

Dr. Rajib Sarkar
DEPT OF CHEMISTRY
PUBLICATION DETAILS

UGC CARE/PEER-REVIEWED JOURNAL DETAILS

SL NO	TITLE OF THE PAPER	NAME OF THE JOURNAL	UGC CARE/PEER-REVIEWED JOURNAL	ISSN NO	YEAR OF PUBLICATION
1	An efficient one pot ipso-nitration: structural transformation of a dipeptide by N-terminus modification	RSC Advances	UGC CARE listed Journal (Scopus)	2046-2069	2015
2	Solvent assisted structural diversity: supramolecular sheet and double helix of a short aromatic γ -peptide	RSC Advances	UGC CARE listed Journal (Scopus)	2046-2069	2015
3	Solvent Assisted Room Temperature Synthesis of Magnetically Retrievable and Reusable Dipeptide Stabilized Nanocrystals for Suzuki-Miyaura Cross-Coupling	Macromolecular Symposia	UGC CARE listed Journal (Scopus)	1022-1360 (print) & 1521-3900 (Web)	2016
4	C-Terminal -Aib-L-Leu-OMe Segment Promotes Schellman Loop from α -Peptides with Alternating L-Leu and Aib Residues in the Crystal State	ChemistrySelect	UGC CARE listed Journal (Scopus)	2365-6549	2017
5	Alpha-Aminoisobutyric acid: A single amino acid chain inverter	Journal of Indian Chemical Society	UGC CARE listed Journal (Scopus)	0019-4522 (print) & 2667-2847 (Web)	2018
6	Synthesis of carbostyryl-based amino acid and foldamers	Trends in Organic Chemistry	PEER-REVIEWED JOURNAL	0972-4362	2020
7	Protecting group assisted structural diversity: β -sheet to rhombus-shaped structure of a short aromatic γ -peptide	Arkivoc	UGC CARE listed Journal (Scopus)	1551-7004 (print) & 1551-7012 (Web)	2022
8	Organic Electrosynthesis: A Promising Green Tool in Solving Key Steps for the Total Synthesis of Complex Natural Products	Current Green Chemistry	UGC CARE listed Journal (Scopus)	2213-3461 (Print) & 2213-347X (Web)	2024
9	Electrochemistry-enabled residue-specific modification of peptides and proteins	Organic & Biomolecular Chemistry	UGC CARE listed Journal (Scopus)	1477-0520 (print) 1477-0539 (web)	2024
10	Discovery and development of tyrosine-click reaction for the site-selective labelling of proteins.	Chemical Communications	UGC CARE listed Journal (Scopus)	1359-7345 (print) & 1364-548X (Web)	2024

11	Tryptophan-specific modification and diversification of peptides and proteins	Organic & Biomolecular Chemistry	UGC CARE listed Journal (Scopus)	1477-0520 (print) & 1477-0539 (web)	2025
12	Design and Development of Magnetically Retrievable Nanohybrid Catalyst for the Green Synthesis of Paracetamol	Current Green Chemistry	UGC CARE listed Journal (Scopus)	2213-3461 (Print) & 2213-347X (Web)	2025
13	Residue-specific protein-glycan conjugation strategies for the development of pharmaceutically promising glycoconjugate vaccines: A recent update	Carbohydrate research	UGC CARE listed Journal (Scopus)	0008-6215	2025
14	Site-selective cleavage of peptides and proteins targeting aromatic amino acid residues	RSC Advances	UGC CARE listed Journal (Scopus)	2046-2069	2025
15	Multicomponent reaction (MCR): An emerging toolbox of protein bioconjugation	Organic & Biomolecular Chemistry	UGC CARE listed Journal (Scopus)	1477-0520 (print) & 1477-0539 (web)	2025

CHAPTER IN BOOKS/BOOK DETAILS

SL NO	NAME OF THE BOOK	TITLE OF THE CHAPTER	CHAPTER IN BOOKS/BOOK	ISBN NO	YEAR OF PUBLICATION
1.	Structural Transformation of Synthetic Peptides	-	-	978-620-6-76850-0	2023
2.	Modern Trends in Multidisciplinary Research Volume I	Self-Assembly of Short Synthetic Peptides: Effect of Amino Acid Sequence, Peptide Concentration, pH and Sonication	-	978-93-5566-403-7	2022

SEMINAR DETAILS

SL NO	TITLE OF THE SEMINAR & ORGANISING COMMITTEE	DATE	TITLE OF THE PAPER PRESENTED	NATIONAL/ INTERNATIONAL
1.	Recent Advances in Molecules & Materials	2 nd -3 rd August, 2018	α -Aminoisobutyric acid-based chain invention.	International

	organized by Haldia Institute of Technology.			
2.	Rethinking Modernity: Interdisciplinary Perspectives organized by Aliah University.	11 th -12 th August, 2018	Modernity in Daily-life & its Impact on Environment: A Chemical Analysis.	International
3.	Shifting Paradigm for Sustainable Development organized by Jharkhand Rai University.	18 th -19 th December, 2021	Nitropeptide-derived Pd-embedded Fe ₃ O ₄ nanoparticles: A Green catalyst for Suzuki-Miyaura cross-coupling reaction	International
4.	Sustainable Development: Issues, Prospects & Challenges organized by Jadavpur University, Kolkata.	17 th -18 th August, 2022	Synthesis of peptide stabilized magnetic nanoparticle-Pd conjugate: A step towards the sustainable development of environment-friendly catalysis	International
5.	Recent Advances on Green & Sustainable Developments organized by Akal University, Panjab.	6 th -8 th September, 2023	Electrochemistry-induced modification of peptides and proteins	International
6.	Recent Advances on Green Catalysis & Drug Discovery organized by Akal University, Panjab.	4 th -6 th September, 2024	Magnetically retrievable nanocatalyst for the green synthesis of paracetamol	International

OP/RC/WORKSHOP/SHORT TERM COURSE/FIP DETAILS

SL NO	COURSES ATTENDED	ORGANISING COMMITTEE	DATE
1	Orientation Programme	UGC-HRDC, Ranchi University	04-01-2018 to 31-01-2018
2	Refresher Course in Disaster Management	UGC-HRDC, NBU	01-03-2019 to 21-03-2019
3	Environmental Studies and Disaster Management	UGC-HRDC, Mizoram University	30-11-2021 to 13-12-2021
4	Indian Knowledge System in the Context of Higher Education: Relevance and implications in the contemporary era	UGC-MMTTC, Assam University, Silchar	27-03-2025 to 11-04-2025