

Faculty Profile

Name: Dr. Gourisankhar Brahma
Designation: Associate Professor
Teaching Areas: Engineering Thermodynamics; Chemistry; Material Science; Environmental Science
Research Interests: Study of kinetics and mechanism of reactions involving transition metal complexes with bio molecules and study of their antioxidant, anti-inflammatory, anti-tumour, and anti-carcinogenic activities ; Study of thermal properties of nano-scale compounds, composites and complexes of transition metals like Nickel (Ni), Cobalt (Co) and Iron (Fe)
Education: Ph.D., Utkal University, Bhubaneswar, Orissa
M. Sc & M.Phil., Utkal University, Bhubaneswar, Orissa



Professional Experience: 15 years of teaching & 1 year of post Ph.D. research experience

1. **2015 to till date** : Associate Professor, FST, IFHE, Hyderabad, Telangana
2. **2004 - 2015** : Assistant Professor, FST, IFHE, Hyderabad, Telangana
3. **2003 - 2004** : Lecturer, Biju Pattnayak University of Technology, Rourkela, Odisha
4. **2002 - 2003** : Research Associate (**CSIR**) at Utkal University & IACS Kolkata

Research / Selected Publications:

1. Synthesis and characterization of sensible thermal heat storage mixture containing phosphate compound of cobalt and sodium., Swapna Samala, **Gouri Sankhar Brahma** and Trilochan Swain., **Elsevier, Solar Energy**, 177, pp: 612-619 (2019) (**Impact factor = 4.52**)
2. Synthesis, Characterization, and Thermal Behavior of $Ni_3(PO_4)_2 \cdot 8H_2O \cdot Na_3PO_4 \cdot 3.5H_2O \cdot 0.75Na_2SO_4$., **Gouri Sankhar Brahma** and Trilochan Swain., **Springer, Journal of Electronic Materials.**, vol-47, No-5, pp-2817-2823 (2018) (**Impact factor = 2.566**)
3. Synthesis, Characterization and Thermal Property of Phosphate and Sulfate Mixtures., **Gouri Sankhar Brahma** and Trilochan Swain., **Springer, J Inorg Organomet Polym& Mat.** Vol-27, issue-1, pp-131-142 (2017) (**Impact factor = 1.52**)
4. Kinetics and Mechanism of the Reaction of Dichlorotetraqua- ruthenium(III) and Thiols., SupravaNayak, **Gouri S Brahma** and K Venugopal Reddy., **CSIRO Publishing, Australian. J. Chem**, 65, pp: 113-120 (2012) (**Impact factor =1.427**)
5. Oxidation of glyoxylic acid by a mononuclear manganese(IV) complex of 1,8-bis(2- hydroxybenzamido)-3,6-diazaoctane: A kinetics and mechanistic study ., Suprava Nayak, **Gouri S Brahma**, K Venugopal Reddy & K Veera Reddy, **Elsevier, Polyhedron**, 30(10), pp- 1637-1645 (2011) (**Impact factor = 2.607**)