

SURESHKUMAR YATIRAJULA

Assistant Professor

Department of Chemical Engineering

Indian Institute of Technology (Indian School of Mines), Dhanbad

Dhanbad – 826004, Jharkhand, India



e-mail: suresh@iitism.ac.in, suresh.828@gmail.com

Phone: +91-326 -2235906 (Office)

Mobile: + 91-9471191341

Address: Block 10, Flat 138, New Type IV 150 Quarters, IIT (ISM)

Dhanbad campus, Dhanbad - 826004, Jharkhand, India

List of Publications

1. Indrajit Pal, Nitesh Kumar Pathak, Santanu Majumdar, Gerald Lepcha, Amiya Dey, **Suresh Kumar Yatirajula**, Umakanta Tripathy, and Biswajit Dey, Solvent-Driven Variations of Third-Order Nonlinear Thermo-Optical Features of Glutaric Acid-Directed Self-Healing Supramolecular Ni(II) Metallogels, *Langmuir*, Volume 39, Pages 16584-16595, ACS 2023.
2. Indrajit Pal, Santanu Majumdar, Gerald Lepcha, Kazi Tawsif Ahmed, **Suresh Kumar Yatirajula**, Subhratanu Bhattacharya, Rudra Chakravarti, Bireswar Bhattacharya, Swadesh Ranjan Biswas, and Biswajit Dey, Exploration of Variable Solvent Directed Self-Healable Supramolecular M(II)-Metallogels (M = Co, Ni, Zn) of Azelaic Acid: Investigating Temperature-Dependent Ion Conductivity and Antibacterial Efficiency, *ACS Applied Bio Materials*, Volume 6, Page 5442–5457, ACS 2023
3. Jinesh Machale, **Suresh Kumar Yatirajula**, and Vinod Kumar Saxena, Implementation of Xanthan Gum–Polyacrylamide Blend, Surfactant, and Alkali Assembly for Enhanced Oil Recovery: A Rheological and Phase Behavior Analyses Approach, *Petroleum Science and Technology*, 1-12, Taylor& Francis 2022.
4. Santosh Routu, Jagan Mohan Rao Malla, **Suresh Kumar Yatirajula**, Nageswara Rao Uppala Effect of hydrogen coverage on elastic and optical properties of silicene: a first-principle study *Journal of Molecular Modeling*, Volume 28, Springer 2022.
5. Sweta Sarangi, **Suresh Kumar Yatirajula**., and Vinod Kumar Saxena Evaluation of linear and nonlinear rheology of micro fibrillated cellulose, *Journal of Coatings Technology and Research*, volume 18, pages1401–1411, Springer 2021.
6. **Suresh Kumar Yatirajula**, Anuj Srivastava, Vinod Kumar Saxena, and Jagadeeshwar Kodavaty. Flow behavior analysis of Chlorella Vulgaris microalgal biomass, *Heliyon*, e01845, Elsevier 2019.

Conferences Proceedings

1. Praveen Kumar Jha, Vinod Kumar Saxena, **Suresh Kumar Yatirajula**, Nikhil Nambiar, Effect of Particle Size Distribution (PSD) on the Rheology of Coal Water Slurry (CWS), *International Journal of Chemical Engineering and Processing*
2. Ankit Jain, Vivek Bajpai and **Suresh Kumar Yatirajula**, Fabrication and Characterization of Conical Micro Dimple Textures on Ti6Al4V for Higher Biocompatibility *ASME 2020 15th International Manufacturing Science and Engineering Conference*

3. Rishi Jain, Shreyash Yadav, Sachin Bisht, Jagadeeshwar Kodavaty, **Suresh Kumar Yatirajula**, Effect of concentration, size, granularity, shear time and temperature on rheological properties of coal water slurries, IOP Conference Series: Materials Science and Engineering
4. R Santosh, U Nageswara Rao, M Rao, **Suresh Kumar Yathirajula**, V Kumar, The Anisotropy and Birefringence of Monolayer WS Semiconductor, Micro and Nanoelectronics Devices, Circuits and Systems
5. Sweta Sarangi, **Suresh Kumar Yatirajula**, Microfibrillated Cellulose Based Renewable Smart Material: Preparation and Rheological Studies of Suspension International Journal of Research In Science & Engineering, CHEMCON Special Issue: March 2018
6. Praveen Kumar Jha, Vinod Kumar Saxena, **Suresh Kumar Yatirajula**, Ayanagounder Kumar, Impact of Natural Polymer (Xanthan Gum) and Bentonite Clay on the Development of Oil-In-Water (O/W) Emulsion Drilling Fluids, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075 (Online), Volume-10 Issue-10, August 2021

Book Chapter

1. Jagadeeshwar Kodavaty, **Suresh Kumar Yatirajula**, Abhishek Kumar Gupta, and Rejeswara Reddy Erva, **Hydrogels** Fundamentals to Advanced Energy Applications, Characteristics of Hydrogels, Page 83-100 Edition 1st September CRC Press 2023.