



Dr. Mehraj Ud Din Sheikh

Ph. D Chemistry

“Looking to join a progressive organization/Institute, with an excellent work culture, that has the need for young talent and offers opportunities for advancement in the field of science. Enthusiastic, responsible, able to work independently using initiative, and as part of a team with a positive attitude. Proficient in research with innovative and inspiring ideas”

EDUCATION

- 2012-2017 **Ph.D., Chemistry**, Dr. Harisingh Gour University, Sagar, M.P., India.
Thesis title: “Synthesis And Characterization of Nanoporous Materials of some Metals and Surfactants”
- 2009-2011 **M.Sc.**, Jiwaji University, Gwalior, M.P. India.
Percentage-72.28. Chemistry
- 2005-2008 **B.Sc.**, University of Kashmir, J & K, India.
Percentage-64.22. English, Chemistry, Botany & Zoology
- 2003-2004 **12th**, JK BOSE, J & K, India.
Percentage-56.5. Higher Secondary Part Two
- 2002 **10th**, JK BOSE, J & K, India.
Percentage-77.0 Secondary School Examination

WORK EXPERIENCE

Jul 2012 – May 2017 **Research cum teaching fellow**

Dr. Harisingh Gour University, Department of Chemistry
Sagar, M.P., India.

National Postdoc. Fellow (Sep. 2017-Aug. 2019) CPMU JNCASR BANGALORE KARNATAKA INDIA.

Teaching Experience and COURSES COORDINATED

Three years College teaching experience

Physical Chemistry

M. Sc, B.Sc 1st, 2nd and 3rd Year

Lab Courses (Inorganic Chemistry, Physical chemistry and General Chemistry) M. Sc,

B. Sc 1st and 3rd Year

RESEARCH INTEREST

Synthesis of nanoporous materials for Heterogenous and Photocatalysis, Fabrication of nanoporous material modified sensors/biosensors for Heavy metal, Biomolecule, Drug and Environmental Sample analysis, Biological Sample analysis. Fabrication of gas sensors etc., nanomaterial synthesis, superconductivity.

TEACHING INTEREST

Nanochemistry, Physical Chemistry, Electrochemistry, Spectroscopy and Inorganic Chemistry

AWARDS AND GRANTS

Jul 2012-Feb 2017 Scholarship: Central University Research fellowship (UGC)

Feb 2015, 2016 Award: M.P. Young Scientist Fellowship by MP COST

Sep.2017-Aug 2019 National Postdoctoral Fellowship

SKILLS& ACTIVITIES

Research Skills Method modification for porous material synthesis, Heterogenous catalysis, Photocatalysis, Electrochemistry, Voltammetry, Nanoporous material based sensors, Porous Electrodes, Nanochemistry, Supercapacitors .

Instrumental Skills Metrohm CV Ion Analyzer, Metrohm PGSTAT Autolab, Anton Paar Rheometer, Bruker D8-Advance Powder X-ray Diffractometer, Shimadzu FTIR, Quantochrome BET, Lyophilizer, High temperature programmable ovens and furnaces, UV-visible spectrophotometer, Photoluminescence, DRS, sonicator etc.

Computer Skills MS-Word, MS-PowerPoint, MS-Outlook, MS-Excel, MS-Origin, MS-DOS, Internet surfing, Data Processing software.

Scientific Memberships Indian Science Congress Association (ISCA)

CONFERENCES, WORKSHOPS, SEMINARS ATTENDED

- Participated in “National Conference on Solid State Chemistry and Allied Areas”^{8th} ISCAS Conference held at Dr. H.S. Gour University, Sagar, February 15-17, 2013
- Participated in “Springer User Awareness Program” in Dr. Harisingh Gour University, Sagar, December 18th, 2013
- Poster Presentation in International Conference on Functional Materials (ICFM-5-7 Feb. 2014) IIT-Kharagpur-India.
- Participated in One Day Workshop on “NMR techniques and its applications in Physics, Chemistry and Biology” at Dr. H. S. Gour University, Sagar, on 16th February 2014
- Paper presented in “102th Indian Science Congress, 3-7 January-2015” held at University of Mumbai, Mumbai.
- Oral Presentation in 30th M.P. Young Scientist Congress, 28 Feb – 1 March – 2015.
- Poster presentation in “National symposium on Horizons of Light in Molecules, Materials and Daily Life” at Department of Chemistry, Dr. H. S. Gour University, Sagar, M.P. during Dec 18-19, 2015.
- Paper presented in “103th Indian Science Congress, 3-7 January-2016” held at University of Mysore, Mysore.
- Oral Presentation in 31th M.P. Young Scientist Congress, 28 Feb – 1 March – 2016.
- Oral Presentation in “104th Indian Science Congress, 3-7 January-2017” held at University of SV University, Tirupati.
- Participated in the International Webinar on Empowering Diversity in Science organized by Department of Chemistry, Kamla Nehru Mahavidalya Nagpur and Homi Bhaba Centre for Science Education (TIFR) Mumbai.
- Virtual international conference on emerging research trends in chemical sciences (ERTCS-2020)

RESEARCH PAPERS IN PEER REVIEWED CITED JOURNALS

1. **M. U. D. Sheikh**, G. A. Naikoo, Molly Thomas, M. Bano, F. Khan, *J. Sol Gel Sci. Technol.* 2015, 76, 572–581
2. **M. U. D. Sheikh**, G. A. Naikoo, M. Thomas, M. Bano and F. Khan, *New J.Chem.*, 2016, 40, 5483
3. **M. U. D. Sheikh**, G. A. Naikoo, M. Thomas, M. Bano , D.Ahirwar, U.J.Pandit and F. Khan, *RSC Adv.*, 2016, 6, 42807.
4. **M. U. D. Sheikh**, U. J.Pandit, G. A. Naikoo, Molly Thomas, M. Bano, F. Khan, Fabrication of Co₃O₄ nanostructures for supercapacitors and photocatalysis. *ChemSelect-Wiley*, 2017, **30**, 9726-9735
5. G. A. Naikoo, **M. U. D. Sheikh**, Development of Highly Efficient NiO based Composite Materials for Ultra-Sensitive Glucose Sensors Non Enzymatic Glucose Sensors, DOI:10.1109/ICST46873.2019.9047722, Conference: 2019 13th International Conference on Sensing Technology (ICST)
6. G. A. Naikoo, Molly Thomas, **M. U. D. Sheikh**, F. Khan, *J. Sol Gel Sci. Technol.* 2015, 76, 599–607.
7. G. A. Naikoo, Molly Thomas, Mohd. A. Ganaie, **M. U. D. Sheikh**, M. Bano, I. U. Hassan, F. Khan, *J. Saudi Chem. Soc.* 2015 doi:10.1016/j.jscs.2015.12.002.

8. G. A. Naikoo, R. A. Dar, Molly Thomas, **M. U. D. Sheikh**, F. Khan, *J. Mater. Sci.: Mater. Electron.* 2015, 26, 2403–2410.
9. Molly Thomas, G. A. Naikoo, **M. U. D. Sheikh**, M. Bano, F. Khan, *New J. Chem.*, 2015, 39, 9761-9771.
10. Molly Thomas, G. A. Naikoo, **M. U. D. Sheikh**, M. Bano, F. Khan, *React. Funct. Polym.* : 10.1016/j.reactfunctpolym.2016.05.011
11. Molly Thomas, G. A. Naikoo, **M. U. D. Sheikh**, M. Bano, F. Khan, *Journal of Photochemistry and Photobiology A: Chemistry* 327 (2016) 33–43 .
12. M. Bano, D. Ahirwar, M. Thomas, G. A. Naikoo, **M. U. D. Sheikh** and F. Khan, *New J. Chem.*, 2016,40, 6787-6795 .
13. M. Bano, D. Ahirwar, M. Thomas, **M. U. D. Sheikh** and F. Khan, *Journal of Solid State Chemistry*,**248**, 40–50
14. Molly Thomas, **M. U. D. Sheikh**, D. Ahirwar, M. Bano, F. Khan, *J. of Colloid and Inter. Sci.*, DOI: 10.1016/j.jcis.2017.05.051.
15. Molly Thomas, T. S.Natrajan, **M. U. D. Sheikh**, D. Ahirwar, M. Bano, F. Khan, *Journal of Photochemistry and Photobiology A: Chemistry* , **346**, (2017), 113.
16. U. J. Pandit, G. A. Naikoo **M. U. D. Sheikh**, G. A. Khan, K.K. Raj, S.N.Limaye, *Journal of Pharmaceutical Analysis, Journal of Pharmaceutical Analysis*.
17. D. Ahirwar, M. Bano, M. Thomas, I. Khan, **M. U. D. Sheikh** and F. Khan, *J. Mater. Sci.: Mater. Electron.*,2018, 29, 5768-5781.
18. G. A Khan¹, G. A. Naikoo, J. A. War, U. J. Pandit, **M. U. D. Sheikh**, I. Khan and R. Das, *Der Pharma Chemica*, 2018, 10, 118-127.
19. D. Ahirwar, M. Bano, I. Khan, S. S. Gound, **M. U. D. Sheikh**, R. Mondal , F. Khan, Facile synthesis of macroporous Ag and CuO monoliths as an efficient nonenzymatic electrochemical sensor and antimicrobial agent, *Journal of Solid State Chemistry*, 2019, 273, 233-242
20. A. Chakravarty, I. Ahmad, P. Singh, **M. U. D. Sheikh**, S. Sagadevan and S. Ikram, Green synthesis of silver nanoparticles using fruits extracts of *Syzygiumcumini* and their Bioactivity, *Chemical Physics Letters* 795, 139493,2022
21. Metal Oxides for photocatalytic dye oxidation, **M.U.D. Sheikh**, Bibek, Eswaramoorthy, Under communication.
22. Carbon and metal oxide modified carbon for dye adsorption. **M.U.D.Sheikh**, Eswaramoorthy, Writing.

LANGUAGES

Kashmiri	Mother tongue
Hindi	Excellent
English	Excellent
Urdu	Excellent

INTRESTS

Trekking, Swimming, Volleyball, Cooking, Cricket, Travelling.

PERSONAL DETAILS

<i>Name</i>	Mehraj Ud Din Sheikh
<i>DOB</i>	5 th December, 1986
<i>Permanent Address</i>	Uthoora, Pulwama Dist. Pulwama, J & K, India-192301
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<i>Skype ID</i>	Mehraj Sheikh

REFERENCE

1. Dr. Gowhar Ahmad Naikoo
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2. Dr Mohd Anis Ganaie
Assistant Professor
Department of Chemistry
Higher Education Jammu and Kashmir,

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3. Prof. Farid Khan

Professor of Chemistry

Department of Chemistry,

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