

Shaleen Sharma

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Hardworking and motivated student seeking a job in the R&D lab of a reputed organization. My goal is to gain hands-on experience in using analytical instrumentations, including HPLC, NMR, AAS, XRD, AFM, etc. and to use my creativity and knowledge in synthesizing chemically important compounds and assess their utility as catalysts, coatings and lubricants.

EDUCATION

JAMIA MILLIA ISLAMIA

MSc Chemistry (specialization in Inorganic Chemistry)
(Expected graduation July 2022)

IGNOU

BSc Chemistry (Dec 2019)
79%

ADDITIONAL SKILLS

- Separation and purification techniques
- Proficient in using UV-Vis spectrophotometer (Analytik Jena Specord-250)
- Proficient in Fluorescence spectroscopy (Cary Eclipse Spectrofluorometer)
- Knowledge of IR, MS, NMR spectroscopy
- Quantitative and Qualitative analysis
- Synthesis and characterization of metal complexes, polymers and ionic liquids
- Good Verbal and written communication skills
- Proficient in MS Office, Originlab

CERTIFICATIONS

- Transition Metal Organometallics in catalysis and biology (**Course Topper**)
- Transition metal Organometallics: Principles to applications (**Course Topper**)
- Analytical Chemistry
- Introduction to Polymer Science
- Processing of polymers and polymer composites
- Metal mediated synthesis

ACHIEVEMENTS

- Qualified Graduate Aptitude Test In Engineering (GATE)- Chemistry (CY) 2022
- Qualified written exam for teaching associates at Azim Premji Foundation
- Completed Soft Skills training programme conducted by NPTEL

PROJECT

- Preparation, Characterization and Catalytic Application of Polymer Anchored Metal Complexes
- A review on Metallopolymers and their versatile applications

RESEARCH INTERESTS

- Synthesis of metal complexes, their Characterization and application as catalysts in polymerization of olefins.
- Synthesis and characterization of vegetable oil based water borne polyurethane dispersions and their application as antifouling coatings
- Tribological behavior of vegetable oil-based lubricants with nanoparticles of oxides