

Personal Profile

Dr. Susmita Naik

Designation: Asst. Professor of Chemistry

Qualification: M.Sc, Ph.d, NET Qualified

Specialization: Organic Chemistry, Organometallic chemistry and catalysis

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Email. Id: susnaik327@gmail.com

Date of Birth: 10.10.1981

Teaching experiences: 10 years

Extra-Curricular activities

1. Officer in charge, Academic (Syllabus, Academic Calender, Time table, academic audit/review, Guest faculty recruitment, Supervision of classes and progress and signature in CLC)
2. Member of AQR team (Research /Innovation/Extension)
3. Member of Purchase Committee, +3 wings (Purchasing the items as and when needed, stock and store maintenance from time to time)
4. Cultural Association (Conducting cultural activities)
5. OIC chairperson of Internal complain committee
6. Coordinator of Anti ragging Committee
7. Green Audit and Academic Audit
8. HOD in charge of Anthropology, Geography, Hindi, Sanskrit and Sociology)

Research Publications

1. "Short bite aminobis(phosphonite) containing olefinic functionalities, $\text{PhN}\{\text{P}(\text{OC}_6\text{H}_3(\text{OMe-}o)(\text{C}_3\text{H}_5-p))_2\}_2$: Synthesis and Transition metal complexes" Balakrishna, M. S.; Naik, S.; Mobin, S. M. *Inorg. Chim. Acta*, 2010, 363, 3010-3016. ISSN No- 0020-1693



2. "Synthesis and transition metal chemistry of new bromo and alkyl substituted phosphinite ligands" Naik, S.; Durganna, N.; Mobin, S. M.; Mague, J. T.; Balakrishna, M. S. *Polyhedron*, **2012**, *38*, 97-102, ISSN No- 0277-5387
3. "Allyl functionalized phosphinite and phosphonite ligands: synthesis, transition metal chemistry and orthopalladation reactions" Govindaraju, S.; Ananthnag, G. S.; Naik, S.; Mobin, S. M.; Balakrishna, M. S. *J. Chem. Sci.* **2012**, *124*, 773-779, ISSN No- 0974-3626
4. "N¹,N¹,N⁴,N⁴-Tetrakis(dibenzylphosphino)benzene-1,4-diamine:Synthesis, structural studies and transition metal chemistry" Naik, S.; Mague, J. T.; Balakrishna, M. S. *Inorg. Chim. Acta*, **2013**, *407*, 139-144, ISSN No- 0020-1693
5. "Bisamino(diphosphonite) with dangling olefin Functionalities: synthesis, metal chemistry and catalytic utility of RhI and PdII complexes in hydroformylation and Suzuki-Miyaura reactions" *Dalton Trans.*, **2014**, *43*, 1082-1095, ISSN No- 1477-9226
6. "Antiproliferative activity of dinuclear copper(I) complexes containing pyridyl ligands and aminobis(diphosphonite) or cyclodiphosphazanes appended with pyridyl group towards human cervical, human colon carcinoma and breast cancer cells " Rashid, A.; Ananthnag, G. S.; Naik, S.; Mague, J. T.; Panda, D.; Balakrishna, M. S. *Dalton Trans.*, **2014**, *43*, ISSN No- 1477-9226
7. "Short bite PNP ligand supported rare tetranuclear [Cu₄I₄] clusters: Structural and photoluminescence studies." Naik, S.; Mague, J. T.; Balakrishna, M. S. *Inorg. Chem.*, **2014**, *53*, 3864-3873, ISSN No- 0020-1669
8. "Novel triphosphine ligand containing 1,3,5-triazine core [2,4,6-C₃N₃-{C₆H₄PPh₂-*p*}₃]: synthesis and transition metal chemistry" Naik, S.; Mague, J. T.; Balakrishna, M. S. *Inorg. Chem.*, **2014**, *54*, 1370-1381, ISSN No- 0020-1669
9. "A hybrid terpyridine-based bis(diphenylphosphino)amine ligand, terpyridine-C₆H₄N(PPh₂)₂: Synthesis, Coordination chemistry and photoluminescence studies". Naik, S.; Kumar, S.; Mague, J. T.; Balakrishna, M. S. *Dalton Trans.*, **2016**, ISSN No- 1477-9226
10. "Silver(I) complexes of bisphosphines PhN{P(OC₆H₄C₃H₅-*o*)₂}₂ (1) and 2,6-{Ph₂PC(O)}₂C₅H₃N (2)" V. S. Kashid; **Susmita Naik**; M. S. Balakrishna., **2016**, *86*, 601-604. *Proceedings of National Academy of Science, India, Sect. A Phys. Sci.* **67** (2015), ISSN No- 0369-8211

Conference attended

1. Susmita Naik, C. Ganesamoorthy, M. S. Balakrishna; “Synthesis and Group 11 Metal Chemistry of Aminobis(phosphonite), $[\text{PhN}\{\text{P}(\text{OC}_6\text{H}_4\text{OMe-}o)_2\}_2]$ and Bisamino{tetrakis(Phosphonite)}, $[\text{C}_6\text{H}_4\{\text{N}\{\text{P}(\text{OC}_6\text{H}_4\text{OMe-}o)_2\}_2\}_2]$ ” *12th International Symposium on Inorganic Ring Systems (IRIS-12)*, held at Holiday Inn Resort, Goa on August 16-21, **2009**. (Poster Presentation)
2. Susmita Naik, M. S. Balakrishna; “Synthesis and Transition Metal Chemistry of Bisamino{tetrakis(Phosphonite)}, $[\text{C}_6\text{H}_4\{\text{N}\{\text{P}(\text{OC}_6\text{H}_4(\text{C}_3\text{H}_5\text{-}o)_2\}_2\}_2]$ ” *12th CRSI National Symposium in Chemistry & 4th CRSI-RSC Symposium in Chemistry* held at Indian Institute of Chemical Technology, Hyderabad & National Institute of Pharmaceutical Education and Research (NIPER) Hyderabad on February 4-7, **2010**. (Poster Presentation)
3. Susmita Naik, M. S. Balakrishna; “Synthesis and Transition Metal Chemistry of a New Family of Aminotetra(phosphines) Ligand” *In-House Symposium-2010* held in the Department of Chemistry, Indian Institute of Technology Bombay, Mumbai on February 27, **2010**. (Poster Presentation)
4. Susmita Naik, M. S. Balakrishna; “Copper(I) Chemistry of “short-bite” aminobis(phosphonite) and bisaminotetrakis(phosphonite/phosphine) ligands” *3rd Indo-German Symposium on “Frontier of Chemistry”* held in the Department of Chemistry, Indian Institute of Technology Bombay, Mumbai on September 27-28, **2011**. (Poster Presentation)
5. Susmita Naik, M. S. Balakrishna; Triazine based Tridentate and Tetradentate based Pentadentate ligands: Synthesis, Transition metal Chemistry and Photophysical Study *In-House Symposium-2012* held in the Department of Chemistry, Indian Institute of Technology Bombay, Mumbai on March 10, **2012**. (Oral Presentation)
6. UGC sponsored state level seminar on "Natural Disaster and its impact in contest to Odisha" held in the Govt. College Sundargarh, Odisha on 15th and 16 July 2016.
7. UGC sponsored state level seminar on " Globalization: its socio-economic and political impact on Odisha " held in the Govt. College Sundargarh, Odisha on 15th and 16 July 2016.
8. Extramural lecture presented on the topic “Organophosphorus compounds and their applications” at the Department of Chemistry, Laxminarayan College Jharsuguda on 24.01.2024.

Book chapters written

Feminine Identity, chapter-7, Page no-53-62, ISBN-978-93-90821-95-2, Urania publishing house, India

Refresher/orientation/induction programme attended

1. Swayam Arpit online refresher course in chemistry for higher education faculties 2019
2. Swayam Arpit online refresher course in chemistry for higher education faculties 2020
3. 15 credits international carrier coach Program (foundational level-1) organized by Mindler in 2020
4. Completed 4 weeks Induction programme for faculties by Teaching Learning Centre Ramanujan College held from 10 November to 09 December 2020.
5. Completed online two weeks Refresher Course on Managing online Classes & Co-creating Moocs from 11-25 November 2023.

Resource Person

Invited as resource person by the Department of Chemistry, Laxminarayan College Jharsuguda to deliver extra mural lecture on “Organophosphorous compounds and their applications on 24/01/2024 at 10.30 Am.

Dr. Susmita Naik

Asst. Prof. of Chemistry

Govt. Women’s College Sundargarh