

CURRICULUM VITAE

Dr. ARSHI CHOUDHRY

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➤ Currently working as a Guest Faculty (Engineering Chemistry) in Department of Applied Sciences & Humanities, FET, Jamia Millia Islamia, New Delhi.

➤ **Educational Qualification:**

Course	Affiliation	Institution Attended	Year of Passing	Performance	Division
B.Sc.(H). (Chemistry)	University of Delhi	Zakir Husain Delhi College	2013	79.33 %	First
M.Sc. (Chemistry)	Jamia Millia Islamia, New Delhi	Department of Chemistry	2016	CGPA 7.94	First
Ph.D (Chemistry)	Jamia Millia Islamia, New Delhi	Department of Chemistry	2023	Awarded	First

Thesis Title: Modification of metal oxide nanoparticles for the removal of water pollutants from aqueous solution through adsorption.

➤ **Research Articles Publications:**

1. **Choudhry, A.,** Sharma, A., Khan, T.A., Chaudhry, S.A. (2021). Flax seeds based magnetic hybrid nanocomposite: An advance and sustainable material for water cleansing. Journal of Water Process Engineering 42, 102150. (IF 7.34)
2. **Choudhry, A.,** Sharma, A., Siddiqui, S.I., Ahamad, I., Md Sajid., Khan, T.A., Chaudhry, S.A. (2023). Origanum vulgare manganese ferrite nanocomposite: An advanced multifunctional hybrid material for dye remediation. Environmental Research 220, 115193. (IF 8.43)
3. Sharma, A., Mangla, D., **Choudhry, A.,** Md. Sajid., Chaudhry, S.A. (2022). Facile synthesis, physico-chemical studies of Ocimum sanctum magnetic nanocomposite and its adsorptive application against Methylene blue. Journal of Molecular Liquids 362, 119752. (IF 6.63)
4. Sharma, A., Rasheed, S., Mangla, D., **Choudhry, A.,** Shukla, S., Chaudhry, S.A. (2023). Cobalt Ferrite Incorporated Ocimum sanctum Nanocomposite Matrix as an Interface for

Adsorption of Organic Dyes: A Sustainable Alternative. Chemistry Select 8, e202203709. (IF 2.31).

5. Sharma, A., **Choudhry, A.**, Mangla, B., Chaudhry, S.A. (2023). Sustainable and efficient removal of cationic and neutral dyes from aqueous solution using nano-engineered CuFe_2O_4 /Peanut shell magnetic composite. Clean Technologies and Environmental Policy, 1-15.
6. Sajid, M., Sharma, A., **Choudhry, A.**, Chaudhry, S.A. (2023). Synthesis, characterization and potential application of functionalised binary metallic sulphide for water reclamation Colloids and Surfaces C: Environmental Aspects 1, 100011.
7. Zaidi, Z., Manchanda, A., Sharma, A., **Choudhry, A.**, Sajid, M., Khan, S.A., Khan, A., Chaudhry, S.A. (2023). Adsorptive removal of Methylene blue using fruit waste activated carbon and its binary metal oxide nanocomposite. Chemical Engineering Journal Advances, 16, 100571.

➤ **Book Chapters Publications:**

- **Arshi Choudhry**, Atul Sharma, Nusrat Tara, Geetanjali Rathi, Noufal Komby Abdulla, Md. Sajid, A.M. Khan, Saif Ali Chaudhry, 2021. Phytogenic plant based nanocomposites for water treatment. *In* Contamination of water; health risk assessment and treatment strategies. Ed(s): Arif Ahamad, Sharf Ilahi Siddiqui, Pardeep Singh, Academic Press, Elsevier. ISBN 9780128240588
- Atul Sharma, **Arshi Choudhry**, Geetanjali Rathi, Nusrat Tara, Noufal Komby Abdulla, Md. Sajid, Saif Ali Chaudhry, 2021. Ferrite based magnetic nanocomposites for wastewater treatment through adsorption. *In* Contamination of water; health risk assessment and treatment strategies. Ed(s): Arif Ahamad, Sharf Ilahi Siddiqui, Pardeep Singh, Academic Press, Elsevier. ISBN 9780128240588
- Geetanjali Rathi, **Arshi Choudhry**, Shoaib Khan, Atul Sharma, Nusrat Tara, Noufal Komby Abdullah, Sharf Ilahi Siddiqui, A.M. Khan, Saif Ali Chaudhry, 2021. Multifunctional organic-inorganic materials for water treatment. *In* Contamination of water; health risk assessment and treatment strategies. Ed(s): Arif Ahamad, Sharf Ilahi Siddiqui, Pardeep Singh, Academic Press, Elsevier. ISBN 9780128240588
- Nusrat Tara, Atul Sharma, **Arshi Choudhry**, Noufal Komby Abdulla, Geetanjali Rathi, A.M. Khan, Saif Ali Chaudhry, 2021. Graphene, graphene oxide and reduced graphene oxide based materials: A comparative adsorption performance. *In* Contamination of water; health risk assessment and treatment strategies. Ed(s): Arif Ahamad, Sharf Ilahi Siddiqui, Pardeep Singh, Academic Press, Elsevier. ISBN 9780128240588.

➤ **Detail of patents:**

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Country	Status
1.	SOLAR WATER DISTILLER	UNIVERSITY OF DELHI (ARSHI CHOUDHARY + Research Team of 11 members of Zakir Husain Delhi College, DU)	383711	4-12-2021	Intellectual Property, India	Granted
2.	A SYSTEM AND PROCESS FOR SYNTHESIS AND CHARACTERIZATION OF BIODEGRADABLE POLYMER NANOCOMPOSITE FOR ENERGY STORAGE	Dr. Mohammad Faheem Ansari Arshi Choudhry Dr. Ravi Kant	540673	03-06-2024	Intellectual Property, India	Granted

➤ **Conferences/workshops:**

- Attended workshop on Advanced Characterization Techniques conducted by University Science Instrumentation centre (USIC) under the auspices of DST, STUTI.
- Presented oral presentation in National Conference on “Nano-polysaccharide for Environmental Sustainability” in the Department of Chemistry, Jamia Millia Islamia (A Central University) New Delhi, India (25 September 2019)
- Participated and delivered Oral Presentation in the International E-Conference on Sustainable and Futuristic Materials (SFM-2021) held during 29-30th November, 2021 organized by International Research Center and Department of Chemistry, Kalasalingam Academy of Research and Education, Krishnankoil, Department of Chemistry, J. M. Patel Arts, Commerce & Science College, Bhandara, and Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur.
- Participated and presented paper in International Conference on Advances in Chemical Sciences and Nanocomposites- ACSN 2022 jointly organized by Zakir Husain Delhi College & ISAS on 1st & 2nd April, 2022.

- **Project:** Innovation Project Awarded by University of Delhi "ZH-101" Title: Feasibility studies to improve quality of living and development of low-cost efficient techniques to purify potable water: case study with reference to villages of Ajmer (Rajasthan)

Role: Students Researcher

Duration: 12 months

This project got Patent by Intellectual Property India with Patent No. 383711, Application No. 472/DEL/2013.

➤ **Academic Achievements:**

1. IIT GATE (Chemistry) 2020 Qualified.
2. IIT GATE (Chemistry) 2018 Qualified.
3. IIT JAM (Chemistry) 2014 Qualified with AIR 430.
4. B.Sc.(H).Chemistry 2013 College Topper.
5. Worked as a student Researcher in Innovation project sanctioned by University of Delhi in 2012-2013.
6. Awarded by S.P. Suri Memorial Award for securing First Position in the college in B.Sc.(H) Chemistry 3rd year Examination 2013

➤ **Computer Skills:** Working knowledge of Computer Applications like MS Office, Chem Draw, Scidirect, Sci-hub, origin, etc.

➤ **Languages Known:** English, Hindi and Urdu

Arshi Choudhry