



Dr Santanu Chakravorty

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Address: Cooch Behar ,West Bengal,India - 736146

Expertise

Organic Chemistry

12 years of research experience in Synthetic and Material Chemistry (5 years during Ph.D, 2 years in Post. Doc, 5 Years in Industrial Field)

Work experience

1. Mathabhanga College, Mathabhanga 2022 — Present

Assistant Professor (Grade-II)
Cooch Behar

2. Mathabhanga College, Mathabhanga 2017 — Present

Assistant Professor (Grade-I)
Cooch Behar

3. Pharmaceutical Industry 2012 — 2017

Senior Research Scientist
Kolkata

4. Yonsei University, Global Campus, Songdo, South Korea 2011 — 2012

Post-Doctoral Fellow
Incheon

5. University of Witwatersrand 2010 — 2011

Post-Doctoral Fellow
Johannesburg

Education

1. Ph.D - 2010

University of Kalyani

2. MSc - 2004

University of North Bengal

3. BSC - 2002

University of North Bengal

Honours and Awards

1. CSIR-JRF - 2004

CSIR

Publication

1. Recent Advance in the Reductive Heck Cyclization for the Formation of Five to Nine Member Rings

Santanu Chakravorty
Current Organic Chemistry , Volume , Year 2024, Pages

2. Palladium-Mediated Reductive Heck Cyclization for the Synthesis of Fused Retinoid Derivatives

Mitra, T., Joardar, S., Chakravorty. S Majumdar, M., Kundu, M., Roy. B
SynOpen, Volume 7, Year 2023, Pages 58-64

3. Playing with Liquid Crystals: A Short Review

Chakravorty, S.; Saha S.
Oriental Journal Of Chemistry, Volume 38, Year 2022, Pages 801-821

4. A Simple, Convenient, Highly Regioselective Synthesis of Isobenzofuran-

1(3H)-ones (phthalides) as well as Maculalactone A & B, the Bioactive Butyrolactones

Letters in Organic Chemistry, Year 2016

5. **Spacer Length: A Determining Factor in the Design of Galactosyl Ligands for Hepatoma Cell-Specific Liposomal Gene Delivery**

Current Drug Delivery, Year 2016

6. **Palladium-Mediated Reductive Heck Cyclization for the Formation of Tricyclic Sultams**

Synlett, Year 2014

7. **Synthesis of Novel Piperazine-linked Anthranilic Acids as Potential Small Molecule Kinase Inhibitors**

South African Journal of Chemistry, Year 2014

8. **Aminonaphthoquinones as potential anti-breast cancer agents**

African Journal of Pharmacy and Pharmacology, Year 2012

9. **Synthesis and antimicrobial activity of the essential oil compounds (E)- and (Z)-3-hexenyl nonanoate and two analogues**

South African Journal of Chemistry, Year 2012

10. **Palladium-Mediated Bis-Arylation of Inactivated and Activated Arenes**

Synthetic Communications, Year 2010

11. **Synthesis and Characterization of Symmetrical Eight Aromatic Ring Containing Bent-Shaped Material Derived from Benzophenone**

Molecular Crystals and Liquid Crystals, Year 2010

12. **Synthesis and characterisation of unsymmetrical six-aromatic ring containing bent-shaped compounds**

Liquid Crystals, Year 2010

13. **Synthesis and Characterization of Cholesterol-Based Tetramers**

Molecular Crystals and Liquid Crystals, Year 2010

14. **Palladium-mediated reductive Mizoroki-Heck cyclization strategy for the regioselective formation of dibenzoazocinone framework**

Tetrahedron Letters, Year 2010

15. **Molecular Iodine Mediated Intramolecular Cyclization: An Efficient Method for the Synthesis of Benzoxepine Derivatives**

Majumdar K.;Sinha B.;Ansary I.;Chakravorty S.

Synlett, Volume , Year 2010, Pages 1407-1411

16. **Cholesterol-based unsymmetrical Schiff's base dimer terminated with 4-**

alkoxy-5-phenylthiophene unit: synthesis and characterisation

K.C. Majumdar ., Tapas Ghosh ., Santanu Chakravorty ., Nilashis Pal ., D.S. Shankar Rao ., S. Krishna Prasad .,

Liquid Crystals, Volume 37, Year 2010, Pages 1539-1547

17. **Synthesis and Characterization of Banana-Shaped Mesogens Derived From a Benzophenone Moiety**
Molecular Crystals and Liquid Crystals, Year 2009
18. **Synthesis and characterization of cholesterol-based nonsymmetric dimers terminated with ferrocenyl core**
Tetrahedron, Year 2009
19. **Induction of B1 phase in binary mixtures of rod- and bent-shaped mesomorphic compounds**
Journal of Physics and Chemistry of Solids, Year 2009
20. **Synthesis and Characterization of Unsymmetrical Five-Ring Achiral Banana-Shaped Compounds With a B2 Phase**
Molecular Crystals and Liquid Crystals, Year 2009
21. **Bis-Fused Benzofurans, Bisbenzoxepines, and Bisbenzoxocines**
Synfacts, Year 2009
22. **An Expedient Synthesis of Bis-Fused Benzofuran and a Two-Directional Ring-Closing Metathesis for the Synthesis of Bisbenzoxepines and Bisbenzoxocines**
Synthesis, Year 2009
23. **Palladium-Mediated Heck Reaction to the Synthesis of 3-Substituted Indoles and Indolones**
Synthesis, Year 2009
24. **Synthesis and thermal behavior of chiral oligomers derived from cholesterol**
Tetrahedron, Year 2009
25. **Palladium-Mediated Reductive Heck Cyclization for the Formation of Dibenzoazepinone Framework**
Majumdar, K. C.;Chakravorty, Santanu;Ghosh, Tapas;Sridhar, B.
Synlett, Volume 75, Year 2009, Pages 3127-3130
26. **A new type of symmetrical banana-shaped material based on N-methyldiphenylamine as a core moiety exhibiting an Ad→A2 transition**
Tetrahedron Letters, Year 2008
27. **Palladium-Mediated Direct Synthesis of N-Substituted 4-Methyl- and 4-Ethylisoquinolone Derivatives**

Synthesis, Year 2008

28. **New Efficient RCM-Mediated Synthesis of Pyrrolidine Derivatives**

Synthetic Communications, Year 2008

29. **Palladium mediated bis- and tris-aryl Heck coupling for the synthesis of heterocycles**

Tetrahedron Letters, Year 2008