

Curriculum Vitae

NAME: Dr. Semanti Basu

PRESENT AFFILIATION: Assistant Professor
Department of Chemistry
Bejoy Narayan Mahavidyalaya,
Itachuna, Hooghly, PIN 712147

E-MAIL ID: sbasu1002000@yahoo.co.in

- M.SC., Ph.D. IN CHEMISTRY
- Teaching experience 14 years
- Research experience 18 years
- Published seven original research articles
- Research interests on synthetic inorganic chemistry

ACADEMIC BACKGROUND

2002-2007 Awarded Ph.D. in Chemistry (on Synthetic Inorganic Chemistry) on 25.11.2005 from Department of Chemistry, Jadavpur University, Kolkata 700 032, India

Title of thesis: Studies on the Coordination Chemistry of The Platinum Metals with Some N,O,S-Donor Ligands

1999-2001 M.Sc in Chemistry (special paper: Inorganic Chemistry), Department of Chemistry, Visva-Bharati

1996-1999 B.Sc in Chemistry, Vivekananda Mahavidyalaya, Burdwan, University of Burdwan

Qualification in national level examination: 1. National Eligibility Test (NET) with CSIR fellowship on 2001 July
2. Graduate Aptitude Test in Engineering (GATE) on 2001

TEACHING EXPERIENCE

Serving as Assistant Professor at Bejoy Narayan Mahavidyalaya, Itachuna, Hooghly since 01.03.2016. Served as Assistant Professor at Sri Ramkrishna Sarada Vidya Mahapitha, Kamarpukur, Hooghly from 25.06.2007 to 29.02.2016

Course taught: UG (Honours and General)

RESEARCH EXPERIENCE

List of Publications:

1. Copper complexes of 1,4-diazabutadiene ligands: Tuning of metal oxidation state and, application in catalytic C-C and C-N bond formation
-----Aparajita Mukherjee, **Semanti Basu**, Samaresh Bhattacharya*
Inorganica chemical acta **2020**, 500, 119228-119235
2. Iridium assisted S-H and C-H activation of benzaldehyde thiosemicarbazone. Synthesis, structure and electrochemical properties of the resulting complexes -----**Semanti Basu**, Rama Acharyya, Falguni Basuli, Shie-Ming Peng, Gene-Hsiang Lee, golam Mostafa and Samaresh bhattacharya*
Inorganica chemical acta **2010**, 363, 2848-2856
3. 1-(2'-pyridylazo)-2-Naphtholate complexes of ruthenium: Synthesis, Characterization and DNA binding properties.
-----**Semanti Basu**, Sarmistha Halder, Indrani pal, Saheli Samanta, Parimal Karmakar, Michael G. B. Drew, and Samaresh bhattacharya*
Polyhedron **2008**, 27, 2943-2951
4. Synthesis, structure and electrochemical properties of some thiosemicarbazone complexes of iridium
-----**Semanti Basu**, Rama Acharyya, William S. Sheldrick, Heike Mayer-Figge and Samaresh bhattacharya*
Struc. Chem. **2007**, 18, 209-215
5. Rhodium assisted C-H activation of N-(2'-Hydroxyaryyl)benzaldimines. Synthesis, structure and electrochemical properties of a group of organorhodium complexes.
-----**Semanti Basu**, Swati Dutta, Michael G. B. Drew, and Samaresh bhattacharya*
J. Organomet. Chem. **2006**, 691, 3581-3588
6. Synthesis, structure and electrochemical properties of tris-picolinate complexes of rhodium and iridium.
-----**Semanti Basu**, Shie-Ming Peng, Gene-Hsiang Lee, and Samaresh bhattacharya*
Polyhedron **2005**, 24, 157-163.
7. Rhodium and iridium complexes of N-(2'-hydroxyphenyl)pyrrole-2-alimine: Synthesis, structure, and spectral and electrochemical properties
-----**Semanti Basu**, Indrani Pal, Ray J. Butcher, Georgina Rosair and Samaresh bhattacharya*
J. Chem. Sci. **2005**, 117, 167-173.

MEMBERSHIP

1. Life member of Indian Science Congress (Membership Number L26993 from 11.05.2015)
2. Life member of Indian Chemical Society (Membership Number F/7796(LM) from 17.08.2015)