

PERSONAL DETAILS

Name	Dr. Satish Samantaray
Designation	Assistant Professor of Chemistry
Address	Department of Chemistry, SKCG Autonomous College, Paralakhemundi
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EDUCATIONAL QUALIFICATIONS

DEGREE	INSTITUTION/UNIVERSITY	YEAR
Ph.D. (Chemistry)	National Institute of Technology, Rourkela.	2012
M.Sc. (Chemistry)	National Institute of Technology, Rourkela.	2008

CAREER PROFILE

- ❖ Presently working as Assistant Professor of Chemistry at SKCG Autonomous College, Paralakhemundi since 29th August 2023.

- ❖ Working as Lecturer (Adhoc) in Chemistry at Binayak Acharya Govt. College from 1st March 2019 to 28th August 2023.
- ❖ Working as Lecturer (Adhoc) in Chemistry at Govt. Degree College, Koraput from 22nd January 2015 to 29th February 2019.
- ❖ Working as Assistant Professor in Chemistry at Temple City Institute of Technology, Bhubaneswar, Odisha from June 2012-December 2014.
- ❖ Teaching assistant in undergraduate and postgraduate chemistry courses at NIT, Rourkela as a Research Fellow (laboratory experiments and conducting examinations).

AREAS OF INTEREST / SPECIALIZATION

Fields of Research: Heterogeneous Catalysis and Materials Chemistry

- Synthesis of single and multi-component oxides by known as well as novel methods.
- Synthesis and characterization of pillared clays.
- Structural and surface characterisation of catalyst systems.
- Preparation of nanosize bimetallic and oxide particles
- Surface property evaluation of porous materials for catalytic applications.
- Acid-base and redox catalysis.

Instruments and softwares used during doctoral research:

- ✓ UV-vis-DRS, FTIR, XRD, TGA, DSC, DTA, Sorptometer, SEM-EDX, TEM, NMR, GC-MS, CHNS Analyzer.
- ✓ Expertise in various chemistry related softwares.

ASSOCIATION WITH PROFESSIONAL BODIES/COMMITTEES

Life member of Odisha Chemical Society.

PUBLICATION PROFILE

BOOKS/MONOGRAPHS (AUTHORED/EDITED)

CHAPTERS (AUTHORED/EDITED)

RESEARCH PAPERS PUBLISHED IN REFEREED/PEER REVIEWED JOURNALS

1. **Satish Samantaray**, P. Kar, G. Hota and B.G. Mishra, Sulfate Grafted Iron Stabilized Zirconia Nanoparticles as Efficient Heterogenous Catalyst for Solvent free Synthesis of Xanthenediones under Microwave Irradiation, *Ind. Eng. Chem. Res.*, 52 (2013) 5862–5870.
2. P. Kar, **Satish Samantaray** and B.G. Mishra, Catalytic application of chromia-pillared montmorillonite towards environmentally benign synthesis of octahydroxanthenes, *Reac. Kinet. Mech. Cat.* 108 (2013) 241–251.
3. **Satish Samantaray**, D.K. Pradhan, G. Hota and B.G. Mishra, Catalytic application of CeO₂-CaO nanocomposite oxide synthesized using amorphous citrate process towards the aqueous phase one pot synthesis of 2-amino-2-chromenes, *Chem. Eng. J.* 193-194 (2012) 1-9.
4. **Satish Samantaray** and B.G. Mishra, Combustion synthesis, characterization and catalytic application of MoO₃-ZrO₂ nanocomposite oxide towards one pot synthesis of octahydroquinazolinones, *J. Mol. Catal. A: Chem.* 339 (2011) 92-98.

5. **Satish Samantaray**, G. Hota and B.G. Mishra, Physicochemical characterization and catalytic applications of MoO₃- ZrO₂ composite oxides towards one pot synthesis of amidoalkyl naphthols, Catal. Commun. 12 (2011) 1255-1259.
6. **Satish Samantaray**, Sudhir Kumar Sahoo and B. G. Mishra, Phosphomolybdic acid dispersed in the micropores of sulfate treated Zr-Pillared clay as efficient heterogeneous catalyst for the synthesis of β -aminocarbonyl compounds in aqueous media, J. Porous Mater. 18 (2011) 573-580.
7. **Satish Samantaray**, B.G. Mishra, D.K. Pradhan and G. Hota, Solution combustion synthesis and physicochemical characterization of ZrO₂-MoO₃ nanocomposite oxides prepared using different fuels, Ceram. Int. 37 (2011) 3101-3108.
8. M.A. Naik, **Satish Samantaray** and B.G. Mishra, Phosphotungstic acid nanoclusters grafted onto high surface area hydrous zirconia as efficient heterogeneous catalyst for synthesis of octahydroquinazolinones and β -acetamido ketones, J. Cluster Sci. 22 (2011) 295-307.
9. M.A. Naik, **Satish Samantaray**, B.G. Mishra and A. Dubey, Phosphomolybdic acid dispersed in Al-pillared clay (PMA/Al-PILC) as heterogeneous catalyst for the benign synthesis of benzoxanthenes under solvent free conditions, React. Kin. Catal. Lett. 98 (2009) 125.

EDITING EXPERIENCE

SYMPOSIUM/WORKSHOP/CONFERENCE/SEMINAR ORGANIZATION/ PRESENTATIONS

- Workshop on Modelling & Synthesis; Department of Chemistry, NIT Rourkela, India during 25th-29th September 2023.
- 14th CRSI National Symposium in Chemistry & 6th CRSI-RSC Symposium in Chemistry, 2-5th February, 2012, CSIR-NIIST and IISER, Thiruvananthapuram, INDIA.
- Interfacial Chemistry and Engineering and Their Applications for Molecular and Organic Electronics, June 26 - July 1 2011, Suntec, Singapore.
- National Conference on Molecule, 24-26th December, 2011, School of Chemistry, Sambalpur University, Burla, INDIA.
- International Conference on Chemistry: Frontiers and Challenges, 5-6th March, 2011, Aligarh Muslim University, Aligarh, U.P, INDIA.
- 13th CRSI National Symposium in Chemistry & 5th CRSI-RSC Symposium in Chemistry, 4-6th February 2011, NISER & KIIT University, Bhubaneswar, INDIA.
- National Seminar on "Smart Molecules", 25-26th December 2010, Apex Institute of Technology & Management, Bhubaneswar, INDIA.
- National Conference on Green & Sustainable Chemistry (NCGSC), 19-21th February, 2010, BITS, Pilani, INDIA.
- National Conference on Recent Trends in Chemical Science & Technology (RTCST), 19-20th December, 2009, NIT, Rourkela, INDIA.

ORIENTATION/REFRESHER/FDP/TRAINING COURSES

RESEARCH PROJECT

OTHER ACTIVITIES