

Dr. Sanjay Nath

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Date of joining:	12/07/2005
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Academic Qualification:	M.Sc., PhD.
Area of Specialization:	Organic Chemistry

Research Interest:	Synthetic Organic Chemistry
Publications in Journals:	<ol style="list-style-type: none">1. One pot regioselective synthesis of 3-benzyl thiazolo[3,2-<i>a</i>]indoles by sequential Sonogashira coupling followed by triethylamine-induced cyclization. C. Majumdar, Sanjay Nath, <i>Synthesis</i>, 2011, 1413.2. Facile regioselective synthesis of benzofuran-annulated six-membered sulfur heterocycles and the occurrence of thermal [1,3] sigmatropic rearrangement. C. Majumdar, Sanjay Nath, Buddhadeb Chattopadhyay and Krishanu Ray, <i>Lett. Org. Chem.</i>, 2011, 8, 176.3. Palladium-catalyzed tethered intramolecular arylation: an unusual synthesis of linearly fused pyridocoumarin derivatives. C. Majumdar, Sanjay Nath, Buddhadeb Chattopadhyay and Biwajit Sinha, <i>Synthesis</i>. 2010, 3918.4. New Heck coupling strategies for the arylation of secondary and tertiary amides via palladium-catalyzed intramolecular cyclization. C. Majumdar, Buddhadeb Chattopadhyay, Sanjay Nath, <i>Tetrahedron. Lett.</i>, 2008, 49, 1609.5. Regioselective synthesis of benzofuran-annulated six-membered sulfur heterocycles by aryl radical cyclization. C. Majumdar, B. Chattopadhyay, S. Nath, <i>Synthetic communication</i>, 2007, 37, 2907.6. Synthesis, characterization and mesogenic properties of anisotropic imines. C. Majumdar, Nilasish Pal, Sanjay Nath, Sudip choudhury and Nandiraju V. S. Rao., <i>Mol. Cryst. Liq. Cryst.</i>, 2007, 461, 37.

Talks/Posters/Papers presented:

1. "Facile regioselective synthesis of benzofuran-annulated six-membered sulfur heterocycles and the occurrence of thermal [1,3] sigmatropic rearrangement" in the UGC sponsored State Level Seminar on "Chemistry Our Life Our Future" on 31st Jan, 2012; organized by Sripat Singh College, Jiaganj, Murshidabad.
2. "One-pot regioselective synthesis of 3-benzyl thiazolo[3,2-*a*]indoles by sequential Sonogashira coupling followed by triethylamine-induced cyclization" in the UGC sponsored National Seminar on "Current Trends in Chemistry" On 9-10th Feb, 2012; organized by Union Christian Training College, Berhampore, Murshidabad.
3. Use of Sonogashira Coupling Reaction for the Synthesis of Heterocyclic Compound in the UGC sponsored National Seminar on "Current Trends in Chemistry" 23-24th Dec 2013; organized by Sripat Singh College, Jiaganj, Murshidabad.
4. "Ground Water Contamination by Pesticides And Its Health Impact and Remediation" in the International Seminar on "Groundwater: Issues and Challenges of the 21st Century", on 29th -30th December 2014; organized by Sripat Singh College, Jiaganj, Murshidabad; organized by Sripat Singh College, Jiaganj, Murshidabad.
5. "Gold Catalysis in Organic Synthesis" in the National Seminar on "Recent Advances in Chemistry" on 21st Dec, 2015; organized by Sripat Singh College, Jiaganj, Murshidabad.
6. "Substituent Effects and linear free energy relationship" in the UGC sponsored National Seminar on "Emerging advances in mathematics and their application in natural sciences " on 17th Dec, 2016; organized by Sripat Singh College, Jiaganj, Murshidabad.
7. "Substituent Effects in the Unusual Oxidation of Benzylic Methylene During Palladium-Mediated Intramolecular Arylation" in the two – day International seminar on "Recent Trends in Science Towards Sustainable Development" on 6th and 7th August 2018; organized by Acharya Prafulla Chandra College, New Barrackpur, North 24 Parganas, Kolkata.