



DR. SUBRATA JANA

Associate Professor,
Department of Chemistry,
Indira Gandhi National Tribal University (Central University)
Amarkantak-484887, M. P., INDIA
Mob. No.: +917869494850
E-mail: jana.s.oc@gmail.com



Teaching interest: Organic Chemistry (including Synthesis, Reaction Mechanism and Heterocyclic Chemistry), Molecular Recognition and Supramolecular Chemistry, Bioorganic Chemistry, Medicinal Chemistry and Enzyme catalysis.

Research interest: We work in the field of Molecular Recognition and Supramolecular Chemistry to address different biochemical issues with special emphasis on medicinal and drug delivery purpose. Our research involves synthesis of different designed molecules to carry out the overall studies.

Professional Experience:

2016(April)-Present Associate Professor, Department of Chemistry, Indira Gandhi National Tribal University (Central University) Amarkantak-484887, M. P., India.

2013(Feb)-2016(April) Associate Professor, Department of Chemistry, VEC, Sarguja University, Ambikapur, C.G., India.

2012(April)-2013(Jan) Associate Professor, Dr. C. V. Raman University, Kargi Road, Kota, Bilaspur, C.G., India.

2009(Nov)-2012(Jan) Post Doctoral Research Associate, Dept. of Chemistry, University of Utah, Salt Lake City, UT, USA.

2008(July)-2009(Oct) Post Doctoral Fellow, Dept. of Chemistry, University of Victoria, Victoria, BC, Canada.

Academic Details:

Ph.D.- Organic Chemistry (Molecular recognition and Supramolecular Chemistry), IEST-Shibpur, India.

M.Sc.- Organic Chemistry, Berhampur University, India.

B.Sc.(Hons)- Chemistry, University of Calcutta, India.

Scholastic achievements:

Awarded NET-JRF (**July 2001**) from the Council of Scientific and Industrial Research (CSIR), Government of India for doctoral research. Recipient of Award "Radhika Panda Memorial award" for securing highest mark in M.Sc. (Chemistry) (**2001**), Berhampur University, India.

Selected Publications: (Total No. of Publication: 38; h index: 13)

1. Novel hydrogel-based core-shell systems for combination delivery of ranitidine HCl and aceclofenac: Sougata Jana, Abhijit Samanta, Amit Kumar Nayak, Kalyan Kumar Sen, **Subrata Jana**. *International Journal of Biological Macromolecules*, **2015**, *74*, 85-92. (IF=2.858)
2. Design and synthesis of chalcone-based macrocyclic polyethers: **Subrata Jana**. *Cogent Chemistry*, **2015**, *1*: 1062642.
3. *In vivo* encapsulation of nucleic acids using an engineered non-viral protein capsid: Seth Lilavivat, Debosmita Sardar, **Subrata Jana**, Geoffrey C. Thomas, and Kenneth J. Woycechowsky. *Journal of the American Chemical Society*, **2012**, *134*, 13152-13155. (IF=12.113)
4. Anion recognition by a family of quinoline-functionalized bis-amide hosts in the solid state and in solution: **Subrata Jana**, Amanda L. Whiting, Anita Hazra, Saikat Sen, Shyamaprosad Goswami, Goverdhan Mehta, Hoong-Kun Fun, and Fraser Hof. *Supramolecular Chemistry*, **2012**, *24*, 385-391. (IF= 2.394)
5. Recognition properties of carboxylic acid bioisosters: Anion binding by tetrazoles, aryl sulfonamides, and acyl sulfonamides on a calix[4]arene scaffold: Thomas Pinter, **Subrata Jana**, Rebecca J.M. Courtemanche, and Fraser Hof. *Journal of Organic Chemistry*, **2011**, *76*, 3733-3741. (IF=4.721)
6. Recognition of anions and monocarboxylic acids by a fluorescent guanidine based receptor: Shyamaprosad Goswami, **Subrata Jana**, Rinku Chakrabarty, and Hoong-Kun Fun. *Supramolecular Chemistry*, **2010**, *22*, 143-148. (IF=2.394)
7. Recognition Study of Substituted Benzoic Acids by 7-Substituted Pterin Receptors in Solution and Solid Phases: Shyamaprosad Goswami, Anita Hazra, **Subrata Jana**, Hoong-Kun Fun. *CrystEngComm*, **2010**, *12*, 1501-1508. (IF=4.034)
8. Recognition of a dicarboxylic acid with dipicolyl urea in solution and in solid phases: intramolecular hydrogen bond inhibiting both pyridine nitrogens from binding carboxyl groups: Shyamaprosad Goswami, **Subrata Jana**, Swapan Dey, Debabrata Sen, Hoong-Kun Fun and Suchada Chantrapromma. *Tetrahedron*, **2008**, *64*, 6426-6433. (IF= 2.641)
9. Design and synthesis of a unique ditopic macrocyclic fluorescent receptor containing furan ring as a spacer for recognition of dicarboxylic acids: Shyamaprosad Goswami, Swapan Dey and **Subrata Jana**. *Tetrahedron*, **2008**, *64*, 6358-6363. (IF= 2.641)
10. Recognition of dicarboxylic acid by 3,3'-bipyridine amidebased receptors and its supramolecular behavior in the solid state: Shyamaprosad Goswami, **Subrata Jana**, Hoong-Kun Fun. *CrystEngComm*, **2008**, *10*, 507-517. (IF=4.034)
11. One-pot Solvent and Catalyst-free Synthesis of Functionalised 1,8-Naphthyridines and Quinolines by Microwave Irradiation: Shyamaprosad Goswami, **Subrata Jana**, Anita Hazra and Avijit Kumar Adak. *Journal of Heterocyclic Chemistry*, **2007**, *44*, 1191-1194. (IF= 0.787)
12. Microwave-expedited one-pot, two-component solvent-free synthesis of functionalised pyrimidines: Shyamaprosad Goswami, **Subrata Jana**, Swapan Dey and Avijit Kumar Adak. *Australian Journal Chemistry*, **2007**, *60*, 120-123. (IF= 1.558)

Edited Book:

1. Particulate Technology for Delivery of Therapeutics: Sougata Jana and Subrata Jana (Editors): Springer. (2016).
2. Biopolymer Based Composites: Drug delivery and Biomedical Applications: Sougata Jana, Sabyasachi Maity and Subrata Jana (Editors): Woodhead Publishing (Elsevier). (2017)

Book Chapters in Edited Book (Total No. of Publication: 15)

Editorial board member:

Journal of PharmaSciTech (ISSN: 2231 3788).

International Journal of Scientific and Engineering Research (ISSN: 2229-5518).

Reviewer:

International Journal of Biological Macromolecule (Elsevier)

Current Pharmaceutical Design (Bentham Science)

Journal of PharmaSciTech