

Name : DR. AMIT SAHA ROY

Designation : Assistant Professor

Department : Chemistry

Qualifications : M.Sc, Ph.D

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Teaching Experience : UG (for 8 years)

PG (for 4 years) *Guest faculty of Ramakrishna Mission Residential College, Narendrapur*

Research Interest : Inorganic Chemistry

(*Synthesis and stabilization of new organic radicals coordinated to transition metal ions*)

- Synthesis & stabilization of ***spin diverse diimine ligand*** system which can potentially bind metal center as a neutral or trianionic state.
- Synthesis & characterization of ***new diimine fluorophore*** systems and study their emissive property at solid state as well as solution.
- Synthesis & stabilization of diamagnetic ‘transition-metaloxo’ species by coupling with organic/ inorganic/ organometallic paramagnetic species of $s = 1/2$ spin state and to establish their electronic structure with correlation with spectral, structural features and chemical activities.

Research Experience : 9 years

Publication:

1. Amit Saha Roy, Heikki M. Tuononen, Sankar P. Rath and Prasanta Ghosh ***Inorg.Chem.*** 2007, 46, 5942-5948
2. Amit Saha Roy, Thomas Weyhermuller and Prasanta Ghosh
Inorg. Chem. Communication, 2008, 11, 167-170, ISSN no.: 1387-7003
3. Amit Saha Roy, Nicoleta Muresan, Heikki M. Tuononen and Prasanta Ghosh
Dalton Trans. 2008, 3438-3446, ISSN no.: 1477-9226 (Published in theme issue **Main group chemistry: from molecules to materials**)
4. Amit Saha Roy, Manas Kumar Biswas, Thomas Weyhermuller and Prasanta Ghosh
Inorg. Chimica Acta, 2010, 363, 2874–2880 (ISSN no.: 0020-1693 (*Dedicated to*

Prof. Animesh Chakravorty on the eve of his 75th birthday)

5. **Amit Saha Roy**, Manas Kumar Biswas, Thomas Weyhermüller Prasanta Ghosh ***Dalton Trans.* 2011**,40, 146-155, *ISSN no.:* 1477-9226
6. **Amit Saha Roy**, Pinaki Saha, Nirmal Das Adhikary and Prasanta Ghosh ***Inorg. Chem.* 2011**, 50, 2488-2500, *ISSN no.:* 0020-1669
7. **Amit Saha Roy**, Pinaki Saha, Partha Mitra, Shyam Sundar Maity, Sanjib Ghosh and Prasanta Ghosh ***Dalton Trans.*, 2011**, 40, 7375-7384, *ISSN no.:* 1477-9226
8. Satyabrata Chaudhuri, Sarat Chandra Patra, Pinaki Saha, **Amit Saha Roy**, Suvendu Maity, Sachinath Bera, Pinki Saha Sardar, Sanjib Ghosh, Thomas Weyhermüller and Prasanta Ghosh ***Dalton Trans.*, 2013**, 42, 15028-15042 *ISSN no.:* 1477-9226

DOI: 10.1039/C3DT51771C.
9. Satyabrata Chaudhuri, Sachinath Bera, Manas Kumar Biswas, **Amit Saha Roy**, Thomas Weyhermüller and Prasanta Ghosh ***Inorg. Chem. Front.*, 2014**, 01, 331-341.
10. Sarat Chandra Patra, **Amit Saha Roy**, Vadivelu Manivannan, Thomas Weyhermüller and Prasanta Ghosh ***Dalton Trans.*, 2014**, 43, 13731-13741 (*ISSN no.:* 1477-9226 DOI: 10.1039/C4DT01241K)
11. Pinaki Saha, **Amit Saha Roy**, Thomas Weyhermüller and Prasanta Ghosh ***Chem. Commun.*, 2014**, 50, 13073-13076 DOI: 10.1039/C4CC05286B *ISSN no.* 1359-7345
12. Suvendu Maity, Suman kundu, **Amit Saha Roy**, Thomas Weyhermüller and Prasanta Ghosh ***Inorg. Chem.*, 2015**, 54, 1384–1394 DOI: 10.1021/ic502320m
13. Sk. Imran , Aslam Hossain, Kalachand Mahali, **Amit Saha Roy**, Partha Sarathi Guina and Sanjay Roy ***Journal of Molecular Liquids*, 2018**, 265, 693–700
14. **Amit Saha Roy**, ***IJSRR* 2018**, 7(4), 1375-1393
15. Sarat Chandra Patra, Amit Saha Roy, Saswati Banerjee, Ananya Banerjee, Krishna Das Saha, Ranjan Bhadra, Kausikisankar Pramanik and Prasanta Ghosh ***New J. Chem.*, 2019**,43, 9891-9901 DOI: 10.1039/C9NJ00223E