

# Curriculum Vitae

Najma Memon, Ph.D.

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Professor, National Centre of Excellence in Analytical  
Chemistry, University of Sindh, Jamshoro, Pakistan

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**RESEARCH INTEREST**

- Nanocomposites and applications
- Carbon materials from waste and their composites for water purification, biodiesel production and energy storage.
- Food Composition and Analysis
- Developing new LC methods for; a) analysis of phenolic compounds in food matrices, b) active ingredients in pharmaceutical formulations.
- Analysis and removal of organic contaminants in wastewater; chromatographic techniques coupled to mass spectroscopy / adsorptive removal methods  
Preparation and applications of AOT microemulsion based organogel; immobilization of enzymes for degradation of organic pollutants
- Synthesis, characterization, and analytical applications of tailor-made and surface modified polymers (molecularly Imprinted organic polymers and inorganic coordination polymers)

**EXPERIENCE**

Professor at NCE in Analytical Chemistry, University of Sindh	22 February 2017- till date
Visiting Faculty at United States-Pak Center for Advanced Research in Water (USPCAS-W), MUET, Jamshoro	June 2017-Dec 2018
Associate Professor at NCE in Analytical Chemistry, University of Sindh	26 March 2012 – 22 February 2017
Assistant Professor at NCE in Analytical Chemistry, University of Sindh	14 July 2006 – 26 March 2012
Lecturer/ Research Associate at NCE in Analytical Chemistry, University of Sindh	13 November 2000- 14 July 2006
Post Doc Fellow at Wake Forest University, USA	13 December 2006 – 13 January 2008

**OVERVIEW OF ACHIEVEMENTS****Overall**

**Impact factor: 208.6**

**Total Number of publications: 131** (Including 02 Books and 14 book chapters)

**Conference Presentations: 85**

**Events Organized: 17**

**Editorial positions: Five**

**Projects: 08**

**Patents: 01**

**PhD supervised: 17**

**MPhil supervised: 20**

**Total Subjects: 08**

## COURSES DEVELOPED

1. Liquid Chromatography-CH751 (MPhil)
2. Research Methodology and Scientific Writing-Equivalent to HEC Course #702- (MPhil)
3. A module in Material Chemistry- CH-723 (MPhil)

## BOOKS/BOOK CHAPTERS

### Books

1. Sandeep Poddar, Debajyoti Bose, Najma Memon "Sustainable Disaster Management and Human Health" Nova Publisher, USA 2023. [Sustainable Disaster Management and Human Health – Nova Science Publishers \(novapublishers.com\)](https://www.novapublishers.com)
2. Najma Memon, Saima Memon and Shakeela Abbas, 'Advancements in Photothermal Materials for Interfacial Solar Vaporization' CRC Press, UK 2024

### Book Chapters

1. "Fluorescence in Organized Assemblies", [Najma Memon](#), Aamna Balouch and Willie L. Hinze, Invited updated review chapter in **Encyclopedia in Analytical Chemistry**, (R. A. Meyers, Ed.), John Wiley & Sons, Ltd., Chichester, England (2008) pp. 1-60.
2. "Chemical analysis of sand and pigments used in glass manufacturing", Najma Memon, M. Iqbal Bhangar and Sharif Shaikh, **Lab Manual**, (NCE in Analytical Chemistry publication), Pakistan, 2010. (*A project of SMEDA, Pakistan*).
3. "Frangipani" in "**Medicinal Plants of South Asia: Novel Sources for Drug Discovery**", Saba Idrees, Muhammad Asif Hanif, Muhammad Adnan Ayub, Najma Memon, Elsevier Sciences (2020). **Paperback ISBN: 9780081026595, eBook ISBN: 9780081026601.** <https://doi.org/10.1016/B978-0-08-102659-5.00022-7>
4. "Materials and Technologies for Removal of Chromium from Aqueous Systems" in "**Sustainable Agriculture Reviews, Vol.40** Fayyaz Salih Hussain and Najma Memon, Springer Nature (2020). Print ISBN: 978-3-030-33280-8, EISBN: 978-3-030-33281-5, <https://doi.org/10.1007/978-3-030-33281-5>
5. "Quantum Dots Coated Molecularly Imprinted Polymer as Probes for Environmentally and Medicinally Important Analytes" in **Molecular Imprinting for Nanosensors and Other Sensing Applications**, Najma Memon, Sakib Laghari, Tahira Qureshi, M. Iqbal Bhangar and Muhammad Raza Shah, Elsevier Sciences (2021). <https://doi.org/10.1016/B978-0-12-822117-4.00009-5> Paperback ISBN: 9780128221174.
6. "Modified Layered Double Hydroxide for Degradation of Dyes." In *Advanced Removal Techniques for Dye-containing Wastewaters*, Khan, Sidra, Afroz Gul, Najma Memon, and Saima Q. Memon. pp. 1-35. Springer, Singapore, 2021. DOI: 10.1007/978-981-16-3164-1\_1
7. Tahira Qureshi, Muhammad Faisal, Sumera Qureshi and Najma Memon, "Magnetic biosensors for virus detection" in *Biosensors for virus detection*, IOP publisher (2021). <https://doi.org/10.1088/978-0-7503-3867-7ch7>
8. "Fenton-like processes in Dye Removal" in "**Perspectives on Advanced Oxidation Processes in Dye Wastewater**. Sidra Khan, Afroz Gul, Fayyaz Salih Hussain, Saima Q Memon, Najma Memon, Springer Nature (2022). <https://doi.org/10.1007/978-981-19-0987-0>
9. "Authenticity and chemometrics of nuts" in "**Chemometrics and Authenticity of Foods of Plant Origin**" Fayyaz Salih Hussain, Najma Memon, Nilgün Yenil, Fadim Yemiş and Tahir Mehmood, CRC Press (2022). [Chemometrics and Authenticity of Foods of Plant Origin - 1st Edition - \(routledge.com\)](https://www.routledge.com)
10. "Recent Advances in extraction of keratin from Industrial waste" in "**Extraction of Natural Products from Agro-Industrial Wastes: A Green and Sustainable Approach**", Fayyaz Salih Hussain and Najma Memon, Elsevier Sciences (2023). <https://doi.org/10.1016/B978-0-12-823349-8.00010-1>

11. Shaikh, Huma, Mehrunnisa Koonthar, and Najma Memon. "Nanomachines and their biomedical applications." In *Biophysics At the Nanoscale*, pp. 131-150. Academic Press, 2024. <https://doi.org/10.1016/B978-0-443-15359-4.00002-4>
12. "Fundamental scope of nanomaterial synthesis from wastes" in "Green and Sustainable Approaches using Wastes for the Production of Multifunctional Nanomaterials", Naveed Qasim Abro, Najma Memon, Muhammad Siddique Kalhoro, Sakib Hussain Iaghari, Zaffar Ali, Elsevier (revision submitted)
13. Najma Memon, "Surface enhanced Raman spectroscopy-based plasmonic nanosensors for the detection of threats" in "-submitted
14. Shazia Chohan, Sanam Iram Soomro, Najma Memon and Hüseyin Kara, "Analysis of Organic Contaminants" in *Nanobiotechnology for sustainable food management*, CRC Press (submitted)
15. Shazia Chohan, Sanam Iram Soomro, Najma Memon and Hüseyin Kara, Acrylamide and Safety: Food Processing and Manufacturing-Related Effects' in 'Food Toxicology and Safety: Food Manufacturing Related Effects' CRC Press (invited chapter in process)
16. "Biochar for electrochemical energy storage" in '**Biochar a Sustainable Approach: Recent Advances in Production and Applications**', Najma Memon, Naveed Abro and Bakhtiar Samejo, Springer Nature (submitted)

## PATENTS

1. Najma Memon, Aisha Kanwal, Zeeshan Khatri, Zachary D. Hood, Shahabuddin Memon, "Scalable Arsenazo(III) blended nanofiber mats for selective uranium removal "(Applied 2020), IPO, Pakistan- Granted in Jan 2023

## REVIEWS AND REGULAR PAPERS

No.	Manuscript information	IF (208.6)	Cite score
114	Khilji, Meher-Un-Nisa, Aijaz Ali Otho, Roomia Memon, Awais Khalid, Mohsin Kazi, Ali Hyder, Dahar Janwery et al. "Facile Fabrication of a Free-Standing Magnesium Oxide-Graphene Oxide Functionalized Membrane: A Robust and Efficient Material for the Removal of Pollutants from Aqueous Matrices." <i>Analytical Letters</i> (2023): 1-18. <a href="https://doi.org/10.1080/00032719.2023.2284841">https://doi.org/10.1080/00032719.2023.2284841</a>	2.0	4.1
113	Rind, Imran Khan, Muhammad Yar Khuhawar, Taj Muhammad Jahangir, Najma Memon, Muhammad Farooque Lanjwani, and Waheed Ali Soomro. "Water quality index and geographic information system to assess the groundwater quality of taluka Matiari, Sindh, Pakistan." <i>Arabian Journal of Geosciences</i> 17, no. 1 (2024): 15.		
112	Qureshi, Tayyab A., Tanveer A. Gadhi, Danish A. Khokhar, Imran Ali, Najma Memon, Najeebullah Channa, Sikandar Bakhat, Tahir Rafique, and Rasool Bux Mahar. "Insight on the Properties of Pumice Mineral for the Combined Adsorption Distillation of Membrane Reject Water." <i>Minerals</i> 13, no. 9 (2023): 1131. <a href="https://doi.org/10.3390/min13091131">https://doi.org/10.3390/min13091131</a>	2.5	3.9
111	Bakhtiar Ali Samejo, Kainat Sheikh, Suraya Samejo, Farooque Ahmed Janjhi, Najma Memon, Roberto Castro-Muñoz, Grzegorz Boczkaj, MXene-based composites for capacitive deionization – The advantages, progress, and their role in desalination - A review, <i>Water Resources and Industry</i> , 2023, 100230, <a href="https://doi.org/10.1016/j.wri.2023.100230">https://doi.org/10.1016/j.wri.2023.100230</a> .	5.1	8.0
110	Samejo, Bakhtiar Ali, Naveed Qasim Abro, Najma Memon, Sandeep Poddar, and Ahsan Habib. "Waste-derived stable carbon electrodes for capacitive deionization using poly (vinyl alcohol)-glutaraldehyde as binder." <i>Biomass Conversion and Biorefinery</i> (2023): 1-14. <a href="https://doi.org/10.1007/s13399-023-04982-4">https://doi.org/10.1007/s13399-023-04982-4</a>	4.0	6.6
109	Mallah, Shahbaz Ali, Huma Shaikh, Najma Memon, and Sehrish Qazi. "Fabrication of 1-octane sulphonic acid modified nanoporous graphene with tuned hydrophilicity for decontamination of industrial wastewater from organic and inorganic contaminants." <i>RSC Advances</i> 13, no. 32 (2023): 21926-21944.	3.9	5.9
108	Fayyaz Hussain, Najma Memon, and Zeeshan Khatri, Facile process for development of antiviral cotton fabric with nano-embossed copper oxide, <i>ACS Omega</i> , 2023. <a href="https://doi.org/10.1021/acsomega.3c00492">https://doi.org/10.1021/acsomega.3c00492</a>	4.132	5.2

107	Imran Khan Rind, Mustafa Tuzen, Ahmet Sari, Muhammad Farooque Lanjwani, Najma Memon, Tawfik A Saleh, "Synthesis of TiO <sub>2</sub> nanoparticles loaded on magnetite nanoparticles modified kaolinite clay (KC) and their efficiency for As (III) adsorption" Chemical Engineering Research and Design, 2023. <a href="https://doi.org/10.1016/j.cherd.2023.01.046">https://doi.org/10.1016/j.cherd.2023.01.046</a>	4.119	7.1
106	Nahyoon, Noor Ahmed, Mujahid Mehdi, Khalid Hussain Thebo, Nasrullah Mahar, Ayaz Ali Memon, Najma Memon, and Nadir Hussain. "Synthesis of novel visible light driven MgO@ GO nanocomposite photocatalyst for degradation of Rhodamine 6G." Optical Materials 135 (2023): 113260. <a href="https://doi.org/10.1016/j.optmat.2022.113260">https://doi.org/10.1016/j.optmat.2022.113260</a>	3.06	5.2
105	Bakhtiar Ali Samejo, Naveed Qasim Abroa, Najma Memona, Nusrat Jahan Upomab and Ahsan Habib, "Chicken feather-derived carbon electrodes for capacitive deionization using poly(vinyl alcohol)-glutaraldehyde as the binder", Journal of Water Reuse, 2023. <a href="https://doi.org/10.2166/wrd.2023.079">https://doi.org/10.2166/wrd.2023.079</a>	3.050	5.0
104	Fayyaz Salih Hussain, Naveed Qasim Abro, Naseer Ahmed, Saima Q. Memon and Najma Memon, "Nano-antivirals: A Comprehensive Review", Frontiers in Materials, 2022. Volume 4 - 2022   <a href="https://doi.org/10.3389/fnano.2022.1064615">https://doi.org/10.3389/fnano.2022.1064615</a>	3.985	3.7
103	Rizwan Hayder, Muhammad Hafeez , Pervaiz Ahmad, Najma Memon, Mayeen, U Khandaker, Zainab Mufarreh Elqahtani, M S Al-Buriah, Zakaria M.M. Mahmoud, Muhammad Naem Ahmed, "Heavy Metal Estimation and Quality Assurance Parameters for Water Resources In The Northern Region of Pakistan", Water, 2023 <a href="https://doi.org/10.3390/w15010077">https://doi.org/10.3390/w15010077</a>	3.103	-
102	Nilgün Yenil, Fadim Yemiş, İsrail Sabikoglu, Najma Memon, and Ali Güler. "Comparative Analyses of Few West Turkish Varieties of Pomegranate (Punica Granatum L.) Peels for Phenolic Content Using Liquid Chromatography." Polycyclic Aromatic Compounds (2022): 1-17. <a href="https://doi.org/10.1080/10406638.2022.2080727">https://doi.org/10.1080/10406638.2022.2080727</a>	3.744	2.5
101	Imran Khan Rind, Najma Memon, Muhammad Yar Khuhawar, Waheed Ali Soomro, Muhammad Farooque Lanjwani, Modeling of cadmium(II) removal in a fixed bed column utilizing hydrochar-derived activated carbon obtained from discarded mango peels, Scientific Report, 12, 8001 (2022). <a href="https://doi.org/10.1038/s41598-022-11574-1">https://doi.org/10.1038/s41598-022-11574-1</a>	4.379	6.9
100	Abro, Naveed Qasim, Najma Memon, Bakhtiar Ali Samejo, Masood Rehman Halepoto, and Ayaz Ali Hakro. "Characterization and capacitive performance assessment of potato peels derived salt-induced porous carbons." Biomass Conversion and Biorefinery (2022): 1-9. <a href="https://doi.org/10.1007/s13399-022-02579-x">https://doi.org/10.1007/s13399-022-02579-x</a>	4.987	3.6
99	Laghari, S. H., Memon, N., Yar Khuhawar, M., & Jahangir, T. M. (2022). Fluorescent Carbon Dots and their Applications in Sensing of Small Organic Molecules. Current Analytical Chemistry, 18(2), 145-162. <a href="https://doi.org/10.2174/1573411017999210120180236">https://doi.org/10.2174/1573411017999210120180236</a>	1.365	3.1
98	Safia Sanam Memon, Najma Memon, Shahabuddin Memon and Abdessadek Lachgar, "An Excellent Sulfonated Hydrothermal Carbon Catalyst from Mangifera Indica L. (Mango Peels) for Biodiesel Production: Preparation, Characterization, Optimization and Kinetic Study", Biomass Conversion and Biorefinery 12 (2022), 144. <a href="https://doi.org/10.1007/s13399-021-01535-5">https://doi.org/10.1007/s13399-021-01535-5</a>	4.987	3.6
97	Chang, F., Memon, N., Memon, S., & Chang, A. S. (2022). Selective adsorption of emerging contaminants from aqueous solution using Cu-based composite by solvothermal. International Journal of Environmental Science and Technology, 1-8. <a href="https://doi.org/10.1007/s13762-021-03882-2">https://doi.org/10.1007/s13762-021-03882-2</a>	2.86	5.6
96	Samejo, Bakhtiar, Shagufta Gul, Suraya Samejo, Naveed Qasim Abro, & Najma Memon. "Carbon Based Electrode Materials and their Architectures for Capacitive Deionization." Pakistan Journal of Analytical & Environmental Chemistry [Online], 22.2 (2021): 210-242. Web. 24 Dec. 2021.	0.00	0.9
95	Chang, Fouzia, Najma Memon, Shahabuddin Memon, Ayaz Ali Memon, Saddam Hussain Bughio, Muhammad Nawaz Tahir, and Abdul Sattar Chang. "Self-Assembled Synthesis and Characterization of Novel [Co (1-vinylimidazole) 6]. NO <sub>3</sub> Polymer: Highly Efficient Antimicrobial Agent." Journal of The Chemical Society of Pakistan 43, no. 6 (2021): 706.	0.51	
94	Memon, Najma, Urooj Kanwal, Abdullah Memon, Safia Sanam Memon, and Saima	2.506	

	Qayoom Memon. "Synthesis, Characterization, and Application of Co-Al-Zn Layered Double Hydroxide/Hydrochar Composite for Simultaneous Removal of Cationic and Anionic Dyes." <i>Journal of Chemistry</i> <b>2021</b> (2021). <a href="https://doi.org/10.1155/2021/1138493">https://doi.org/10.1155/2021/1138493</a>		
93	Maheshwari, M. L., N. Memon, A. A. Memon, M. Y. Khuhawer, and A. H. Memon. "Validated RP-HPLC Method Development for Gentamicin Microanalysis in Pharmaceutical Dosage Forms, Urine and Blood." <i>Pharmaceutical Chemistry Journal</i> 55, no. 5 (2021): 524-530.	0.837	
92	Minhas, M. A., Rauf, A., Rauf, S., Minhas, F. T., Memon, N., Jabbar, A., ... & Malik, M. I. (May 2021). Selective and efficient extraction of cationic dyes from industrial effluents through polymer inclusion membrane. <i>Separation and Purification Technology</i> , 272, 118883. <a href="https://doi.org/10.1016/j.seppur.2021.118883">https://doi.org/10.1016/j.seppur.2021.118883</a>	7.321	
91	Chang, F., Memon, N., Memon, S. et al. Removal of emerging contaminants from water by using Fe-MOF composite as a sorbent. <i>J IRAN CHEM SOC</i> 18, 3249–3255 (2021). <a href="https://doi.org/10.1007/s13738-021-02264-2">https://doi.org/10.1007/s13738-021-02264-2</a>	1.552	
90	I. K. Rind, N. Memon, M. Y. Khuhawar, M. F. Lanjwani, "Thermally Activated Mango Peels Hydrochar for Fixed-Bed Continuous Flow Decontamination of Pb (II) ions from Aqueous Solution", <i>International Journal of Environmental Science and Technology</i> (2021), <a href="https://doi.org/10.1007/s13762-021-03272-8">https://doi.org/10.1007/s13762-021-03272-8</a>	2.45	
89	MOF-5 embedded cryogel composite for extraction of cholesterol from milk samples prior to UV-Vis determination, <i>European Journal of Chemistry</i> , <b>2021</b> , Vol 12(1), 45-51	0.00	
88	Fouzia Chang, Najma Memon, Shahabuddin Memon, Muhammad Naeem Ahmed, Muhammad Nawaz Tahir, Abdul Sattar Chang, Muhammad Hassan Agheem, "Synthesis, Crystal Structure and Antimicrobial Activity of Poly [bis- $\mu$ -3,5-dinitro-2-oxidobenzoato) (py) Cu II]", <i>Journal Chemical Society of Pakistan</i> , Vol. 42(6) 928-933, <b>2021</b> .	0.3	
	Jamali, A. A., Solangi, A. R., Memon, N., Nizamani, S. M., Khaskheli, A. A., Hussain, M., ... & Akhtar, M. S. (2021). Abiotic Degradation of Imidacloprid Pesticide with L-Threonine Capped Nickel Nanoparticles. <i>Science of Advanced Materials</i> , 13(10), 2043-2048. <a href="https://doi.org/10.1166/sam.2021.4150">https://doi.org/10.1166/sam.2021.4150</a>	1.47	
87	Maheshwari, Madan Lal, Najma Memon, Ayaz Ali Memon, Muhammad Yar Khuhawar, and Abdul Hakeem Memon. "A rapid HPLC–DAD method for quantification of amikacin in pharmaceuticals and biological samples using pre-column derivatization with Hantzsch reagent." <i>Journal of the Iranian Chemical Society</i> 18, no. 3 (2021): 611-620. <a href="https://doi.org/10.1007/s13738-020-02046-2">https://doi.org/10.1007/s13738-020-02046-2</a>	1.552	
86	Fayyaz Salih Hussain, Najma Memon, Zeeshan Khatri and Saima Memon, "Solid waste-derived biodegradable keratin sponges for removal of chromium: A circular approach for waste management in leather industry", <i>Environmental Technology &amp; Innovation</i> , Vol.20, <b>2020</b> . <a href="https://doi.org/10.1016/j.eti.2020.101120">https://doi.org/10.1016/j.eti.2020.101120</a>	3.356	
85	Sahrish Khatri, Najma Memon, Zeeshan Khatri, Farooq Ahmed, "TLC-based enantiomeric separation of amino acids onto $\beta$ -CD-incorporated glutaraldehyde-crosslinked PVA electrospun fiber stationary phase" <i>Acta Chromatographica</i> 2020. <a href="https://doi.org/10.1556/1326.2019.00685">https://doi.org/10.1556/1326.2019.00685</a>	1.4	
84	Tahir Mehmood, Anum Afzal, Farooq Anwar, Najma Memon, Ayaz A Memon, Rahman Qadir, "Variation in phenolic acids and antibacterial attributes of peel extracts from ripe and unripe [Citrus limon (L.) Osbeck] fruit", <i>Journal of Food Measurement and Characterization</i> , <b>2020</b> . <a href="https://doi.org/10.1007/s11694-020-00380">https://doi.org/10.1007/s11694-020-00380</a>	1.415	
83	Safia Sanam Memon, Najma Memon, Shahabuddin Memon, Abdesaddek Lachgar and Abdullah Memon, "Batch to batch variation study for biodiesel production by hydrothermal carbon catalyst: Preparation, characterization and its application", <i>Materials Research Express</i> (2020) <a href="https://doi.org/10.1088/2053-1591/ab692b">https://doi.org/10.1088/2053-1591/ab692b</a>	1.449	
82	Ayaz Ali Memon, Inamullah Mahar, Roomia Memon, Sanam Soomro, James Harnly, Najma Memon, Muhammad Iqbal Bhangar, Devanand L Luthria, "Impact of flour particle size on nutrient and phenolic acid composition of commercial wheat varieties", <i>Journal of Food Composition and Analysis</i> (2020). <a href="https://doi.org/10.1016/j.jfca.2019.103358">https://doi.org/10.1016/j.jfca.2019.103358</a>	2.994	
81	Fozia K Soomro, Saima Q Memon, Najma Memon, MY Khuhawar, "A new Schiff's base polymer for remediation of phenol, 2-chlorophenol and 2, 4-dichlorophenol from contaminated aqueous systems", <i>Polymer Bulletin</i> ( June <b>2019</b> )	1.858	
80	Sana Rahim, Adnan Murad Bhayo, Ghayas Uddin Siddiqui, Aneela Maalik, Najma Memon, Muhammad Raza Shah and Muhammad Imran Malik, "The selectivity of poly(2-vinylpyridine- <i>block</i> -methyl methacrylate) copolymer films: an AFM study", <i>RSC</i>	2.936	

	Advances 29 (2019)		
79	Shahneela Almani, Farah Naz Talpur, Najma Memon, Hassan Imran Afridi, "Selenium Contents in Different Types of Raw and Processed Meat Products, Consumed Among the General Population of Pakistan", <i>Biological Trace Elements Research</i> (2019)	2.361	
78	Tahira Qureshia, Najma Memon, Saima Q. Memon, Handan Yavuzc , Abdesadek Lachgar and Adil Denizli, "Evaluation of hydrochar efficiency for simultaneous removal of diclofenac and ibuprofen from aqueous system using surface response methodology, <i>Environmental Science and Pollution Research</i> 26 (2019) 9805-9805	2.8	
77	Najma Memon, Tahira Qureshi, Muhammad Iqbal Bhangar, and Muhammad Imran Malik, "Recent Trends in Fast Liquid Chromatography for Pharmaceutical Analysis." <i>Current Analytical Chemistry</i> 15 (2019): 349-372.	1.274	
76	Almas F. Memon, Amber R. Solangi, Saima Q. Memon, Arfana Mallah, and Najma Memon. "Quantitative Separation of Hesperidin, Chrysin, Epicatechin, Epigallocatechin Gallate, and Morin Using Ionic Liquid as a Buffer Additive in Capillary Electrophoresis." <i>ELECTROPHORESIS</i> 39, no. 13 (2018): 1606-12.	3.028	
75	Farooq Ahmed, Alvira Ayoub Arbab, Abdul Wahab Jatoi, Muzamil Khatri, Najma Memon, Zeeshan Khatri, and Ick Soo Kim. "Ultrasonic-Assisted Deacetylation of Cellulose Acetate Nanofibers: A Rapid Method to Produce Cellulose Nanofibers." <i>Ultrasonics Sonochemistry</i> 36, no. Supplement C (2017/05/01/ 2017): 319-25.	4.566	
74	Ruqaya Shaikh, Najma Memon, Amber R Solangi, Huma I Shaikh, Muhammad Hassan Agheem, Syed Abid Ali, Muhammad Raza Shah, and Aftab Kandhro. "2, 3-Pyridine Dicarboxylic Acid Functionalized Gold Nanoparticles: Insight into Experimental Conditions for Cr <sup>3+</sup> Sensing." <i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i> 173 (2017): 241-50.	2.098	
73	Almas F Memon, Amber R Solangi, Saima Q Memon, Arfana Mallah, Najma Memon, and Ayaz A Memon. "Simultaneous Determination of Quercetin, Rutin, Naringin, and Naringenin in Different Fruits by Capillary Zone Electrophoresis." <i>Food Analytical Methods</i> 10, no. 1 (2017): 83-91.	2.167	
72	Sanam Iram Soomro, Najma Memon, Muhammad Iqbal Bhangar, Shahabuddin Memon, and Ayaz A Memon. "Mineral Content of Pakistani Foods: An Update of Food Composition Database of Pakistan through Indirect Method." <i>Journal of Food Composition and Analysis</i> 51 (2016): 45-54.	2.780	
71	Tahira Qureshi, Najma Memon, Saima Q Memon, and Muhammad Aqeel Ashraf. "Decontamination of Ofloxacin: Optimization of Removal Process onto Sawdust Using Response Surface Methodology." <i>Desalination and Water Treatment</i> 57, no. 1 (2016): 221-29.	1.272	
70	Sajida Parveen, Saima Q Memon, Ali N Siyal, Najma Memon, and Muhammad Y Khuhawar. "Large-Volume Sample Staking of Rice Polyphenols Prior to Their Determination by Non-Aqueous Capillary Electrophoresis." <i>Food Analytical Methods</i> (2016): 1-9.	2.167	
69	CHANG Fouzia, MEMON Najma, AHMED Muhammad Naeem, TAHIR Muhammad Nawaz, MEMON Shahabuddin, CHANG Abdul Sattar, BHANGER Muhammad Iqbal,, and CHANDIO Anwer. "Synthesis, Crystal Structure and Antimicrobial Activity of {[Bis(Pyridine-N)Bis(3,5-Dinitrosalicylate -O,O')Zn(II)]}[Bis(Pyridine-N)Zn(II)]." <i>CHINESE JOURNAL OF STRUCTURAL CHEMISTRY</i> 35, no. 5 (2016): 705-12.	0.538	
68	Rabel Soomro, Najma Memon, M. Iqbal Bhangar, and Adil Denizli. "Horseradish Peroxidase Immobilized into Organogel-Silica Composite for Transformation of Chlorophenols to Biodegradable Organic Acids." <i>Haceteppe Journal of Biology and Chemistry</i> 44, no. 3 (2016): 351-64.	0.00	
67	Razium Ali Soomro, and Ayman Nafady. "Catalytic Reductive Degradation of Methyl Orange Using Air Resilient Copper Nanostructures." <i>Journal of Nanomaterials</i> 2015 (2015): 120.	1.578	
66	Rabel Soomro, Işık Perçin, Najma Memon, Muhammad Iqbal Bhangar, and Adil Denizli. "Gelatin-Loaded P (Hema-Gma) Cryogel for High-Capacity Immobilization of Horseradish Peroxidase." <i>Artificial cells, nanomedicine, and biotechnology</i> (2015): 1-6	1.015	
65	Huma Shaikh, Gulsu Sener, Najma Memon, Muhammad Iqbal Bhangar, Shafi Muhammad Nizamani, Recep Üzek, and Adil Denizli. "Molecularly Imprinted Surface Plasmon Resonance (Spr) Based Sensing of Bisphenol a for Its Selective Detection in Aqueous Systems." <i>Analytical Methods</i> 7, no. 11 (2015): 4661-70.	1.821	
64	Huma Shaikh, Müge Andaç, Najma Memon, Muhammad Iqbal Bhangar, Shafi Muhammad Nizamani, and Adil Denizli. "Synthesis and Characterization of Molecularly Imprinted Polymer Embedded Composite Cryogel Discs: Application for the Selective	3.289	

	Extraction of Cypermethrins from Aqueous Samples Prior to Gc-Ms Analysis." <i>RSC Advances</i> 5, no. 34 (2015): 26604-15.		
63	Sajida Parveen, Ali Nawaz Siyal, Najma Memon, Saima Qayoom Memon, and Muhammad Yar Khuhawar. "Extraction and Determination of Phenolic Acids and Vitamin B of Sieved and Unsieved Wheat Grain by Mekk." <i>Journal of Liquid Chromatography &amp; Related Technologies</i> 38, no. 1 (2015): 143-52.	0.606	
62	Sibghatullah Memon, Najma Memon, and Shahabuddin Memon. "Removal of Carbofuran and Methylparathion from Aqueous Media through Calix [4] Arene-Based Impregnated Resin." <i>Desalination and Water Treatment</i> 54, no. 3 (2015): 802-12.	1.272	
61	Almas F Memon, Amber R Solangi, Saima Q Memon, Arfana Mallah, and Najma Memon. "A Mekk Method for Naringenin from Natural and Biological Samples." <i>Analytical Methods</i> 7, no. 11 (2015): 4521-27.	1.821	
60	Razium Ali Soomro, ST Hussain Sherazi, N Memon, MR Shah, NH Kalwar, Keith Richard Hallam, and Afzal Shah. "Synthesis of Air Stable Copper Nanoparticles and Their Use in Catalysis." <i>Advanced Materials Letters</i> 5, no. 4 (2014): 191-98.	0.00	
59	Razium A Soomro, Ayman Nafady, Najma Memon, Tufail H Sherazi, and Nazar H Kalwar. "L-Cysteine Protected Copper Nanoparticles as Colorimetric Sensor for Mercuric Ions." <i>Talanta</i> 130 (2014): 415-22.	3.545	
58	Huma Shaikh, Najma Memon, MI Bhangar, SM Nizamani, and Adil Denizli. "Core-Shell Molecularly Imprinted Polymer-Based Solid-Phase Microextraction Fiber for Ultra Trace Analysis of Endosulfan I and II in Real Aqueous Matrix through Gas Chromatography-Micro Electron Capture Detector." <i>Journal of Chromatography A</i> 1337 (2014): 179-87.	4.169	
57	Najma Memon, and Paraskevas D. Tzanavaras. "Utilization of Organized Surfactant Assemblies as Solvents in Flow Injection Analysis with Emphasis to Automated Derivatization of Organic Analytes." <i>Current Analytical Chemistry</i> 10, no. 3 (2014): 338-48.	1.558	
56	Asif Ali Bhatti, Shahabuddin Memon, and Najma Memon. "Synthesis and Dichromate Extraction Study of Calix [4] Arene Derivative." <i>Polycyclic Aromatic Compounds</i> 34, no. 2 (2014): 103-14.	1.15	
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54	Kamran Abro, Najma Memon, MI Bhangar, Suhail Abro, Shahnaz Perveen, and AH Laghari. "Determination of Vitamins E, D3, and K1 in Plasma by Liquid Chromatography-Atmospheric Pressure Chemical Ionization-Mass Spectrometry Utilizing a Monolithic Column." <i>Analytical Letters</i> 47, no. 1 (2014): 14-24.	0.965	
53	Shahabuddin Memon, Sibghatullah Memon, and Najma Memon. "An Efficient P-Tetranitrocalix [4] Arene Based Adsorbent for the Removal of Carbofuran from Aqueous Media." <i>Journal of the Iranian Chemical Society</i> 11, no. 6 (2014): 1599-608.	1.593	
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51	Saima Q. Memon, Najma Memon, Arfana Mallah, Rubina Soomro, and M. Y. Khuhawar. "Schiff Bases as Chelating Reagents for Metal Ions Analysis." <i>Current Analytical Chemistry</i> 10, no. 3 (2014): 393-417.	1.558	
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47	Rabel Soomro, Najma Memon, and Muhammad Iqbal Bhangar. "Microemulsion Based Organogel-Silica Composite as Feasible Matrix for Immobilization of Horseradish Peroxidase: Application to Oxidative Removal of Phenol from Aqueous System." <i>Journal of the Chemical Society of Pakistan</i> 35, no. 3 (2013): 939-47.	0.00	



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43	Ayaz Ali Memon, Najma Memon, Muhammad Iqbal Bhangar, and Devanand L Luthria. "Assay of Phenolic Compounds from Four Species of Ber ( <i>Ziziphus Mauritiana</i> L.) Fruits: Comparison of Three Base Hydrolysis Procedure for Quantification of Total Phenolic Acids." <i>Food chemistry</i> 139, no. 1 (2013): 496-502.	3.334	
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38	Ayaz Memon, Najma Memon, Devanand Luthria, Amanat Pitafi, and Muhammad Bhangar. "Phenolic Compounds and Seed Oil Composition of <i>Ziziphus Mauritiana</i> L. Fruit." <i>Polish Journal of Food and Nutrition Sciences</i> 62, no. 1 (2012): 15-21.		
37	Arfana Mallah, Saima Q Memon, Amber R Solangi, Najma Memon, Kulsoom Abbassi, and Muhammad Yar Khuahwar. "A Novel Micellar Electrokinetic Chromatographic Method for Separation of Metal-Ddct Complexes." <i>The Scientific World Journal</i> 2012 (2012).	0.00	
36	Asif Ali Bhatti, Imdadullah Qureshi, Najma Memon, and Shahabuddin Memon. "Evaluation of Perchlorate Sorption Behavior of Calix [4] Arene Appended Resin." <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> (2012): 1-6.	1.399	
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34	Sarfraz Arain, Najma Memon, Muhammad T Rajput, Syed TH Sherazi, Muhammad I Bhangar, and Sarfaraz A Mahesar. "Physico-Chemical Characteristics of Oil and Seed Residues of <i>Bauhinia Variegata</i> and <i>Bauhinia Linnaei</i> ." <i>Pak J Anal Environ Chem</i> 13, no. 1 (2012): 16-21.	0.00	
33	Kamran Abro, Najma Memon, MI Bhangar, Shahnaz Perveen, and Aijaz Panhwar. "Comparative Study of Electrospray and Atmospheric Pressure Chemical Ionization with Liquid Chromatography–Mass Spectrometry for Quantification of Five Antihyperglycemic Agents Utilizing Monolithic Column." <i>Analytical Letters</i> 45, no. 14 (2012): 1947-59.	0.965	
32	Kamran Abro, Najma Memon, MI Bhangar, Shahnaz Perveen, and Aftab Kandhro. "Multi-Component Quantitation of Loratadine, Pseudoephedrine and Paracetamol in Plasma and Pharmaceutical Formulations with Liquid Chromatography-Tandem Mass Spectrometry Utilizing a Monolithic Column." <i>Quim. Nova</i> 35, no. 10 (2012): 1950-54.	0.737	
31	Zulfiqar A Tagar, MN Sirajuddin, MC Kalhoro, Nazar H Kalwar, Yasmeen Junejo, and S Sara Hassan. "Facile Synthesis, Characterization and Catalytic Function of Gelatin Stabilized Gold Nanoparticles." <i>Pak J Anal Environ Chem</i> 13, no. 1 (2012): 70-77.	0.00	
30	Zulfiqar A Tagar, Najma Memon, Muhammad S Kalhoro, Paul O'Brien, Mohammad A Malik, Mohammad I Abro, Syeda S Hassan, Nazar H Kalwar, and Yasmeen Junejo. "Highly Sensitive, Selective and Stable Multi Metal Ions Sensor Based on Ibuprofen Capped Mercury Nanoparticles." <i>Sensors and Actuators B: Chemical</i> 173 (2012): 745–51.	3.535	
29	R Soomro, SQ Memon, MJ Ahmed, N Memon, and A Mallah. "Bis (Salicylaldehyde)	0.644	

	Orthophenylenediamine as Complexing Reagent in Simultaneous Determination of Gold, Chromium, Iron, Uranyl, and Nickel Using Capillary Zone Electrophoresis." <i>Acta Chromatographica</i> 24, no. 4 (2012): 543-58.		
28	Huma Shaikh, Najma Memon, Hamayun Khan, MI Bhangar, and SM Nizamani. "Preparation and Characterization of Molecularly Imprinted Polymer for Di (2-Ethylhexyl) Phthalate: Application to Sample Clean-up Prior to Gas Chromatographic Determination." <i>Journal of Chromatography A</i> 1247 (2012): 125-33.	4.612	
27	Umair A Qureshi, Amber R Solangi, Saima Q Memon, Syed IH Taqvi, and Najma Memon. "Ionic Liquid Modified Resin for the Adsorptive Removal of Dibutyl Phthalate: Equilibrium, Kinetic, and Thermodynamic Studies." <i>CLEAN-Soil, Air, Water</i> 40 (2012): 630-39.	2.046	
26	Najma Memon, Huma I Shaikh, and Amber R Solangi. "Selectivity of Brij-35 in Micellar Liquid Chromatographic Separation of Positional Isomers." <i>Chromatography Research International</i> 2012 (2012).	0.00	
25	Fakhar N Memon, Shahabuddin Memon, Sibghatullah Memon, and Najma Memon. "Synthesis and Application of a New Calix [4] Arene Based Impregnated Resin for the Removal of Endosulfan from an Aqueous Environment." <i>Journal of Chemical &amp; Engineering Data</i> 56, no. 8 (2011): 3336-45.	2.004	
24	K Abro, N Memon, MI Bhangar, S Perveen, and R Jafri. "Hplc Determination of Betamethasone and Prednisolone in Urine Samples Using Monolithic Column." <i>Pakistan Journal of Scientific and Industrial Research. Series A. Physical Sciences (Print)</i> 54, no. 2 (2011): 103-07.	0.00	
23	Kamran Abro, Najma Memon, MI Bhangar, SA Mahesar, and Shahnaz Perveen. "Liquid Chromatographic Determination of Pioglitazone in Pharmaceuticals, Serum and Urine Samples." <i>Pak. J. Anal. Environ. Chem. Vol</i> 12, no. 1&2 (2011).	0.00	
22	Zulfiqar A Tagar, Najma Memon, Muhammad H Agheem, Yasmeen Junejo, Syeda S Hassan, Nazar H Kalwar, and Manzoor I Khattak. "Selective, Simple and Economical Lead Sensor Based on Ibuprofen Derived Silver Nanoparticles." <i>Sensors and Actuators B: Chemical</i> 157, no. 2 (2011): 430-37.	3.535	
21	Rubina Soomro, M Jamaluddin Ahmed, and Najma Memon. "Simple and Rapid Spectrophotometric Determination of Trace Level Chromium Using Bis (Salicylaldehyde) Orthophenylenediamine in Nonionic Micellar Media." <i>Turkish Journal of Chemistry</i> 35, no. 1 (2011): 155-70.	0.888	
20	AMBER REHANA Solangi, Saima Qayyum Memon, ARFANA Mallah, Najma Memon, Muhammad Yar Khuhawar, and MUHAMMAD IQBAL Bhangar. "Development and Implication of a Capillary Electrophoresis Methodology for Ciprofloxacin, Paracetamol and Diclofenac Sodium in Pharmaceutical Formulations and Simultaneously in Human Urine Samples." <i>Pak. J. Pharm. Sci</i> 24, no. 4 (2011): 539-44.	0.947	
19	Sibghatullah Memon, Najma Memon, Shahabuddin Memon, and Yawar Latif. "An Efficient Calix [4] Arene Based Silica Sorbent for the Removal of Endosulfan from Water." <i>Journal of hazardous materials</i> 186, no. 2 (2011): 1696-703.	3.925	
18	Rubina Soomro, Saima Q Memon, MJ Ahmad, and Najma Memon. "Utilization of Bis (Salicylaldehyde) Orthophenylenediamine for the Separation of Gold and Chromium by Capillary Zone Electrophoresis." <i>Pak. J. Anal. Environmen. Chem</i> 11, no. 2 (2010): 30-37.	0.00	
17	Amber Solangi, Saima Memon, Arfana Mallah, Najma Memon, Muhammad Yar Khuhawar, and Muhammad Iqbal Bhangar. "Determination of Ceftriaxone, Ceftizoxime, Paracetamol, and Diclofenac Sodium by Capillary Zone Electrophoresis in Pharmaceutical Formulations and in Human Blood Serum." <i>Turkish Journal of Chemistry</i> 34, no. 6 (2010): 921-33.	0.888	
16	Ayaz A Memon, Najma Memon, Devanand L Luthria, Muhammad Iqbal Bhangar, and Amanat Ali Pitafi. "Phenolic Acids Profiling and Antioxidant Potential of Mulberry ( <i>Morus Laevigata</i> W., <i>Morus Nigra</i> L., <i>Morus Alba</i> L.) Leaves and Fruits Grown in Pakistan." <i>Polish Journal of Food and Nutrition Sciences</i> 60, no. 1 (2010).	0.00	
15	Ayaz A Memon, Najma Memon, and Muhammad I Bhangar. "Micelle-Mediated Extraction of Chlorogenic Acid from <i>Morus Laevigata</i> W. Leaves." <i>Separation and Purification Technology</i> 76, no. 2 (2010): 179-83.	2.984	
14	Sarfraz Arain, Syed TH Sherazi, Muhammad I Bhangar, Sarfaraz A Mahesar, and Najma Memon. "Physiochemical Characterization of Bauhinia Purpurea Seed Oil and Meal for Nutritional Exploration." <i>Polish Journal of Food and Nutrition Sciences</i> 60, no. 4 (2010).	0.00	
13	Rubina Soomro, M Jamaluddin Ahmed, Najma Memon, and Humaira Khan. "A Simple and Selective Spectrophotometric Method for the Determination of Trace Gold in Real,	0.00	

	Environmental, Biological, Geological and Soil Samples Using Bis (Salicylaldehyde) Orthophenylenediamine." <i>Analytical chemistry insights</i> 3 (2008): 75.		
12	Imam Bakhsh Solangi, Shahabuddin Memon, Najma Memon, and MI Bhangar. "Exploration of Pb <sup>2+</sup> Selective Behavior of Calix [6] Arene Ester Derivative." <i>Journal of Macromolecular Science, Part A</i> 45, no. 12 (2008): 1003-08.	0.807	
11	Saima Q Memon, Najma Memon, and Amber R Solangi. "Sawdust: A Green and Economical Sorbent for Thallium Removal." <i>Chemical Engineering Journal</i> 140, no. 1 (2008): 235-40.	3.473	
10	Aamna Balouch, Najma Memon, Muhammad I Bhangar, and Muhammad Y Khuhawar. "Utilization of Picolinaldehyde-4-Phenyl-3-Thiosemicarbazone in Sodium Dodecylsulfate Micelles for the Spectrophotometric Determination of Iron, Vanadium, and Cobalt Following Partial Least-Squares Regression Analysis." <i>Journal of AOAC International</i> 92, no. 1 (2008): 248-56.	1.233	
9	Saima Q Memon, Najma Memon, SW Shah, MY Khuhawar, and MI Bhangar. "Sawdust— a Green and Economical Sorbent for the Removal of Cadmium (II) Ions." <i>Journal of hazardous materials</i> 139, no. 1 (2007): 116-21.	3.925	
8	Najma Memon. "Study on the Character of Interactions between Metal-Pyridylazo Resorcinol Complexes and Cationic Surfactants by Spectrophotometry and Liquid Chromatography." <i>Analytical Chemistry: An Indian Journal</i> 3, no. 4-6 (2007).	0.00	
7	Saima Q Memon, Najma Memon, MI Bhangar, and MY Khuhawar. "Enrichment of Indium from Aqueous Solution Using Functionalized Sorbent." <i>INDIAN JOURNAL OF CHEMISTRY SECTION A</i> 44, no. 6 (2005): 1197.	0.787	
6	Najma Memon, M Iqbal Bhangar, and MY Khuhawar. "Determination of Preservatives in Cosmetics and Food Samples by Micellar Liquid Chromatography." <i>Journal of Separation Science</i> 28, no. 7 (2005): 635-38.	2.591	
5	N Memon, MI Bhangar, and MJ Ahmed. "Micellar Flow Injection Spectrophotometric Determination of Indium and Its Application to the Environmental Samples." <i>Pakistan Journal of Analytical Chemistry</i> 6, no. 1 (2005): 16-21.	0.00	
4	N Memon, MI Bhangar, MA Memon, and MH Memon. "Flow Injection Spectrophotometric Determination of Alpha-Tocopherol in Microemulsion Reaction Medium Using Fe (III)-1, 10 Phenanthroline as an Oxidant." <i>ACGC Chemical Research Communications</i> (2004): 52-59.	0.00	
3	N Memon, and MI Bhangar. "Micellar Liquid Chromatographic Determination of Aluminum as Its Complex with 8-Hydroxyquinoline-5-Sulfonic Acid." <i>Acta Chromatographica</i> 14 (2004): 172-79.	0.644	
2	N Memon, M. A Memon, M.I. Bhnager, and M.H. Memon. "Flow Injection Spectrophotometric Determination of Ascorbic Acid Using Iron(III)- Bathophenanthroline Disulfonic Acid Disodium Salt." <i>The Nucleus</i> 40 (2003): 115-16.	0.00	
1	N Memon, MI Bhangar, and MA Memon. "Flow Injection Spectrophotometric Determination of Ascorbic Acid with 2, 2'-Bipyridine in Anionic Surfactant Micellar Medium." <i>Pakistan Journal of Analytical Chemistry</i> 4, no. 2 (2003): 152-56.	0.00	

#### AWARDS AND CERTIFICATES

Research Productivity Award-D category (2013) by Pakistan Council of Science and Technology

INFOODS Success story Award-2015 by Food and Agriculture Organization of United Nations, .

"Mohtarma Fatima Jinnah & Shaheed Benazir Bhutto Award" 15 February 2019 by Sindh Commission on Status of Women, Pakistan

"Certificate for Meritorious Researcher", University of Sindh, Jamshoro, 08 March 2019

#### COURSES TAUGHT

Course	Level	Experience	Institute
Separation Techniques	M.Phil	10 years	NCE in Analytical Chemistry, Pakistan
Advances Chromatographic	Ph.D.	5 years	NCE in Analytical Chemistry,

Techniques			Pakistan
Molecular Spectroscopy	M.Phil.	12 years	NCE in Analytical Chemistry, Pakistan
Food Analytical Techniques	Ph.D.	3 years	NCE in Analytical Chemistry, Pakistan
Environmental Chemistry	M.Phil.	One semester	NCE in Analytical Chemistry, Pakistan
Chemistry for Nurses	Undergrad	3 year	College of Nursing, Jamshoro, Pakistan
Organic Chem. Lab (Summer program)	Undergrad	One semester	Wake Forest University, NC-USA
Forensic Analytical Chemistry	Ph.D.	Two semesters	NCE in Analytical Chemistry, Pakistan

## RESEARCH GRANTS

Tanveer Hussain, Rasool Bu Mahar and Najma Memon, "Development and Upscaling of Combined Adsorption Distillation Technique for Saline-Water Treatment and Fresh Water Production on Industrial-Scale (CAD-WATER)" **TTFG- Higher Education Commission of Pakistan** 13.5 million) 2021-two years

Najma Memon, "Development of Sustainable and Scalable Antiviral Fabric coatings", **Sindh Higher Education Commission** (3.58 million) 2021 (two-years)

Najma Memon, "Participating cite coordinator on -Study of Environmental Enteropathy in Pakistan (SEEM)", **Agha Khan University, Karachi** Rs 1.305 million (2019)

Najma Memon, "Development of Highly Selective Sensor for on-site detection of Arsenic (V) in water bodies", **PSF-MSRT Joint Project (Bilateral Pakistan and Iran)** Rs.0.505 Million (2017)

Najma Memon, "Empowering of Pakistani Women through translational research in the sciences: Waste-to-Energy Conversion, and Water Purification Technology development" **Higher Education Commission under Pak-US Science and Technology Cooperation Program** (Rs. 21.05 million) 2015-2017. (two year duration)

Shahabuddin Memon and Najma Memon "Synthesis of macrocyclic chelating agents for removal and pre-concentration of perchlorates" **NCE in Analytical Chemistry** (Rs. 0.6 million) 2010. *No. NCEAC/246/2010. (two year duration)*

Najma Memon, "Grant for maintenance of Scientific Equipments" , *Purchase of HPLC detector*, **Higher Education Commission, Pakistan** (Rs. 0.705 million) 2011.*No.5-1(11)MSE/R&D/HEC/2010. (Immediate application)*

Najma Memon, "Detoxification/degradation of organic pollutants using enzyme immobilized organogel silica hardened nano-composites", **Pakistan Science Foundation**, (Rs. 1.2519 million), 2011. *No.PSF/Res./S-SU/Chem (437). (Two year duration)*

## EDITORIAL POSITIONS

1. Senior Editor, Pakistan Journal of Analytical and Environmental Chemistry (August 2021- till date)

2. Associate Editor, *Frontiers in Materials* (Carbon-Based Materials section), March 2022- till date
3. Editor, *Pakistan Journal of Analytical and Environmental Chemistry* (August 2012- 2021)
4. Sub-editor, *Pakistan Journal of Analytical and Environmental Chemistry* (2004-2012)
5. Associate Editor, *Journal Chemical Society of Pakistan* (January 2013-2016)
6. Member Advisory Board, *Polish Journal of Food and Nutrition Sciences* (2015-2018 )

#### ADMINISTRATIVE ASSIGNMENTS

1. Member, Scrutiny Committee of NCEAC (June 2021- till date)
2. Member, Tender/Bids committee of NCEAC (June 2021- till date)
3. Member, Certification/ Accreditation Committee of NCEAC (June 2021- till date)
4. Member, Cleaning/Beautification/Appearance Committee of NCEAC (June 2021-till date)
5. Member, Administrative/ Executive (policy Decision) Committee of NCEAC (June 2021- till date)
6. Member, Board of Faculty of Natural Sciences, University of Sindh, Jamshoro (Feb 2017 till date)
7. Member, Board of Studies, M.A. Kazi Institute of Chemistry, University of Sindh, Jamshoro (April 2022- For three Years)
8. Member, MPhil/PhD Equivalence programs review panel for year 2021-22 (University of Sindh)

#### FELLOWSHIPS AND SPONSORED TRAININGS

1. Post doctoral Fellowship, **HEC, Pakistan**. Preparation, characterization properties and selected analytical/ related applications of reverse micelle organogels” Wake Forest University, Winston Salem, **NC-USA** December 2006-January 2008.
2. “Analytical Skills Development Course”, **OPCW, Europe**. 29 may-12 June 2009, Helsinki, **Finland**.
3. “12th International Graduate Course on the Production and Use of Food Composition Data in Nutrition”, 13-25 October 2013 at Wageningen University, The Netherlands (Course sponsored by FAO of UN)
4. “Leading for Equity, Diversity and Inclusion in Higher Education”, 2-weeks online course (31 October, 2020), University of Michigan, USA

#### NATIONAL & INTERNATIONAL COLLABORATIONS (IN-PERSON ACTIVITIES)

1. "Belt and Road" University Alliance for food science and education (BRUA-FSE), *Inauguration and membership signing Ceremony* along with MoU with Jiangnan University, China, 16-17 November 2018 at Jiangnan University China. **Lead person**
2. Academic Exchange Visit of Wake Forest University, Winston-Salem, NC, USA- November 28 – December 14, 2018.
3. Visit of Istanbul University, Istanbul, Turkey, 17 December 2018.
4. Lincoln University College Malaysia, Dec. 2021 and till now

#### STUDENTS WHO RECEIVED FELLOWSHIP DURING PHD OR MPHIL

1. Tahira Qureshi- Indigenous PhD fellowship by HEC, Pakistan (2010)
2. Tahira Qureshi-Tubitek Fellowship, Turkey for two consecutive years (2018)
3. Rabel Soomro, Tubitek Fellowship, Turkey for one year (2019)
4. Sanam Irum Soomro, Indigenous PhD fellowship by HEC, Pakistan (2012)
5. Imran Rind- Indigenous PhD fellowship by HEC, Pakistan (2018)
6. Safia Sanam Memon- Pak-US Science & Technology cooperation program (2017)
7. Sidra Mahesar- Tubitek Fellowship, Turkey for one year (2021)

#### EDUCATION

Post Doctorate	"Preparation, characterization properties and selected analytical/ related applications of reverse micelle organogels" Wake Forest University, Winston Salem, NC-USA December 2006-January 2008.
Ph.D.	"Spectroscopic and chromatographic determination of Analytical Species using organized assemblies" NCEAC, University of Sindh, Jamshoro, Pakistan, 2005.
M.Sc.	Analytical Chemistry, M. A. Kazi Institute of Chemistry, University of Sindh, Pakistan, 2000, First class.

#### MEMBERSHIPS

1. Member ACS (2023)
2. Member, AOAC-International
3. Affiliated Member International Union of Pure and Applied Chemistry (IUPAC)
4. Associate Secretary, CSP (Sindh Chapter) since November 2006
5. Member Chemical Society of Pakistan (CSP).

6. Member, Asian Analytical Chemist Network
7. Member on Food Composition Table of Pakistan, Nutrition Section, Ministry of Planning and Development, Government of Pakistan
8. Member, Organization of Women in Science in Developing World, Trieste, Italy

#### WORKSHOPS, CONFERENCES AND SYMPOSIA

1. In-service Training Workshop on Electro-analytical Techniques- (Aug 16-21, 2000) **Resource Person**, Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro - Pakistan
2. In-service Training Workshop on Bio-analytical Techniques- (Aug 12-18, 2001), National Center of Excellence in Analytical Chemistry (NCEAC), University of Sindh, Jamshoro – Pakistan.
3. National Seminar on Environmental, Social and cultural impact of water scarcity in Sindh, January 15-16, 2004, M.A. Kazi Institute of Chemistry, University of Sindh, Jamshoro – Pakistan.
4. Pakistan-Bangladesh-Iran International Seminar on Analytical Sciences, 8-9 December 2003, NCEAC, Jamshoro, Pakistan.
5. “7<sup>th</sup> National Symposium on Analytical and Environmental Chemistry, 4-5 March 2003, NCEAC, Jamshoro, Pakistan.
6. “2<sup>nd</sup> International and 12<sup>th</sup> National Chemistry conference, 4-6 February, 2002, NCEAC, Jamshoro, Pakistan.
7. “7<sup>th</sup> Eurasia Conference on Chemical Sciences, 09-12 March, 2002, HEJ Research Institute of Chemistry, Karachi, Pakistan.
8. Seminar on University- Industry Interaction, 13<sup>th</sup> November 2001, NCEAC, Jamshoro, Pakistan.
9. 1<sup>st</sup> International and 11<sup>th</sup> National Chemistry Conference, 12 April 2001, Peshawar, Pakistan.
10. “6<sup>th</sup> National Conference on Biochemistry and Molecular Biology, 15-17 February, 2001, Khairpur, Pakistan.
11. “Drinking water - life saver or threat” by Merck marker, march 15, 2004.
12. “5<sup>nd</sup> International and 15<sup>th</sup> National Chemistry conference”, 24<sup>th</sup>-27<sup>th</sup> November, 2004, Quaid-e-Azam University, Islamabad.
13. “8<sup>th</sup> International Symposium on Analytical and Environmental Chemistry, 7-8 February 2005, NCEAC, Jamshoro, Pakistan.
14. “In-Service Training Workshop on Chromatography and Statistics in Chemistry”, **Resource Person**, December 26, 2004- January 9, 2005”, NCEAC, Jamshoro, Pakistan
15. “Refresher Course in Analytical Chemistry for Teachers”, **Resource person**, 23<sup>rd</sup> Jan-04<sup>th</sup> Feb., 2006, NCEAC, University of Sindh, Jamshoro, Pakistan.
16. Technicians Training Program on HPLC, GC, and UV-Visible Spectrophotometers” **Resource person**, 13<sup>th</sup> -18<sup>th</sup> March 2006, NCEAC, University of Sindh, **Jamshoro, Pakistan.**
17. “15 Day Refresher Course in Analytical Chemistry for Teachers”, **Resource Person**, 3<sup>rd</sup> Jan-04<sup>th</sup> Feb. 2006, National Center of Analytical Chemistry, University of Sindh, **Jamshoro**
18. “6<sup>th</sup> International and 12<sup>th</sup> National Chemistry Conference”, **Speaker**, April 06-08, 2006, **Multan, Pakistan.**
19. “Twenty-Fourth Triangle Chromatography Symposium and Instrument Exhibit”, **Attendee** May 17, 2007, McKimmon Conference and Training Center, North Carolina State University, Raleigh, **NC-USA.**

20. "81<sup>st</sup> Colloid and Surface Science Symposium" **Participant** ACS Division of Colloid and Surface Science, June 24-27, 2007, University of Delaware, Newark, **Delaware-USA**.
21. 121<sup>st</sup> AOAC Annual Meeting And Exposition, **participant** September 16, 2007 through Thursday, September 20, 2007, Garden Grove, **CA 92840, USA**
22. Practical LC/MS (Short Course) 24<sup>th</sup> Montreux Symposium on LC/MS & Related Techniques October 10-12, 2007 (short courses October 8-9), **HILTON HEAD ISLAND, SOUTH CAROLINA, USA**
23. 18<sup>th</sup> National Chemistry Conference, Institute of Chemistry, **Invited speaker**, University of Punjab, **Lahore-Pakistan** 25-27 February, 2008
24. HEC workshop "Chemistry for life sciences" **Speaker**, May 5-10, 2008 @LEJ National Science Information Center, University of Karachi, **Karachi-Pakistan**.
25. "17<sup>th</sup> "Surfactants in Solution", **oral presentation**, August 17-22, 2008, Berlin, **Germany**.
26. ICSTIE 2008, UTM, Pulau Pinang, Penang, Malaysia **Oral presentation**, December 12-13, 2008.
27. "Analytical Skills Development Course", Helsinki, **Finland** sponsored by OPCW, Netherlands 29 May-12 June 2009.
28. "ICCE-2009", Ubon Ratchatani, **Thailand, Oral Presentation**, January 21-24, 2010
29. "Analytical Chromatography of small molecules: Practical Skills Development Workshop", 23<sup>rd</sup> – 27<sup>th</sup> May 2011 (**Coordinator**).
30. "The 11<sup>th</sup> Asian Conference on Analytical Sciences (ASIANALYSIS XI) Nanjing, China, August 23 - 26, 2011. **Invited speaker**
31. 2<sup>nd</sup> Symposium of Asian Analytical Chemistry Network (AACN), Nanjing, China, August 23 - 26, 2011. **Invited speaker**
32. "Tools in Writing Research Reports-1", NCE in Analytical Chemistry, Jamshoro, Pakistan 14 November, 2011 (**Organizer**)
33. 3<sup>rd</sup> Pak-Turk Workshop on Chemical Sciences, "Phenolics of Ziziphus Mauritiana L. Fruit" Uludag University, Bursa, Turkey 13-15 September 2012 (**Invited lecture**)
34. Fabrication of Molecularly Imprinted-based Fiber for Solid-phase Microextraction and Gas Chromatographic Determination of Endosulfan , University of Peshawar, Pakistan 15-17 October 2012 (**Oral Presentation**)
35. Three days workshop on "Applications of chromatographic techniques in residue analysis" NCE in Analytical Chemistry, University of Sindh, Jamshoro, 18-20 February 2013 (**Resource Person**)
36. "Analytical Chemistry at University of Sindh", 3<sup>rd</sup> Asian Analytical Chemistry Network (AACN) symposium, 22-24 August 2013 at Fukuoka, Japan (**Invited lecture**)
37. "Oxidative removal of phenol and its derivatives using immobilized HRP into Silica hardened CTAB based organogel", International conference on Physical and Analytical Chemistry, September 9-13, 2013 at Nathiagali, Peshawar, Pakistan (**Oral Presentation**).
38. "12<sup>th</sup> International Graduate Course on the Production and Use of Food Composition Data in Nutrition", 13-25 October 2013 at Wageningen University, The Netherlands (Course sponsored by FAO of UN)
39. "Advances in Food Analytical Methods: Phenolics and Oils/Fat", 4-6, December 2013 at COMSTECH, Islamabad; **Resource Person**, Organized and sponsored by COMSTECH
40. "Molecularly imprinted polymers for selective extraction of priority pollutants" ICBCS-2014 International Conference on Biochemical and Chemical Sciences, Feb, 24-26, 2014, FAISALABAD (**Keynote speaker**)



41. "Entrepreneurship workshop for scientist and engineers: from innovation to implementation" at NUST, Islamabad, 2-7 June, 2014 (Organized by The Embassy of United States and NUST)
42. "Seminar on Modernization of Truck Freight Transport in Pakistan" organized by Pakistan Sustainable transport (PAKSTRAN) project: CIU-Trucking Islamabad (UNDP-Project), 5-6 November 2015 at PC Hotel, Karachi.
43. "Characterization and application of metallic salt/ nanoparticle composite organogels for room-temperature desulfurization of hydrocarbon fuel" Conference on emerging materials and process, organized by NUST, Islamabad, 22-23 December 2015 (Oral presentation)
44. "Pakistan Procurement Regularity Authority" Two day workshop at LUMHS, Jamshoro, 18-19 May 2016.
45. Symposium and workshops on "Biowaste derived carbons for waste-to-bioenergy conversion and water purification", 20-23 February 2017 at Hotel Indus, Hyderabad, Pakistan (**Organizing Secretary**)
46. Workshop on "Biomass derived carbons for water purification and catalyst for biofuel" 22 February 2017 at National Centre of Excellence in Analytical Chemistry, Jamshoro (**Organizing Secretary and resource person**)
47. Workshop on "Science, Technology and Entrepreneurship", 23 February 2017 at Hotel Indus, Hyderabad, Pakistan (**Organizing Secretary**)
48. Training workshop on "Technology-based Entrepreneurship for Developing Countries", 25-28 April 2017 at Isfahan, Iran organized by Isfahan Science and Technology Town.
49. "MOF-5/Cryogel composite for selective extraction and determination of cholesterol", 4th International Turk-Pak Conference on Chemical Sciences, (ITPCCS 2017) October 26–28, 2017, Konya, TURKEY
50. "Linking Technology & Industries in Hyderabad, Pakistan: A Local Perspective", PASTIC Seminar on "Promotion of Industry-Academia Collaboration on Knowledge and Economic Development", 04<sup>th</sup> October 2017 @ Peal Banquet Hall, Hyderabad
51. "Solid acid catalysts from biowaste and their potential for biodiesel production", 7<sup>th</sup> International conference on Environmentally Sustainable Development, 26-28 August 2017 at COMSATS Abbottabad
52. "Women Entrepreneurship", World Entrepreneurship Day, 21 August 2017 @ MUET Auditorium Jamshoro
53. "Writing Research Proposals for Grants", **Resource Person**, Training Workshop on Research Method and Data Analysis Techniques on 29<sup>th</sup> -31<sup>st</sup> March 2017
54. "Greening the extraction of plant phenolics through microwave irradiation", INTERNATIONAL CONFERENCE ON GREEN & SUSTAINABLE CHEMICAL SCIENCES, Dawood University of Engineering and Technology, Karachi. 3-4 March 2018
55. "Research Proposal Writing and Development", 03-Day Interactive Workshop on Quality Assurance Procedures and Advanced Research Skills in Plant Sciences, 14–16 March 2018 at University of Sindh.
56. Regional Seminar on "Challenges of the Scientific and Technological Evolution for the Export Control Systems", Astana, Kazakhstan on 23-25 May 2018.
57. "Combining liquid chromatography and Mass Spectrometry: A visible approach for the analysis of complete sample" in Two-Day Workshop on Recent Advances in Hyphenated & Online Analytical Techniques, **Resource person**, University of Poonch, Rawalakot, Azad Kashmir. 5-6 July, 2018.

58. "Pak-US Science and Technology-Startup and ideation training program", 20 August-13 September 2018 (Spread on various virtual session) with in-person in Dubai, 28-30 August 2018
59. One-day International Seminar on "Sustainable Water Management" Saturday 10 November 2018 @ University of Sindh, Jamshoro, Pakistan-**Organizer**.
60. "TLC based chiral separation of amino acids onto  $\beta$ -cyclodextrin incorporated glutaraldehyde cross-linked polyvinyl alcohol electrospun fiber stationary phase" 1st International Congress on Analytical and Bioanalytical Chemistry 27-30 March, 2019 Antalya, Turkey.
61. Potential of hydrothermally prepared carbons in water decontamination, 3<sup>rd</sup> Young Researchers National Conference on Water and Environment, 5-6 September 2019 at MUET, Jamshoro
62. "Engineering Research methodology" One day Seminar on Research Methodology, 05<sup>th</sup> October 2019 at Dawood University of Engineering and Technology, Karachi
63. Organized NCEAC Lecture Series "Qou Vadis Electroanalytical Chemistry" 21 January 2019 at Jamshoro, Pakistan
64. "Preparedness in Context of Climate Change Adaptation and Disaster Reduction" in Youth Engagement in climate change and crisis resilience, 6-7 June 2020 (online) organized by UNDP. Master the disaster Hackathon.
65. "Chaired a session", Water Resources Management and Climate Change, October 28, 2020 organized by PCRWR, DRIP Campus, Tandojam
66. Naveed QasimAbro, Najma Memon, Bakhtiar Ali Samejo, Ayaz Ali, "Capacitive Performance of Salt Templated and Thermally-Activated Carbons Derived from Potato Peels Biowaste", International conference on Energy, Environment and Storage of Energy (ICEESEN 2020) 19-21 Nov 2020 organized by Erciyes University, Turkey.
67. Najma Memon, "Carbon material from waste for water purification and biodiesel production", 5th Online International Conference on Sustainability in Process Industry (SPI) 2020" (PLENARY TALK) Dec 15-16th, 2020. Organized by Department of Chemical Engineering, University of Engineering & Technology Peshawar Pakistan.
68. Najma Memon, "Publishing Research Papers in International Journals" Presented at "Scientific Research Methodology, Writing Research papers and publications of papers in International Journals" Bamyar University Afghanistan on 3 June 2021 (online).
69. Najma Memon (**organized** and attended) a two-day webinar on "Chemical Substance Risks & their minimization" scheduled on 29-30 June 2021. Funded by European Union
70. Najma Memon, "Carbon material from waste for water purification" 1st International Symposium on "ADVANCED MATERIALS AND EMERGING TECHNOLOGIES" Organized by DEPARTMENT OF METALLURGY AND MATERIALS ENGINEERING MUET JAMSHORO, 29-30 July 2021.
71. Najma Memon (Attended), Noble Prize Teacher's Summit-2021, 8 October 2021 online from Nobel Prize Museum, Sweden
72. Najma Memon (attended), The 3rd Joint Training Program on Digital Transformation for the BRI countries, by BTBU-ECOSF Joint Training Center on Scientific, Technological and Economic Cooperation under the Belt and Road Initiative (online) 11 October 2021
73. Najma Memon, International Webinar on Post-pandemic Research Strategies, "Post-pandemic Research transformations", 8 December 2021. Organized by GCU, Hyderabad

74. Najma Memon, "Strategies for extraction of keratin from waste and its application for high-end products", 19<sup>th</sup> International and 31<sup>st</sup> National Chemistry Conference on Emerging Trends in Chemistry 2021, 16-18 December 2021 @UMT, Lahore
75. Najma Memon, "Characterization and Capacitive Performance Assessment of Potato Peels derived salt-induced porous Carbons", 6th International Conference on Energy, Environment and Sustainable Development, 17-19 January 2022 @ MUET, Jamshoro
76. Najma Memon, "Empowering Women for Leadership" Training Course, 9-13 May 2022 Organized by National Academy of Higher Education, Islamabad @ Islamabad
77. Najma Memon, "Flashback of career in Science", Online seminar on 'Star Scientist and Technology Transfer from University to Industry', 12 January 2022. Organized by MUET.pk and GRIPS, Japan
78. Co-Organizer of 2<sup>nd</sup> International Conference Disaster Risk Management and Human Health, Virtual, 18-19 June 2022. Organized by Lincoln University College, Malaysia
79. Najma Memon, "Black Phosphorus and its Nano-composite materials for high performance supercapacitor" 19-20 October 2022. Jointly organized by UET, Peshawar and GIKI, Topi
80. Najma Memon, "Food Science and Technology", 17 November 2022 @Department of Chemical Engineering, MUET, Jamshoro
81. Najma Memon, "Black Phosphorus Quantum dots/Nitrogen deficient graphitic carbon nitride composite material for high performance supercapacitor" February 6-8, 2023 5th International Conference and Exhibition for Science King Saud University, Saudi Arabia.
82. Najma Memon, "Chemistry for Changing Times", An invited talk and Judge on poster presentation at GC University, Hyderabad. 10th May 2023.
83. Webinar on "Journal Scientific Reports" By Clarivate Analytics. 4th July 2023
84. Consultative Workshop "STAKEHOLDER WORKSHOP ON NITROGEN MANAGEMENT AND NATIONAL POLICIES" organized by Agriculture University, Faisalabad at Movenpick Hotel, Karachi. 18th July 2023.
85. Training (hybrid-mode) on 'Aspiring Leaders Cohort (Cohort 2)' by NAHE-HEC, Islamabad and Michigan State University, USA under Visiting International Professional Program. 15th February 2023- 15th October 2023
86. NAHE-PhD Supervisors Capacity Building Program 2023 (Cohort-II) | Master Trainers Capacity Building (Phase-1) | Marriot Hotel from 19th Jun to 23 2023 at Islamabad
87. NAHE-PhD Supervisors Capacity Building Program 2023 (Cohort-II) | Master Trainers Capacity Building (Phase-2) | 31 July-04 August 2023 @KARACHI, PAKISTAN
88. Empowering Women Leaders Summit, Marriott Islamabad organized by Michigan State University under Visiting International Professional Program, October 9-11, 2023.
89. Sustainable economic growth through establishing Science and Technology Parks, jointly held by IRIS and UNESCO in Isfahan Science and Technology Town, 27-29 November 2023.

M. PHIL/PH.D. STUDENTS SUPERVISED				
#	Name	Degree	Year of award	Title
<b>PhDs</b>				
1	Mr. Ayaz Ali Memon (Co-supervisor)	Ph.D.	2012	Development of analytical methodology for determination of phenolic compounds in plant materials
2	Mr. Kamran Abro (Co-supervisor)	Ph.D.	2013	Optimization of silica-based monolithic columns for liquid chromatography in selected pharmaceutical and biomedical analysis
3	Mr. Zulfiqar Ali	Ph.D.	2013	Synthesis, characterization and application metal

	Tagar (Co-supervisor)			nanoparticles
4	Ms. Huma Shaikh (Co-supervisor)	Ph.D.	2015	Molecularly imprinted polymer-matrix for determination and removal of selected trace organic contaminants from water systems
5	Ms. Rubina Soomro (Supervisor)	Ph.D.	2013	Utilization of Bis(salicylaldehyde)orthphenyldiamine and its derivatives for the spectrophotometric and electrophoretic determination of selected metal ions
6	Ms. Tahira Qureshi (Supervisor)	Ph.D.	2017	Hospital wastewater screening for selected pharmaceutical compounds and their removal by solid-phase extraction
7	Mr. Razium Soomro (Co-supervisor)	Ph.D.	2016	Synthesis, Characterization and applications of metal and metal oxide nanostructures
8	Mr. Asif Bhatti (Co-supervisor)	Ph.D.	2016	Synthesis of Calix[4]arene based receptors for the removal of anions from aqueous media
9	Mr. Sibghatullah Memon (Co-supervisor)	Ph.D.	2017	Synthesis of sorbent material for the removal of persistent organic pollutants(POPs) from aqueous media
10	Ms. Sajida Memon (Co-supervisor)	Ph.D.	2015	Screening of polyphenols in various selected cereals by capillary electrophoresis
11	Ms. Rabel Soomro (Supervisor)	PhD	2019	Degradation of Phenols, dyes and selected pharmaceutically active compounds using <i>Horseradish Peroxidase</i> immobilized onto composites of gelatin`
12	Ms. Fozia Chang (Supervisor)	Ph.D.	2019	Synthesis, Characterization and Analytical applications of Metal-Organic Frameworks
13	Mr. Madan Lal (Supervisor)	Ph.D.	2021	Development of Liquid Chromatographic procedures for Aminoglycosides antibiotics through Imine derivatization
14	Ms. Sanam Erum Soomro (Supervisor)	Ph.D.	2022	Generation and Development of new Food Composition Table of Pakistan
15	Ms. Safia Sanam Memon (Supervisor)	Ph.D.	2022	Preparation and Characterization of biocarbons and their composite materials as catalyst for biodiesel production
16	Mr. Anil Kapoor (Co-Supervisor)	Ph.D.	2021	Assessment of essential nutrients and their deficiency consequences in school going children at District Tharparkar, Pakistan
17	Imran Rind (Supervisor)	PhD	May 2023	Preparation and characterization of biocarbon for customized water filtration
<b>M.Phils</b>				

1	Ms. Sidra Amin (supervisor)	M.Phil	2015	Electrochemical determination of selected analgesic drugs of environmental concern using solid state electrode
2	Ms. Ruqaya Shaikh (supervisor)	M.Phil	2016	Preparation and characterization of functional metal nanoparticles and their application in detection of metal ions
3	Ms. Paras Azaadi (supervisor)	M.Phil	2015	Adsorptive removal of thiophenic compounds from hydrocarbon fuels
4	Ms. Roomia Memon (co-supervisor)	M.Phil	2015	Nutrient profiling of wheat varieties in Sindh
5	Ms. Shabana Gul Mugheri (Co-supervisor)	M.Phil	2016	Phytochemical and antioxidant study ocimum Basilicum (sweet basil)
6	Mr. Zakir H. Shah (supervisor)	M.Phil	2016	Fabrication of electrospun ultrafine membranes for clean-up of preservatives
7	Amna Khatoon (Co-supervisor)	M.Phil	2016	Development of capillary electrophoresis method for the determination of skin whitening agents in cosmetic products
8	Ms Sahrish Khatri	M.Phil	2017	Development of Electrospun Cyclodextrin fibers Based Stationary Phases in Thin Layer Chromatography for Separation of Chiral Compounds
9	Ms. Aisha Kanwal	M.Phil	2018	Arsenazo-blended cellulose acetate nanofiber for selective and efficient removal of uranium from aqueous systems
10	Mr. Abdullah Memon	M.Phil	2019	Preparation of Carbon based materials from indigenous waste through hydrothermal process and their applications in water purification
11	Mr. Kashif Soomro	M.Phil	2019	Comparative quality characteristics of biodiesel produced from indigenous sources and commercially available petrodiesel in Hyderabad, Pakistan
12	Mr. Fayyaz Salih Hussain	M.Phil	2019	Development of adsorptive membrane for removal and reclamation of chromium from tannery waste
13	Mr. Wajdan Nadir	M.Phil	2020	Development of selective sensor for on-site detection of arsenic (V) in environmental samples
14	Ms. Kiran Soomro	M.Phil	2020	Amino acids profiling and dietary fiber content of wheat varieties from Sindh Pakistan
15	Ms. Urooj Kanwal	M.Phil	2021	Synthesis and applications of layered double hydroxide composites
16	Mr. Sakib Laghari	M.Phil	2021	Preparation, Characterization and Applications of Carbon Dots (CDs) for Sensing of Nitroaromatic Compounds
17	Mr. Naveed Abro	M.Phil	2021	Organic-waste-derived Carbon for Energy Storage
18	Bakhtiar	M.Phil	2021	Conversion of Solid waste into Carbon Electrodes

	Samejo			for Capacitive Deionization of saline Water
19	Shazia Chohan	M.Phil	July 2022	Quantitative Analysis of Nutrients, Fat and Oil of Snacks commonly consumed at Different Age Groups in Pakistan
20	Shahbaz Ali Mallah (Co)	M.Phil.	March 2023	Synthesis of Functionalized Graphene Based Composites and Their Application in Water Purification

#### M.PHIL/PH.D. STUDENTS COMPLETED THESIS

S.No	Name of student	Degree Pursuing	Year registered	Title
1	Abdul Fatah Larik	M.Phil.	2019	Valorization of Banana Pseudostem for Industrial applications

#### CURRENTLY ENROLLED M.PHIL AND PH.D

S.No	Name of student	Degree Pursuing	Year Admitted	Year registered	Title
1	Fayyaz Salih Hussain	Ph.D.	2019	2021	Development of sustainable antiviral fabric coatings
2	Sidra Khan Mahesar	Ph.D.	2019	2021	Preparation of Nano-based layered double hydroxide with its applications in decontamination and sensing
3	Masood Rehman	M.Phil.	2018	2020	Preparation of black phosphorus quantum dots (BPQDS) and their application
4	Naveed Abro	Ph.D.	2021	2023	2D/2D composite materials for energy storage applications
5	Shakeela Abbass	Ph.D.	2021	2023	Development of Efficient Photothermal Materials for Solar Interfacial Desalination
6	Abdullah Memon (Co-supervisor)	Ph.D.		2023	
7	Muhammad Ahmed Chang	M.Phil.	2022	2023	
8	Haresh Kumar	M.Phil	2022		
09	Shazia Chohan	Ph.D.	2022	2023	
10	Waris Nawab	Ph.D.	2022		
11	Bakhtawar Pirzada	Ph.D.	2022		