

Faculty Profile



Name: Dr. SATHISH KUMAR KURAPATI

Designation: Assistant Professor

Teaching Areas: Engineering Chemistry, Inorganic Chemistry, Environmental Sciences, Organometallic Chemistry, Medicinal Inorganic Chemistry.

Research Interests: Synthesis, characterization, and Catalytic activities of Oxo-Metal complexes. Electrocatalytic water oxidation and reduction using Metal-Organic Frameworks and Polyoxometalates as electrocatalysts

Education:

- PhD (Chemistry), University of Hyderabad, Hyderabad, 2015
- M.Sc. (Inorganic Chemistry), Osmania University, Hyderabad, 2008
- B.Sc., Osmania University, Hyderabad, 2004

Research / Selected Publications:

No. of publications: 18

1. The Role of Nanomaterials in Radioactive Waste Reduction and Decontamination: A Concise Review” Yadaiah S., **Sathish Kumar Kurapati***, *Lecture Notes in Mechanical Engineering*, 2023. (Springer)
2. "Transmetalation: A Post-Synthetic Modification Tool for Functional Metal-Organic Framework Materials., **Sathish Kumar Kurapati***, Recent Advances in Materials Processing and Characterization., *Lecture Notes in Mechanical Engineering*, 2023, 15-21. Springer, Singapore. <https://doi.org/10.1007/978-981-19-5347-7>.
3. Nanomaterials and Nanostructures in Additive Manufacturing: Properties, Applications, and Technological Challenges, **Sathish Kumar Kurapati**, N. Mahendar Reddy, R Sujithra, K. Ramesh, Gubbala V. Ramesh, D. Saritha*, *Nanotechnology Based Additive Manufacturing: Product Design, Properties, and Applications*, **Publisher:** Wiley Online. (Book Chapter)
4. “W^{VI}-OH functionality on polyoxometalates for water reduction to molecular hydrogen.” Sateesh Mulkapuri, Athira Ravi, Subhabrata Mukhopadhyay, **Sathish Kumar Kurapati**, Vinaya Sibi, Samar K. Das*, *Inorganic Chemistry Frontiers*, 2022, <https://doi.org/10.1039/D2QI00421F>
5. “Barrel-Shaped-Polyoxometalates Exhibiting Electrocatalytic Water Reduction at Neutral pH: A Synergy Effect.” Sateesh Mulkapuri, Athira Ravi, Rajendar Nasani, **Sathish Kumar Kurapati**, Samar K. Das*. *Inorganic Chemistry*, 2022, <https://doi.org/10.1021/acs.inorgchem.2c01811>.
6. "Discovery of (±)-3-(1*H*-pyrazole-1-yl)-6,7-dihydro-5*H*-[1,2,4] triazolo[3,4-*b*][1,3,4] thiadiazine derivatives with promising in vitro anti coronavirus and antitumoral activity." Parameshwara Chary Jilloju, Leentje Persoons, **Sathish Kumar Kurapati**, Dominique Schols, Steven De Jonghe, Dirk Daelemans, Rajeswar Rao Vedula.* *Molecular Diversity*, 2021, <https://doi.org/10.1007/s11030-021-10258-8>.