Curriculum-Vitae

Dr. Adinath Majee
Professor
Department of Chemistry
Visva-Bharati (A Central University)
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Summary:

* **165 publications** in peer-reviewed journals including five **Review** articles.
* **CRSI Bronze** medal in the year **2020**
* **FRSC** April, **2021**
* **31 years** research experience in Organic Synthesis (**Methodologies for Synthesis of Bio-active Molecules and Asymmetric synthesis).**
* Post-doctoral experience in **France** (***CIES Fellow***).
* Post-doctoral experience in **Spain.**
* Post-doctoral experience in **UK** (***BOYSCAST Fellow , DST, Govt. of India***).
* Visiting Scientist, Ural Federal University, **Russia**
* Visited Yunnan University, Kunming, **China**
* Visited National University of Singapore, **Singapore**
* **Independent Research** Work/ Supervisor of a research group.

Research Interest:

Development of novel reagents, catalysts, new synthetic methodologies and asymmetric synthesis.

Personal information:

Male, Married, Born on 1st September, 1970 in India (Purulia, West Bengal).

Academic qualifications:

1987-1990 : B. Sc. (Honours in Chemistry), Saldiha College, The University of Burdwan, West Bengal, India. **Grade**- Second Class (58.12 %).

1991-1993 : M. Sc. (Chemistry-Organic Special), Visva-Bharati (A Central University), **Grade**-First Class (74.6). **Rank** - Third in the First Class.

1994-1998 : Ph. D. (Science), Indian Association for the Cultivation of Science, /(Degree awarded from Jadavpur University) Kolkata, India.

Title of the thesis : "Search of Novel Methodologies for Some Fundamental Reaction Involving Zinc-and Surface Mediated Reactions"

Area of Study: The main objective of the work is to introduce simple, mild and useful methodologies for the selective transformations of important functionalities through development of new and novel reagents. It has been divided in two – parts. Part – I, in three sections reports metal mediated reaction in organic synthesis. In section –I, allylation of carbonyl compound with commercial zinc dust has been described. In section – II, preparation ofβ,γ-unsaturated ketones have been demonstrated. Section – III, covers the regioselective allylation of terminal alkynes. In part – II, a very simple and general procedure for reductive amination of conjugated carbonyl compound has been discussed using surface mediated solid phase reaction on silica gel.

A) Academic Profile

a) Award and Scholarships:

2020 CRSI Bronze medal
2010 (Jul) – 2010 (Dec) BOYSCAST Fellowship (DST, Govt. of India) worked in UK.
2006 (Jul) – 2006 (Aug) Postdoctoral Fellowship, in ICIQ in Spain.
1999 (Feb) – 2000 (Jan) Postdoctoral Research as a CIES research Fellow in France.
1996 (Jan)-1998 (Dec) Senior Research Fellowship during Ph. D. studies in IACS.
1994 (Jan) – 1995 (Dec) Junior Research Fellowship during Ph. D. studies in IACS.
1993 (June) Qualified CSIR –JRF in chemical Science.
1993 Qualified Graduate Aptitude Test in Engineering (**GATE**) for Fellowship.
1992- Merit Scholarship during Postgraduate studies.

b) Editorial Advisory Board Member :

1. "The Open Catalysis Journal." Bentham Publication
2. "Conference Paper in Science" Hindwai Publication

c) Reviewer of Journals:

Organic Letters, Journal of Organic chemistry, Green Chemistry, Organic Frontiers, Organic & Biomolecular Chemistry, Tetrahedron Letters, Journal of Molecular Catalysis A, Canadian Journal of Chemistry, Indian Journal of Chemistry B, Journal of Indian Chemical Society, Organic Chemistry Letter , The Open Catalysis Journal, Green Chemistry Review and letter, Current Organic Synthesis

d) Present Area of Research:

Synthesis and Characterization of some organic compounds which are biologically active using new methodologies with special emphasis to green chemistry using Organocatalytic process. I had collaboration with Prof. A. T. Khan, Department of Chemistry, IIT Guwahati and Prof. Debasis Das, Department of Chemistry, University of Calcutta, working for synthesis and characterization of metal complexes with transition and post transition metals with the ligands containing nitrogen oxygen and sulfar as donor center. I have an international collaboration with Prof. G. V. Zyryanov, Ural Federal University Russia in the field of synthetic organic chemistry and completed one project (2016-2019). The use of these metal complexes in important organic transformation is my main area of work in this Project. Instead of these I am very much interested about the organic reaction in Aqueous medium.

e) Ongoing Projects: NIL

f) Completed Project: (9)

(1) "Preparation and Application of Imidazolium Based Zwitterion and Ionic Liquid as Organocatalyst in Organic Synthesis with Special Emphasis on Epoxide and Aziridine Chemistry in Green Aspects"
Sponsored Agency: CSIR, Govt. of India Ref. No. 02(0383)/19/EMR-II dated 20-05-2019
Principal - Investigator. Total Fund: Rs. 22,00,000/-

(2) "Development of New Atom-Efficient Synthetic Methodologies for Organic and Organometallic Synthesis of Target (Hetero)- and Macrocycles for The Needs of Industry and Pharmacy".
Sponsored Agency: DST-RSF Govt. of India Ref. No. INT/RUS/RSF P-08 Date 05-09-2016
Principal - Investigator. Total Fund: 46,28,580/-

(3) "Exploration of Aprotic Imidazolium Based Zwitterion as Oragnocatalyst in Organic synthesis."
Sponsored Agency: DST, Govt. of West Bengal (DST, GOWB, Grant no. ST/P/S & T/4G-2/2014)
Co- Investigator. Total Fund: 11,43,000/-

(4) "Exploration of functionalized nano materials in coupling reaction synthesis of organic molecules having potential applications in medicinal and material chemistry."
Sponsored Agency: CSIR, Govt. of India (02)(0168)/13/EMR-II Dated 10-10-2013
Co- Investigator. Total Fund: 18,25,000/-

(5) “Organocatalytic Ring Opening of Aziridine: Search for Regio- and Stereoselective Route to Synthesize Functionalized Amines.”
Sponsored Agency: BRNS (DAE) Govt. of India Ref. No. 37(2)/14/35/2014/BRNS-563 Dated 10-06-2014
Principal - Investigator. Total Fund: 22,40,500/-

(6) “Development of some ‘one pot multi-component reaction’ involving carbon-heteroatom bond formation by using Cu salt, Indium salt and L-Proline as catalyst”.
Sponsored Agency : UGC, Govt. of India (Ref. No.: PSW-171/11-12 Dated 29.02.12).
Co- Investigator. Total Fund: 1,92,000/-

(7) “Ionic liquids and catalysts with ionic tag: Preparation and their application in organic synthesis.”
Sponsored Agency: DST, Govt. of India (SR/S5/GC-05/2010) (2010-2013)
Co- Investigator. Total Fund: 38,25,000/-

(8) “Organocatalysis for multicomponent reactions in organic synthesis and asymmetric approach for Barbier and Mannich reaction”.
Sponsored Agency: CSIR, Govt. of India (01(2251)/08/EMR-II (2008-2011)
Principal Investigator. Total fund: 14,76,000/-

(9) “Acyclic Compartmental Ligands Complexes of Transition and Post-Transition Metal: Synthetic Analogues of Metallobiosites.”
Sponsored Agency : CSIR, Govt. of India
Duration – Three years (Completed)
Co- Investigator. Total Fund: 12,00,000/-

g) Research Guidance : (awarded-15)

15. Title: “Synthesis of Novel Nanoporous Pure Organic and Organic-inorganic Hybrid Nanomaterials for Heterogeneous Catalysis in Organic Synthesis and Other Environmental Applications” - Ph. D. degree awarded (26-07-2023) to **Mr. Bijan Krishna Chadra.**
14. Title: *“*Investigation of Some Selective Strategies for C-C and C-Heteroatom Bond Formation Involving Aziridine and Other Organic Framework.” - Ph. D. degree awarded (08-09-2022) to **Mr. Satayjit Samanta.**
13. Title: “Studies of Organocatalysts and Some Other Catalytic Systems for Formation of C-C and C-N Bonds in Organic Synthesis” - Ph. D. degree awarded (15-09-2021) to **Mrs. Aramita De**

12. Title: *"*Development of Synthetic Methodology for Synthesis of Heterocyclic Compounds with Special Reference to Green Chemistry*"*– Ph. D. degree awarded (15-02-2021) to **Mr. Rana Chatterjee**
11. Title: "Development of Some Methodologies for Organic Reactions Using Organocatalysts and Other Simple Catalytic Systems"– Ph. D. degree awarded (17-01-2020) to **Mr. Sachinta Mahato**
10. Title: "Development of New Synthetic Methodologies to Synthesize Useful 1,2-Difunctional Compounds from Aziridines and Simple Alkenes" –Ph. D. degree awarded (30-09-2018) to **Ms. Nirnita Chakraborty**
9. Title: "Development of Novel Methodologies for The Synthesis and Functionalization of Imidazoheterocycles"–Ph. D. degree awarded (15-05-2017) to **Mr**. **Kamarul Monir**
8. Title: "Development of Novel Methodologies and Biological Evaluation of Some Important Organic Compounds"–Ph. D. degree awarded (29-02-2016) to **Mr. Subhanjan Mitra**
7. Title: "Organocatalyst and Some Other Simple Reagents for Useful Transformations in Organic Synthesis" –Ph. D. degree awarded (13-10-2014) to **Mr. Sougata Santra**
6. Title: "Development of New Methodologies Using Organocatalysts and Lewis Acid for Multicomponent Reactions in Organic Synthesis" –Ph. D. degree awarded (08-02-2014) to **Mr. Sudarshan Das**
5. Title: "Synthesis of Functionalized Heterocyclic and Biologically Active Compounds Using Ionic Liquid and Other Simple Reagents" –Ph. D. degree awarded (15-01-2013) to **Mr. Matiur Rahman**
4. Title: "Search of Novel Methodologies for The Transformations of Some Key Functional Groups Involving Zinc Tetrafluoroborate and Other Simple Reagents" –Ph. D. degree awarded (23-03-2012) to **Mr. Shrishnu Kumar Kundu**
3. Title: "Synthesis, Spectroscopic and Thermal Studies of N, O and S Donor Ligand Complexes of Transition and Post-Transition Metal Ions" –Ph. D. degree awarded (30-08-2011) to **Ms. Manami Ghosh**
2. Title:"Synthesis of Biologically Active Compounds and Development of New Synthetic Methodologies" –Ph. D. degree awarded (13-04-2007) to **Mr. Samimul Islam**
1. Title : "Development of New Synthetic Methodology in Organic Synthesis by Employing Metal Catalyzed Oxidation of Bromide by Hydrogen Peroxide and Using Organic Ammonium Tribromides" –Ph. D. degree awarded (02-02-2006) to **Ms. Priti Rani Sahu**

Research Associate: Dr. Anirban Sarkar (CSIR, 01-04-2013 to 31-03-2015)

Research Scholar Registered for Ph. D/ Working (5)

1. Mr. Shuvankar Sarkar (Submitted Thesis May 2024)
2. Mr. Satyajit Pal (SRF)
3. Mr. Santosh Sing Sardar (SRF)
4. Mr. Tanmay Pramanik (JRF)
5. Mr. Sudip Mondal (JRF)
6. Mr. Sanshay Sen (JRF)

Master's students Project (39)

2024

1. Title: "A Review on the Synthetic Routes to *OXAZOLINES*"-M. Sc. degree awarded to **Mr. Ramkrishna Misra**
2. Title: "A Review on the Synthetic Routes to α-Ketoamide"- M. Sc. degree awarded to **Mr. Sourav Mukherjee**
3. Title: "A Review on the Synthetic Routes to Pyrroles from Azirines" -M. Sc. degree awarded to **Mr. Souvik Sana**

2023

1. Title: "Visible-Light-Mediated Spiroannulation of Benzoquinones with Vinyl Azides" - M. Sc. degree awarded to **Ms. Ankita Mandal**
2. Title: "Synthesis of Functionalised Indole Derivatives using Iodine and DMSO *via* Tandem Cyclization"- M. Sc. degree awarded to **Mr. Satyajit Samanta**
3. Title: "A Review on the Synthetic Routes to *β*-Keto Ethers" M. Sc. degree awarded to **Mr. Shubhra Mohan Das**

2022

1. Title: "Molecular iodine-catalyzed Thioamination 1,4-Naphthoquinones" - M. Sc. degree awarded to **Ms. Anindita Garai**
2. Title: "Imidazole based Ionic liquid: Efficient Organocatalyst for the one-pot synthesis of propargylamines"- M. Sc. degree awarded to **Mr. Basanta Bhunia**
3. Title: "Synthesis of 4-Hydroxy-3-thiomethylcoumarins using imidazolium based børnsted acid ionic liquid as organocatalyst"- M. Sc. degree awarded to **Mr. Chandan Laru**
4. Title: "*N*-iodosuccinimide (NIS) promoted vicinal diamination of *α*, *β*-unsaturated ketones under mild, efficient and metal free condition" - M. Sc. degree awarded to **Ms. Sudipta Paul.**

2021

1. Title: "Reductive Amination: A Review and proposed Leuckart-Wallach-Type Chemoselective Synthesis of Tertiary Amines"- M. Sc. degree awarded to **Mr. Ramit Mondal**
2. Title: "A brief review on synthesis of Substituted Benzimidazole"- M. Sc. degree awarded to **Mr. Sayan Gorai**
3. Title: "Synthesis of 2-imidazolines : A brief review and proposed synthesis of *N*-tosylaziridines and nitriles"-M. Sc. degree awarded to **Mr. Srishendu Gosh**

2020

1. Title: "Brønsted Acidic Ionic Liquid–Catalyzed Tandem Trimerization of Indoles: An Efficient Approach towards the Synthesis of Indole 3,3'-Trimers under Solvent-Free Conditions"-M. Sc. degree awarded to **Ms. Alolika Gayen**
2. Title: "Synthesis of 2-imidazolines by co-grinding of *N*-tosylaziridines and nitriles**"**-M. Sc. degree awarded to **Ms. Ankita Biswas**
3. Title: "Self-Catalyzed Rapid Synthesis of N-Acylated/N-Formylated α-Aminoketones and N-Hydroxymethylated Formamides from 3-Aryl-*2H*-Azirines and 2-Me/Ph-3-Aryl-*2H*-Azirines"-M. Sc. degree awarded to **Ms. Mousumi Maji**
4. Title: "Synthesis of *N*-Alkoxylated Benzimidazoles"-M. Sc. degree awarded to **Mr. Pravash Banerjee**
5. Title: "Visible-Light-Induced Regioselective C(sp^3)-H Acyloxylation of 2-Aryl-*2H*-azirines with (Diacetoxy)iodobenzene"-M. Sc. degree awarded to **Mr. Santanu Karmakar**

2019

1. Title: "Iron (III)-Catalyzed Three-Component Cascade Reaction between Anilines, Aldehydes and Nitroalkanes: Facile Synthesis of 2-Arylquinoline Scaffolds under Ambient Air"-M. Sc. degree awarded to **Mr. Bharat Chandra Hansda**
2. Title: "Vinylation of Carbonyl Oxygen in 4-Hydroxycoumarin: Synthesis of Heteroarylated Vinyl Ethers"-M. Sc. degree awarded to **Mr. Rajesh Mahato**
3. Title: "An Efficient method for the preparation of Imidazolines via Metal-free and Solvent-free Reaction Applying A Simple Grindstone Procedure"-M. Sc. degree awarded to **Mr. Sudip Mondal**

2018

1. Title: "Zwitterionic Molten Salt: An Efficient Organocatalyst for the Synthesis of Bis(Indolyl)Methanes and Dipyrromethanesunder Solvent-Free Conditions at Ambient Temperature"-M. Sc. degree awarded to **Mr. Arindam Chatterjee.**

2. Title: “Synthesis of α,β-Epoxy Ketone by One Pot Two Component Reaction under Neat Condition”-M. Sc. degree awarded to **Mr. Pinaki Nad.**

2017

1. Title: “Zwitterionic imidazolium salt: An efficient catalyst for tetrahydropyranylation of different alcohols”-M. Sc. degree awarded to **Mr. Satyajit Pal**
2. Title: “BrønstedAcidic Ionic Liquid-Catalyzed Tandem Reaction: An Efficient Approach towards Regioselective Syntheses of Pyrano[3,2-*c*]coumarins under Solvent-free Conditions Bearing Lower E-factors” -M. Sc. degree awarded to **Mr.Tejendra Nath Mondal**

2016

1. Title: “Synthesis of Aziridine from Olefins”-M. Sc. degree awarded to **Mr. Sourav Pan**
2. Title: “Regioselective Ring Opening of Aziridines Using Organocatalyst”-M. Sc. degree awarded to **Mr. Samaresh Roy**
3. Title: “Regioselective 1,2-Difunctionalization of Olefin””-M. Sc. degree awarded to **Ms. Mrittika Mohar**

2015

1. Title: “Copper(I)-Catalyzed Oxidative Coupling between 2-Aminobenzothiazole and Terminal Alkyne: Formation of Benzothiazine ”-M. Sc. degree awarded to **Ms. Mullicka Mandal**
2. Title: “Combination of $NH_2OH{\cdot}HCl$ and $NaIO_4$: An Effective Reagent for Molecular Iodine-free Regioselective 1,2-Difunctionalization of Olefin” M. Sc. degree awarded to **Ms. Shrabani Saha**
3. Title: “$FeCl_3/ZnI_2$-Catalyzed Synthesis of Benzo[d]imidazo[2,1-b]thiazole through Aerobic Oxidative Cyclization between 2-Aminobenzothiazole and Ketone”-M. Sc. degree awarded to **Ms. Sarmistha Mondal**

2014

1. Title: “Indium triflate catalyzed direct synthesis of napthofurans from napthols and nitroalkenes”- M. Sc. degree awarded to **Ms. Nasrin Khatun**
2. Title: “Environmentally benign synthesis of novel chalcogenophosphates”-M. Sc. degree awarded to **Mr. Kallol Mukherjee**

2013

1. Title: “Iron(III)-Catalyzed Synthesis of Imidazo[1,2-a]Pyridines and Easy Access towards Zolimidine**”** -M. Sc. degree awarded to **Mr. Indranil Bhattacharjee**

2012

1. Title: “Use of Zwitterionic-Type Molten Salt at Room Temperature for the One-Pot Synthesis N-substituted decahydroacridine-1, 8-diones in Water-Methanol”- M. Sc. degree awarded to **Ms. Ninita Chakraborty**
2. Title: “AFacile Synthesis of Functionalized Pyranocoumarins Catalyzed by Copper Triflate under Solvent-Free Conditions”- M. Sc. degree awarded to **Mr. Subhra Kanti Roy**
3. Title: “Sulfonation of Indoles at the 3-Position with Sulfonyl Chlorides in the Presence of Copper Iodide”- M. Sc. degree awarded to **Mr. Soumendra Nath Mukhopadhyay**
4. Title: “Task Specific Ionic Liquid Catalyzed Efficient Synthesis of 2-Aryl-1-Arylmethyl-1*h*-Benzimidazoles” - M. Sc. degree awarded to **Mr.Chandan Saha**
5. Title: “Task-Specific Ionic Liquid Catalyzed Efficient Synthesis of 3-Alkenylated Indoles” - M. Sc. degree awarded to **Mr. Arka Saha**

i) Attended in different symposium:

1. “Recent Trends in Bioorganic and synthetic organic Chemistry” Symposium to pay tribute to LouesPatuer and Phanindra Chandra Dutta” Organised by RSC, Eastern India Section, Kolkata, 3-5 December, 1997
2. “National symposium on Recent Advances in Structure Synthesis nd Function of biomolecules” February 4- 6, 1999, Department of chemistry, Bose Institute, 93/1, A. P. C. Road, Calcutta – 700009.
3. “Symposium, chemistry in the new millennium Retrospect and Prospect” 17-19 Feb, 2000, Organised by RSC, Eastern India Section, Kolkata
4. “Current Perspectives in Organic Chemistry” A Symposium to Celebrate 125 years of I.A.C.S. January 24-25, 2002, Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata – 700032
5. “National Symposium on Organic Chemistry”, RECENT TRENDS AND PROSPECTS, April 17, 2002, Department of Chemistry, Jadavpur University, Kolkata – 700032
6. “First Scientific Meeting Chemical Research Society of India (Kolkata Chapter)”, Celebration of Chemistry, August 01, 2003, Indian Association for the Cultivation of Science, Jadavpur, Kolkata – 700032
7. “National Symposium on Organic Chemistry – II (NSOC)”, CURRENT TRENDS AND PROSPECTS, December 17, 2003, Department of Chemistry, JadavpurUniversity , Kolkata – 700032
8. “Second Scientific Meeting Chemical Research Society of India (Kolkata Chapter)”, Celebration of Chemistry, August 03, 2004, Department of Chemistry, The University of Burdwan, Burdwan - 713104

9. "International symposium on "Current Perspectives in Organic Chemistry" December 7-9, 2006, Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata – 700032
10. "International Symposium on Frontiers of Functional Materrials" 6-7 January, 2009 Department of Chemistry, University of Calcutta, Kolkata
11. "International symposium on Organic Chemistry: Trends in 21st Century" December 10-12, 2009, Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata – 700032
12. "Loughborough Astra Zenic Synthesis Symposium", Department of Chemistry, Loughborough University, UK, LeicestershireLE11 3TU, UK on 13-10-2010
13. "New Horizons in Natural Products Chemistry" School of chemistry,The University of Nottingham , University Park, Nottingham , NG7 2RD, UK on 03-11-2010
14. "National Symposium on Organic Chemistry – IV (NSOC - IV)", MODERN TRENDS AND PERPECTIVES, 2nd and 3rd February, 2011, Department of Chemistry, JadavpurUniversity Kolkata – 700032
15. "National Conference on Recent Trends in Organic Synthesis-2011" 24th – 26th February, 2011, School of Chemistry, BharatidasanUniversity, Tiruchirapalli – 620024,
16. National Seminar on "Science and Nature: Tagores's vision and its relevance" 12th and 13th March, 2011, Siksha-Bhavana, Visva-Bharati, Santiniketan – 731235, West Bengal, India
17. "UGC Sponsored One-Day Seminar on International Year of Chemistry: Impact of Chemistry on Our Lives" March 25, 2011, Department of Chemistry, Visva-Bharati, Santiniketan -731235
18. Chemical Research Society of India (Kolkata Chapter) Symposium (IX)On 'Chemical Research in the First Decade of 21st Century' August 6, 2011, Department of Chemistry, Visva-Bharati, Santiniketan-731235
19. "UGC Sponsored National Symposium on Frontier of Chemistry" Organised by Department of Chemistry, Gour Mahavidyalaya, Malda held on 15-17th November 2011.
20. "UGC Sponsored two days National Conference on Recent Advancement in Chemical Science: 2011" Organised by Department of Chemistry, J. K. College, Purulia held on 18-19th November 2011.
21. "National Seminar on Recent Advances in Chemistry" Organised by Department of Chemistry, Jadavpur University, Kolkata- 7000032, held on 10-11th February 2012.
22. CRSI Symposium (X) on "Modern Trends in Chemistry" August 2012, Department of Chemical Science, IISER Kolkata, (Mohanpur Campus)

23. Science Academies' Lecture Workshop on "Recent Developments in Chemistry" on 29th November -1st December 2012 Department of Chemistry, Visva-Bharati, Santiniketan-731235
24. "UGC Sponsored two days National Conference on Green chemistry and Sustainable Agriculture: A step to better future" Organised by Department of Chemistry, Panchakot Mahavidyalaya, Purulia. West Bengal, held on 1-2nd February, 2013
25. "International Symposium on Molecular Organization and Complexity: A Chemical Perspective" Organised by Department of Chemistry, University of Calcutta, Kolkata- 700009, held on 6-8th February 2013
26. "International Conference on Frontiers in Energy, Environment, Health and Materials Research (EEMR - 2013) - August 12-13, 2013, CSIR-IMMT, Bhubaneswar, India
27. "Recent Development in Chemistry" 3-5th October 2013 organized by Department of Chemistry, NIT Durgapur, West Bengal, Title: *Neat Reaction: A Green Protocal*
28. "International Conference on Harnessing Natural Resources for Sustainable Development: Global Trends" 29-31st January 2014, Organized by Cotton College, Guwahati, Assam, Title: *Green approach for some well known organic reaction*
29. National Seminar on "RECENT ADVANCES IN CHEMISTRY" (NSRAC 2014), March 9, 2014, Department of Chemistry, Visva-Bharati, Santiniketan-731235
30. Attended as **invited Teacher** in the Twenty-fifth midyear meeting of the Indian Academy of Sciences at IISC Bangalore on 4th and 5th July and took part in the scientific programme and lectures and an interaction meeting with fellows and education panel members of academy on 3rd July 2104
31. "National symposium on Recent Advances in Chemistry and Industry" organized by Indian Chemical Society at Department of Chemistry, University of Calcutta, Kolkata- 700009, held on 1-2ndAugust 2014: Poster No. 13; Title : *Remarkable catalytic role of C2-H of the imidazolium-based acidic ionic-liquid in the reaction between 2-aminobenzamide and ketone*
32. "Symposium on Recent Progress in Chemistry 2014" Celebration of 153rd birthday of Acharya Prafulla Chandra Ray under CRSI Kolkata Chapter organized by Department of Chemistry, SKB University, Purulia, West Bengal - 723101, held on 13thAugust 2014 Title: *Synthesis of 2,2-disubstituted quinazolin-4(1H)-one catalyzed by imidazolium-based acidic ionic-liquid*
33. National conference on "Chemistry for better tomorrow-current Trends and Opportunity" organized by Department of Chemistry, SKB University, Purulia, West Bengal - 723101, held on 13th August 2014 Title: *Applications of Ionic liquids for Sustainable Synthesis.*

34. 5th Interdisciplinary Symposium on Materials Chemistry (ISMC-2014) December 9 – 13, 2014, Chemistry Division, Bhabha Atomic Research Centre, Mumbai – 400085, INDIA, Title: *Organic Syntheses under Neat Reaction Conditions: A Greener Prospect*.

35. Attended as **invited Teacher** in the 81st annual meeting of the Indian Academy of Sciences at IISER, Pune on November 6-8, 2105 and took part in the scientific programme and lectures and an interaction meeting with fellows and education panel members of academy on 5th November, 2015

j) Invited Lecture / Oral Presentation:

1. "UGC Sponsored National Symposium on Frontier of Chemistry" Organised by Department of Chemistry, Gour Mahavidyalaya, Malda held on 15-17th November 2011, on the topic *"**Application of some ionic liquids in green chemistry"***

2. "UGC Sponsored two days National Conference on Recent Advancement in Chemical Science: 2011" Organised by Department of Chemistry, J. K. College, Purulia held on 18-19th November 2011, on the topic *"**Development of some important methodologies in the light of Green technology for organic synthesis".***

3. "UGC Sponsored two days National Conference on Green chemistry and Sustainable Agriculture: A step to better future" Organized by Department of Chemistry, Panchakot Mahavidyalaya held on 1-2nd February, 2013, on the topic ***"Why do we need a green Chemistry".***

4. "Recent Development in Chemistry" 3-5th October 2013 organized by Department of Chemistry NIT Durgapur, West Bengal, on the topic *"**Neat Reaction: A Green Protocal"***

5. "International Conference on Harnessing Natural Resources for Sustainable Development: Global Trends" 29-31st January 2014, Organized by Cotton College, Guwahati, Assam, on the topic *"**Green approach for some well known organic reactions"***

6. **"**DST - INSPIRE internship winter camp" at Visva-Bharati, Santiniketan organized by ISERC, 13-17 January-2014 on the topic *"**Green chemistry: a step towards sustainable development and better future"***

7. National conference on "Chemistry for better tomorrow-current Trends and Opportunity" organized by Department of Chemistry, SKB University, Purulia,

West Bengal - 723101, held on 2-3December 2015 on topic ***"Applications of Ionic liquids for Sustainable Synthesis"***

8. **"**National Seminar on multifunctional polymer materials" POLY-2014", Department of Chemistry, Visva-Bharati, Santiniketan, 14-15 February-2015 on the topic ***"Polyaniline sulphate a mild reagent in organic Synthesis."***

9. "Recent Trends in Chemical Science" (RTCS-2015) organized by Department of Chemistry, Bankura Sammilani College, Bankura, Kenduadihi, Bankura, West Bengal – 722101, held on 16th July 2015 on topic: **"O*rganocatalysts and some other catalytic systems for sustainable organic synthesis"***

10. "National Seminar**,** entitled **"Chemistry for Better Tomorrow – Disarmament and Peaceful Uses of Chemistry"** on December 10, 2015. Department of Chemistry, Sidho-Kanho-Birsha University (SKBU), Purulia, West Bengal on topic: **"Regioselective ring opening of Aziridines."**

11. "International Conference on **, "Renewable Energy- Extension & Outreach"** on March 20-21, 2016. Department of Environmental Studies, Visva-Bharati, Santiniketan, on "**Green Approach for Rioselective ring opening of Aziridines."**

12. UGC Sponsored National Seminar**,** entitled **"Chemistry on Its Way: Impacts on the environment"** on September, 1 & 2, 2016. Department of Chemistry, Saldiha College, Bankura, west Bengal -722173 on **"Solvent and Catalyst-Free Organic Neat Reactions: A Drive Towards Sustainability"** ***(Alumni Lecture)***

13. One-day National Conference on **"Green Chemistry – Challenges and Opportunities in India"** on September 09, 2016**,** Durgapur Vishwagandha Science Society, 57- Mahabir Marg, C-Zone, Durgapur, Burdwan West Bengal – 713205, India**, www.viswagandha.org**on "**Neat Reactions in Organic Synthesis: One Step Forward Towards Sustainability"**

14. **"XX Mendeleev Congress on general and applied Chemistry",** 26-30, September, Ekateringburg, Russia. on the topic "**Regioselective Ring-Opening of Aziridines followed by Synthesis of Oxazolidines"**

15. National Seminar on **"Recent Development in Chemistry"** 4-6th October 2016 organized by Department of Chemistry NIT Durgapur, West Bengal, on the topic *"**Aziridines: Synthesis, Regioselective Ring-Opening and Formation of Oxazolidines"***

16. "National Science Seminar" 14-15th January 2017 organized by Suri Vidyasagar College, West Bengal, on the topic ***"Green Chemistry / Synthesis: One Step Forward Towards Sustainability"***

17. National seminar on "Recent advances in synthesis and catalysis" 9-11th of February 2011, organized by Department of chemistry, Dibrugarh University, Assam on the topic "**Regioselective Ring-Opening of Aziridines and Synthesis of Oxazolidines"**

18. "Department Lecture Series" on June 23, 2017**,** Department of Chemistry, Sidho-Kanho-Birsha University (SKBU), Purulia, West Bengal on topic: **"Neat Concept: The Recent Technique in Green Chemistry."**

19. "Lecture Series in 2017 organized by Royal Society of Chemistry (EIS)" on August 18, 2017**,** Department of Chemistry, Calcutta University, Wet Bengal on topic "**Neat Concept in Organic Synthesis: One Step Forward Towards Sustainability"**

20. National seminar on "Design, Synthesis, Characterization, Reactivity, Theoretical Study and Applications of Different Advanced Functional Materials" on March 27, 2019, organized by Department of Chemistry, University of Burdwan, West Bengal on the topic "**Studies of Some Methodologies Involving C-N and C-O Bond Formation."**

21. National Conference on "Chemistry for Sustainable Development (CSD 2019)" on **November 26-17,** 2019**,** Department of Chemistry, Sidho-Kanho-Birsha University (SKBU), Purulia, West Bengal on topic: **"Chemistry of Some Important Heterocycles in Organic Synthesis."**

22. Virtual Value Added Course on "Green Chemistry: Through Original Research" on August 12, 2020 organized by Department of Chemistry, Indus International University, V.P.O. Bathu, Distt – Una, Himachal Pradesh, India on topic: "**Green Approach of Some Important Reactions in Organic Synthesis"**

23. 4th International Conference (Virtual) on "Modern Synthetic Methodologies for Creating Drugs and Functional Materials (MOSM2020)" organized by Ural Federal University, Yekaterinburg, Russian Federation, on November 16-20, 2020 on the topic: **"Our Journey with Aziridine, Azirine and 4-hydroxycoumarine"**

24. 27th CRSI-NSC Meeting during 26th - 30th September, 2021 organized by IISER Kolkata on topic '**Our Endeavor to Explore Some Reactions of Aziridine, 2H-Azirine and 4-Hydroxycoumarine" (CRSI medal lecture)**

25. Two days national conference on "Green Technology and Sustainable Development" on 30th & 31st May 2024, organized by Department of Chemistry, NIT Patna, Bihar, India on the topic **"Exploration of Some Important Organic Reactions with Special Emphasis to Green Working practice"**

Resource person/Chairperson

1. **Acted as chairperson in "**DST ISPIRE internship camp" at Visva-Bharati, Santiniketan organized by ISERC, 9-12 September-2014
2. **Resource Person** (Two lectures on 13-10-2014) in 1st Refresher Course in Biological Sciences at the ASC, Golapbag, Burdwan University from October 10 to October 30,2014
3. **Acted as Chairperson in "**DST ISPIRE internship camp" at Visva-Bharati, Santiniketan organized by ISERC, 23-27 September-2019
4. **Acted as Chairperson in** "Sustainability & Interdisciplinarity in Chemical Sciences (SICS 2023) 60th Foundation Day Celebration of the 'Indian Photobiology Society' on July 13-15, 2023 in IISER Kolkata
5. **Acted as Chairperson in** "Green Technology and Sustainable Development" on 30th & 31st May 2024, organized by Department of Chemistry, NIT Patna, Bihar, India.

k) Publication in symposium:

1. "International Conference on Organic Synthesis (Bangalore)" 11-16th December, **1994**, "A Simple Zinc Mediated Allylation of Carbonyl Compound" A. R. Das, **A. Majee** and B. C. Ranu, *p-tue-11, page – 132*

2. "Third International Conference on the Chemistry and Application of Bromine and Bromine Containing Products". (February 3 – 7, **1997**. Baton Rouge, Louisiana, USA. "Use of Allyl Bromide and Its Derivatives in Combination with Commercial Zinc Dust to Produce Homoallyl Alcohol with Regio- and Stereoselectivity" B. C. Ranu, **A. Majee** and A. R. Das, **ORGABROM 97**, Abstract, *Page – 46*

3. "National symposium on Recent Advances in Structure Synthesis and Function of Biomolecules" February 4- 6, **1999**, Department of chemistry, Bose Institute, 93/1, A. P. C. Road, Calcutta – 700009. "A Simple and Efficient Method for Selective Deprotection of ter-Butyldimethylsilyl Ethers by Zinc Tetrafluoroborate in Water" B. C. Ranu, U. Jana and **A. Majee**, Poster No. 74, Page 31

4. "International Symposium on Frontiers of Functional Materrials" (6-7 January, **2009** Department of Chemistry, University of Calcutta, Kolkata) "A Convenient Synthesis of 1,5- benzothiazepine with Microwave Irradiation under Solvent or Catalyst free condition." **Poster No. 47**, M. Rahaman, D. Kundu, **A. Majee,** and A. Hajra

5. "International symposium on Organic Chemistry: Trends in 21st Century" December 10-12, **2009**, Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata – 700032. "Acidic Ionic Liquid Promoted One-Pot Synthesis of Hetero cyclic Dihydropirimidinones" M. Rahaman, S. Santra, **A. Majee,** *Poster No. – 8, Page 58*

6. "National Symposium on Organic Chemistry – IV (NSOC - IV)", MODERN TRENDS AND PERPECTIVES, 2nd and 3rd February, **2011**, Department of Chemistry, Jadavpur University Kolkata – 700032, "A Simple and Direct Synthesis of Arenofuran by Coupling Reaction of Nitroalkene with Naphthol/Phenol" D. Kundu, S. Santra, **A. Majee** and A. Hajra, Poster No. P-3F,

7. "National Conference on Recent Trends in Organic Synthesis-2011" 24th 26th February, **2011**, School of Chemistry, Bharatidasan University, Tiruchirapalli – 620024, "Coupling Between Nitroalkene and Phenol/Naphthol: A Simple and Direct Synthesis of Arenofuran via Cyclization Reaction" D. Kundu, A. K. Bagdi, B. Das, M. Rahman, S. Santra, **A. Majee** and A. Hajra, Poster No. PP-98, Page - 149

8. "International Conference on Frontiers in Energy, Environment, Health and Materials Research (EEMR - 2013)" - August 12-13, 2013, CSIR-IMMT, Bhubaneswar, India

9. "National symposium on Recent Advances in Chemistry and Industry" organized by Indian Chemical Society at Department of Chemistry, University of Calcutta, Kolkata- 700009, held on 1-2nd August 2014: Poster No. 13; Title: *Remarkable*

catalytic role of C2-H of the imidazolium-based acidic ionic-liquid in the reaction between 2-aminobenzamide and ketone

10. "Symposium on Recent Progress in Chemistry 2014" Celebration of 153rd birthday of Acharya Prafulla Chandra Ray under CRSI Kolkata Chapter organized by Department of Chemistry, SKB University, Purulia, West Bengal - 723101, held on 13th August 2014 Poster No. 3, Title: *Synthesis of 2,2-disubstituted quinazolin-4(1H)-one catalyzed by imidazolium-based acidic ionic-liquid*

11. **"**5th Interdisciplinary Symposium on Materials Chemistry (ISMC-2014)" December 9 – 13, 2014, Chemistry Division, Bhabha Atomic Research Centre, Mumbai – 400085, INDIA Title: Neat Reaction: A Green Tool**,** Poster No. -M-111

12. "Three days National Conference on Recent Development in Chemistry" on 04-06th October, 2016, NIT, Durgapur. - S. Mahato, N. C. Ghosal & A. Majee Title: Combination of $NH_2OH.HCl$ and $NaIo_4$*: an effective reagent for regioselective ring-opening of Aziridine*

13. "Three days National Conference on Recent Development in Chemistry" on 04-06October, 2016. NIT, Durgapur. R. Chatterjee, N. C. Ghosal and A. Majee, Title: Combination of $NH_2OH.HCl$ and $NaIO_4$: an effective reagent for the synthesis of Aziridines

14. "Interface between Chemistry and biology" on 21th December,2016, IICB, Kolkata, R. Chatterjee, N. C. Ghosal and A. Majee, Title: A mild and efficient synthesis of Aziridines.

15. "Interface between Chemistry and biology" on 21th December,2016**,** IICB, Kolkata - S. Mahato, N. C. Ghosal &A. Majee, Title: Regioselective Ring Opening of Aziridines Using Combination of $NH_2OH.HCl$ and $NaIo_4$

16. "National Seminar on Recent Trends in Chemistry Research" on 25-26th October, 2017, Department of Chemistry, Visva-Bharati, Santiniketan. - S. Mahato & A. Majee Title: A Domino Approach for the synthesis ofα-Iodofrom -,β-dicarbonyl Compounds from α-Epoxycarbonyls.

17. "National Seminar on Recent Trends in Chemistry Research" on 25-26October, 2017. Department of Chemistry, Visva-Bharati, Santiniketan. R. Chatterjee and A. Majee, Title: Studies of Regioselective Ring-Opening of Aziridines using CuOnano catalyst.

18. "International Conference "Science: Past, Present and Future" on December 12, 2017. Shyamsundar College in collaboration with Indian Chemical Society, Kolkata. S. Samanta &A. Majee Title: Synthesis of Diverse *β*-(Nitrooxy)-Substituted Amines by Regioselective Ring-Opening of Aziridines under Neat Conditions.

19. "National Symposium on Recent Advances in Chemistry Research (RACR-2018)" on 11th March, 2018, Department of Chemistry, Siksha-Bhavana, Visva-Bharati, Santiniketan 731 235, West Bengal, India, A. Dey &A. Majee, Title: Chemoselective Synthesis of tertiary Amines from Aldehydes Under Neat Conditions.

20. "National Symposium on Recent Advances in Chemistry Research" on 11March,2018. Department of Chemistry, Visva-Bharati, Santiniketan. R. Chatterjee and A. Majee, Title : Imidazolium Zwitterionic Molten Salt: An Efficient Organocatalyst for Reaction of Pyrroles as well as Indoles with Aldehydes for the Synthesis of Dipyrromethanes as well as Bis(indolyl) methanes under Neat Conditions at Room Temperature.

21. "National Symposium on Recent Advances in Chemistry Research" on11th March,2018, Department of Chemistry, Visva-Bharati, Santiniketan. - S. Mahato&A. Majee, Title: Synthesis of α,β-Epoxy Ketones By One Pot Two Component Reaction Under Neat Condition.

22. "National Symposium on Recent Advances in Chemistry Research (RACR 2018) on 11thMarch, 2018) Department of Chemistry, Visva-Bharati, Santiniketan, India.S. Samanta &A. Majee Title: Regioselective Ring-Opening of Aziridines under Neat Conditions: Synthesis of Diverse *β*-(Nitrooxy)-Substituted Amines.

23. "National Conference on Frontier Areas of Research and Applications Using Electron Microscopy" on 16th March, 2018, Department of Science and Technology, PURSE Program, Siksha-Bhavana and Palli-Siksha Bhavana, Visva-Bharati, Santiniketan 731 235, West Bengal, India, A. Dey &A. Majee, Title: Dual Task of Formic Acid on Aziridines: Regioselective Ring-opening and Tandem Ring-Opening/Closing Reaction to Oxazolidines

24. "International Conference on Advancement in science & Technology" on 3-4September, 2018, Indian JSPS Alumni Association in association with Department of Physics, Visva-Bharati, Santiniketan. - S. Mahato & A. Majee, Title: PIDA catalysed mild and efficient procedure for the synthesis of amides and ketoesters from acetylene with sulphonamides.

25. "International Conference on Advancement in science & Technology" on 3- 4 September, 2018. Indian JSPS Alumni Association in association with Department of Physics, Visva-Bharati, Santiniketan. R. Chatterjee and A. Majee, Title: Organocatalytic oligomerization of Indole in aqueous medium: One-Pot Synthesis of 2-[2,2-Bis(indol-3-yl)ethyl]anilines".

l) Paper Published in International Journals: (Total : 165)

For full publications please go to the link :

https://scholar.google.co.in/citations?hl=en&user=74IIaZwAAAAJ&view_op=list_works&sortby=pubdate

(Total publications**: 165 ;** Patent**; Nil;** h-index **: 40**; i10-index **: 95**; total citation **: >5415**)

Paper Published in International Journals: (Total : 165)

165.	**Visible-Light-Triggered Synthesis of *N*-α-Ketoacylated Sulfoximines by Denitrogenative and Oxidative Functionalization of Vinyl Azides** (journal article) Sarkar, Subhankar | Pal, Satyajit | Santra, Sougata | Zyryanov, Grigory V. | Majee, Adinath ***The Journal of Organic Chemistry, volume 89, issue 11, pages 8137–8145 (2024).*** 10.1021/acs.joc.4c00796
164.	**Studying the effectiveness of various chromophores of the 5-aryl-2,2′-bipyridine series for the sensitization of lanthanide(III) cations** (journal article) Majee, Adinath | Krinochkin, Alexey P. | Valieva, Maria I. | Starnovskaya, Ekaterina S. | Shtaitz, Yaroslav K. | Kopchuk, Dmitry S. | Santra, Sougata | Liu, Yuanli | Zyryanov, Grigory V. | Chupakhin, Oleg N. ***Journal of the Iranian Chemical Society, volume 21, issue 3, pages 731-740 (2024).*** 10.1007/s13738-023-02954-z
163.	**Visible-Light-Promoted Metal- and Photocatalyst-Free Reactions between Arylglyoxylic Acids and Tetraalkylthiuram Disulfides: Synthesis of α-Ketoamides** (journal article) Sarkar, Subhankar | Pal, Satyajit | Mukherjee, Anindita | Santra, Sougata | Zyryanov, Grigory V. | Majee, Adinath ***The Journal of Organic Chemistry, volume 89, issue 3, pages 1473-1482 (2024).*** 10.1021/acs.joc.3c02081
162.	**Visible-Light-Driven Denitrogenative C–C Bond Formation and Oxidative Difunctionalization of Vinyl Azides** (journal article) Sardar, Santosh Sing | De, Aramita | Pal, Satyajit | Sarkar, Subhankar | Santra, Sougata | Zyryanov, Grigory V. | Majee, Adinath ***Synlett, volume 35, issue 03, pages 291-296 (2024).*** 10.1055/a-2131-3208

161.	**Metal-free, tert -butyl nitrite promoted C(sp2)–S coupling reaction: the synthesis of aryl dithiocarbamates and analysis of antimicrobial activity by ‘ in silico ’ and ‘ in vitro ’ methods for drug modification** (journal article) Pal, Satyajit | Sarkar, Subhankar | Mukherjee, Anindita | Kundu, Anupam | Sen, Animesh | Rath, Jnanendra | Santra, Sougata | Zyryanov, Grigory V. | Majee, Adinath ***Green Chemistry, volume 25, issue 23, pages 9847-9856 (2023).*** 10.1039/D3GC03153E
160.	**Synthesis of Thioamides via Decarboxylative/Oxidative Cross-Coupling Reaction by Visible-Light Photocatalysis** (journal article) Sarkar, Subhankar | Pal, Satyajit | Santra, Sougata | Zyryanov, Grigory V. | Ghosh, Susanta | Majee, Adinath ***Asian Journal of Organic Chemistry, volume 12, issue 6 (2023).*** 10.1002/ajoc.202300141
159.	**Microwave-assisted Synthesis of Bioactive Six-membered O-heterocycles** (journal article) De, Aramita | Sarkar, Subhankar | Majee, Adinath ***Current Microwave Chemistry, volume 10, issue 2, pages 88-96 (2023).*** 10.2174/0122133356269695231120095457
158.	**Recent Trends in the Antidiabetic Prominence of Natural and Synthetic Analogues of Aurones** (journal article) Aluru, Rammohan | Mukherjee, Anindita | Zyryanov, Grigory V. | Majee, Adinath | Santra, Sougata ***Current Issues in Molecular Biology, volume 45, issue 10, pages 8461-8475 (2023).*** 10.3390/cimb45100533
157.	**Pillararenes as Promising Carriers for Drug Delivery** (journal article) Zyryanov, Grigory V. | Kopchuk, Dmitry S. | Kovalev, Igor S. | Santra, Sougata | Majee, Adinath | Ranu, Brindaban C. ***International Journal of Molecular Sciences, volume 24, issue 6, pages 5167- (2023).*** 10.3390/ijms24065167
156.	**Synthesis of α-amino carbonyl compounds: a brief review** (journal article) Mukherjee, Anindita | Mahato, Sachinta | Kopchuk, Dmitry Sergeevich | Santra, Sougata | Zyryanov, Grigory Vasil'evich | Majee, Adinath | Chupakhin, Oleg Nikolaevich ***Russian Chemical Reviews, volume 92, issue 3 (2023).*** 10.57634/RCR5046
155.	**Synthesis of Biologically active 2H-azirines-A review (journal article)** De, Aramita | Majee, Adinath ***Journal of Scientific Enquiry, volume 2, issue 2 (2022).*** 10.54280/jse.222202
154	**Synthesis of various functionalized 2 H -azirines: An updated library (journal article)** De, Aramita | Majee, Adinath ***Journal of Heterocyclic Chemistry, volume 59, issue 3, pages 422-448 (2022).*** 10.1002/jhet.4415

153.	**Synthetic approaches to 1,2,4-triazolo[5,1- c][1,2,4]triazin-7-ones as basic heterocyclic structures of the antiviral drug Riamilovir ("Triazavirin®") active against SARS-CoV-2 (COVID-19)** (journal article) Artem'ev, Grigory A. | Rusinov, Vladimir L. | Kopchuk, Dmitry S. | Savchuk, Maria I. | Santra, Sougata | Ulomsky, Eugeny N. | Zyryanov, Grigory V. | Majee, Adinath | Du, Weijie | Charushin, Valery N. | Chupakhin, Oleg N. ***Organic & Biomolecular Chemistry, volume 20, issue 9, pages 1828-1837 (2022).*** 10.1039/D1OB02125G
152.	**Direct C−H Functionalization of Calix[n](het)arenes (n =4,6): A Brief Update** (journal article) Mukherjee, Anindita | Kopchuk, Dmitry S. | Kovalev, Igor S. | Santra, Sougata | Varaksin, Mikhail V. | Zyryanov, Grigory V. | Majee, Adinath | Chupakhin, Oleg N. | Charushin, Valery N. ***ChemistrySelect, volume 7, issue 12 (2022).*** 10.1002/slct.202103017
151.	**One-pot synthesis of cyclopentane-fused 5'-aryl-4-cycloalkylamino-2,2'-bipyridines via the aza-Diels–Alder/SNipso reactions** (journal article) Krinochkin, Alexey P. | Starnovskaya, Ekaterina S. | Valieva, Maria I. | Kopchuk, Dmitry S. | Santra, Sougata | Slepukhin, Pavel A. | Zyryanov, Grigory V. | Majee, Adinath | Chupakhin, Oleg N. ***Mendeleev Communications, volume 32, issue 4, pages 449-451 (2022).*** 10.1016/j.mencom.2022.07.007
150.	**Direct Asymmetric Addition of Heteroatom Nucleophiles to Imines** (journal article) Egorov, Ilya N. | Santra, Sougata | Zyryanov, Grigory V. | Majee, Adinath | Hajra, Alakananda | Chupakhin, Oleg N. ***Advanced Synthesis & Catalysis, volume 364, issue 13, pages 2092-2112 (2022).*** 10.1002/adsc.202200155
149.	**Visible-Light-Mediated Synthesis of 1-Oxa-4-aza-spiro Oxazolines by Spiroannulation of Quinones with Vinyl Azides** (journal article) Sarkar, Subhankar | De, Aramita | Santra, Sougata | Khalymbadzha, Igor A. | Zyryanov, Grigory V. | Majee, Adinath ***European Journal of Organic Chemistry, volume 2022, issue 26 (2022).*** 10.1002/ejoc.202200503
148.	**Mechanochemically Induced Cross Dehydrogenative Coupling Reactions under Ball Milling** (journal article) Egorov, Ilya N. | Mukherjee, Anindita | Santra, Sougata | Kopchuk, Dmitry S. | Kovalev, Igor S. | Liu, Yuanli | Zyryanov, Grigory V. | Majee, Adinath | Chupakhin, Oleg N. | Ranu, Brindaban C. ***Advanced Synthesis & Catalysis, volume 364, issue 15, pages 2462-2478 (2022).*** 10.1002/adsc.202200296
147.	**Iron(iii) chloride-catalyzed mechanochemical cascade synthesis of highly-substituted pyrrolyl indoles** (journal article) Mukherjee, Anindita | Kopchuk, Dmitry S. | Santra, Sougata | Majee, Adinath | Zyryanov, Grigory V. | Chupakhin, Oleg N. ***Mendeleev Communications, volume 32, issue 5, pages 624-626 (2022).*** 10.1016/j.mencom.2022.09.018

146.	**Folic Acid Antimetabolites (Antifolates): A Brief Review on Synthetic Strategies and Application Opportunities** (journal article) Kovalev, Igor S. | Zyryanov, Grigory V. | Santra, Sougata | Majee, Adinath | Varaksin, Mikhail V. | Charushin, Valery N. ***Molecules, volume 27, issue 19, pages 6229- (2022).*** 10.3390/molecules27196229
145.	**Ag nanoparticles grafted porous organic polymer as an efficient heterogeneous catalyst for solvent-free A3 coupling reactions** (journal article) Chandra, Bijan Krishna | Pal, Satyajit | Majee, Adinath | Bhaumik, Asim ***Molecular Catalysis, volume 531 (2022).*** 10.1016/j.mcat.2022.112686
144.	**A cationic porous polymer as a robust and recyclable adsorbent for the removal of harmful dyes from aqueous contaminants** (journal article) Chandra, Bijan Krishna | Majee, Adinath | Bhaumik, Asim ***Environmental Science: Nano, volume 9, issue 10, pages 3943-3956 (2022).*** 10.1039/D2EN00521B
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142.	**An expedient solvent-free C-benzylation of 4-hydroxycoumarin with styrenes** (journal article) Chatterjee, Rana | Mukherjee, Anindita | Santra, Sougata | Zyryanov, Grigory V. | Chupakhin, Oleg N. | Majee, Adinath ***Mendeleev Communications, volume 31, issue 1, pages 123-124 (2021).*** 10.1016/j.mencom.2021.01.039
141.	**A practicable synthesis of 2,3-disubstituted 1,4-dioxanes bearing a carbonyl functionality from α,β-unsaturated ketones using the Williamson strategy** (journal article) De, Aramita | Santra, Sougata | Khalymbadzha, Igor A. | Zyryanov, Grigory V. | Majee, Adinath ***Organic & Biomolecular Chemistry, volume 19, issue 6, pages 1278-1286 (2021).*** 10.1039/D0OB01448F
140.	**Recent advances on heterocyclic compounds with antiviral properties** (journal article) De, Aramita | Sarkar, Subhankar | Majee, Adinath ***Chemistry of Heterocyclic Compounds, volume 57, issue 4, pages 410-416 (2021).*** 10.1007/s10593-021-02917-3
139.	**Mechanochemical Synthesis and Antimicrobial Studies of 4-Hydroxy-3-thiomethylcoumarins Using Imidazolium Zwitterionic Molten Salt as an Organocatalyst** (journal article) Sarkar, Subhankar | Chatterjee, Rana | Mukherjee, Anindita | Mukherjee, Debosmita | Chandra Mandal, Narayan | Mahato, Sachinta | Santra, Sougata | Zyryanov, Grigory V. | Majee, Adinath ***ACS Sustainable Chemistry & Engineering, volume 9, issue 16, pages 5557-5569 (2021).*** 10.1021/acssuschemeng.0c08975

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137.	**A novel crystalline nanoporous iron phosphonate based metal–organic framework as an efficient anode material for lithium ion batteries** (journal article) Chakraborty, Debabrata | Dam, Tapabrata | Modak, Arindam | Pant, Kamal K. | Chandra, Bijan Krishna | Majee, Adinath | Ghosh, Aswini | Bhaumik, Asim ***New Journal of Chemistry, volume 45, issue 34, pages 15458-15468 (2021).*** 10.1039/D1NJ02841C
136.	**Synthetic approaches and supramolecular properties of 2,2′:n′,m″-terpyridine domains (n = 3,4,5,6; m = 2,3,4) based on the 2,2′-bipyridine core as ligands with k2N-bidentate coordination mode** (journal article) Taniya, Olga S. | Kopchuk, Dmitry S. | Khasanov, Albert F. | S.Kovalev, Igor | Santra, Sougata | Zyryanov, Grigory V. | Majee, Adinath | Charushin, Valery N. | Chupakhin, Oleg N. ***Coordination Chemistry Reviews, volume 442 (2021).*** 10.1016/j.ccr.2021.213980
135.	**Molecular recognition of synthesized halogenated chalcone by calf thymus DNA through multispectroscopic studies and analysis the anti-cancer, anti-bacterial activity of the compounds** (journal article) Mukherjee, Abhijit | Ghosh, Suvranil | Ghosh, Sudipta | Mahato, Sachinta | Pal, Mahadeb | Sen, Sukanta Kumar | Majee, Adinath | Singh, Bula ***Journal of Molecular Liquids, volume 337 (2021).*** 10.1016/j.molliq.2021.116504
134.	**Metal-Free, PhI(OAc)2 -Promoted Oxidative C(sp 2)−H Difunctionalization: Synthesis of Thioaminated Naphthoquinones** (journal article) Pal, Satyajit | Chatterjee, Rana | Santra, Sougata | Zyryanov, Grigory V. | Majee, Adinath ***Advanced Synthesis & Catalysis, volume 363, issue 23, pages 5300-5309 (2021).*** 10.1002/adsc.202100796
133.	**A new tandem synthesis of bis(β,β′-dialkoxy carbonyl) compounds by oxidative cleavage of aziridines under metal-free conditions** (journal article) Samanta, Satyajit | Santra, Sougata | Chatterjee, Rana | Majee, Adinath ***Organic & Biomolecular Chemistry, volume 18, issue 3, pages 551-556 (2020).*** 10.1039/C9OB02451D
132.	**Ball milling: an efficient and green approach for asymmetric organic syntheses** (journal article) Egorov, Ilya N. | Santra, Sougata | Kopchuk, Dmitry S. | Kovalev, Igor S. | Zyryanov, Grigory V. | Majee, Adinath | Ranu, Brindaban C. | Rusinov, Vladimir L. | Chupakhin, Oleg N. ***Green Chemistry, volume 22, issue 2, pages 302-315 (2020).*** 10.1039/C9GC03414E

131.	**Synthesis of 2-imidazolines by co-grinding of N-tosylaziridines and nitriles** (journal article) De, Aramita | Santra, Sougata | Kovalev, Igor S. | Kopchuk, Dmitry S. | Zyryanov, Grigory V. | Chupakhin, Oleg N. | Charushin, Valery N. | Majee, Adinath ***Mendeleev Communications, volume 30, issue 2, pages 188-189 (2020).*** 10.1016/j.mencom.2020.03.019
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Conference Publications

[1] **Green synthetic approaches for practically relevant (hetero)macrocycles: An overview** (conference)
Rahman, Matiur | Santra, Sougata | Kovalev, Igor S. | Kopchuk, Dmitry S. | Zyryanov, Grigory V. | Majee, Adinath | Chupakhin, Oleg N.
PROCEEDINGS OF INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MECHANICAL AND MATERIALS ENGINEERING: ICRTMME 2019 (2020)
Chennai, India
10.1063/5.0018078

[2] **Zwitterionic molten salt: An efficient organocatalyst for the one-pot synthesis of propargylamines** (conference)
Sarkar, Subhankar | Chatterjee, Rana | Mukherjee, Anindita | Santra, Sougata | Zyryanov, Grigory V. | Majee, Adinath
PROCEEDINGS OF INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MECHANICAL AND MATERIALS ENGINEERING: ICRTMME 2019 (2020)
Chennai, India
10.1063/5.0018526

[3] **Ionic liquid catalyzed simple and green synthesis of benzothiazole under neat condition** (conference)
Pal, Satyajit | Chatterjee, Rana | Santra, Sougata | Zyryanov, Grigory V. | Majee, Adinath
PROCEEDINGS OF INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MECHANICAL AND MATERIALS ENGINEERING: ICRTMME 2019 (2020)
Chennai, India
10.1063/5.0018523

[4] **An efficient method for the synthesis of dihydropyrimidines using Brønsted acidic ionic liquid: A solvent and heating free reaction** (conference)
Chatterjee, Rana | Samanta, Satyajit | Santra, Sougata | Majee, Adinath
PROCEEDINGS OF INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MECHANICAL AND MATERIALS ENGINEERING: ICRTMME 2019 (2020)
Chennai, India
10.1063/5.0018527

[5] **Brønsted acidic ionic liquid: An efficient and reusable catalyst for the synthesis of dicoumarol** (conference)
Chatterjee, Rana | De, Aramita | Santra, Sougata | Majee, Adinath
PROCEEDINGS OF INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MECHANICAL AND MATERIALS ENGINEERING: ICRTMME 2019 (2020)
Chennai, India
10.1063/5.0018524

[6] **Brønsted acidic ionic liquid-catalyzed one-pot synthesis of 4(3H)-quinazolinones under solvent-free conditions** (conference)
Chatterjee, Rana | Sarkar, Subhankar | Santra, Sougata | Zyryanov, Grigory V. | Majee, Adinath
PROCEEDINGS OF INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MECHANICAL AND MATERIALS ENGINEERING: ICRTMME 2019 (2020)
Chennai, India
10.1063/5.0018520

[7] **Synthesis of quinoxaline derivatives catalyzed by Brønsted acidic ionic liquid under solvent-free conditions** (conference)
Chatterjee, Rana | Mahato, Sachinta | Mukherjee, Anindita | Zyryanov, Grigory V. | Majee, Adinath
PROCEEDINGS OF INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MECHANICAL AND MATERIALS ENGINEERING: ICRTMME 2019 (2020)
Chennai, India
10.1063/5.0018532

[8] **Metal and solvent free direct C3-alkylation of 4-hydroxycoumarins with styrene** (conference)
Chatterjee, Rana | Mukherjee, Anindita | Zyryanov, Grigory V. | Majee, Adinath
PROCEEDINGS OF INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MECHANICAL AND MATERIALS ENGINEERING: ICRTMME 2019 (2020)
Chennai, India
10.1063/5.0018529

[9] **A Lewis acid promoted reduction of aromatic nitro to amine compounds** (conference)
Chatterjee, Rana | Mukherjee, Anindita | Santra, Sougata | Zyryanov, Grigory V. | Majee, Adinath

PROCEEDINGS OF INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MECHANICAL AND MATERIALS ENGINEERING: ICRTMME 2019 (2020)
Chennai, India
10.1063/5.0018533

[10] Brønsted acidic ionic liquid promoted synthesis of amidoalkyl naphthols under solvent-free conditions (conference)
Chatterjee, Rana | Mukherjee, Anindita | Pal, Satyajit | Santra, Sougata | Zyryanov, Grigory V. | Majee, Adinath
PROCEEDINGS OF INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MECHANICAL AND MATERIALS ENGINEERING: ICRTMME 2019 (2020)
Chennai, India
10.1063/5.0018528

[11] Brønsted acidic ionic liquid promoted synthesis of amidoalkyl naphthols under solvent-free conditions (conference)
Chatterjee, Rana | Mukherjee, Anindita | Pal, Satyajit | Santra, Sougata | Zyryanov, Grigory V. | Majee, Adinath
PROCEEDINGS OF INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MECHANICAL AND MATERIALS ENGINEERING: ICRTMME 2019 (2020)
Chennai, India
10.1063/5.0018528

m) Book Chapters:

1. "Why do we need a green Chemistry**"** Book : "Green Chemistry and Sustainable Agriculture Practices: A Step towards better future" (***ISBN:*** *978-81-92697-3-6)* Editors: Dr. Tanmay Chattaopadhyay and Dr. Biplab Bhowmick, Publisher : Council of MS Academic, B-7/39, Kalyani-741235

2. "Solvent and Catalyst -Free Organic Neat Reaction: A Drive towards Sustainability" Book: Chemistry on its Way : Impacts on the Environment" (**ISBN** : 978-93-84191-17-7) Editors : Dr. Samir Kumar Mandal, Dr. Shyamal Kumar Jash, Dr. Dipak Kumar Rana and Mr. Sudip Sahana, Publisher : Cinnamara Collge Sakha Sahitya Sabha and Publication, Cinnamara, Jorhat -08, Assam

B) Professional association:

a) Life Member of Learned Societ :
i) Chemical Research Society of India, since 2013 (LM-1823)
ii) Indian Association for the Cultivation of Science, since 2011 (No. -3429)
iii) Association of Chemistry Teachers, since 2016 (No. 1804)

b) Acts as external examiner of other Institutes/Universities.

c) Acted as the examiner of IIT main examination 2004 conducted by IIT Guwahati.

d) Member of BOS (PG)

(i) Department of Chemistry, NIT, Durgapur (2004-2006)

(ii) Department of Chemistry, PG, SKB University, Purulia (2014- to 2018)

(iii) Department of Chemistry, DWU, Dimondharbour (2022 …)

e) Research Advisory committee member,

(i) Department of Chemistry, PG, SKB University, Purulia (2014-2017 and 2024)

(ii) Department of Chemistry, DWU, Dimondharbour (2022 …)

C) Organizing Conference/ Seminar/workshop etc.

- **Acted as Convener:** "Popular Lecture for School Students" Organized by ***Royal Society of Chemistry*** and Department of Chemistry, Visva-Bharati, Santiniketan on 24th September, 2019.

- **Acted as Convener:** "Popular Lecture for School Students" Organized by ***Royal Society of Chemistry*** and Department of Chemistry, Visva-Bharati, Santiniketan on 29th September, 2018.

- **Acted as Convener:** "Popular Lecture for School Students" Organized by ***Royal Society of Chemistry*** and Department of Chemistry, Visva-Bharati, Santiniketan on 2^{8th} October, 2017.

- **Acted as Convener:** "Popular Lecture for School Students" Organized by ***Royal Society of Chemistry*** and Department of Chemistry, Visva-Bharati, Santiniketan on 15thOctober, 2016.

- **Acted as Coordinator:** "***Science Academies Education Programme*** : Recent Trends in Chemistry with Reference to Teaching and Research" Organized by Department of Chemistry, Visva-Bharati, Santiniketan on 13th& 14th March, 2015.

- **Acted as Treasurer** "Recent trends in Chemistry" Organized by Department of Chemistry, Visva-Bharati, Santiniketan on March, 09, 2014.

- **Acted as Convener:** "Popular Lecture for School Students" Organized by ***Royal Society of Chemistry a***nd Department of Chemistry, Visva-Bharati, Santiniketan on 28thSeptember 2013.

- **Acted as Convener:** "Popular Lecture for School Students" Organized by ***Royal Society of Chemistry a***nd Department of Chemistry, Visva-Bharati, Santiniketan on 30th August, 2012.

- **Acted as Coordinator:** "***Science Academies Education Programme:*** Recent Developments in Chemistry" Organized by Department of Chemistry, Visva-

Bharati, Santiniketan on 29th November to -1st December,2012.

- **Acted as Convener: "CRSI (Kolkata Chapter)** one day seminar on Chemical Research in the first decade of 21st century" Organized by Department of Chemistry, Visva-Bharati, Santiniketan on 6th August,2011.

- **Acted as Convener:** "International Year of chemistry" Organized by ***Royal Society of Chemistry*** and Department of Chemistry, Visva-Bharati, Santiniketan on 3rd April 2009.

- **Acted as Convener:** "Science Education Programme" Organized by ***Royal Society of Chemistry*** and Department of Chemistry, Visva-Bharati, Santiniketan on 18th December 2009.

D) Administration related responsibility in the University:

a) Director IQAC, Visva-Bharati
b) Member NEP Committee, Visva-Bharati
c) Member of the DPC of Visva-Bharati.
d) External Member, Institute Board, Vinaya Bhavana, Visva-Bharati
e) Acted as Co-ordinator of Remedial & NET Coaching committee of Siksha Bhavana.
f) Acted as member of Canteen Committee of Siksha Bhavana.
g) Acted as Member of the Visva-Bharati Admission coordination cell.
h) Acted as Member of three members committee of Visva-Bharati.
i) Acted as Member of the Research Board of Visva-Bharati.
j) Acted as Member of IQAC Visva-Bharat.
k) RAC Member SKB University Purulia
l) BOS Member Bankura University
m) RAC Member Kalyani University

Adinath Majee

Date :28-11-2024 (Signature)
Place: Santiniketan (DR. ADINATH MAJEE)