# Dr. Muhammad Faizan Nazar



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## Professional Information

Associate Professor
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## Personal Information

House # 115, Block C, Housing Colony-II, Layyah


## Area of Specialization

Physical Chemistry: Colloids and Interfaces

## Professional and Research Experience

I have established a strong international reputation in the fields of colloid and interface science. To date, I have published **164 research articles**, receiving **7,269 citations**, with an **h-index of 48** and a cumulative journal **impact factor of 706.9**. I have successfully supervised **5 PhD**, 42 MPhil/MS, and 16 BS/MSc research students. In recognition of my scholarly contributions, I have been included in the **Stanford/Elsevier World's Top 2% Scientists** list.

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|---|---|
| **18 Oct. 2009– 17 Apr. 2010** | Research Collaborator, School of Chemistry, University of Bristol, UK. |
| **15 May 2011 – 27 June 2011** | Visiting Teacher, Department of Chemistry, University of Sargodha, Sargodha, Pakistan. |
| **14 July 2011 –15 Mar. 2012** | Assistant Professor, Department of Chemistry, University of Sargodha, Sargodha, Pakistan |
| **16 Mar. 2012– 05 Nov. 2020** | Assistant Professor, Department of Chemistry, University of Gujrat, Gujrat, Pakistan |
| **06 Nov. 2020– To date** | Associate Professor, Department of Chemistry, University of Education, Lahore (Multan Campus), Pakistan |
| **21 Jan. 2021– To date** | Coordinator, Department of Chemistry, University of Education, Lahore (Multan Campus), Pakistan |

## Academic Qualifications

| Year | Certificate/Degree | Discipline/Field | Board/University | %/Div. |
|---|---|---|---|---|
| 1999 | Matric | Science | BISE Sargodha | 77.1/1st |
| 2001 | F.Sc. | Pre-engineering | FBISE Islamabad | 69.5/1st |
| 2003 | B.Sc | Pre-engineering | University of Sargodha | 68.6/1st |
| 2005 | M.Sc | Physical Chemistry | Quaid-i-Azam University | 74.9/1st |
| 2007 | M.Phil | Physical Chemistry | Quaid-i-Azam University | 75.0/1st |
| 2011 | PhD | Physical Chemistry | Quaid-i-Azam University | Degree awarded |

***PhD Thesis:*** *Microemulsions for the Encapsulation of Drugs and Recovery of Metal Nanoparticles*
***MPhil Thesis:*** *Electrostatic and Hydrophobic Interactions in Dye-Surfactant Aggregates*

## Project Awarded/Submitted

- The project entitled "Pharmaceutical formulation of colloidal microemulsions as futuristic carriers of potent bioactive drugs through biomembranes" granted by HEC Pakistan of 5.94 Millions. (as PI)
- The project entitled "Designing and fabrication of smart hydrogels for controlled drug delivery" awarded by HEC Pakistan of 3.99 Millions (HEC/R&D/NRPU/2017/8796). (as PI)

- The project entitled "Development of Microemulsified-Gels as Smart-Permeators Across Biological Barriers for Topical Drug Delivery" approved by HEC Pakistan of 4.2 Millions (reference # 20-17321/NRPU/R&D/HEC/2021 2021). (as PI)
- Concept paper (CP-2-2025-412-8PBI) titled "Engineering of Water-Dispersible Nanopesticides from Soft Colloidal Template for Sustainable Agricultural and Environmental Management" accepted *by Pakistan Science Foundation, Islamabad for Research Proposals* of Natural Sciences Linkage Programme (NSLP).

## Awards

- Recognized as Stanford/Elsevier World's Top 2% Scientists in the year 2026.
- Recognized as Stanford/Elsevier World's Top 2% Scientists in the year 2025.
- Recognized as Stanford/Elsevier World's Top 2% Scientists in the year 2024.
- Received the Letter of Appreciation, on Developing a well thought-out-research project dated 20-05-2022, from Vice Chancellor University of Education, Lahore
- Invited Lecture, Koblenz, Germany supported by European Cooperation in Science and Technology under COST Action ES1205, Feb 16, 2016
- Third Position in Thomson Reuters Impact Factor @ Research Award 2017, University of Gujrat.
- First Position in Research Publication @ Research Award 2017, University of Gujrat.
- Research Productivity Award 2012-13, Pakistan Council for Science and Technology.
- Research Productivity Award 2011-12, Pakistan Council for Science and Technology.
- Awarded IRSIP scholarship for PhD 2009-2010, HEC, Pakistan.
- Awarded indigenous scholarship for PhD 2007-2011, HEC, Pakistan.

## Travel Grants

- Approval of Travel Grant (Rs. 326,294) from PHEC-Pakistan for International Symposium on Solubility Phenomena and Related Equilibrium Processes (ISSP-18) on July 15-20, 2018 at Hôtel Oceania l'Univers, Tours, France.
- Invited Lecture "Cloud point extraction of nanoparticles" at one day International Workshop: cloud point extraction (CPE) and engineered nanomaterials in environmental matrices, held at Department G2-Aquatic Chemistry, Federal Institute of Hydrology, Koblenz, Germany, *16th February 2016*, supported by COST (European Cooperation in Science and Technology, COST Action ES1205)-fully funded.
- Approval of Travel Grant (Rs. 226,240) from HEC-Pakistan for 6th Asian Conference on Colloid and Interface Science (ACCIS2015) on November 24-27, 2015 in Arkas Sasebo, Sasebo, Japan.

## Editorial Board Memberships

- **Academic Editor**, *PLOS ONE*, Public Library of Science (PLOS)
- **Editorial Board Member**, *Colloid and Nanoscience Journal*, Arak University

## Research Expertise/Field of Research

- **"Colloidal fluids (Microemulsions, Hydrogels, Micelles) as drug carriers and nanoreactors"**

Microfluid is an area of research where a huge development is required in terms of diversity of its applications in different commercial applications. Microfluids are colloidal self-assembly fluids function as nanoreactors that provide extensive applications for the evolution of pharmaceuticals and clinical science as well as nanoparticles technology in biomedicine, nanoelectronics and catalysis. Because of their low interfacial tension and small particle size, the internalization of these microemulsion-based nanodroplets by target cancer cells may be further facilitated by fusion with cancer cell membrane.

- **"Adsorption (wastewater treatment)"**

Adsorption process is an innovative and economical alternative due to its performance and ease of operation. The target pollutant accumulates at the surface/interface of the adsorbent in aqueous medium. Clays/Organoclays based adsorbents have also emerged as promising adsorbents for wastewater treatment. Clays possess certain properties, which make them an ultimate choice for adsorption process such as low cost, high availability, and environmentally friendly material.

## Publications in International Journals (since 2008)

The publications have been in high quality international journals (Total impact factor = **702**).

***2008***

1. A. Shah, A.M. Khan, R. Qureshi, F.L. Ansari, **M.F. Nazar**, S.S. Shah. *"Redox behavior of anticancer chalcone at glassy carbon electrode and evaluation of its interaction parameters with DNA"*. International Journal of Molecular Sciences 9, (2008), 1424-1434. (IF = 5.6)

***2009***

2. **M.F. Nazar**, A.M. Khan, S.S. Shah. *"Microemulsion system with improved loading of piroxicam: A study of microstructure"*. AAPS PharmSciTech 10, (2009), 1286-1294. (IF = 5.1)

***2010***

3. O. Myakonkaya, Z. Hu, **M.F. Nazar**, J. Eastoe. *"Recycling functional colloids and nanoparticles"*. Chemistry-A European Journal 16, (2010), 11784-11790. (IF = 3.6)
4. **M.F. Nazar**, A.M. Khan, S.S. Shah. *"Association behavior of 3,4-dihydroxy-9,10-dioxo-2-anthracenesulfonic acid sodium salt in cationic surfactant medium under different pH conditions"*. Journal of Dispersion Science and Technology 31, (2010), 596-605. (IF = 2.2)
5. **M.F. Nazar**, S.S. Shah, M.A. Khosa. *"Interaction of azo dye with cationic surfactant under different pH conditions"*. Journal of Surfactants and Detergents 13, (2010), 529-537. (IF = 2.0)
6. A. Badshah, S. Nawaz, **M.F. Nazar***, S.S. Shah, A. Hasan. *"Synthesis of novel fluorescent cyclohexenone derivatives and their partitioning study in ionic micellar media"* Journal of Fluorescence 20, (2010), 1049-1059. (IF = 3.4)
7. F. Gul, A.M. Khan, S.S. Shah, **M.F. Nazar**. *"Spectroscopic study of the binding of alizarin red s with cetyltrimethylammonium bromide at low concentrations and the effect of temperature"*. Coloration Technology 126, (2010), 109-113. (IF = 2.6)
8. A. Shah, M. Zaheer, R. Qureshi, Z. Akhthar, **M.F. Nazar**. *"Voltammetric and spectroscopic investigations of 4-nitrophenylferrocene interacting with DNA"*. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 75, (2010), 1082-1087. (IF = 4.8)

***2011***

9. **M.F. Nazar**, O. Myakonkaya, S.S. Shah. J. Eastoe. *"Separating nanoparticles from microemulsions"*. Journal of Colloid and Interface Science 354, (2011), 624-629. (IF = 9.6)
10. **M.F. Nazar**, S.S. Shah, M.A. Khosa. *"Microemulsions in enhanced oil recovery: a review"*. Petroleum Science and Technology 29, (2011), 1353-1365. (IF = 1.3)
11. **M.F. Nazar**, S.S. Shah. J. Eastoe, A.M. Khan, A. Shah. *"Separation and recycling of nanoparticles using cloud point extraction with non-ionic surfactant mixtures"*. Journal of Colloid and Interface Science 363, (2011), 490-496. (IF = 9.6)
12. M.A. Khosa, S.S. Shah, **M.F. Nazar**. *"Application of micellar enhanced ultrafiltration for the removal of methylene blue from aqueous solution"*. Journal of Dispersion Science and Technology 32, (2011), 260-264. (IF = 2.2)
13. N.A. Kizilbash, S. Asif, **M.F. Nazar**, S.S. Shah, D. Alenizi. *"Design of a microemulsion-based drug delivery system for diclofenac sodium"*. Journal of the Chemical Society of Pakistan 33, (2011), 1-6. (IF = 0.6)
14. M.A. Khosa, S.S. Shah, **M.F. Nazar**. *"UV-Visible spectrometric study and micellar enhanced ultrafiltration of alizarin red s dye"*. Journal of Dispersion Science and Technology 32, (2011), 1634-1640. (IF = 2.2)

***2013***

15. M.S.U. Rehman, M. Munir, M. Ashfaq, N. Rashid, **M.F. Nazar**, M. Danish, J-I. Han. *"Adsorption of brilliant green dye from aqueous solution onto red clay"*. Chemical Engineering Journal 228, (2013) 54-62. (IF = 12.5)
16. K.S. Ahmad, N. Rashid, **M.F. Nazar**, S. Tazaiyen. *"Adsorption and desorption characteristic of benzimidazole based fungicide carbendazim in Pakistani soils"*. Journal of the Chemical Society of Pakistan 35, (2013), 1017-1024. (IF = 0.6)
17. M.I. Abdullah, M.R.S.A. Janjua, **M.F. Nazar**, A. Mahmood. *"Quantum chemical designing of efficient tc4 based sensitizers by modification of auxiliary donor and pi-spacer"*. Bulletin of the Chemical Society of Japan 86, (2013), 1272-1281. (IF = 4.0)

***2014***

18. **M.F. Nazar***, S. Murtaza. *"Physicochemical investigation and spectral properties of sunset yellow dye in aqueous micellar solution under different pH conditions"*. Coloration Technology 130, (2014), 191-199. (IF = 2.6)
19. **M.F. Nazar***, M. Raheel, S.S. Shah, M. Danish, M. Ashfaq, M.N. Zafar, M. Siddiq. *"Thermodynamic characteristics and spectral-luminescent properties of N-m-tolylbenzamide in microheterogeneous surfactant self-assemblies"*. Journal of Solution Chemistry 43, (2014), 632-647. (IF = 1.3)

**20.** A. Mahmood, M.I. Abdullah, **M.F. Nazar**. *"Quantum chemical designing of novel organic non-linear optical compounds"*. Bulletin of the Korean Chemical Society 35, (2014), 1391-1396. (IF = 3.1)

**21.** A. Badshah, **M.F. Nazar***, A. Mahmood, W. Ahmed, M.I. Abdullah, M.N. Zafar, U.A. Rana. *"Synthesis, characterization of novel cyclohexenone derivatives and computation of their optical response"*. Journal of Molecular Structure 1071, (2014), 103-110. (IF = 4.9)

**22.** M.R.S.A. Janjua, A. Mahmood, **M.F. Nazar**, Zhihua Yang, Shilie Pan. *"Electronic absorption spectra and nonlinear optical properties of ruthenium acetylide complexes: a DFT study toward the designing of new high NLO response compounds"*. Acta Chimica Slovenica 61 (2014) 382-390. (IF = 1.2)

**23.** M.N. Zafar, M.A. Mohsin, M. Danish, **M.F. Nazar**, S. Murtaza. *"Palladium catalyzed heck-mizoroki and suzuki-miyaura coupling reactions (review)"*. Russian Journal of Coordination Chemistry 40 (2014) 781-800. (IF = 1.1)

**24.** M. Ashfaq, T. Akhtar, G. Mustafa, M. Danish, S.N. Razzaq, **M.F. Nazar**. *"Simultaneous estimation of rosuvastatin and amlodipine in pharmaceutical formulations using stability indicating HPLC method"*. Brazilian Journal of Pharmaceutical Sciences 50 (2014) 629-638. (IF = 0.9).

**25.** **M.F. Nazar***, F. Mukhtar, S. Chaudry, M. Ashfaq, S. Mehmood, A. Asif, U.A. Rana. *"Biophysical probing of antibacterial gemifloxacin assimilated in surfactant mediated molecular assemblies"*. Journal of Molecular Liquids 200 (2014) 361-368. (IF = 5.2)

***2015***

**26.** **M.F. Nazar***, S. Murtaza, B. Ijaz, M. Ashfaq, M.A. Mohsin. *"Photophysical investigations of Carmoisine interacting with conventional cationic surfactants under different pH conditions"*. Journal of Dispersion Science and Technology 36 (2015) 18-27. (IF = 2.2).

**27.** **M.F. Nazar***, M.I. Abdullah, A. Badshah, A. Mahmood, S.D. Khan, U.A. Rana. *"Synthesis, structure-activity relationship and molecular docking of cyclohexenone based analogous as potent non-nucleoside reverse-transcriptase inhibitors"* Journal of Molecular Structure 1086 (2015) 8-16. (IF = 4.9)

**28.** M. Ashfaq, A. Aslam, M. Danish, G. Mustafa, **M.F. Nazar**, M.N. Asghar. *"Derivatization/chromophore introduction of tranexamic acid and its HPLC determination in pharmaceutical formulations"*. Journal of the Association of Arab Universities for Basic and Applied Sciences 17 (2015) 51-56. (IF = ---)

**29.** W. Ahmed, **M.F. Nazar***, S.D. Ali, U.A. Rana, S.D. Khan. *"Detailed investigation of optimized alkali catalyzed transesterified Jatropha oil"*. Journal of Energy Chemistry 24 (2015) 331-336. (IF = 15.6)

**30.** A. Mahmood, S.D. Khan, U.A. Rana, M.R.S.A. Janjua, M.H. Tahir, **M.F. Nazar**, Y. Song. "*Effect of thiophene rings on UV/visible spectra and non-linear optical (NLO) properties of triphenylamine based dyes: A quantum chemical perspective*". Journal of Physical Organic Chemistry 28 (2015) 418-422. (IF = 1.9)

**31.** **M.F. Nazar***, F. Mukhtar, M. Ashfaq, H.M.A. Rahman, M.N. Zafar, S.H. Sumrra. *"Physicochemical investigation of antibacterial moxifloxacin interacting with quaternary ammonium disinfectants"*. Fluid Phase Equilibria 406 (2015) 47-54. (IF = 2.7)

**32.** **M.F. Nazar***, M. Abid, M. Danish, M. Ashfaq, A.M. Khan, M.N. Zafar, S. Mehmood, A. Asif. *"Impact of l-leucine on controlled release of ciprofloxacin through micellar catalyzed channels in aqueous medium"*. Journal of Molecular Liquids 212 (2015) 142-150. (IF = 5.2)

**33.** **M.F. Nazar**, S. Murtaza, A.M. Khan, S.S. Shah, N. Asghar, A. Mahmood. *"Spectral-luminescent properties of pH-sensitive azo fluorophore in complexes with quaternary ammonium disinfectants"*. Colloid and Polymer Science 293 (2015) 3145-3156. (IF = 2.9)

***2016***

**34.** **M.F. Nazar***, A. Badshah, A. Mahmood, M.N. Zafar, M.R.S.A. Janjua, M.A Raza, R. Hussain.*"Synthesis, spectroscopic characterization and computed optical analysis of green fluorescent cyclohexenone derivatives"*. Journal of Physical Organic Chemistry 29 (2016) 152-160. (IF = 1.9)

**35.** M.N. Zafar, A.H. Atif, **M.F. Nazar**, S.H. Sumrra, G. Saba, R, Paracha. *"Pyridine and related ligands in transition metal homogeneous catalysis"*. Russian Journal of Coordination Chemistry 42 (2016) 1-18. (IF = 1.1)

**36.** M. Ashfaq, K.N. Khan, S. Rasool, G. Mustafa, M.S.U. Rehman, **M.F. Nazar**, Q. Sun, C.P. Yu. *"Occurrence and ecological risk assessment of fluoroquinolone antibiotics in hospital waste of Lahore Pakistan"*. Environmental Toxicology and Pharmacology 42 (2016) 16-22. (IF = 4.6)

**37.** M.N. Zafar, **M.F. Nazar**, S.H. Sumrra, G. Saba, A. Yasmin, A.H. Atif. *"Development of Some Important Nitrogen Donor Ligands for Transition Metal Homogeneous Catalysis"*. Russian Journal of Coordination Chemistry 42 (2016) 225-251. (IF = 1.1)

**38.** **M.F. Nazar***, W. Azeem, U.A. Rana, M. Ashfaq, A. Lashin, N. Al-Arifi, H.M.A. Rahman, A.M. Lazim, A. Mahmood. *"pH-dependent probing of levofloxacin assimilated in surfactant mediated assemblies: Insights from*

*photoluminescent and chromatographic measurements"*. Journal of Molecular Liquids 220 (2016) 26-32. (IF = 5.2)

**39.** M.A Raza, F. Anwar, D. Shahwar, A. Majeed, M.W. Mumtaz, M. Danish, **M.F. Nazar**, I. Perveen, S.D. Khan. *"Antioxidant and antiacetylcholine esterase potential of aerial parts of Conocarpus erectus, Ficus variegate and Ficus maclellandii"*. Pakistan Journal of Pharmaceutical Sciences 29 (2016) 489-495. (IF = 0.6)

**40.** L. Duester, A.L. Fabricius, S. Jakobtorweihen, A, Philippe, F. Weigl, A. Wimmer, M. Schuster, **M.F. Nazar**. *"Can cloud point-based enrichment, preservation and detection methods help to bridge gaps in aquatic nanometrology?"* Analytical and Bioanalytical Chemistry 408 (2016) 7551-7557. (IF = 4.1)

**41.** S. Shamim, S. Murtaza, **M.F. Nazar**. *"Synthesis of Schiff Bases of Pyridine-4-Carbaldehyde and their antioxidant and DNA Binding Studies"*. Journal of the Chemical Society of Pakistan 38 (2016) 494-503. (IF = 0.6)

***2017***

**42.** M. Ashfaq, K.N. Khan, M.S.U. Rehman, G. Mustafa, **M.F. Nazar**, Q. Sun, J. Iqbal, S.I. Mulla, C.P. Yu. *"Ecological risk assessment of pharmaceuticals in the receiving environment of pharmaceutical wastewater in Pakistan"*. Ecotoxicology and Environmental Safety 136 (2017) 31-39. (IF = 6.6)

**43.** K.I. Hussain, M. Usman, M. Siddiq, N. Rasool, **M.F. Nazar**, I. Ahmad, A.A. Holder, A.A. Altaf. *"Application of micellar enhanced ultra-filtration for the removal of sunset yellow dye from aqueous media"*. Journal of Dispersion Science and Technology 38 (2017) 139-144. (IF = 2.2)

**44.** M. Danish, M. Ashiq, **M.F. Nazar***. *"Physicochemical investigation of sulfonamide-derived compounds interacting with conventional cationic surfactants in aqueous media"*. Journal of Dispersion Science and Technology 38 (2017) 837-844. (IF = 2.2).

**45.** H.M.A. Rahman, S. Afzal, **M.F. Nazar**, D.A. Alvi, A.M. Khan, M.N. Asghar. *"Phase Behavior of a TX-100/Oleic Acid/Water Based Ternary System: A Microstructure Study"*. Journal of Molecular Liquids 230 (2017) 15-19. (IF = 5.2)

**46.** **M.F. Nazar***, M.A. Saleem, S.N. Bajwa, B. Yameen, M. Ashfaq, M.N. Zafar, M. Zubair. *"Encapsulation of antibiotic levofloxacin in biocompatible microemulsion formulation: Insights from microstructure analysis"*. The Journal of Physical Chemistry B 121 (2017) 437-443. (IF = 3.2)

**47.** S.D. Ali, I.N. Javed, U.A. Rana, **M.F. Nazar***, W. Ahmed, A. Junaid, M. Pasha, R. Nazir, R. Nazir. *"Novel SrO-CaO mixed-metal-oxides catalyst for ultrasonic-assisted transesterification of Jatropha oil into biodiesel"*. Australian Journal of Chemistry 70 (2017) 258-264. (IF = 1.1)

**48.** M.N. Zafar, F. Perveen, **M.F. Nazar**, E.U. Mugal, H. Rafique, M.N. Tahir, M.S. Akbar, S. Zahra. *"Synthesis, characterization, DNA-Binding, enzyme inhibition and antioxidant studies of new N-methylated derivatives of pyridinium amine"*. Journal of Molecular Structure 1137 (2017) 84-96. (IF = 4.9)

**49.** A.M. Khan, A. Mehmood, M. Sayed, **M.F. Nazar**, B. Ismail, R.A. Khan, H. Ullah, H.M.A. Rahman, A.Y. Khan, A.R. Khan. *"Influence of Acids, Bases and Surfactants on the Photocatalytic Degradation of a Model Dye Rhodamine B"*. Journal of Molecular Liquids 236 (2017) 395-403. (IF = 5.2)

**50.** M.N. Zafar, **M.F. Nazar**, M.A. Raza, E.U. Mughal, A.F. Dalebrook, L.J. Wright. *"Synthesis, Characterization, Preliminary Biological Screening and Interaction Studies of the bis(pyridinium)amine compound, 4,4'-((2-aminophenyl)azanediyl)bis(1-methylpyridin-1-ium) triflate with Biological Macromolecules"*. Russian Journal of General Chemistry 87 (2017) 554-563. (IF = 1.0)

**51.** M.N. Zafar, S. Masood, **M.F. Nazar**, M.A. Raza, M.N. Tahir, E.U. Mughal, H. Rafique, G. Saba. *"Solvent free synthesis of water-soluble new pyridinium amines: spectroscopic characterization, biological screening, and interaction study with DNA"*. Journal of the Chinese Chemical Society 64 (2017) 822-832. (IF = 2.0)

**52.** W. Azeem, P. John, **M.F. Nazar***, I.U. Khan, A. Riaz, S. Sharif. *"Spectral and chromatographic characterization of fixed dose combination norfloxacin and metronidazole interacting with cetyltrimethylammonium bromide"*. Journal of Molecular Liquids 244 (2017) 135-140. (IF = 5.2).

**53.** M. Ashfaq, N. Noor, G. Mustafa, M.S.U. Rehman, **M.F. Nazar**. *"Determination of Commonly used pharmaceuticals in Hospital waste of Pakistan and evaluation of their health risk assessment"*. CLEAN-Soil Air Water 45 (2017) 1500392. (IF = 2.0)

***2018***

**54.** S.H. Sumrra, F. Mushtaq, M. Khalid, M.A. Raza, **M.F. Nazar**, B. Ali, A.A.C. Braga *"Synthesis, Spectral Characterization and Computed Optical Analysis of Potent Triazole Based Compounds"*. Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy 190 (2018) 197-207. (IF = 4.8)

**55.** A. Ashri, N. Amalina, A. Kamil, S. Fazry, M. F. Sairi, **M. F. Nazar**, A. M. Lazim.*"Modified Dioscorea hispida starch-based hydrogels and their in-vitro cytotoxicity study on small intestine cell line (FHS-74Int)"*. International Journal of Biological Macromolecules 107 (2018) 2412-2421. (IF = 8.7)

**56.** A.M. Khan, S. Bashir, A. Shah, **M.F. Nazar**, H.M.A. Rahman, S.S. Shah, A.Y. Khan, A.R. Khan, F. Shah. *"Spectroscopically probing the effects of Ho(III) based complex counterion on the dye-cationic surfactant interactions.* Colloids and Surfaces A: Physicochemical and Engineering Aspects 539 (2018) 407-415. (IF = 5.4).

**57.** M.N. Zafar, S. Zahra, M.N. Tahir, E.U. Mugal, **M.F. Nazar**, H. Rafique. *"One-pot synthesis of new N-(1-methylpyridin-4(1H)-ylidene)amine ligands for Palladium-catalysed Heck coupling reaction"*. Turkish Journal of Chemistry 42 (2018) 63-74. (IF = 2.0)

**58.** S.H. Sumrra, A.H. Atif, M.N. Zafar, M. Khalid, M.N. Tahir, **M.F. Nazar**, M.A. Nadeem, A.A.C.Braga *"Synthesis, crystal structure, spectral and DFT studies of potent isatin derived metal complexes"*. Journal of Molecular Structure 1166 (2018) 110-120. (IF = 4.9)

**59.** W. Azeem, P. John, **M.F. Nazar***, M. Ashfaq, I.U. Khan, S. Sharif, A. Riaz. *"Fixed-dose combination antibiotics interacting with a quaternary ammonium disinfectant: Insights from spectral and chromatographic measurements"*. Journal of Solution Chemistry 47 (2018) 1048-1059. (IF = 1.3)

**60.** M. Zubair, F. Anwar, M.N. Zafar, **M.F. Nazar**, A.I. Hussain, E.U. Mughal. *"Effect of Ultrasonic Extraction Regimes on Phenolics and Antioxidant Attributes of Rice (oryza sativa L.) Cultivars"*. Iranian Journal of Chemistry & Chemical Engineering 37 (2018) 109-119. (IF = 1.2)

**61.** M.B. Tahir, M. Rafique, M. I. Khan, A. Majid, **M.F. Nazar**, M. Sagir, S. Gilani, M. Farooq, A. Ahmed. *"Enhanced Photocatalytic Hydrogen Energy Production of g-$C_3N_4$-$WO_3$ Composites under Visible Light Irradiation"*. International Journal of Energy Research 42 (2018) 4667-4673 (IF = 4.2)

**62.** **M.F. Nazar***, M.Y. Siddique, M.A. Saleem, M. Zafar, F. Nawaz, M. Ashfaq, A.M. Khan, H.M.A. Rahman, M.B. Tahir, A. M. Lazim. *"Fourth-Generation Antibiotic Gatifloxacin Encapsulated by Microemulsions: Structural and Probing Dynamics"*. Langmuir 34 (2018) 10603-10612. (IF = 4.4)

**63.** M.A. Saleem, **M.F. Nazar***, B. Yameen, A.M. Khan, S.Z. Hussain, M.R. Khalid. *"Structural Insights into the Microemulsion-Mediated Formation of Fluoroquinolone Nanoantibiotics"*. ChemistrySelect 3 (2018) 11616-11621. (IF = 2.3)

***2019***

**64.** A.M. Khan, F. Shafiq, S.A. Khan, S. Ali, B. Ismail, A.S. Hakeem, A. Rahdar, **M.F. Nazar**, M. Sayed, A.R. Khan. *"Surface modification of colloidal silica particles using cationic surfactant and the resulting adsorption of dyes"*. Journal of Molecular Liquids 274 (2019) 673-680. (IF = 5.2)

**65.** A. Rehman, S.A. Khan, S. Ali, **M.F. Nazar**, A. Shah, A.R. Khan, A.M. Khan. *"Counterion engineered surfactants for the novel synthesis of colloidal metal and bimetal oxide/SiO2 materials with catalytic applications"*. Colloids and Surfaces A: Physicochemical and Engineering Aspects 571 (2019) 80-85. (IF = 5.4).

**66.** M.N. Zafar, Q. Dar, F. Nawaz, M.N. Zafar, M. Iqbal, **M.F. Nazar**. *"Effective Adsorptive removal of toxic azo dyes over spherical ZnO nanoparticles"*. Journal of Materials Research and Technology 8 (2019) 713-725. (IF = 7.3)

**67.** **M.F. Nazar***, W. Azeem, A. Kayani, M. Zubair, P. John, A. Mahmood, M. Ashfaq, M.N. Zafar, S.H. Sumrra, M.N. Zafar. *"pH-dependent Antibiotic Gatifloxacin Interacting with Cationic Surfactant: Insights from Spectroscopic and Chromatographic Measurements"*. Journal of Solution Chemistry 48 (2019) 936-948. (IF = 1.3)

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**141.** M.N. Sarwar, M. A. Maqbool, S. Ullah, A.S. Rana, S.U. Khan, A.A. Ibrahim, K. Alam, S. Zafar, Z. Ullah, **M.F. Nazar***. "*Fostering Conceptual Understanding of Photocatalysis for Sustainable Development: A Social Constructivism Flipped Classroom Model"*. Sustainability 16 (2024) 10324. (IF = 4.1)

***2025***

**142.** M.A. Ehsan, R. Batool, A.S. Hakeem, S. Ali, **M.F. Nazar**, Z. Ullah. *"Controlled Deposition of Trimetallic Fe-Ni-V Oxides on Nickel Foam as High-Performance Electrocatalysts for Oxygen Evolution Reaction"*. International Journal of Hydrogen Energy 98 (2025) 772-782. (IF = 9.2).

**143.** S.S. Shafqat, B. Ammen, S.A. Masood, A. Mukhtar, **M.F. Nazar**, M.A. Khan, A.A. Almehizia, M.Y. Siddique, M. Nosheen, M.N. Zafar. *"Formation of alginate gel stabilized silica nanoparticles for encapsulation and topical delivery of minoxidil"*. Colloids and Surfaces B: Biointerfaces 247 (2025) 114432. (IF = 5.9)

**144.** X. Du, K. Shahzadi, L. Wei, T. Shi, S. Haider, S.U. Khan, **M.F. Nazar**, Z. Ullah. *"Multifunctional conductive composite hydrogel facilitated by high-functionality crosslinker strategy for strain sensing applications"*. Polymer Bulletin 82 (2025) 245-262. (IF = 4.2)

**145.** A.R. Ashraf, Z. Akhter, M.A. Farid, L.C. Simon, K. Mahmood, **M.F. Nazar***. *"Thermal Performance Customization of Polyimide Films by Nanocomposite Engineering with $Al_2O_3$ and ZnO Nanoparticles"*. Frontiers in Materials 12 (2025) 1504965. (IF = 3.5)

**146.** A.S. Rana, S. Sarfraz, M.H. Helal, A.M. Lazim, M.A. Amin, M.M. Hessien, **M.F. Nazar***. "*Microfluidic Mediated Emulsification for Drug Delivery Applications"*. Journal of Drug Delivery Science and Technology 110 (2025) 107046. (IF = 5.2)

**147.** G. Mustafa, M. Saleem, I. Ahmad, M. Sohail, S.H. Gillani, **M.F. Nazar,** R. Zairov, A. Syed, A.M. Elgorban, A.H. Bahkali. *"Hydrogen evolution reaction enhancement through cobalt oxide-cobalt phosphide interface engineering"*. Emergent Materials 8 (2025) 4187-4195. (IF = 4.0)

**148.** M. Ali, S. Zafar, N. Ali, F.U. Nisa, Rimsha, W. Hassan, **M.F. Nazar***. "*Mercury Cleanup: Harnessing Biomass for Wastewater Remediation"*. Toxicological & Environmental Chemistry 107 (2025) 1606-1636. (IF = 1.2)

**149.** Z. Maqbool, N. Raza, A. Hayat, M.E. Salem, **M.F. Nazar***. "*Functional Solid-Liquid Interfaces for Electrochemical Blood Glucose Sensing: New Insights and Future Prospects"*. Chemosensors 13 (2025) 385. (IF = 4.4)

**150.** A.S. Rana, N. Raza, M. Abid, **M.F. Nazar***. "*Surfactant-Mediated Carriers for Gemcitabine: New Insights and Future Prospects"*. Surfaces and Interfaces 77 (2025) 108066. (IF = 6.0)

***2026***

**151.** A.S. Rana, N. Raza, M.J. Anwer, **M.F. Nazar***. "*Advancing MXenes through Green Chemistry for Sustainable Future"*. Materials Research Bulletin 193 (2026) 113720. (IF = 5.8)

**152.** N.S. Alsaiari, B. Siddique, E. Hussain, **M.F. Nazar**, T.M. Althagafi, A. Badshah, M.S. Al-Buriahi. *"Structure-activity landscapes and synthetic accessibility in machine learning-guided organic semiconductor discovery"*. Journal of Photochemistry & Photobiology, A: Chemistry 473 (2026) 116877. (IF = 4.4)

**153.** M. Shareef, H. Batool, A. Shehzadi, F. Aftab, A. Munir, S. Manzoor, R.S. Gohar, Z. Rehman, M.N. Ashiq, **M.F. Nazar***. "*Structural functionalized $TiO_2$-mediated photocatalysts as dye degradation agents: A systematic review"*. Materials Research Bulletin 195 (2026) 113852. (IF = 5.8)

**154.** R. Yasmin, M. Afzaal, K.N. Khan, A.S. Rana, **M.F. Nazar*,** M. Abid, S.H. Sumrra. "*Dextran-Based Stimuli-Responsive Hydrogels for Smart Dressings in Wound Healing"*. Journal of Materials Science: Materials in Medicine 37 (2026) 19. (IF = 4.7)

**155.** A.S. Rana, N. Raza, M. Abid, **M.F. Nazar***. "*Stimuli-Responsive Polysaccharide Nanoplatforms for Targeted Cancer Therapy"*. Reactive and Functional Polymers 222 (2026) 106686. (IF = 5.4)

**156.** R. Batool, N.I. Sonil, M.A. Bari, A. Khalil, N. Raza, M.E. Salem, **M.F. Nazar**, Z. Ullah. *"2D Materials in Photoelectrochemical Cells: Opportunities for Next-Generation Solar Batteries"*. FlatChem 56 (2026) 101012. (IF = 5.7)

**157.** M.R. Alvi, A.R. Ashraf, A. Fatima, I. Kausar, **M.F. Nazar***, S. Ahmed. *"Probing stability of exocyclic BN-doped fulvenes in ground state: 1-aminoboroles vs 1-pyrroloboraness"*. Physical Chemistry Chemical Physics 28 (2026) 14233. (IF = 3.0)

**158.** M. Ashfaq, M.S.U. Rehman, M. Zubair, S. Safdar, A. Arif, G. Mustafa, A. Rashid, **M.F. Nazar**, Qian Sun. *"Occurrence, Spatial Distribution, and Ecological Risk Assessment of PPCPs in Sediments from Wastewater and Receiving River Systems of Lahore, Pakistan"*. Remediation 36 (2026) e70069. (IF = 2.5)

**159.** W. Gohar, K. Nawaz, W. Zafar, A.N. Cheema, N. Raza, M. Zafar, **M.F. Nazar**, S.H. Sumrra. "*Biosynthesis of copper, cobalt and zinc oxide nanoparticles using the seed extract of Citrullus lanatus and determination of biological potentials"*. RSC Advances 16 (2026) 28751-28767. (IF = 6.1)

**160.** S.S. Shafqat, M. Khalid, A. Abbas, **M.F. Nazar***, S.R. Shafqat, S. Rashid, H.F. Tahira, N. Raza. *"Molecular Interaction of Antihypertensive Drug Aliskiren with Cetyltrimethylammonium Bromide and Sodium Dodecyl Sulfate Surfactants in Aqueous Solution"*. International Journal of Chemical Kinetics 58 (2026) 761-772. (IF = 1.7)

**161.** Z. Ullah, R. Batool, N.I. Sonil, **M.F. Nazar**. "*Intelligent Chemical Sensors: Learning-Enabled Platforms for Adaptive Chemical Detection"*. RSC Advances 16 (2026) 39279-39295. (IF = 6.1)

**162.** **M.F. Nazar***, M. Nazeer, M.Y. Siddique, A.S. Rana, M. Sajid, M.A. Saleem, F. Ahmad, M.M. Sarfraz. "*Formulation and ex vivo permeation evaluation of ketotifen-loaded microemulgels for topical delivery"*. Colloid and Interface Science Communications 74 (2026) 100912. (IF = 6.7)

**163.** M. Shareef, S.N. Arshad, F. Aftab, N. Raza, S. Manzoor, M.A. Ehsan, S. Musaddiq, H. Batool, **M.F. Nazar***. "*Interfacial S-Scheme Electron Transfer in CaO/Activated Carbon Nanocomposites for Enhanced Photodegradation of Dye Pollutants"*. Materials Research Bulletin 205 (2027) 114384. (IF = 5.8)

**164.** M.N. Sarwar, A.M. Alharbi, **M.F. Nazar***. *"Fostering Conceptual Understanding of Organic Solar Cells through Immersive Augmented Reality: A Quasi-Experimental Study in Chemistry Education"*. Scientific Reports 16 (2026) 35527. (IF = 4.9)

## Book Chapter Published

**1.** M. Abid, M. Afzaal, R. Yasmin, S.H. Sumrra, **M.F. Nazar***. (2025), "Nanocellulose-based hydrogels for drug delivery systems" in Applications of Nanocellulose and Nanocellulose-Based Composites, Elsevier, 2026, Pages 209-243.

**2.** W. Zafar. S.H. Sumrra, M. Zubair, **M.F. Nazar**, Z.H. Chohan (2025). Advancements and Applications of Biomaterials in Medicine, Artificial Organs, and Biology. In: Ikhmayies, S.J. (eds) Advances in Biomaterials Research. Advances in Material Research and Technology. Springer, Cham. https://doi.org/10.1007/978-3-031-97481-6_11

**3.** Tayyaba, M. Batool, **M.F. Nazar,** M.N. Zafar, A.A. Tahir, Applications of metal ferrites as photocatalyst for solar fuel production, water splitting and carbon dioxide reduction, Editor(s): Samrana Kazim, Muhammad Nawaz Tahir, Shahzada Ahmad, Sanjay Mathur, In Nanophotonics, Photoelectrochemical Engineering for Solar Harvesting, Elsevier, 2024, Pages 109-139.

**4.** I. Kanwal, S. Aman, **M.F. Nazar**, M.A. Qayyum, S.H. Sumrra, M.N. Zafar (2024). Polymeric Nanostructured Materials and Their Biomedical Applications. In: Ikhmayies, S.J. (eds) Advanced Polymers. Advances in Material Research and Technology. Springer, Cham. https://doi.org/10.1007/978-3-031-62186-4_5

**5.** A. Khalid, M. Batool, M. Saghir, T. Khalid, **M.F. Nazar***. (2024). Emerging Technologies in Catalyst Research. In Advances in Catalysts Research. Springer, 10.1007/978-3-031-49108-5_1.

**6.** R. Riaz, *et al.* (2024). Silicones and Their Applications. In: Ikhmayies, S.J. (eds) Advances in Minerals Research. Advances in Material Research and Technology. Springer, Cham. https://doi.org/10.1007/978-3-031-49175-7_5

**7.** S.S. Saleem, S. Saleem, **M.F. Nazar***. (2023). Role of Biosurfactants in Nanoparticles Synthesis and their Stabilization. In: Aslam, R., Mobin, M., Aslam, J., Zehra, S. (eds) Advancements in Biosurfactants Research. Springer, https://doi.org/10.1007/978-3-031-21682-4_10

**8.** N. Tawakkul, M. Batool, S. Batool, G. Mustafa, **M.F. Nazar***. (2023), "General mechanisms of drug loading and sustained release" in Novel Platforms for Drug Delivery Applications, ISBN: 611308.

**9.** M. Batool, N. Tawakkul, S. Batool, M.N. Zafar, **M.F. Nazar***. (2023), "Porous metal-organic-framework nanoscale carriers as a potential platform for drug delivery" in Novel Platforms for Drug Delivery Applications, ISBN: 611308.

**10.** M.A. Saleem, M.Y. Siddique, M. Zubair, M. Ashfaq, **M.F. Nazar***. (2023), "Self-nanoemulsifying drug delivery systems with bioavailability potential" in Novel Platforms for Drug Delivery Applications, ISBN: 611308.

**11.** M. Abid, M. Mahmood, M. Batool, S.H. Sumrra, **M.F. Nazar***. (2023), "Biodegradable polymeric nanoparticle drug for oral delivery applications" in Novel Platforms for Drug Delivery Applications, ISBN: 611308.

**12.** M. Batool, **M.F. Nazar**, M.B. Tahir, M. Sagir, S, Batool. Chapter 10 - "Nanomaterial safety regulations" in Nanomaterials: Synthesis, Characterization, Hazards and Safety (Micro and Nano Technologies), Elsevier, 2021, Pages 259-272.

13. A. Baig, M. Zubair, M.N. Zafar, M. Farid **M.F. Nazar**, S.H. Sumrra. Chapter 11 - "Nanobiodegradation of plastic waste" in Biodegradation and Biodeterioration at the Nanoscale (Micro and Nano Technologies), Elsevier, 2022, Pages 239-259.
14. U.E. Ruman, M. Zubair, M. Farid, S.H. Sumrra, **M.F. Nazar**, M.A. Hanif (2022). Strategies for Commercializing Scientific Results and Combining Separate Processes Into Complex Technologies. In: Režek Jambrak, A. (eds) Nonthermal Processing in Agri-Food-Bio Sciences. Food Engineering Series. Springer, Cham. https://doi.org/10.1007/978-3-030-92415-7_25.
15. M. Batool, M.N. Zafar, **M.F. Nazar***. Chapter 10 - "General regulations for safety manufacturer of nanomaterials" in Nanomaterials Recycling (Micro and Nano Technologies), Elsevier, 2022, Pages 61-82.
16. S. Aman, M. Bashir, M. Baigum, **M.F. Nazar**, S.H. Sumrra, S.S. Shafqat, M.N. Zafar (2022), Graphene based nanocomposites: Synthesis, characterization and energy harvesting applications. In: Shalan, A.E., Hamdy Makhlouf, A.S., Lanceros-Méndez, S. (eds) Advances in Nanocomposite Materials for Environmental and Energy Harvesting Applications. Engineering Materials. Springer, Cham. https://doi.org/10.1007/978-3-030-94319-6_27.
17. M. Bashir, S. Aman, Aneesa, **M.F. Nazar**, M. Zubair, R. Nadeem, M.N. Zafar (2021). Metal Sulfide Nanocomposites for Energy Harvesting Applications. In: Shalan, A.E., Hamdy Makhlouf, A.S., Lanceros-Méndez, S. (eds) Advances in Nanocomposite Materials for Environmental and Energy Harvesting Applications. Engineering Materials. Springer, Cham. https://doi.org/10.1007/978-3-030-94319-6_19.
18. **Muhammad Faizan Nazar** and Syed Sakhawat Shah, "Microemulsion Encapsulation Technology". LAP LAMBERT Academic Publishing (2014-07-16), ISBN-13: 978-3-659-56246-4.
19. **Muhammad Faizan Nazar**, "Manual Chemistry Practical" (Physical Chemistry: pp 23-25). 2013/Department of Chemistry, University of Gujrat /HEC Pakistan.

## Conferences/Seminars/Workshops

- Participated in 18th National Chemistry Conference (*25-27th February 2008*) held at Institute of Chemistry, University of the Punjab, Lahore.
- Co-author of *"*Derivatization/Chromophore Introduction of Tranexamic Acid and its HPLC Determination in Pharmaceutical Formulations*"* by M. Ashfaq, A. Aslam, M. Danish, G. Mustafa, M.F. Nazar, presented by M. Ashfaq at" 44th World Chemistry Congress (IUPAC)" held at Istanbul/Turkey, *11–16th August, 2013*.
- Participated in Five days National Workshop: Training of Trainers, Research Design & Practical Handling, held at Department of Chemistry, University of Gujrat, Gujrat, *16-20th September 2013.*
- Oral presentation "UV/Vis Spectroscopy, Theory and Practical Instructions" at Five days National Workshop: Training of Trainers, Research Design & Practical Handling, held at Department of Chemistry, University of Gujrat, Gujrat, *16-20th September 2013.*
- Participated in DICE CONNECT 2013 in collaboration with PCST & BRITISH COUNCIL (*1-2 October 2013*) held at University of Gujrat, Gujrat.
- Participated in Two days on-line training workshop on Managing Academic Thesis in collaboration with IRP (*23-24January 2015*) held at University of Gujrat, Gujrat.
- Organized/Participated in Two days workshop "Dye sensitized solar cell theory and fabrication" in collaboration with HEC (*11-12March 2015*) held at University of Gujrat, Gujrat.
- Organized/Participated in One day symposium (*4th June 2015*) on "Chemistry; A Need of the Hour" held at Department of Chemistry, University of Gujrat, Gujrat.
- Participated in Two days International Conference *(5-6 October 2015*) on "Recent Trends in Chemistry" held at Department of Chemistry, Allama Iqbal Open University, Islamabad.
- Organized/Participated in Two-Days Interdisciplinary National Workshop on "Chromatography & Mass Spectrometry" in collaboration with ORIC (*29-30March 2017*) held at University of Gujrat, Gujrat.
- Organized/Participated in Two-Days International Symposium on "Developments in Contemporary Chemistry" in collaboration with ORIC (*21-22November 2017*) held at University of Gujrat, Gujrat.
- Participated in Two-Days Workshop on "Risk assessment and emergency response to chemical, biological and environmental hazards at work place" in collaboration with ORIC (*28-29March 2018*) held at University of Gujrat, Gujrat.
- Participated in Improving Research Planning skills using Elsevier Tools-ScienceDirect & Scopus@ KFUEIT (*15th February 2021*) held at Khawaja Fareed University of Engineering and Information Technology (KFUEIT) Rahim Yar Khan.

- Member of organising committee / session chair in 1st International Conference (Online) Trends and Research in Chemistry (TRIC-2022) on 18-19 January 2022 at Department of Chemistry, University of Education Lahore.
- Organized an Online seminar on "Endnote and Mendeley as reference Manager for Technical Writing" on 22 February 2022 at Department of Chemistry, University of Education, Multan Campus.
- Member of organising committee / papers presented in 2nd International Conference (Online) Trends and Research in Chemistry (TRIC-2023) on 16-18 May 2023 at Department of Chemistry, University of Education Lahore.
- Organized World Science Day Project Exhibition on 20 November 2023 at University of Education, Multan Campus
- Chair a virtual seminar entitled "How to write an effective research proposal for research grant" on 03 November 2023 at Department of Chemistry, University of Education, Multan Campus.
- Chair a virtual seminar entitled "Carbon nanotubes (multi-walled): structure and characterization" on 08 November 2023 at Department of Chemistry, University of Education, Multan Campus.
- Chair a virtual seminar entitled "Metals-based nanomaterials/nanocomposites as novel catalysts for water splitting and contaminants removal" on 21 November 2023 at Department of Chemistry, University of Education, Multan Campus.
- Chair a virtual seminar entitled "N-heterocyclic compounds: synthesis and alpha-glucosidase inhibition" on 28 November 2023 at Department of Chemistry, University of Education, Multan Campus.
- Chair a virtual seminar entitled "How to win USA Fulbright scholarship for higher studies" on 20 November 2023 at Department of Chemistry, University of Education, Multan Campus.
- Chair a virtual seminar entitled "Scaled-up development of magnetically recyclable $Fe_3O_4/La(OH)_3$ composite for river water phosphate removal" on 05 December 2023 at Department of Chemistry, University of Education, Multan Campus.
- Chair/participated in a seminar entitled "Colloids and Nanochemistry, Application in Drug Delivery" on 10th May 2024 at Department of Chemistry, University of Layyah, Layyah.
- Member of committees in 3rd International Conference Trends and Research in Chemistry (TRIC-2024) on 6-7 November 2024 at Department of Chemistry, University of Education Lahore.
- Chair a seminar entitled "*Sustainable Nanomaterials: Synthesis, Properties and Applications*" on 01 February 2024 at Department of Chemistry, University of Education, Multan Campus.
- Chair a virtual seminar entitled "*Antitumor Potential of Benzimidazole Based Metal Complexes*" on 28 November 2024 at Department of Chemistry, University of Education, Multan Campus.
- Chair a virtual seminar entitled "*Carbon Nanotubes based Flexible Microelectrodes for Electrochemical Sensing of Biomolecules*" on 05 December 2024 at Department of Chemistry, University of Education, Multan Campus.
- Participated in one-day workshop on "Faculty Training on Patent Filing & Intellectual Property" (*27 February 2025*) held at University of Education, Lahore.
- Participated in one-day intensive Training on "Developing Strategic Plan" (*12 August 2025*) held at University of Education, Lahore.

**Additional Assignment (academic / administrative)**

- Coordinator/HoD of the Department of Chemistry, University of Education Lahore, Multan Campus (21 January 2021 to 09 March 2026).
- Convener Research Ethical Committee, University of Education Lahore, Multan Campus (03 Jan 2025 to date).
- Convener/Member Purchase Committee, University of Education Lahore, Multan Campus (21 March 2021 to date).
- Convener Unserviceable Items Committee, University of Education Lahore, Multan Campus (21 March 2021 to date).
- Member Discipline Committee, University of Education Lahore, Multan Campus (21 March 2021 to date).
- Member Unfair Means Committee, University of Education Lahore, Multan Campus (21 March 2021 to date).
- Member Board of Studies (BOS) of the Department of Chemistry (6 November 2020 to date), University of Education Lahore, Pakistan.
- Member Board of Studies (BOS) of the Department of Chemistry (March 2022 to date), Women University Multan, Pakistan.
- Member Departmental Research Program Committee (DRPC) of Department of Chemistry (4 September 2023 to date), GC Women University Sialkot, Pakistan.

- Member Faculty Board (BOF) of the Division of Sciences & Technology (6 November 2020 to date), University of Education Lahore, Pakistan.
- Superintendent of Examination of the Department of Chemistry (January 2020 to 5 November 2020), University of Gujrat, Pakistan.
- Member Board of Studies (BOS) of the Department of Chemistry (September 2018 to 5 November 2020), University of Gujrat, Pakistan.
- Member Departmental Review and Research Committee (DRRC) of the Department of Chemistry (October 2015 to 5 November), University of Gujrat, Pakistan.
- Departmental Focal Person for Office of Research Innovation & Commercialization (ORIC), December 2016 to February 2018.
- Verification officer Admission-2016 of the Department of Chemistry, University of Gujrat, Pakistan
- Member Departmental Doctoral/MPhil Program Committee (DDMPC) of the Department of Chemistry (July 2013 to September 2015), University of Gujrat, Pakistan.
- MPhil Coordinator (July 2014 to September 2015) of the Department of Chemistry, University of Gujrat, Pakistan.
- Member of JBH Chemist Society of the Department of Chemistry, University of Gujrat, Pakistan.
- Incharge of Glassware store of the Department of Chemistry, University of Gujrat, Pakistan.
- SSC & SSIC Coordinator (July 2013 to October 2013) of the Department of Chemistry, University of Gujrat, Pakistan.
- Member of International Advisory Board Committee for International Post graduate Conference on Science and Mathematics 2013 (IPCSM 2013) held in Universiti Pendidikan Sultan Idris Malaysia.

**Thesis Supervision (HEC Approved Supervisor)**

| S. #. | Student | Title | University | Thesis |
|---|---|---|---|---|
| **PhD** | | | | |
| 1 | Waqar Azeem | Interaction of Commercially Available Drugs with Pseudomembrane Model using Micellar Liquid Chromatography and Electronic Spectroscopy | GC University Lahore | 2019 Co-supervisor |
| 2 | Muhammad Munir Awan | Natural and Modified Clays for Removal of Organic Pollutants from Water | University of Gujrat | 2021 |
| 3 | Muhammad Atif Saleem | Microemulsion Mediated Synthesis of Nanodrugs for Improved Pharmaceutical Formulations | University of Gujrat | 2021 |
| 4 | Mehwish Abid | Designing and Fabrication of Thermo/pH Responsive Hydrogels for Encapsulation of Anticancer Drugs | University of Gujrat | 2021 |
| 5 | Muhammad Yasir Siddique | Formulation and Evaluation of Microemulsion Based Gels for Delivery of Active Pharmaceuticals | University of Gujrat | 2024 |
| 6 | Muhammad Amjad Riaz | Formulation and Optimization of Microemulsion-Based Gels for Topical Administration of Drugs | University of Education | Co-supervisor (In Progress) |
| **MPhil/MS** | | | | |
| 1 | Fareeha Mukhtar | Encapsulation and *invitro* evaluation of fluoroquinolone based antibacterial drugs in surfactant organized media | University of Gujrat | 2015 |
| 2 | Mehwish Abid | Impact of amino acids on structural and drug-binding properties of surfactant molecular assemblies in aqueous medium | University of Gujrat | 2015 |

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|---|---|---|---|---|
| 3 | Nazia Asghar | Solubilization of azo dyes in microheterogeneous surfactant self-assemblies | University of Gujrat | 2015 |
| 4 | Ayesha Khalid Chaudhry | Molecular recognition of potent pyridinium based compounds with macromolecules | University of Gujrat | 2015 |
| 5 | Reema Ayesha | Adsorption study of some fluoroquinoline antibiotics using activated carbon from microphyte | University of Gujrat | 2015 |
| 6 | Ayesha Abbas | Removal of brilliant green dye from water by using macroalgae as an adsorbent | University of Gujrat | 2015 |
| 7 | Lubna Shehzadi | Synthesis and characterization of spinel nano barium ferrites | University of Gujrat | 2016 |
| 8 | Nisma Mirza | Photophysical investigations of pyridinium amide ligand and its palladium complex interacting with macromolecules | University of Gujrat | 2016 |
| 9 | Sadaf Noreen | Physicochemical investigation of pyridine-4- carbaldehyde Schiff bases in aqueous micellar solution under different pH conditions | University of Gujrat | 2016 |
| 10 | Nyla Naz | Solubilization of 4-formylbenzoic acid Schiff bases in surfactant mediated molecular assemblies | University of Gujrat | 2016 |
| 11 | Aqsa Nazir | Interaction of dual-drug combination with ionic surfactants | University of Gujrat | 2016 |
| 12 | Nayyar Noor | Adsorption study of organic contaminants using modified adsorbents | University of Gujrat | 2016 |
| 13 | Zaghum Abbas | Adsorption of Azo Dyes using Activated Carbon from Leather Waste | University of Gujrat | 2017 |
| 14 | Sana Nawaz Bajwa | Development of Microemulsion Formulation for Encapsulation of Fluoroquinolone based Drug | University of Gujrat | 2017 |
| 15 | Usman Fareed | Synthesis and Biological Applications of Silver Nanoparticles | University of Gujrat | 2017 |
| 16 | Muhammad Yasir Saddique | Formulation and Structural Analysis of Microemulsion Containing Antibiotic Gatifloxacin | University of Gujrat | 2017 |
| 17 | Linta Rizwan | Preparation and Structural Insights of Microemulsion Containing Anticancer Drug Methotrexate | University of Gujrat | 2018 |
| 18 | Muniba Rafique | Synthesis and physicochemical characterization of fluorescent organic nanoparticles | University of Gujrat | 2019 |
| 19 | Ayesha Mujeed | Structural and probing dynamics of microemulsion formulation containing antimuscarinic drug mirabegron | University of Gujrat | 2019 |
| 20 | Amina Khalil | Probing of antipsychotic drug quetiapine fumarate assimilates in surfactant mediated assemblies | University of Gujrat | 2019 |
| 21 | Marryam Mahmood | Biological evaluation of surfactant capped metal nanoparticles | University of Gujrat | 2020 |
| 22 | Iqra | Characterization and Biological Evaluation of Brij-35 based Microemulsion Formulation Containing Fluoroquinolone Antibiotics | University of Gujrat | 2020 |
| 23 | Sehrish Zafar | Formulation and Structural Analysis of Ophthalmic Microemulsion Containing Antihypertensive Drug Brinzolamide | University of Education, Lahore | 2023 |
| 24 | Meher Un Nissa | Adsorptive Removal of Antibiotic Gatifloxacin from Aqueous Solution by Iron Oxide Nanoparticles | University of Education, Lahore | 2023 |

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|---|---|---|---|---|
| 25 | Laraib Khalid | Molecular Interaction of Antihyperglycemic Drug Ertugliflozin with Ionic Surfactants at Different pH Conditions | University of Education, Lahore | 2023 |
| 26 | Mehr Un Nisa | Adsorptive Removal of Valsartan from Aqueous Solution using Synthesized Zinc Oxide Nanoparticles | University of Education, Lahore | 2023 |
| 27 | Bilal Siddique | Machine Learning-Assisted Analysis, Prediction, and Designing of Organic Semiconductors as Efficient Photodetectors | University of Education, Lahore | 2024 |
| 28 | Misbah Nazeer | Development of Microemulsion-based Gel Formulation for Topical Delivery of Antiallergic Drug Ketotifen | University of Education, Lahore | 2024 |
| 29 | Rashida Batool | Chemical Vapor Deposition of Transition Metal Oxide Thin Film Electrocatalyst for Sustained Water Oxidation | University of Education, Lahore | 2024 |
| 30 | Amarah Sultan Rana | Formulation and Structural Analysis of Biocompatible Microemulsion Containing Gemcitabine | University of Education, Lahore | 2025 |
| 31 | Saba Shairwani | Development of Microemulsion Formulation for Encapsulation of Ketorolac Tromethamine | University of Education, Lahore | 2025 |
| 32 | Irtaza | Formulation of Co-Surfactant Free Microemulsified Gel for Topical Administration of Aceclofenac | University of Education, Lahore | 2025 |
| 33 | Tahira Ahmed | Machine Learning-Assisted Molecular Design and Virtual Screening of Potential Polymer Donors for Organic Solar Cells | University of Education, Lahore | 2025 |
| 34 | Hafiz Muhammad Yousuf | Synthesis and Biological Evaluation of Surfactant Capped Silver Nanoparticles | University of Education, Lahore | 2025 |
| 35 | Ahsan Mehmood | Molecular Interaction of Doxazosin with Ionic Surfactants | University of Education, Lahore | 2025 |
| 36 | Malik Abdul Wahab | Solubilization of Empagliflozin in Ionic Surfactant Solutions | University of Education, Lahore | 2025 |
| 37 | Azra Hayat | Formulation of Tween-Based Microemulsion for Enhanced Release Profile of Tramadol Hydrochloride | University of Education, Lahore | 2026 |
| 38 | Khalid Hameed | Investigation of Synergistic Effects of ZnO/CdS Heterostructure for the Photocatalytic Degradation of Alizarin Yellow | University of Education, Lahore | 2026 |
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| 2 | Beenish Ijaz | Physicochemical Investigations and Spectral Properties of Carmoisine in Surfactant Organized Media | University of Gujrat | 2013 |
| 3 | Nyla Shabeer | Biophysical Probing of Antibacterial Levofloxacin Interacting with Bovine Serum Albumin | University of Gujrat | 2014 |
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## References


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