



Personal profile

Name of the Faculty: Mr. Rahul Sharma Designation: Assistant Professor

Personal

Information

Date of Birth: 21/06/1994

Gender: Male

Nationality: Indian

Address for correspondence:

Brahmaputra Hostel, IIT Guwahati

Amingaon, 781039

Kamrup, Assam





Permanent Address:

Vill- Bordubi Model Town

PO/PS- Hoogrijan/Bordubi

Dist.- Tinsukia

State- Assam, PIN- 786601

e-mail ID : 94rahulshchem@gmail.com Contact no.: 9101233704

Date of joining the present service: 24/09/2024

Academic Qualification 2015-2017: **Master of Science** in Chemistry from Dibrugarh University.

2012-2015: **Bachelor of Science** in Chemistry, Tinsukia College (Dibrugarh University) First class 5th rank.

2010-2012: **HSSLC Examination**, Oil India H.S. School, Duliajan (State Board) First Division.

2010 :HSLC examination (State Board), First Division.

2018-2019 : **M. Phil.** at Dept. of Chemistry with A grade (Supervisor- Dr. Diganta Sarma)

Research Experience	January 2019-present: pursuing Doctor of Philosophy from IIT Guwahati (Supervisor- Dr Dipankar Srimani) Length of research experience: 05 Years
Academic distinction	 : Graduate Aptitude Test in Engineering, GATE 2018: Score 578 and Rank 466. CSIR NET December 2017: CSIR JRF with AIR-49. SLET 2017 (North East Region). : Organic Synthesis, Green Chemistry, Homogeneous Catalysis, dehydrogenative Coupling
Area of Interest	0)
	: 1) "Cu(I)/CTAB: An efficient catalytic system for azide- alkyne cycloaddition reactions in water".
	2) "Preparation of Phosphine free Ni-catalyst for various
Project	dehydrogenative coupling reaction".
	No. of Research paper published: 06
	i) Abdul Aziz Ali, Rahul Sharma , Prakash J. Saikia and Diganta Sarma, "CTAB promoted CuI catalyzed green and economical synthesis of 1,4-disubstituted-1,2,3- triazoles". <i>Synth. Commun.</i> 2018 , <i>48</i> , 1206–1212.
Publications	 ii) Nandita Biswas, Rahul Sharma and Dipankar Srimani; "Ruthenium Pincer Complex Catalyzed Selective Synthesis of C3 Alkylated Indoles and Bisindolylmethanes Directly from Indoles and Alcohols". Adv. Synth. Catal. 2020, 362, 2902–2910. iii) Rahul Sharma, Avijit Mondal, Arup Samanta, Nandita Biswas, Babulal Das and Dipankar Srimani, "Well- Defined Ni SNS Complex Catalysed Borrowing Hydrogenative α-Alkylation of Ketones and Dehydrogenative Synthesis of Quinolines". Adv. Synth. Catal. 2022, 364, 1–10. iv) Avijit Mondal, Rahul Sharma, Debjyoti Pal and Dipankar Srimani, "Manganese catalyzed switchable C-
	 alkylation/alkenylation of fluorenes and indene with alcohols". <i>Chem. Commun.</i> 2021, 57, 10363–10366. v) Avijit Mondal, Rahul Sharma, Debjyoti Pal and Dipankar Srimani, "Recent Progress in the Synthesis of

Heterocycles through Base Metal-Catalyzed Acceptorless Dehydrogenative and Borrowing Hydrogen Approach". *Eur. J. Org. Chem.* **2021**, *2021*, 3690–3720.

- vi) Avijit Mondal, Rahul Sharma, Bishal Dutta, Debjyoti Pal and Dipankar Srimani, "Well-Defined NNS-Mn Complex Catalyzed Selective Synthesis of C-3 Alkylated Indoles and Bisindolylmethanes Using Alcohols". J. Org. Chem. 2022, 87, 3989–4000.
- vii) Rahul Sharma, Arup Samanta, Bitan Sardar, Mithu Roy and Dipankar Srimani, "Progressive Study on Ruthenium Catalysis for De(hydrogenative) Alkylation and Alkenylation Using Alcohols as Sustainable Source". Org. Biomol. Chem. 2022, 20, 7998-8030.
 - Rahul Sharma, "Chapter 3: Photoredox Catalysis: A discussion on general mechanism and exploration in various bond activation reactions", "Modern Research Trends in Chemical Science and Technology", page no-41, ISBN: 978-93-90589-89-0.
- Rahul Sharma, "Chapter 5: Eosin Y catalysed visible light mediated photoredox catalysis: Representative examples and proposed mechanistic pathways", "Drifting trends in the ever-evolving field of chemistry", page no- 72 – 88, ISBN: 978-93-92699-83-2.

: Presented Poster presentation in "North-East Research Conclave (NERC) -2022" held in IIT Guwahati. Title: Selective Synthesis of C-3 Alkylated Indoles and Bisindolylmethanes Using Alcohols Catalysed by Well-Defined NNS-Mn Complex.

Conference attended

Book Chapters

i)