Dr. MD FAHIMUL HASSAN

Nationality: Indian

Mobile: +91 9897669328

E-mail: fahimulh@gmail.com

Current Position: Assistant Professor (Guest)

Department of chemistry

C M Science College, LNMU Darbhanga

Academic

Ph.D. (Chemistry) Degree Awarded (2015) Aligarh Muslim University, Aligarh

Title of Ph.D. Thesis: *"Preparation and Characterization of Fatty Acid Derived Products"*

CSIR-NET (Chemical Sciences) (June 2008) and (December 2008)

M.Sc 1st Div (2006) L. N.M.U, Bihar

B.Sc 1st Div (2003) L. N.M.U, Bihar

Research Interests

- Synthesis of heterocyclic derivatives of fatty acids
- Study on interaction of organic compounds with biomolecules
- Organic Chemistry
- Heterocyclic Chemistry
- Nanotechnology

Teaching Experience

1) Assistant Professor (2017-2018)

   Department of Chemistry, Ranchi University, Jharkhand

2) Assistant Professor (Guest) (Jan 2019- till date)

   Department of Chemistry, C.M Science College, LNMU

Book Chapter: Chemistry of Long Chain α, β -Unsaturated Fatty Acid and Reactions Thereof, Abdul Rauf and Mohammad F. Hassan [Academic Press and AOCS Press, 2017] (ISBN : 978-0-12-809521-8, eBook ISBN:9780128095447)

Publications

1. Mohammad F. Hassan, Abdul Rauf, Synthesis and Characterization of Nanoarchitectures from Fatty Acid Derivatives of 2,6-Diaminopyridine and 2-Aminopyridine, *J Nanostruct. Chem.* 2014, 4, 83-93. [Springer] ISSN: 2193-88.
2. Mohammad F. Hassan, Abdul Rauf, Asif Sherwani, Mohammad Owais,,Synthesis and *in vitro* Biological Evaluation of 1,3,4-Oxadiazole-2(3H)-one and Tetrahydropyridazine-3,6-dione Derivatives of Fatty Acids, *Scientia Pharmaceutica* 2015, 83, 429-443 [The Austrian Journal of Pharmaceutical Sciences] ISSN: 0036-8709.
3. Mohammad F. Hassan, Abdul Rauf, Synthesis and Multi-spectroscopic DNA Binding Study of 1,3,4-Oxadiazole and 1,3,4-Thiadiazole Derivatives of Fatty Acid, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 2016, 153, 510-516 [Elsevier] ISSN: 1386-1425.
4. Mohammad F. Hassan, Abdul Rauf, Synthesis and study on the binding of thiazol-2(3H)-ylidine derivative with human serum albumin using spectroscopic and molecular docking methods, *Luminescence*. 2016, 1-10 [John Wiley & Sons] ISSN: 1522-7243
5. Mohd Umar Khan, Mohammad F. Hassan, Abdul Rauf, Determination of trans Fat in Selected Fast Food Products and Hydrogenated Fats of India Using Attenuated Total Reflection Fourier Transform Infrared (ATR-FTIR) Spectroscopy, *Journal of Oleo Science* 2017, 66, 251-257 [Japan Oil Chemists' Society] ISSN: 1347-3352.
6. Mohd Umar Khan, Mohammad Fahimul Hassan and Abdul Rauf, Effect of temperature on milk fats of cow, buffalo, and goat used for frying local food products, Food Quality and Safety, 2018, 2, 51–57 [Oxford University Press]
7. I Ahmad, Md Fahimul Hassan, Waqar A Siddiqui, Toxicological and Life-Cycle Perspectives on Waste-Derived Nanoparticles, Journal of Materials Science and Chemical Engineering, 2024, 12, 43-68, ISSN: 2327-6053.
8. I Ahmad, Md Fahimul Hassan, Study of Magnetic Nanoparticles (Fe2O3@SiO2) for recovery of metal ions from FCC dust by Induced Crystallisation Method, Shodh Samalochan, 2024,15-22, ISSN: 2348-5639.
9. I Ahmad, Md Fahimul Hassan, Waqar A Siddiqui, Synthesis of Molecularly Imprinted Magnetite Nanomaterials in the elimination of heavy metals from aqueous solution, Journal of Advance and Future Research, 2025, 3, 97-115. ISSN:2984-889X

International and national Conferences/Seminar

1. U.G.C Sponsored National Seminar, 2012, L.N.M.U., Bihar. Title: “Nano-material and Nano-antenna”.
2. U.G.C Sponsored National Seminar, 2012, L.N.M.U., Bihar. Title: “Emerging trends of dielectric resonator antenna: Its past and future”.
3. International Conference on Chemistry: Frontiers and Challenges, 2013, AMU, Aligarh (Poster). Title: “Synthesis and characterization of novel series of long chain derivatives of 2-substituted-3H-phthalazin-1,4-dione”.
4. National Symposium in Chemistry, 2014, AMU, Aligarh (Poster). Title: “Synthesis and biological screening of novel fatty acid chain substituted five and six membered heteroycles: Structure-activity relationship studies”
5. International Conference on Nanoscience and Nanotechnology, 2014, AMU, Aligarh (Poster). Title: “Synthesis and characterization of 2-Aminopyridine derivative as Lipid nanosheets”.
6. 16^{th} CRSI National Symposium in Chemistry (NSC-16), 2014, IIT-Bombay, Mumbai (Poster). Title: “Synthesis and Characterization of novel series of fatty acid chain substituted pyrazoline derivatives”.
7. International Seminar on New Frontiers In Chemical Sciences, 2022, C M Science College, LNMU Bihar (Oral). Title: “Synthesis and In Vitro cytotoxity Activity of Tetrahydropyridazine 3,6-dione derivartives of Fatty Acids”.
8. International Seminar on New Frontiers In Chemical Sciences, 2025, C M Science College, LNMU Bihar (Oral). Title: “1.3.4-oxadiazole-2-one derivatives and In Vitro Biological Evaluation”.
9. National Seminar on Recent Trends in Condensed Matter Physics 2026 M.R.M College LNMU.
10. International Conference Multidisciplinary Aspect of Chemical Sciences 2026 P.G.Department LNMU Bihar (Oral). Title: “2,6-diamino Pyridine derivatives and Evaluation of Biological activities”.