

Prof. Fehmeeda Khatoon

Address: Department of Applied Sciences & Humanities, F/O Engineering & Technology,
Jamia Millia Islamia, New Delhi – 110025, INDIA

Contact No.: +91 9868603961, **e-mail:** fkhaton@jmi.ac.in

Educational Qualification:

Name of Degree	Institution	Year
Ph. D.	A.M.U.	1987
M.Phil.	A.M.U	1983
M.Sc.	A.M.U.	1981
B.Sc. (Hons)	A.M.U.	1979
Intermediate/XII	A.M.U.	1976
High School	A.M.U.	1975

Details of Work Experience :

S. No.	Organisation	Designation	Duration	Year / Month	Work Profile
1	Jamia Millia Islamia, New Delhi	Guest Faculty	Aug 2024 - Till Date	0/7	Teaching
2	Jamia Millia Islamia, New Delhi	Professor	Jan2023-May 2023	0/5	Research and Training
3	Jamia Millia Islamia, New Delhi	Associate Professor	July 2019-Jan2023	5	Research and Teaching
4	Jamia Millia Islamia, New Delhi	Assistant Professor	July 2007-July 2019	12	Teaching
Total Experience			18 Years		

Patents & Research Publications / Papers Presented in Conferences

Patents	Research Projects	No. of publications	Book/ Chapter	Ph.D	Conferences
0	3	41	6	7	26

Research Projects completed

1. **DBT, Govt. Of India of Rs. Rs. 63,37,400/- funded by** Department of Biotechnology, Ministry of Science & Technology, Government of India (**Co-Investigator**)
(Title: Development of Hydrogels based Smart Wound Dressings) (Duration 2008-2010)
2. **UGC Major Research Project of Rs. 7,43,300/- funded by University grant Commission(UGC) (Principal investigator)**
(Title: Phytochemical analysis of bioactive constituents of commonly used plants and development of antimicrobial activities thereof) (Duration 2013-2016).

3. SPARC (Indo-Australian Research Project) of Rs.81,33,998/- funded by Scheme for Promotion of Academic and Research Collaboration (SRARC), Govt. Of India (***Co-Investigator***)
(Title: Preparation of Nanocellulose & Nanocomposites as Multifunctional Materials derived from Biomass towards Sustainable Developments (***Duration 2019-2022***)).

Books

- An Introduction to Engineering Chemistry. Fehmeeda Kahtoon ISBN No. 978-81-93223-73-4. Publisher: Skyline Publications Pvt. (January2019)
- Fundamentals of Engineering and Environmental Chemistry. Fehmeeda Khatoon ISBN No. 978-81-93223-75-8. Publisher: Skyline Publications Pvt. (January2019)
- Introduction to Spectroscopy FA Digital Productions ISBN No. 978-93-92603-03-7 Publisher: FA Digital Productions (Nov 2021)
- Handbook of water treatment ISBN No. 978-81-947181-1-6 Publisher: Creative star Publications (March 2021)
- Principles of Chromatographic Techniques ISBN No. 978-93-92603-00-6. Publisher: FA Digital Productions (January 2022).
- Basics and applications of Nanotechnology. ISBN No. 978-93-92603-02-0. Publisher: F A Digital Productions. (June 2022)

Directed Thesis

1. Evaluation of green absorbent as a novel adsorbent for the removal of heavy metal.
2. Green Synthesis of Metal /Metal Oxide Nano Particles & Their Coating Properties (Shikha Sharma)
3. Phytochemical Investigation & Antimicrobial Activity of different plant Extracts (Mohd Sadiq Sheikh Zarger)
4. Preparation, Characterization & Antimicrobial Studies of Drug Loaded Polymer blend film (Mohammad Amir Qureshi)
5. In-vitro Antimicrobial Activity and Phytochemical Analysis of Different Plant Extracts. (Sheikh Imran Ahmad)
6. Antimicrobial Potential of Some Medicinal and Aromatic Plants (Mumtaz Jahan)
7. Molecular Designing of Conducting Polymers by Deliberate Modification in the Monomer/Polymer Matrix for Corrosion and EMI Shielding Applications.(Anoop Kumar S)

Best 10 Publications

1. Cultivation of aerobic granular biomass in continuous flow-intermittent decant type reactor fed with anaerobic effluent, Mohd Rayaz, Fehmeeda Khatoon, Abid Ali Khan, *Environ Prog Sustainable Energy*. 2023e14224. 2023 <https://doi.org/10.1002/ep.14224>.
2. Start-up of Aerobic Granular Biomass System: Fate of Organics and Nutrients Removal From Anaerobic Effluent, Mohd Rayaz, Mohd Aamir Khan, Abid Ali Khan, Fehmeeda Khatoon, *Waste and Biomass Valorization* 2023, <https://doi.org/10.1007/s12649-023-02198-1>

3. Anaerobic/Oxic/Anoxic Mode Sequencing Batch Reactor: Treatment Performance and Development of Aerobic Granular Sludge, M. Rayaz, Fehmeeda Khatoon and Abid Ali, *Oriental J. Of Chemistry*, 2023, Vol. 39, No.(3): 533-545
4. A review on remediation of dye adulteration system by ecologically innocuous biopolymers/natural gums-based composites *International Journal of biological Macromolecules*, 1-27, (10 Jan 2023)
5. *in vitro* Analysis of Citric Acid Crosslinked and Juglansregia Extract Loaded Hydrogel for Biomedical Applications, 1297-1302 (20 April 2022), Asian Journal of Chemistry.
6. Structural Characterization of Heterodinuclear ZnII-LnIII Complexes (Ln= Pr, Nd) with a Ring-Contracted H2valdien-Derived Schiff Base Ligand, 1-8 (2021), *Journal of Chemical Crystallography*
7. Chiral crystallization of a zinc (II) complex, 542-546 (2021), *Acta Crystallographica Section E: Crystallographic Communications*
8. Preliminary phytochemical screening and GC-MS Analysis of Methanolic Leaves extract of Glycyrrhizaglabra L and Malwasylvestris, 671-680 (9 May 2021), International Jorنال of Advanced Research (IJAR)
9. Preparation and characterization of chitosan-silver nanocomposite films and their antibacterial activity, Shikha Sharma, Fehmeeda Khatoon, 225-231 (2020), *J. of Advanced Scientific Research*
10. Different Types of Smart nanogels for targeted delivery, M. Amir Qureshi, **Fehmeeda Khatoon**, *J. Sci. Advan. Mat. And Dev.* 4(2019) 201-212. <https://doi.org/10.1016/j.jsamd.2019.04.004>.

I hereby declare that all the information mentioned above is true to the best of my knowledge.

Place: New Delhi

Date: 19th March 2025

(Prof.Fehmeeda Khatoon)