

PERSONAL DETAILS

Name	Dr. Anupam Sahoo
Designation	Assistant Professor, Department of Chemistry
Address	Fire station second line, Raniguda, Rayagada, 765001
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AWARDS AND DISTINCTIONS

- **Gold Medal** in M.Sc. Chemistry, 2012, NIT Rourkela.
- **DST Inspire** Fellowship (2013-2018)
- Received for “**Kulamani Das Memorial Award in Environmental Science,**” 2018 by Orissa Chemical Society.

EDUCATIONAL QUALIFICATIONS

DEGREE	INSTITUTION/UNIVERSITY	YEAR
Ph. D.	Indian Institute of Technology, Bhubaneswar, Odisha	2021
Master of Science (Chemistry)	National Institute of Technology, Rourkela, Odisha	2012

CAREER PROFILE

- Currently working as Assistant Professor at **SKCG (Autonomous) College**, Paralakhemundi, Gajapati, Odisha (29 August 2023 till date)
- Assistant Professor at **Parla Maharaja Engineering College**, Berhampur (February 2021- till August 2023)
- Assistant Professor at **Centurion University of Technology and Management (CUTM)**, Rayagada (October 2018- December 2021)
- Teaching Assistant: Indian Institute of Technology Bhubaneswar, India, Laboratory and Tutorial classes of U.G. and P.G. courses. (January 2015 - July 2018)
- Postgraduate trainee at **Regional Institute of Education (RIE)**, Bhubaneswar (August 2012- February 2013)
- Graduate trainee at **Vedanta Aluminium Private Limited (VAL)**, Jharsuguda (July 2008- June 2010)

AREAS OF INTEREST / SPECIALIZATION

Synthetic

Expertise in the synthesis of nanomaterials, catalytic reactions, ligand synthesis, handling inert and moisture sensitive reagents and various chromatographic techniques.

Spectroscopic Techniques and Instrument Handling

Extensively used spectroscopic instruments such as FESEM, FT-IR spectrophotometer, UV-Vis Spectrophotometer, NMR Spectrometer, Powder XRD, Single Crystal XRD, Fluorescence spectrophotometer, GC-MS, HPLC, CHNS Elemental analyzer, BET surface area analyzer, TGA, Cyclic voltammetry, Glove Box, Freeze Dryer, Centrifuge machine, Incubator Shaker, Microwave Synthesizer, Particle size analyzer, Microplate reader, etc.. Developed Photo reactor for the thesis work.

Computer skills

- Knowledge in using various MS Office Programs (Word, excel, power point), Chem-Draw, Paint 3D, Origin, Sigma plot, Endnote, Mendeley, etc. Well versed with scientific literature searches, chemical structure drawing.

ASSOCIATION WITH PROFESSIONAL BODIES/COMMITTEES

- Life member of Odisha Chemical Society.

PUBLICATION PROFILE

BOOKS/MONOGRAPHS (AUTHORED/EDITED)

NA

CHAPTERS (AUTHORED/EDITED)

1. "Porous Membrane and their Applications"

S.K. Swain, **A. Sahoo**, N. Sarkar; **Materials Research Foundations** 120 (2022) 184-213

2. "Biodegradable thermoelectric materials"

Niladri Sarkar, Gyanaranjan Sahoo, **Anupam Sahoo** and Bigyan Ranjan Jali: Inamuddin and Tariq Altalhi (eds.) **Biodegradable Materials and Their Applications**, (29–54) © 2022 Scrivener Publishing LLC

3. Chapter Title: "Core–Shell Structured Nanomaterials for High-Performance Dielectric Applications."

A. Sahoo*, S. K. Swain

Book: Emerging Nanodielectric Materials for Energy Storage.

DOI : 10.1007/978-3-031-40938-7 (2023@Nature Springer)

RESEARCH PAPERS PUBLISHED IN REFEREED/PEER REVIEWED JOURNALS

1. Sangita Kumari Swain, * **Anupam Sahoo**, Sumanta Kumar Majhi, Ganngam Phaomei, Naba Kishore Sahoo, and Sukanta Kumar Tripathy* "Unveiling the Synergistic Effect of Magnetite and ZrPO₄ for Highly Selective Removal of Anionic Azo Dyes via an Ion-Exchange Process" **ACS Applied Engineering Material**, 2023 (<https://doi.org/10.1021/acsaenm.3c00492>)

2. Debajani Tripathy, Ankita Subhrasmita Gadtya, **Anupam Sahoo**, Ram Naresh Mahaling & Srikanta Moharana (2023): Enhanced dielectric and electrical performance of poly (vinyl alcohol) (PVA)-potassium sodium niobate (KNN)- polyvinylpyrrolidone (PVP) composite films, **Polymer-Plastics Technology and Materials**, DOI: 10.1080/25740881.2023.2209657

3. P Singh, S Mishra, **A Sahoo**, S Patra "A magnetically retrievable mixed-valent Fe₃O₄@ SiO₂/Pd⁰/Pd^{II} nanocomposite exhibiting facile tandem Suzuki coupling/transfer hydrogenation reaction" **Scientific reports**, 2021

4. **Sahoo, A.**; Patra, S.; "A magnetically separable and recyclable g-C₃N₄/Fe₃O₄/porous ruthenium nanocatalyst for the photocatalytic degradation of water-soluble aromatic amines and azo dyes." **RSC Adv.**, 2020, 10, 6043

5. N Patra, **A Sahoo**, A Behera "Synthesis and Differential Antibacterial Activity of Bioconjugated Bimetallic Nanoparticles" **Pharmaceutical Chemistry Journal** 54 (8), 865-869

6. Swain, S. K.; **Sahoo A.**; Swain, S. K.; Tripathy S. K.; and Phaomei G.; “Synthesis of a novel β -cyclodextrin-functionalized $\text{Fe}_3\text{O}_4/\text{BaMoO}_4:\text{Dy}^{3+}$ magnetic luminescent hybrid nanomaterial and its application as a drug carrier,” **Dalton Trans.**, 2020, 49, 14605

7. Maity, N.; **Sahoo, A.**; Boddhula, R.; Chatterjee, S.; Patra, S.; Panda, B. B.; “Fly ash supported Pd–Ag bimetallic nanoparticles exhibiting a synergistic catalytic effect for the reduction of nitrophenol,” **Dalton Trans.**, 2020, 49, 11019

8. **Sahoo, A.**; Patra, S.; “A Combined Process for the Degradation of Azo Dyes and Efficient Removal of Aromatic Amines Using Porous Silicon Supported Porous Ruthenium Nanocatalyst” **ACS Appl. Nano Mater.**, 2018, 1, 5169

9. Patra, N.; Taviti, A. C.; **Sahoo, A.**; Pal, A.; Beuria, T.K.; Behera, A.; Patra, S. “Green synthesis of multi-metallic nanocubes” **RSC Adv.**, 2017, 7, 35111.

10. Tripathy, S. K.; Meer, M.V.D.; **Sahoo, A.**; Laha, P.; Dehury, N.; Plebst S.; Sarkar, B.; Samanta, K.; Patra, S. “Dinuclear $[(\text{p-cym})\text{Ru}(\text{ICl})_2(\mu\text{-bpytz}^-)](\text{PF}_6)$ complex bridged by a radical anion: synthesis, spectroelectrochemical and EPR investigation (bpytz = ,6bis(3,5dimethylpyrazolyl)1,2,4,5-tetrazine; p-cym = pcymene).” **Dalton Trans.**, 2016, 45, 12532.

11. **Sahoo, A.**; Tripathy, S. K.; Dehury, N.; Patra, S. “Porous trimetallic Au@Pd@Ru systems: Synthesis characterisation and efficient dye degradation and removal.” **J. Mater. Chem. A**, 2015, 3, 19376.

12. Tripathy, S. K.; Taviti, A. C.; Dehury, N.; **Sahoo, A.**; Pal, S.; Beuria, T. K.; Patra, S. “Synthesis, characterisation and antibacterial activity of $[(\text{p-cym})\text{RuX}(\text{L})]_{+2/+}$ (X = Cl, H₂O; L = bpmo, bpms) complexes.” **Dalton Trans.**, 2015, 44, 5514.

13. Dehury, N.; Tripathy, S. K.; **Sahoo, A.**; Maity, N.; Patra, S. “Facile tandem Suzuki coupling/transfer hydrogenation reaction with a bis- heteroscorpionate Pd–Ru complex” **Dalton Trans.**, 2014, 43, 16597.

PATENTS

- Removal of Toxic Azo Dyes and Aromatic Amines involving Porous Ruthenium Nanocatalyst.

Anupam Sahoo and Srikanta Patra.

Patent application number: 201831002728

- A magnetically separable and recyclable g-C₃N₄/Fe₃O₄/porous RuNP nanocatalyst for the photocatalytic decomposition of water-soluble aromatic amines.

Anupam Sahoo and Srikanta Patra.

Patent application number: 201931000965

EDITING EXPERIENCE

NA

SYMPOSIUM/WORKSHOP/CONFERENCE/SEMINAR ORGANIZATION/ PRESENTATIONS

- “Recent Advances in Inorganic Chemistry” **RAIC-2022**, 25-26 March **2022**, IIT Bhubaneswar
- “Fundamentals of Research article Writing” by **Elsevier** on 4th June **2021**
- “Research Options and Opportunities in Chemical Sciences: Special Emphasis on polymer Science” by **National institute of Engineering** on 19th October **2020**.
- “Engineering Charge Transit in Optically Sensitive Two-dimensional Materials” **ACS Science Talk** (Virtual Lecture Series), 3rd July **2020**
- “Fundamentals of Nanofluid and Heat Transfer” by MACET on 11th July **2020**
- “National Conference on “Recent Advancement in Material Sciences” (**RAIMS–2018**) 17– 18th March 2018, VSSUT, Burla.
- “New Perspective to Advance Functional Materials” (**NPAFM 2017**) December 15-17, 2017, Ravenshaw University, Cuttack
- “30th annual conference of Orissa Chemical Society-2016” held on 24th & 25th December 2016 at KIIT University, Bhubaneswar.
- “New Frontiers in chemistry-from Fundamentals to Applications (**NFCFA-2015**)”, from 18th to 19th December 2015 held at BITS-Pilani Campus, Goa.
- “The 29th annual conference of Orissa Chemical Society-2015” at U.N College of Science and technology, Adaspur, Cuttack. 13th & 14th December 2015

ORIENTATION/REFRESHER/FDP/TRAINING COURSES

NA

RESEARCH PROJECT

NA

OTHER ACTIVITIES

Painting