

ALIPURDUAR UNIVERSITY

P.O: ALIPURDUAR COURT, DIST: ALIPURDUAR

WEST BENGAL, PIN CODE: 736122

PERSONAL PROFILE

Name: Dr. Rinku Chakrabarty

Educational Qualifications: Ph.D., Post-Doc.

Designation: Assistant Professor

Date of Joining: 01-04-2015

Area of Teaching: Organic Chemistry

Research interest: Molecular Recognition, Supramolecular Chemistry, Crystal Engineering.

Contact & Mail Id: Department of Chemistry, Alipurduar College, Alipurduar-736122, E-mail: rckncs@gmail.com.

Address: Flat no. D4, Block-1, Dishari Nilay, Ward no. 3, Netaji Road, Alipurduar-736121.

Previous College: NA

Date of Retirement:

***RESEARCH AND ACADEMIC CONTRIBUTIONS:**

Title of M.Phil: NA

Date of Award: NA

Title of the Ph.D : Design and Synthesis of Fluorescent Receptors for some Biologically Important Substrates.

Date of Ph.D Award: 11-02-2011



Post Doctoral Degree: Institute : School of chemistry, University of the Witwatersrand, South Africa.

Supervisor : Professor Alvaro S. De Sousa

Published Papers in National / International Journals:

Research Papers

1. Recognition of anions and monocarboxylic acids by a fluorescent guanidine based receptor: Shyamaprosad Goswami, Subrata Jana, **Rinku Chakrabarty**, Hoong-Kun Fun *Supramolecular Chemistry* **2009**, 20, 1.
2. Cu(II) complex of an abiotic receptor as a highly selective fluorescent sensor for acetate: Shyamaprosad Goswami and **Rinku Chakrabarty** *Tetrahedron Letters* **2009**, 50, 5994.
3. Fluorescence sensing of Cu²⁺ within a pseudo 18-crown-6 cavity: Shyamaprosad Goswami and **Rinku Chakrabarty** *Tetrahedron Letters* **2009**, 50, 5910.
4. Recognition of Carboxylate Anions and Carboxylic Acids by Selenium-Based New Chromogenic Fluorescent Sensor: A Remarkable Fluorescence Enhancement of Hindered Carboxylates: Shyamaprosad Goswami, Anita Hazra, **Rinku Chakrabarty**, and Hoong- Kun Fun *Organic Letters* **2009**, 11, 4350.
5. A Coumarin-appended Pseudo-crown for the Selective Recognition of Fe³⁺: Shyamaprosad Goswami and **Rinku Chakrabarty** *Chemistry Letters* **2010**, 39, 100.
6. Highly Selective Colorimetric Fluorescent Sensor for Pb²⁺: Shyamaprosad Goswami and **Rinku Chakrabarty** *European Journal of Organic Chemistry* **2010**, 3791.
7. Imidazole based colorimetric sensor for fluoride anion: Shyamaprasad Goswami, **Rinku Chakrabarty** *European Journal of Chemistry* **2011**, 2, 410.
8. *o*-hydroxydibenzilidene acetone as a new acid base indicator and a receptor for anions and guanidine: Shyamaprasad Goswami, **Rinku Chakrabarty** *Journal of Indian Chemical Society* **2011**, 88, 547.
9. Tetrabutylammonium bromide (TBAB) is an important companion in organic chemistry- A review: **Rinku Chakrabarty** *Indian Streams Research Journal* **2013**, 2, 16.
10. A Flash back on Methylglyoxal: **Rinku Chakrbarty** *Indian Streams Research Journal* **2013**, 3, 11.
11. A fluorene based podand for the selective detection of Hg²⁺ ion: Shyamaprosad Goswami, **Rinku Chakrabarty** *Journal of Indian Chemical Society* **2013**, 90, 1625.

12. Steric inhibition of Hydrogen bonding in molecular recognition of dicarboxylic acids: Ditopic receptors containing nitro group designed to behave like Monotopic receptors: Shyamaprosad Goswami, **Rinku Chakrabarty**, Swapan Dey, Hoong-Kun Fun *RSC Advances* **2014**, 4, 49663.
13. Sensing of Tb(III) and Eu(III) in aqueous medium by a phenanthroline based ligand: Shyamaprosad Goswami, **Rinku Chakrabarty** *Journal of Indian Chemical Society* **2017**, 94, 1173.
14. Some emerging fields of Chemistry: **Rinku Chakrabarty**, Md. Firoj Hossain *Review of research* **2018**, 8.

Crystal Structure reports:

13. Second monoclinic polymorph of 2-amino-4,6-dichloropyrimidine: Hoong-Kun Fun, Suchada Chantrapromma, Subrata Jana, **Rinku Chakrabarty** and Shyamaprosad Goswami *Acta Crystallographica* **2008**, E64, o1659.
14. 2-(7-Hydroxy-2-naphthoxy)-N-(6-methyl-2-pyridyl)acetamide: Hoong-Kun Fun, Samuel Robinson Jebas, Subrata Jana, **Rinku Chakrabarty** and Shyamaprasad Goswami *Acta Crystallographica* **2008**, E64, o699.
15. N-[6-(Dibromomethyl)-2-pyridyl]-2,2-dimethylpropionamide: Hoong-Kun Fun, Suchada Chantrapromma, Annada C. Maity, **Rinku Chakrabarty** and Shyamaprosad Goswami *Acta Crystallographica* **2009** E65, o725.
16. 1,2-Di-2-quinolyethylene: Hoong-Kun Fun, Reza Kia, Annada C. Maity, **Rinku Chakrabarty** and Shyamaprosad Goswami *Acta Crystallographica* **2009** E65, o354.

Publications other than Journal articles (books, chapter in books): NA

Books with ISBN/ISSN number published by International Level Publishers:

Books with ISBN/ISSN number published by National Level Publishers:

Invited Lectures delivered / Papers presented (National / State level Seminars):

Articles/ Chapters published in Books: NA

Completed Project: Major & Minor: NA

Title of the Project: NA

Papers Presented in Conferences, Seminars, Workshops, Symposia:

International: Molecular recognition and fluorescent sensors for metal ions and anion: Shyamaprosad Goswami, **Rinku Chakrabarty**, ORG(AP)-35. *Proceedings of the 46th Annual Convention of Chemists and International Conference on Recent Research Trends in Chemical Sciences*, December 02-06, **2009**, Chemistry Division, School of Science and Humanities, VIT University, vellore, Tamil Nadu (**Received Dr. D. S. Bhakuni Award**).

• Design and Synthesis of Fluorescent Chemosensors for Metal Ions: Shyamaprosad Goswami, **Rinku Chakrabarty**, Contributory Paper (Award)-10, *Proceedings of the Acharya Prafulla Chandra Ray Memorial Symposium on Chemistry Today (2010)*, August 02-04, **2010**, Department of Chemistry, University of Calcutta, Kolkata, India (**Received award**).

• Design and Synthesis of Chemosensors for toxic ions (Pb²⁺ and Cu²⁺): Shyamaprosad Goswami, **Rinku Chakrabarty**, Poster (P-78), *International Symposium on Facets of weak Interactions in Chemistry*, January 13-15, **2011**, Department of Chemistry, University of Calcutta, Kolkata, India.

- International Conference on Sustainable development, August 25, **2017**, Colombo, Sri Lanka.
- International Conference on Environmentalism, Globalism and Morality, January 10-12, **2018**, Alipurduar College.
- International seminar on Frontiers in Chemistry 2018, August 27, **2018**, University of North Bengal.
- International seminar on The History of Science and Technology: A Journey from Metal age to E-age, March 12, **2019**, Alipurduar College.

National: NA

State Level Seminar: NA

Participation in Conferences, Seminars, Workshops, Symposia:

• UGC sponsored National Seminar on Environmental Hazards, January 6-7, **2012**, Dumkal College, Basantapur, Dumkal, Murshidabad, India.

- UGC sponsored national seminar on Need and Prospect of Environmental Education, November 16-17, **2016**, Alipurduar College.
- Science Academies Lecture Workshop on Chemical Sciences: Recent Trends in Teaching, Research and Technology, May 25-26, **2018**, Cooch Behar Panchanan Barma University.

Other Academic Activities: NA

Other Activities: NA

Member of Professional Bodies: Life member of Indian Chemical Society
Life Member of Chemical Research Society of India