Hoboken, New Jersey), Malaysia	2-5 June 2009
<u>23</u>	International Workshop	User training for basic operation and principle of Gas Chromatography by Perkin Elmer Malaysia	18 March 2009
<u>24</u>	International Workshop	Bengkel Asas KristalografiSinar-X, 4-6-2008. Malaysia	4 June 2008
<u>25</u>	International Workshop	International workshop on rational design of materials for energy needs: Computation and Experimentation organized by Comstech and CIIT, Islamabad	22-26 May 2017
<u>26</u>	International Workshop	2 nd International workshop on Experimental Biology, Islamabad, Pakistan	22-24 Nov 2017
<u>27</u>	International Workshop	Workshop on Magnetic Materials, Islamabad, Pakistan	19 Oct 2017
<u>28</u>	International Workshop	15 th International symposium on advanced materials: Workshop on magnetic materials, Islamabad, Pakistan	16-20 October 2017
<u>29</u>	International Workshop	3 rd International Nano-medicine Symposium at PAEC Islamabad, Pakistan	21 Nov 2017
<u>30</u>	International Conference	Oral Presentation in 19 th International and 31 st National Conference on Emerging Trends in Chemistry, UMT Lahore, Pakistan	16-18 December 2021
<u>31</u>	International Conference	Poster Presentation in 5 th Conference on Emerging Materials and Processes CEMP21, NUST Islamabad, Pakistan	29-30 November, 2021
<u>32</u>	International Conference	Oral Presentation in 1 st International conference on Innovations in Chemistry and Physics, University of Education, Faisalabad Campus, Faisalabad Pakistan	14-15 March, 2022
<u>33</u>	International Conference	Oral Presentation in International Conference on Research Advancements in Chemistry (ICRA-C 2022) SNS-NUST Islamabad, Pakistan	24-25 August 2022

<u>34</u>	International Conference	Invited speaker, 3rd International Conference on Innovations in Chemical and Allied Sciences (CASSD-2022) the Women University Multan	28-30 November 2022
<u>35</u>	International Conference	Invited speaker, 3rd International Conference on Water Energy and Environment for Sustainability (IC-WEES) –2023” organized by SNS-NUST, Islamabad	16-18 August 2023
<u>35</u>	National Conference	Poster presented in 10 th International and 22 th National Chemistry conference. The Chemical Society of Pakistan. Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad, Pakistan	21-23 November 2011
<u>36</u>	National Conference	National Conference on Islam and Environment organized by National Foundation of Environmental Education and Research, Lahore, Pakistan	19 May 2012
<u>37</u>	National Conference	3 rd ASEAN-Pakistan conference on Material Science at School of Chemical & Materials Engineering, National University of Science and technology (NUST), Islamabad, Pakistan	25-27 November 2014
<u>38</u>	National Conference	2 nd Conference on Emerging Materials & Processes School of Chemical & Materials Engineering, NUST Islamabad, Pakistan	2014
<u>39</u>	National Conference	26 th National and 14 th International Chemistry Conference of The Chemical Society of Pakistan at Islamia University of Bahawalpur, Pakistan	5-8 October 2015
<u>40</u>	National Conference	Conference on emerging trends in Earth and Environmental sciences, Lahore, Pakistan	9-10 March 2017
<u>41</u>	National Conference	Poster presentation in International scientific school by National Centre for Physics, Islamabad, Pakistan	13-17 March 2017
<u>42</u>	National Conference	5th conference on Frontiers of Nanoscience and Nanotechnology PINSTECH, Islamabad	24-25 September 2019
<u>43</u>	National Symposium	4 th International Symposium on Biomedical Materials: Translational research and commercialization, University of Health Sciences (UHS), King Adward Medical University, COMSAT (CIIT), Lahore, Pakistan.	15-17 December 2014
<u>44</u>	National Workshop	Training Workshop on advanced Analytical techniques for sustainable development. PINSTECH, Islamabad, Pakistan	20 Sep-20 Oct 2010
<u>45</u>	National Workshop	One day workshop on Forensic science conducted by Speers chemical society and Royal chemical society . FC College, Lahore, Pakistan	2011
<u>46</u>	National Workshop	Workshop on sample pretreatment procedure for advanced Analytical techniques. PINSTECH, Islamabad, Pakistan	9-13 May 2011

<u>47</u>	National Workshop	Workshop on CELUE under department of Microbiology and Molecular Genetics in collaboration with learning division HEC, Lahore, Pakistan	18-22 October 2011
<u>48</u>	National Workshop	Workshop on Materials Characterization by X-ray diffraction, PINSTECH, Islamabad, Pakistan	21-25 May 2012
<u>49</u>	National Workshop	National Training Workshop on Synthesis & Characterization of Nano-structured Materials with Novel morphologies, Faisalabad, Pakistan	18-21 February 2013
<u>50</u>	National Workshop	National workshop on waste management held at Lahore, Pakistan	26 February 2013
<u>51</u>	National Workshop	Chemical Trends 2014 – 17 by the Department of Chemistry, SBA School of Sciences & Engineering Lahore University of Management Sciences, Lahore (LUMS) Pakistan.	2014
<u>52</u>	National Workshop	Training Workshop on Advanced Chemical Techniques in Natural and Applied Sciences, Faisalabad, Pakistan	10 -12 September 2015
<u>53</u>	International conference	Workshop on hands-on experience of characterization techniques for nano materials	23-24 November 2023

RESEARCH SUPERVISION

Supervised

BS	9
M.Sc.	50
M.Phil	36
Ph.D	5

Supervision/ongoing

BS	1
M.Sc	5
M.Phil	4
Ph.D	4

LIST OF THESIS SUPERVISED (BS/M.SC)

Sr. No.	Student's Name	Thesis Title	Year
01	Atta Rasool	Removal of dye (commasie brilliant blue) by using wheat bran as a low cost adsorbent.	2010

02	Imran Qasim	Evaluation and fate of heavy metals pollution and water quality in Indus river and underground water (Mianwali).	2010
03	Momina Feroz	An improved method of extract pesticides residues in fruits using HPLC with UV detector.	2011
04	Saira Arif	Evaluation of pesticides residue in vegetables using Reversed phase HPLC.	2011
05	Ayesha Maqsood	Comparative study of acid digestion method for determination of metals in chocolates, potato chips and biscuits by atomic absorption spectroscopy and flame emission spectra.	2011
06	Fareeha Arooj	Mesoporous molecular sieve (MCM-41, SBA-16) as solid phase extraction material of organo phosphorous residues from fruit and sample using HPLC reverse method.	2011
07	Faiza Farooq	Elemental profile of 24 common medicinal plants of Pakistan and its direct link with therapeutic use.	2011
08	Muhammad Amir	Estimation of heavy metals (Pb, Cd and Cr) in soil of different cities of Punjab province.	2011
09	Mamoon Rasheed	Determination of toxic elements in blood of smokers, non-smokers and hypertensive patients by using AAS and ICP-OES.	2011
10	M. Nasir Ali	Quality control monitoring of lactulose in lactulose syrups.	2011
11	Tabinda Asif	Application of existing methods for pesticides analysis in water of different contaminated areas using GC-MS.	2011
12	Sidra Tayyab	Analysis of non-volatile toxic heavy metals (Cd, Pb, Cu, Cr and Zn) in Allium Sativum (garlic) and soil samples collected from different locations of Punjab, Pakistan by Atomic Absorption.	2012
13	Mehwish Aslam	Impregnation of ZSM-5 with iron used as an adsorbent for eradication of cadmium in water.	2013
14	Abid Hussain Khan	Speciation of chromium metal in the underground and waste water of Kasur district using atomic absorption.	2013
15	Hanan Naeem	Nanotechnology used as an efficient tool for remedy of Pb metal in water system.	2014
16	Mahpara Alam	Chemical remediation of Zinc metal from aqueous media by using Nanosilica as a sorbent.	2014

17	UmanaBint-e-Irshad	Bioremediation of Cr (vi) from water system by Peanut shells.	2014
18	Samina Rafiq	Utilization of salvadorapersica for removal of Pb(II) ions from aqueous solution.	2014
19	Yasra Asghar	Synthesis and Characterization of Polymethacrylate, Poly4-Vinylpyridine, Copolymer and its utilization for removal of cadmium from water system.	2015
20	Hafiza Monaza Batool	Evaluation Study of Copper by using atomic absorption spectrophotometry after enrichment with modified chitosan.	2015
21	Saira Ashraf	Chitosan coated with cellulose as a absorbent for enrichment study of zinc by using atomic absorption spectrophotometry.	2015
22	Maria Tariq	Chitosan coated with hydroxyapatite as a new sorbent for preconcentration of cadmium in ground water by using atomic absorption spectrophotometer.	2015
23	Komal Bashir	Synthesis and characterization of Silver coated Silica nanoparticles.	2016
24	M Ismail Khan Meo	Novel synthesis and characterization of 1,4-Benzenedicarbonitrite,2,3,5,6- β -cyclodextrin	2016
25	Aqsa Manzoor	Effective Photocatalytic decolorization of Methylene Blue utilizing ZnO nanoparticles under UV radiation	
26	Rimsha Majeed	Synthesis and characterization of Ag coated Fe ₂ O ₃ nanoparticles and their utilization in degradation of methylene blue dye in water system.	2017
27	Talha Naseeb	Preparation of Chitosan nanoparticle and its use for the removal of Dye from aqueous solution.	2017
28	Shahbaz Ali	Synthesis of cyclodextrin polymer and its application for removal of Biophenol A.	2017
29	Amina Islam	Effective Photocatalytic degradation of Methylene blue by using silver doped ZnO nanoparticles synthesized from chemical precipitation method.	2017
30	Nimra Sardar	Synthesis and Characterization of Calcium Ferrites via Sol gel Auto-combustion method and its application as Photo-catalysts for Degradation of Methylene Blue	2018
31	Muhammad Haris	Evaluation study of Chromium Ferrite for Photo degradation of Methylene Blue	2018
32	Muhammad Rizwan	To check toxicicy of heavy metals in drinking water samples taking from different areas of the Punjab	2018
33	Sara Bano	Synthesis of Magnesium Ferrite nano-particles by Sol-Gel auto combustion method, its characterization and photo catalytic evaluation.	2019
34	Hamid Mahmood	Synthesis and characterization of graphene oxide and GO-Fe ₃ O ₄ nanocomposite.	2019

35	Mueen Ur Rehman	Synthesis and characterization of magnesium cobalt ferrite via Sol-Gel auto-combustion and its photocatalytic evaluation.	2019
36	Muhammad Shoaib	Synthesis and characterization of reduced GO/Fe ₃ O ₄ /PB nanocomposites.	2019
37	Syed Ashir Hussain Bukhari	Synthesis and characterization of grapheme oxide/Magnetite/Persian blue for EMI shielding.	2019
38	Warda Zaheer	Synthesis and characterization of Mn Doped ZnO nanoparticles and their application for photocatalytic degradation of methylene blue dye.	2020
39	Maria Maqsood	Synthesis of aluminium doped nickel ferrite by sol gel auto combustion method and its evaluation for photocatalytic activity	2020
40	Afaq	Synthesis of PVA/PVP/sepiolite hydrogels for photocatalytic degradation of methylene blue	2020
41	Saamia Naz	Sol gel synthesis of aluminium doped cobalt ferrites and heir application in photocatalytic degradation of methylene blue	2020
42	Sukaina Ali	Study of photocatalytic degradation of methylene blue using polymer/clay/hydrogels	2020
43	Zunaira	Synthesis and characterization of Nickel ferrites nanoparticles by via Co-precipitation method and its application in photocatalytic degradation of Methylene Blue dye	2021
44	Mahrukh	Effective photocatalytic degradation of Methylene Blue by using Silver doped ZnO nanoparticles synthesized from Sol-gel method	2021
45	Goher Nayab Tania	Synthesis and characterization of Zinc doped Cobalt oxide via Co-precipitation method and its application as photocatalytic degradation of Methylene Blue dye	2021
46	Shahida	Synthesis of Cobalt ferrites nanoparticles by via Co-precipitation method and its application in photocatalytic degradation of Methylene Blue dye	2021
47	Mohsin	Synthesis and characterization of Zinc doped Copper oxide via Co-precipitation method and its application in photocatalytic degradation of Methylene Blue dye	2021
48	Hira Aslam	Synthesis and Characterization of Substituted Lanthanum Perovskite via Sol-Gel Method and its Application as a Photocatalyst	2022
49	Adeen Sehar	Synthesis of LaNiO ₃ Perovskites coated with g-C ₃ N ₄ polymer and its utilization as photocatalysts in water system	2022
50	Muhammad Ali	Synthesis of polymer coated LaCuO ₃ Perovskites via Sol-Gel method and its application as photocatalyst	2022
51	Nimra Shabbir	Enhanced photocatalytic degradation of Methylene Blue dye with Ba ⁺² doped Bimetallic Cu-Mn oxides synthesized by Sol Gel method	2022

52	Iqra Asmat	Sol Gel synthesis of Mg doped Cu-Mn Bimetal oxides and its application as a Photocatalyst	2022
53	Iffat Batool	Sol Gel synthesis of CuMnOx and Al doped CuMnOx nanoparticles as an effective photocatalysts for the degradation of Methylene Blue dye	2022
54	Ayesha Boota	Synthesis and characterization of Boron doped Cu-Mn oxide through Sol Gel method and its application in Photocatalytic degradation of Methylene Blue Dye	2023
55	Nimra Akram	Synthesis and characterization of Ni and Sr co-doped Bismuth Molybdates via Co-precipitation method and its application in photocatalytic de degradation of Methylene Blue Dye	2023
56	Asma Sardar	Synthesis and characterization of Ba and Ni co-doped Bismuth Molybdates via Co-precipitation method and its application in photocatalytic de degradation of Methylene Blue Dye	2023
57	Aneesha Mehrooz	Synthesis and characterization of Zinc doped Vanadium ferrites via Sol Gel method and its application as Photocatalyst	2023
58	Atta-Ur-Rehman	Synthesis and characterization of Manganese doped Vanadium ferrites via Sol Gel technique and its application as a Photocatalyst: A novel approach towards environmental remediation	2023
59	M. Kashif	Synthesis and characterization of Lanthanum doped Vanadium ferrites via Sol Gel method and its application as a Photocatalyst	2023

LIST OF THESIS SUPERVISED (MS/M.Phil)

Sr. No.	Student's Name	Thesis Title	Year
01	Tanzeela Ghulab Shazady	Impact of Arsenic level in livestock drinking water on cow's raw milk using Graphite furnace and Hydride generation atomic absorption spectrometry.	2012
02	Andleeb aziz	Evaluation of conductive polymer as an adsorbent for eradiction of Arsenic from aqueous solution using ICP-OES.	2012
03	Simab Shaheen	Development of Tc-99 methotrexate as a potential radio pharmaceutical for cancer diagnosis.	2012
04	Imran Qasim	Synthesis and impregnation of ZSM-5 with Iron and its utilization for removal of Atrazine.	2012
05	Ata Rasool	Synthesis, structural and biological study of transition metal complexes of N-(pyridine) and O-(carboxylate) donor ligands.	2012

06	SairaNasir	New grafted nano-silica based sorbent for analysis of polycyclic aromatic hydrocarbons in drinking water samples using HPLC.	2013
07	Momina Feroz	Synthesis and characterization of molecular imprinted polymer based on TCAA for screening of Haloacetic acid in water.	2013
08	Mehreen Fatima	Synthesis and characterization of grafted nan-osilica with Linoleic Acid for preconcentration of pesticides in water using HPLC.	2014
09	Shaista Khaliq	Synthesis and performance characterization of Biopolymer based hydrogels for biomedical applications.	2015
10	Akmal Shahzad Babar	Synthesis of polyurethane foam & application study for removal of methylene blue.	2015
11	Anila Tabassum	Synthesis and Characterization of NiO and ZnO Nanoparticles and its utilization for removal of Pb (II) from water.	2015
12	Mabushar Siddique	Zeolite supported monometallic catalyst and evaluation of their activity for the degradation of waste polythene.	2016
13	Mussawir Ali Mirza	Novel metal complex photo-catalysts: Design, Synthesis, Characterization and evaluation of their photocatalytic activity against toxic substances.	2017
14	Arooj Umer	Development and validation studies of Cyanide quantitation using Cyanocobalamine as reagent by using spectrophotometer.	2017
15	Jamal Afzal	Preparation and characterization of zeolite based catalysts and its utilization on oxidation-reduction reaction.	2017
16	Fatima Amjad	Biosynthesis and photo-catalytic degradation efficiency of ZnO, CdO and CoO nanoparticles.	2017
17	Asma Khalid	Development of Biopolymers based food packaging material.	2017
18	Muddassir Lateef	Novel synthesis of 1,4- Benenedicaronitrile,2,3,5,6-Tetrachloro- β -Cyclodextrin polymer and its characterization	2017
19	Muhammad Imran	Development and validation of RP-HPLC based method for estimation of Omeprazole	2018

20	Osama Naveed	Evaluation study of zinc ferrite for the photocatalytic degradation of cationic dye in aqueous solution	2018
21	Amna Zaman	Evaluation study of Cadmium substituted Manganese Ferrite for Photocatalytic Degradation of Dye in aqueous solution	2018
22	Muhammad Umar Ismaeel	Development and validation of RP-HPLC method for estimation of Cytarabine (Cytosine Arabinoside)	2018
23	Ifra Shaheen	Hydrothermal synthesis of fine stablized Superparamagnetic Nano-particles of Zn ⁺² substituted Manganese Ferrite and their application in Photocatalytic degradation of Methylene Blue	2018
24	Rimsha Majeed	Controlled release of Cephradine by pH-sensitive Hydrogels for application of Periodontal disease	2019
25	Aqsa Manzoor	Controlled delivery of drug from Ph-sensitive Chitosen /PEG blend using 1,4-Diaminobutane as a Cross-linker	2019
26	Shah Rukh	Study of the effect of Kaolin on synthesis of novel cationic polymeric films for packaging.	2019
27	Amina Islam	Study of the effect of Silane Crosslinker (VTES) on synthesis of novel anionic polymeric films for packaging.	2019
28	Sadaf Amin	Synthesize of biodegradable composite hydrogel with inorganic additive for efficient removal of cationic dye from waste water under simulated light.	2020
29	Saba Naz	Fabrication of biopolymers based nanofibrous materials incorporated with clay minerals intended for photodegradation of cationic dye for waste water treatment under simulated sunlight.	2020
30	Warda Zaheer	Sol-gel synthesis of NiO and (Zn, Mn) codoped NiO nanoparticles and their application as photocatalyst in dye degradation	2022
31	Ayesha Bibi	Hydrothermal synthesis and characterization of Lanthanum based perovskites and utilization of photodegradation of organic pollutants	2022
32	Fatima Saleem	Hydrothermal synthesis of Flourine doped and Carbon Co-doped Na ₃ V ₂ (PO ₄) ₂ F ₃ positive electrode materials for sodium ion battery	2023

33	Asma Shahi	Synthesis of $\text{Na}_{3-x}\text{SbS}_{4-x}\text{Cl}_x$ solid electrolyte via aqueous route for all solid state sodium ion batteries	2023
34	Shiza Shoaib	Almond shell derived Hard Carbon: A sustainable pathway for affordable, high performance anodes for Sodium ion batteries and study of S-doping effect on its properties	2023
35	Rimsha Arshad	Bromine-Doped Na_3SbS_4 : A Low Cost, Highly Efficient Electrolyte for Sodium-Ion Batteries (NIBs) with Enhanced Structural and Electrochemical Properties	2023
36	Hafsa Iqbal	Synthesis of Hard Carbon from Peanut shell and influence of N/P dopants on electrochemical performance in sodium ion batteries	2023

List of Ph.D thesis supervised

LIST OF THESIS SUPERVISED (PHD)

1	Samina Ghafoor	Multifunctional Composite Nano-fiber Membranes with Enhanced Photo-degradation and Antimicrobial Performance for Water Remediation	2019
2	Atta Rasool	Biopolymer based stimuli responsive blend hydrogels: Synthesis, characterization and applications in biomedicine	2019
3	Saira Arif	Evaluation of Skin Whitening Creams for Legal and Illegal Whitening Agents	2021
4	Momina Feroze	Molecular Imprinted Polymer Coated Electrochemical Sensors for Evaluation of Biological and Environmental Samples	2021
5	Nouroze Gul	Development of Radiopharmaceuticals for Diagnostic Imaging and Therapy	2023

Books Published

Author	Title	Publisher	ISSN
Sadia Ata	Chapter Title: Synthesis of Stable and		

	Monodispersed Cobalt Nanoparticles and Their Application as Light-Driven Photocatalytic Agents for Dye Degradation	Wiley Online Library © 2020 Scrivener Publishing LLC	Online ISBN: 978111964135 Print ISBN: 9781119640455
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