Dr. Adinath Majee
Professor
Department of Chemistry
Visva-Bharati (A Central University)
Santiniketan, Birbhum-731235, West Bengal, India
Email: adinath.majee@visva-bharati.ac.in; adinathm@yahoo.com
Phone: 09732053557

Summary:

* **161 publications** in peer-reviewed journals including five **Review** articles.
* **CRSI Bronze** medal in the year **2020**
* **FRSC** April, **2021**
* **26 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**
* **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 has 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 and asymmetric synthesis using Organocatalysis. I have collaboration with 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-14)

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 (6)

1. Mr. Bijan Krishna Chandra (Thesis Submitted on 31-03-2021)
2. Mr. Satyajit Pal (SRF)

3. Mr. Shuvankar Sarkar (SRF)
4. Mr. Santosh Sing Sardar (JRF)
5. Mr. Tanmay Pramanik (JRF)
6. Mr. Sudip Mondal (JRF)

Master's students Project

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.ShrabaniSaha
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 MsSarmistha 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 MrKallol 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. SubhraKanti 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.ChandanSaha
5. Title : "Task-Specific Ionic Liquid Catalyzed Efficient Synthesis of 3-Alkenylated Indoles" -- M. Sc. degree awarded to Mr.ArkaSaha

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, JadavpurUniversity , 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, GourMahavidyalaya, 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, PanchakotMahavidyalaya, 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 mid year 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 1-2nd 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*
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. 5thInterdisciplinary 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, GourMahavidyalaya, Maldaheld 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,

Puruliaheld 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, PanchakotMahavidyalaya 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 VishwagandhaScience 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"**

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

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, JadavpurUniversity 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. "3 day 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 Combinatio of $NH_2OH.HCl$ and $NaIo_4$

16. "National Seminar on Recent Trends in Chemistry Research" on25-26th 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.Chatterjeeand 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.Chatterjeeand 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.Chatterjeeand 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 : 161)

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**: 161 ;** Patent**; Nil;** h-index **: 34**; i10-index **: 95**; total citation **: >**3907)

Paper Published in International Journals: (Total : 161)

2022

161. Brønsted acidic ionic liquid-catalyzed tandem reaction: An efficient and sustainable approach towards regioselective synthesis and molecular docking studies of 4-hydroxycoumarinsubstituted indoles bearing lower E-factors. S. Samanta, R. Chatterjee, S. Sarkar, S. Pal, A. Mukherjee, I. I. Butorin, O. A. Konovalova, T. Choudhuri, K. Chakraborty, S. Santra, G. V. Zyryanov and **A. Majee,*** *Organic & Biomolecular Chemistry* , (2022) , 20, 9161-9171

160. Folic Acid Antimetabolites (Antifolates): A Brief Review on Synthetic Strategies and Application Opportunities. **(Review Article),** I. S Kovalev, G. V Zyryanov,*

S. Santra, **A. Majee,*** M. V Varaksin, V. N Charushin, *Molecules*, (2022), 27, 6229.
https://www.mdpi.com/1420-3049/27/19/6229

159. Ag nano particle grafted porous organic polymer as an efficient catalyst for solvent free A3 coupling reaction. B. K. Chandra, S.Pal, **A. Majee***, A. Bhaumik, *Molecular Catalysis*, (2022), 532, 112686
https://doi.org/10.1016/j.mcat.2022.112686

158. Iron (iii) chloride-catalyzed mechanochemical cascade synthesis of highly-substituted pyrrolyl indoles. A. Mukherjee, D. S Kopchuk, S. Santra,* **A. Majee,** G. V Zyryanov, O. N Chupakhin, *Mendeleev Communications*, (2022), 32, 624-626.

157. A cationic porous polymer as robust and recyclable adsorbent for the removal of harmful dyes from aqueous contaminants. B. K Chandra, **A. Majee,** A Bhaumik,* *Environmental Science: Nano, (2022), in press*

156. Mechanochemically Induced Cross Dehydrogenative Coupling Reactions under Ball Milling. **(Review Article),** I. N Egorov, A. Mukherjee, S. Santra,* D. S Kopchuk, I. S Kovalev, Y. Liu, G. V Zyryanov, **A. Majee,** O. N Chupakhin, B. C Ranu,* *Advanced Synthesis & Catalysis*, (2022) , 362, 2462-2478
https://doi.org/10.1002/adsc.202200296

155. Visible-Light-Mediated Synthesis of 1-Oxa-4-aza-spiro Oxazolines by Spiroannulation of Quinones with Vinyl Azides. S. Sarkar, A. De, S. Santra, I. A Khalymbadzha, G. V Zyryanov, **A. Majee*** *Eur. J. Org. Chem***.** (2022) , 28, pagese202200503.
https://doi.org/10.1002/ejoc.202200503

154. Direct Asymmetric Addition of Heteroatom Nucleophiles to Imines. I. N Egorov, S. Santra,* G. V Zyryanov,* **A. Majee,** A. Hajra, O. N Chupakhin, *Advanced Synthesis & Catalysis*, (2022) , 36 (13), 2092-2112.
https://doi.org/10.1002/adsc.202200155

153. One-pot synthesis of cyclopentane-fused 5'-aryl-4-cycloalkylamino-2, 2'-bipyridines via the aza-Diels–Alder/SNipso reactions. A. P Krinochkin, E. S Starnovskaya, M. I Valieva, D. S Kopchuk, S. Santra,* P. A Slepukhin, G. V Zyryanov, **A. Majee**, O. N Chupakhin, *Mendeleev Communications*, (2022) , 32 (4), 449-451.
https://doi.org/10.1016/j.mencom.2022.07.007

152. Direct C−H Functionalization of Calix[*n*](het)arenes (*n*=4,6): A Brief Update. **(Review Article),** A. Mukherjee, D. S Kopchuk, I. S Kovalev, S. Santra, M. V Varaksin, G. V Zyryanov, **A. Majee,** O. N Chupakhin, V. N Charushin, *ChemistrySelect*, (2022), 7, Pages e202103017
https://doi.org/10.1002/slct.202103017

151. 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-CoV2(COVID-19). G. A Artem'ev, V. L Rusinov, D. S Kopchuk, M. I Savchuk, S. Santra,* E. Ulomsky, G. V Zyryanov, **A. Majee,** W. Du, V. Charushin, O. N Chupakhin, *Organic & Biomolecular Chemistry* , (2022) , 20 (9), 1828-1837
https://pubs.rsc.org/en/journals/journalissues/ob

150. Synthesis of various functionalized 2*H*-azirines: An updated library. **(Review Article),** A. De and **A. Majee,*** *J. Het. Chem.* (2022)**,** *59*, 422-448.
https://onlinelibrary.wiley.com/doi/abs/10.1002/jhet.4415

2021

149. Metal-Free, PhI (OAc) 2-Promoted Oxidative C (sp2)− H Difunctionalization: Synthesis of Thioaminated Naphthoquinones. S. Pal, R. Chatterjee, S. Santra, G.V. Zyryanov, **A. Majee*** - *Advanced Synthesis and Catalysis*, ISSN: 1615-4169, (2021), 363 (23), 5300-5309 **(Published on web 6-09-2021)**
https://doi.org/10.1002/adsc.202100796 (Impact Factor : 5.85) **(Cited times)**

148. Novel crystalline nanoporous iron phosphonate based metal-organic framework as an efficient anode material for lithium ion batteries. D. Chakraborty, T. Dam, A. Modak, K. K Pant, B. K. Chandra, **A. Majee,** A. Ghosh, A. Bhaumik* *New J. Chem.* ISSN : 1144-0546 (print) 1369-9261 (web), (2021), *45*, 15458-15468.
https://doi.org/10.1039/D1NJ02841C (Impact Factor : 3.28.) **(Cited times)**

147. 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. **(Review Article),** O. S. Taniya, D. S. Kopchuk, A. F. Khasanov, I. S. Kovalev, S. Santra,* G. V. Zyryanov, **A. Majee,** V. N. Charushin, O. N. Chupakhin, *Coordination Chemistry Reviews*, ISSN: 0095-8972, (2021), *442*, 213980.
https://doi.org/10.1016/j.ccr.2021.213980 (Impact Factor : 15.3) (Cited times)

146. Molecular recognition of synthesized halogenated chalcone by calf thymus DNA through multispectroscopic studies and analysis the anti-cancer, anti-bacterial activity of the compounds. A. Mukherjee*, S. Ghosh, S. Ghosh, S. Mahato, M.

Pal,* S. K. Sen, **A. Majee,** B. Singh*, *Journal of Molecular Liquids*, ISSN: 167-7322, (2021), 337, 116504.
https://doi.org/10.1016/j.molliq.2021.116504 (Impact Factor : 6.) **(Cited times)**

145. Mild, Efficient and Metal-Free Strategies for Direct Diamination of **α**, **β**-Unsaturated Ketones Using Different Iodine Sources. S. Sarkar, R. Chatterjee, S. Pal, and **A. Majee*,** *ChemistrySelect*, ISSN:2365-6549, (2021), *6*, 6484-6488. https://doi.org/10.1002/slct.202100910 (Impact Factor : 1.7) **(Cited times)**

144. Recent advances on heterocyclic compounds with antiviral properties. **(Review Article),** A. De, S. Sarkar, **A. Majee*** *Chemistry of Heterocyclic Compounds* (2021**)**, 57, 410–416.
https://link.springer.com/article/10.1007/s10593-021-02917-3 (Impact Factor : 1.4) **(Cited times)**

143. Mechanochemical Synthesis and Antimicrobial Studies of 4-Hydroxy-3-thiomethylcoumarins Using Imidazolium Zwitterionic Molten Salt as Organocatalyst. S. Sarkar, R. Chatterjee, A. Mukherjee, D. Mukherjee, N. C. Mandal, S. Mahato, S. Santra, G. V. Zyryanov and **A. Majee*** *ACS Sus. Chem & Eng.* ISSN: 2168-0485, (2021)**,** 9, 5567-5569.
https://doi:10.1021/acssuschemeng.0c08975 (Impact Factor : 8.19) **(Cited times)**

142. An expedient solvent-free C-benzylation of 4-hydroxycoumarin with styrenes. R. Chatterjee, A. Mukherjee, S. Santra, G. V. Zyryanov, O. N. Chupakhin, **A. Majee***, *Mendeleev comm.* ISSN : 0959-9436, (2021), *31*, 123-124.
https://doi.org/10.1016/j.mencom.2021.01.039 (Impact Factor : 2.1) **(Cited times)**

141. A practicable synthesis of 2, 3-disubstituted 1, 4-dioxane bearing carbonyl functionality from α, β-unsaturated ketones using Williamson strategy. A. De, S. Santra, I. A. Khalymbadzha, G. V. Zyryanov, **A. Majee*** *Org. Bio. Mol. Chem.* ISSN: 1477-0520 (print) 1477-0539 (web), (2021), 19, 1278-1286.
https://doi.org/10.1039/D0OB01448F (Impact Factor : 3.41) **(Cited times)**

2020

140. Mild, efficient and diastereoselective one-pot synthesis of substituted oxazolidine under neat conditions. S. Mahato and **A. Majee*** *J. Indian Chem. Soc.*, ISSN*: 0019-4522*, (2020), *97, (12c)*, 2867-2873.
https://www.indiancemicalsociety.com (Impact Factor : 0.45.) **(Cited times**)

139. Functionalized ionic liquid tagged Cu(II) catalyst: Design, characterization, and application in synthesis of imidazo[1,2-*a*]pyridine. S. Ghosh, D. Kundu, A. Dey, **A. Majee** and Alakananda Hajra* *J. Indian Chem. Soc.,* ISSN*: 0019-4522*, (2020), *97, (12c),* 2533-2539.
https://www.indiancemicalsociety.com (Impact Factor : 0.45.) **(Cited times**)

138. Recent advances in the synthesis of fluorinated compounds via an aryne intermediate. M. Rahman,* A. K. Bagdi,* D. S. Kopchuk, I. S. Kovalev, G. V Zyryanov, O. N. Chupakhin, **A. Majee,** A. Hajra,* **(Review Article),** *Org. Bio. Mol. Chem.* ISSN: 1477-0520 (print) 1477-0539 (web), (2020), 18, 9562-9582. https://doi:10.1039/d0ob01638a (Impact Factor : 3.42) **(Cited times)**

137. Diverse synthesis of pyrano [3, 2-c] coumarins: a brief update. A. Mukherjee, S. Mahato, G. V. Zyryanov, **A. Majee,** S. Santra,* **(Review Article),** *New J. Chem.* ISSN : 1144-0546 (print) 1369-9261 (web), (2020), *44*, 18980-18993.
https:// doi: 10.1039/d0nj03846f (Impact Factor : 3.28.) **(Cited times)**

136. Direct Asymmetric Arylation of Imines. I. N. Egorov, S. Santra,* D. S. Kopchuk,I. S. Kovalev, G. V. Zyryanov, **A. Majee,** B. C. Ranu,* V. L. Rusinova and O. N. Chupakhin, **(Review Article),** *Advanced Synthesis and Catalysis,* ISSN: 1615-4169, (2020), *20*, 4293-4324.
https://doi: 10.1002/adsc.202000548 (Impact Factor : 5.85) **(Cited times)**

135. Nano indium oxide-catalyzed domino reaction for the synthesis of *N*-alkoxylated benzimidazoles. S. Samanta, S. Mahato, R. Chatterjee, S. Santra, G. V. Zyryanov, and **A. Majee,*** *Tetrahedron Letters,* ISSN*:* 0040-4039, (2020), 61, 152177, https://doi:org/10.1016/j.tetlet.2020.152177. (Impact Factor : 2.3.) **(Cited times)**

134. Self-Catalyzed Rapid Synthesis of N-Acylated/N-Formylated 2 α-Aminoketones and N-Hydroxymethylated Formamides from 3 3-Aryl-2H-Azirines and 2-Me/Ph-3-Aryl-2H-Azirines. A De, S Santra, G. V Zyryanov and **A. Majee,*** *Organic Letters,* ISSN: 1523-7060 (print); 1523-7052 (web), (2020), 22, 3926-3930, https://doi:10.1021/acs.orglett.0c01206 (Impact Factor : 6.) **Cited times)**
Highlighted in Organic Chemistry Portal : https://www.organic-chemistry.org/abstracts/lit7/358.shtm

133. CuO Nanoparticles as a Simple and Efficient Green Catalyst for the Aziridine Ring-Opening: Examination of a Broad Range of Nucleophiles, R. Chatterjee, S. Santra, N. Chakraborty Ghosal, K. Giri, G. V. Zyryanov and **A. Majee,***

ChemistrySelect, ISSN:2365-6549, (2020), 5, 4525-4529, https://doi:org/10.1002/slct.202000853 (Impact Factor : .) **(Cited times)**

132. Thaidiazole containing N-and S-rich highly ordered periodic mesoporous organosilica for efficient removal of Hg (II) from polluted water. S. Das, S. Chatterjee, S. Mondal, A. Modak, B. K. Chandra, S. Das, G. D. Nessim, **A. Majee,** and A. Bhaumik,* *ChemicalCommunications*, ISSN :1359-7345, (2020),56, 3963-66.
https://doi:10.1039/x0xx00000x **(**Impact Factor : 6.7**) (Cited times)**

131. Direct Introduction of a Methyl Group at the C5-Position of 1,2,4-Triazines: Convenient Synthesis of 6-Functionalized 5- Aryl-2,2'-bipyridines. A. P. Krinochkin, D. S. Kopchuk, I. S. Kovalev, S. Santra,* G. V. Zyryanov, **A. Majee,** V. L. Rusinov, and O. N. Chupakhin. *ChemistrySelect*, ISSN:2365-6549,(2020),5, 2753-2755.
https://doi:10.1002/slct.202000044 (Impact Factor : 1.7) **(Cited times)**

130. Synthesis of 2-imdazolines by co-grinding of N-tosylaziridines and nitriles. A. De, S. Santra, I. S. Kovalev, D. S. Kopchuk, G. V. Zyryanov, O. N. Chupakhin, V. N. Charushin, and **A. Majee,*** *Mendeleev Communications*, ISSN:0959-9436, (2020), *30*, 188-189.
https://doi:10.1016/j.mencom.2020.03.019 **(**Impact Factor **: 2.1) (Cited times)**

129. Brønsted acidic ionic liquid-catalyzed tandem trimerization of indoles: An efficient approach towards the synthesis of indole 3,3′-trimers under solvent-free conditions,R. Chatterjee, S. Santra, G. V. Zyryanov and **A. Majee,*** *Journal of . Heterocyclic Chemistry*. ISSN: 0022152X (Print), 1943-5193 (Web), (2020), 57, 1863-1874.
https://doi:10.1002/jhet.3914 **(**Impact Factor : 1.2) **(Cited times)**

128**.** Ball milling: an efficient and green approach for asymmetric organic syntheses. **(Review articles)**, I. N. Egorov, S. Santra,* D. S. Kopchuk, I. S. Kovalev, G. V. Zyryanov, **A. Majee,*** B. C. Ranu, V. L. Rusinova, and O. N. Chupakhin. *Green Chemistry*, ISSN :1463-9270, (2020), 22, 302-315,.
https://doi:10.1039/c9gc03414e (Impact Factor **:** 9.4) **(Cited times)**

127. A new tandem synthesis of bis(β,β′-dialkoxy carbonyl) compounds by oxidative cleavage of aziridines under metal-free conditions. S. Samanta, S. Santra, R. Chatterjee and **A. Majee,*** *Organic & Bimolecular Chemistry*.ISSN: 1477-0520 (print); 1477-0539 (web), (2020),18**,** 551-556.
https://doi:10.1039/c9ob02451d **(**Impact Factor :3.56) **(Cited times)**

2019

126. CuO grafted triazine functionalized covalent organic framework as an efficient catalyst for C-C homo coupling reaction. S. K. Das, B. K. Chandra, R. A. Molla, M. Sengupta, Sk. M. Islam, **A. Majee,** A. BhaumiK* *Molecular Catalysis*, ISSN: 2468-823,(2019),480, 110650.
https://doi:org/10.1016/j.mcat.2019.110650 **(**Impact Factor : 3.68) **(Cited times.)**

125. An Updated Library on the Synthesis of Aziridines, A. Mukherjee, N. ChakrabortyGhosal, G. V. Zyryanov, **A. Majee,*** and S. Santra, **(Review articles)** *Current Green Chemistry*, ISSN : 2213-3461 (Print), 2213-347X (Web) (2019), 6, (3), 226-242.
https://doi:10.2174/2213346106666191024123452 **(**Impact Factor**:) (Cited times)**

124. In situ synthesis of CuO nanoparticles over functionalized mesoporous silicaand their application in catalytic syntheses of symmetrical diselenides. T. Das, R. Chatterjee, **A. Majee,** H. Uyama, D. Morgan and M. Nandi,* *Dalton Transactions*, ISSN : 1477-9226 (print), 1477-9234 (web), (2019),48, 17874-86.
https://doi:10.1039/c9dt03418h **(**Impact Factor :4.05) **(Cited times)**

123. Iron (III)-catalyzed synthesis of selenoesters from α-amino carbonyl derivatives at room temperature. R. Chatterjee, A. Mukherjee, S. Santra, G. V. Zyryanov and **A. Majee,*** *Tetrahedron*, ISSN:0040-4020, (2019), 75, 130624.
https://doi:org/10.1016/j.tet.2019.130624 **(**Impact Factor : 3.27) **(Cited times)**

122. Visible-Light-Induced Regioselective C(sp^3)-H Acyloxylation of Aryl‑2*H* Azirines with (Diacetoxy)iodobenzene. A. De, S. Santra, A. Hajra, G. V. Zyryanov and **A. Majee,*** *Journal of Organic Chemistry*, ISSN: 0022-3263 (Print) 1520-6904(Web), (2019), 84, 11735-11740.
https://doi:10.1021/acs.joc.9b01625 **(**Impact Factor : 4.6) **(Cited times)**
Highlighted in Organic Chemistry Portal : https://www.organic-chemistry.org/abstracts/lit6/987.shtm

121. Facile synthesis of substituted quinolines by iron(III)-catalyzed cascade reaction between anilines, aldehydes and nitroalkanes, S. Mahato, A. Mukherjee, S. Santra,* G. V. Zyryanov and **A. Majee,*** *Organic & Bimolecular Chemistry*.ISSN: 1477-0520 (print); 1477-0539 (web), (2019), 73, 7907-7917.
https://doi:10.1039/c9ob01294j**. (**Impact Factor **:** 3.56) **(Cited 2 times)**

120. Highly-Luminescent DTTA-Appended Water-Soluble Lanthanide Complexes of 4-(Het) aryl-2, 2′-bipyridines: Synthesis and Photophysical Properties. A. P. Krinochkin, D. S. Kopchuk, G. A. Kim, I. N. Ganebnykh, I. S. Kovalev, S. Santra,* G. V. Zyryanov, **A. Majee,** V. L. Rusinov and O. N. Chupakhin, *ChemistrySelect*, ISSN:2365-6549,(2019),4, 6377-6381.
https://doi:10.1002/slct.201901080 **(**Impact Factor **:** 1.7) **(Cited times)**

119. 2-Azaanthracenes: A chronological synthetic approaches and bright prospective of practical applications. O. S. Taniya, D. S. Kopchuk, A. F. Khasanov, I. S. Kovalev, S. Santra,* M. Rahman, G. V Zyryanov, **A. Majee,*** V. Charushin and O. N. Chupakhin, *New Journal of Chemistry,* ISSN : 1144-0546 (print) 1369-9261 (web),(2019),43,11382,.
https://doi:org/10.1039/C9NJ01813A **(**Impact Factor **:** 3.27) **(Cited times)**

118. Recent Advances on Diverse Decarboxylative Reactions of Amino Acids, **(Review articles)**, M. Rahman, A. Mukherjee, I. S. Kovalev, D. S. Kopchuk, G. V. Zyryanov, M. V. Tsurkan, **A. Majee,** B. C. Ranu, V. N. Charushin, O. N. Chupakhin, S. Santra,* *Advanced Synthesis and Catalysis*, ISSN: 1615-4169, (2019), 361, 2161-2214.
https://doi:10.1002/adsc.201801331 **(**Impact Factor**:** 5.3) **(Cited times)**
(Cover Picture: *Adv. Synth. Catal.***10**/**2019**)

117. Synthesis and optical properties of new 2-(5-arylpyridine-2-yl)-6-(het)arylquinoline-based “push-pull” fluorophores. D. S. Kopchuk, N. V. Chepchugov, E. S. Starnovskay,A. F. Khasanov, A. P. Krinochkin, S. Santra,* G. V. Zyryanov, P. Das, **A. Majee,** V. L. Rusinov, V. N. Charushin,*Dyes & Pigments,* ISSN 0143-7208,(2019),167, 151-156.
https://doi:org/10.1016/j.dyepig.2019.04.029 **(**Impact Factor**:** 3.3) **(Cited times)**

116. Metal-Free Amidation Reactions of Terminal Alkynes with Benzenesulfonamide. S. Mahato, S. Santra, G. V. Zyryanov and **A. Majee,*** *Journal of Organic Chemistry*, ISSN: 0022-3263 (Print) 1520-6904(Web), (2019),84, 3176-3183.
https://doi:10.1021/acs.joc.8b03065 **(**Impact Factor **:** 4.6) **(Cited times)**
Highlighted in Organic Chemistry Portal : https://www.organic-chemistry.org/abstracts/lit6/746.shtm

115. Vinylation of Carbonyl Oxygen in 4-Hydroxycoumarin: Synthesis of Heteroarylated Vinyl Ethers,R. Chatterjee, S. Santra, G. V. Zyryanov and **A. Majee,*** *Synthesis*, ISSN *:* 0039-7881, (2019), 51, 2371-2378.
https://doi:10.1055/s-0037-1610696. **(**Impact Factor**:** 2.40) **(Cited times)**

114. Use of allylzinc halide as a source of halide: differential addition of nucleophiles to Ts-aziridines and aldehydes under similar reaction conditions. R. Chatterjee, S. Samanta, A. Mukherjee, S. Santra, G. V. Zyryanov and **A. Majee,*** *Tetrahedron Letters,* ISSN*:* 0040-4039,(2019), 60, 276-283.
https://doi:org/10.1016/j.tetlet.2018.12.027 **(**Impact Factor **:** 2.3) **(Cited times)**

113. Synthesis and photophysics of new unsymmetrically substituted 5, 5′-diaryl-2, 2′-bypiridine-based "push-pull" fluorophores. E. S. Starnovskaya, D. S. Kopchuk, A. F. Khasanov, O. S. Tanya, S. Santra,* K. Giri, M. Rahman, I. S Kovalev, G. V. Zyryanov, **A. Majee,** and V. N. Charushin, *Dyes & Pigments,* ISSN 0143-7208,(2019),162, 324-330,.
https://doi:org/10.1016/j.dyepig.2018.10.040 **(**Impact Factor **:** 3.3) **(Cited times)**

112. Synthesis and photophysical studies of new organic-soluble lanthanide complexes of 4-(4-alkoxyphenyl)-2, 2′-bipyridine-6-carboxylic acids, A. P Krinochkin, D. S Kopchuk, G. A Kim, I. S Kovalev, S. Santra,* **A. Majee,*** G. V Zyryanov, V. L Rusinov and O. N Chupakhin, *Journal of Molecular Structure,* ISSN: 0022-2860, (2019), 1176, 583-590.
https://doi:org/10.1016/j.molstruc.2018.08.108 **(**Impact Factor**:** 2.46) **(Cited times)**

2018

111. 1-Hydroxypyrene-based micelle-forming sensors for the visual detection of RDX/TNG/PETN-based bomb plots in water. I. S. Kovalev, O. S. Tanya, D. S. Kopchuk, K. Giri, A. Mukherjee, S. Santra,* **A. Majee,*** M. Rahman, G. V. Zyryanov, V. A. Bakulev and O. N. Chupakhin, *New Journal of Chemistry,* ISSN :1144-0546 (print) 1369-9261 (web),(2018),42, 19864-19871.
https://doi:10.1039/c8nj03807d **(**Impact Factor **:** 3.27) **(Cited times)**

110. Tripod-type 2, 2′-bipyridine ligand for lanthanide cations: synthesis and photophysical studies on coordination to transition metal cations. D. S. Kopchuk, G. A. Kim, I. S. Kovalev, S. Santra,* G. V. Zyryanov,* **A. Majee,*** , V. L. Rusinov and O. N. Chupakhin, *Canadian Journal Chemistry,*ISSN: 0008-4042 (print); 1480-3291 (web),(2018),96, 419-424.
https://doi:org/10.1139/cjc-2017-0485 **(**Impact Factor **:** 1.17) **(Cited times)**

109. Synthesis, characterization and unravelling the binding interaction of new bioactive 4-hydroxycoumarin derivative with calf thymus DNA: Insights from spectroscopic and theoretical aspect. A. Mukherjee,* S. Ghosh, R. Sarkar,* S. Samanta, S. Ghosh, M. Pal, **A. Majee,** S. K. Sen and B. Singh,* *Journal of Photochemistry & Photobiology, B: Biology,* ISSN:1011-1344, (2018), 189, 124-137.
https://doi:10.1016/j.jphotobiol.2018.10.003 (Impact Factor: 4.3) **(** Cited times)

108. Mild, Efficient and Metal-free Radical 1,2-Dithiocyanationof Alkynes and Alkenes at Room Temperature. S. Samanta, R. Chatterjee, S. Santra, A. Hajra, I. A. Khalymbadzha, G. V. Zyryanov and **A. Majee,*** *ACS Omega*, ISSN: 2470-1343 (print);2470-1343(web),(2018),3,13081-13088.
https://doi:10.1021/acsomega.8b01762 (Impact Factor**:** 2.5) **(Cited times)**

107. Mono-and Polyazatriphenylene-Based Ligands: An Updated Library of Synthetic Strategies (2001–2018), S. Santra,* A. F. Khasanov, A. Mukherjee, M. Rahman, I. S. Kovalev, D. S Kopchuk, G. V. Zyryanov,* **A. Majee,** O. N. Chupakhin and V. N. Charushin, *European Journal of Organic Chemistry*, ISSN :1434-193X (print) 1099-0690 (web), (2018), 4371-4375.
https://doi:10.1002/ejoc.201800635 (Impact Factor **:** 2.88) **(Cited times)**

106. An Efficient Synthesis of Oxazolidines by Tandem Ring-Opening / Closing Reaction of Ts-aziridine Using Formic Acid. N. Chakraborty Ghosal, A. De,S. Mahato, S. Santra,G. V. Zyryanov, and **A. Majee,*** *ChemistrySelect*, ISSN:2365-6549,(2018),3, 10509-10514.
https://doi:10.1002/slct.20180265 **(**Impact Factor **:**1.7) **(Cited times)**

105. Synthesis and luminescence of new water-soluble lanthanide complexes of DTTA-containing 4-(4-methoxyphenyl)-2,2′-bipyridine. A. P. Krinochkin, D. S. Kopchuk,* G. A. Kim, E. B. Gorbunov, I. S. Kovalev, S. Santra, G. V. Zyryanov, **A. Majee,** V. L. Rusinov and O. N. Chupakhin, *Inorganica Chimica Acta*, ISSN, 0020-1693,(2018),478, 49-53.
https://doi:org/10.1016/j.ica.2018.03.016 **(**Impact Factor **:** 2.2) **(Cited 1 times)**

104. 6-Arylamino-2,2'-bipyridine "Push-Pull" Fluorophores: Solvent-Free Synthesis and Photophysical Studies, D. S. Kopchuk, A. P. Krinochkin, E. S. Starnovskaya, Y. K. Shtaitz, A. F. Khasanov, O. S. Taniya, S. Santra,* G. V. Zyryanov, A. Majee, V. L. Rusinov, and O. N. Chupakhin, *ChemistrySelect*, ISSN:2365-6549,(2018), 3, 4141 – 4146.
https://doi:10.1002/slct.201800220 **(**Impact Factor **:** 1.7) **(Cited 2 times)**
(Cover Picture: *ChemistrySelect*,3/2017).

103. Studies on the interactions of 5-R-3-(2-pyridyl)-1,2,4-triazines with arynes: inverse demand aza-Diels–Alder reaction versus aryne-mediated domino process. D. S. Kopchuk, I. L. Nikonov, A. F. Khasanov, K. Giri, S. Santra,* I. S. Kovalev, E. V. Nosova, S. Gundala, P. Venkatapuram, G. V. Zyryanov, **A. Majee,*** and O. N. Chupakhin, *Organic & Bimolecular Chemistry*. ISSN: 1477-0520 (print); 1477-0539 (web), (2018), 16, 5119-5135.
https://doi:10.1039/c8ob00847g **(**Impact Factor **:** 3.56) **(Cited 2 times)**

102. A Domino Approach for the Synthesis of α,β-Epoxy Ketones from Carbonyl Compounds under Neat Conditions at Ambient Temperature. S. Mahato, S.

Santra, A. De, R. Chatterjee, G. V. Zyryanov and **A. Majee,*** *ChemistrySelect*, ISSN:2365-6549, (2018), 3, 7596-7601.
https://doi:10.1002/slct.201801162 (Impact Factor :1.7) **(Cited times)**

101. Synthesis of diverse β-(nitrooxy)-substituted amines by regioselective ring-opening of aziridines under neat conditions. S. Samanta, R. Chatterjee, S. Mahato, A. Hajra, S. Santra, G. V. Zyryanov and **A. Majee,*** *Synthetic Communications*, ISSN: 0039-7911 (print); 1532-2432 (web), (2018), 48, 1857-1866
https://doi:org/10.1080/00397911.2018.1471509 **(**Impact Factor **:** 1.79) **(Cited times)**

100. Imidazolium Zwitterionic Molten Salt: An Efficient Organocatalyst under Neat Conditions at Room Temperature for the Synthesis of Dipyrromethanes as well as Bis(indolyl)methanes. R. Chatterjee, S. Mahato, S. Santra, G. V. Zyryanov, A. Hajra and **A. Majee,*** *ChemistrySelect*, ISSN:2365-6549, (2018), 3, 5843- 5847.
https://doi:10.1002/slct.201800227 **(**Impact Factor : 1.7) **(Cited times)**

99. Scope and Limitations of Leuckart-Wallach-Type Reductive Amination: Chemoselective Synthesis of Tertiary Amines from Aldehydes under Neat Conditions. A. De, N. Chakraborty Ghosal, S. Mahato, S. Santra, G. V. Zyryanov and **A. Majee,*** *ChemistrySelect*, ISSN:2365-6549,(2018), 3, 4058-4066.
https://doi:10.1002/slct.201800636 (Impact Factor : 1.7) **(Cited 1 times)**

98. Pot, Atom, Step Economic (PASE) Approach towards (Aza)-2,2′-Bipyridines: Synthesis and Photophysical Studies. A. F. Khasanov, D. S. Kopchuk, G. A. Kim, P. A. Slepukhin, I. S. Kovalev, S. Santra,* G. V. Zyryanov, **A. Majee,** O. N. Chupakhin and V. N. Charushin, *ChemistrySelect*, ISSN:2365-6549, (2018), 3, 340-347.
https://doi:10.1002/slct.201702350 (Impact Factor : 1.7) **(Cited 2 times)**
(Cover Picture: *ChemistrySelect* 2/**2018)**

97. An Efficient Cyanide-free Approach towards 1-(2-Pyridyl)isoquinoline-3-carbonitriles via the Reaction of 5-Phenacyl-1,2,4-triazines with 1,2-Dehydrobenzene in the Presence of Alkyl Nitrites. D. S. Kopchuk, A. P. Krinochkin, A. F. Khasanov, I. S. Kovalev, P. A. Slepukhin, E. S. Starnovskaya, A. Mukherjee, M. Rahman, G. V. Zyryanov, **A. Majee,** V. L. Rusinov, O. N. Chupakhin and S. Santra,* *Synlett*, ISSN : 0936-5214 (print) 1437-2096 (web), (2018), 29, 483-488.
https://doi:10.1055/s-0036-1590961 (Impact Factor : 2.3) **(Cited times)**

2017

96. Copper nanoparticles as inexpensive and efficient catalyst: a valuable contribution in organic synthesis. **(Review article),** N. Ojha, G. V. Zyryanov, **A. Majee,** V. N. Charushin, O. N. Chupakhin and S. Santra,* *Coordination Chemistry Reviews*, (2017), 353, 1-57.

https://doi:org/10.1016/j.ccr.2017.10.004 **(**Impact Factor **:** 15.3) **(Cited 20 times)**

95. Conjugated Addition of Amines to Electron Deficient Alkenes: A Green Approach. A . Mukherjee, R. Chatterjee, A. De, S. Samanta, S. Mahato, N. C. Ghosal and **A. Majee,*** *Chimica Techno Acta*, ISSN : 2409-5613, (2017), 4, 140-147.
https://doi:10/15826/chimtech2017.4.2.029 **(**Impact Factor **:) (Cited times)**

94. Unsymmetrically functionalized 5,5''-diaryl- and 5,6,5''-triaryl-2,2':6',2''-terpyridines: an efficient synthetic route and photophysical properties. A. P. Krinochkin, D. S. Kopchuk, A. F. Khasanov, N. V. Chepchugov, I. S. Kovalev, S. Santra, G. V. Zyryanov,* **A. Majee,** V. L. Rusinov, and O. N. Chupakhin, *Canadian Journal Chemistry*,ISSN: 0008-4042 (print); 1480-3291 (web), (2017), 851-857.
https://doi:org/10.1139/cjc-2017-0195 **(**Impact Factor **:**1.17) **(Cited 2 times)**

93. The Remarkable Cooperative Effect of a Brønsted Acidic Ionic Liquid in Cyclization between 2-Aminobenzamides with Ketones. S.Das, S. Santra, S. Jana, **A. Majee,** G. V. Zyryanov and A. Hajra,* *European Journal of Organic Chemistry*, ISSN : 1434-193X (print) 1099-0690 (web), (2017), 4955-4962.
https://doi:10.1002/ejoc.201700966 **(**Impact Factor **:** 2.88) **(Cited 2 times)**

92. A Domino Approach for the Synthesis of *α*-Iodo-*β*-dicarbonyl Compounds from *α*-Epoxycarbonyls. S. Mahato, R. Chatterjee, S. Santra, G. V. Zyryanov, A. Hajra, and **A. Majee,*** *ChemistrySelect*, ISSN:2365-6549, (2017), 2, 6254-6259.
https://doi:10.1002/slct.201700867 **(**Impact Factor **:** 1.7) **(Cited 1 times)**

91. Zwitterionic imidazolium salt: an efficient organocatalyst for tetrahydropyranylation of alcohols. S. Mahato, R. Chatterjee, N. Chakraborty Ghosal, and **A. Majee,*** *Synthetic Communications*, ISSN: 0039-7911 (print); 1532-2432 (web), (2017), 47, 1905-1915.
https://doi:org/10.1080/00397911.2017.1356334 **(**Impact Factor **:1.79) (Cited 1 times)**

90. Solvent-free synthesis of (poly)thiacalix[*n*]arenes: the evaluation of possible mechanism based on semi-preparative HPLC separation and mass-spectrometric investigation of the reaction products. I. S. Kovalev, M. Rahman, L. K. Sadieva, D. E. Pavlyuk, K. Giri,* S. Santra,* D. S. Kopchuk, G. V. Zyryanov, **A. Majee,** O. N. Chupakhin, and V. N. Charushin, *Arkivoc*, ISSN : 1551-7004 (print) 1551-7012 (web), (2017), v, 159-171.
https://doi:org/10.24820/ark.5550190.p010.186 **(**Impact Factor **:** 0.7) **(Cited times)**

89. Brønsted acidic ionic liquid-catalyzed tandem reaction: an efficient approach towards regioselective synthesis of pyrano[3,2-*c*]coumarins under solvent-free

conditions bearing lower E-factors. S. Mahato, S. Santra, R. Chatterjee, G. V. Zyryanov, A. Hajra and **A. Majee,*** *Green Chemistry*, ISSN : 1463-9270, (2017), 19, 3282-3295.
https://doi:10.1039/c7gc01158j (Impact Factor : 9.4) **(Cited 17 times)**

88. A Mild and Efficient Method for the Syntheses and Regioselective Ring-Opening of Aziridines. N. Chakraborty Ghosal, S. Mahato, R. Chatterjee, S. Santra, G. V. Zyryanov and **A. Majee,*** *SynOpen*, ISSN : 2509-9396, (2017), 15-23.
https://doi:10.1055/s-0036-1588809 **(**Impact Factor **:) (Cited 2 times)**

87. Extended cavity pyrene-based iptycenes for the turn-off fluorescence detection of nitroaromatic explosives and RDX,A. F. Khasanov, D. S. Kopchuk, I. S. K.O. S. Taniya, K. Giri, S. Santra,* M. Rahman, **A. Majee,** V. N. Charushin and O. N. Chupakhin, *New Journal of Chemistry*, ISSN : 1144-0546 (print) 1369-9261 (web), (2017), 41, 2309-2320.
https://doi:10.1039/c6nj02956f (Impact Factor : 3.27) **(Cited 7 times)**

86. An efficient synthetic approach towards new 5,5'-diaryl-2,2'-bipyridine-based Fluorophores, A. P. Krinochkin, D. S. Kopchuk, N. V. Chepchugov, G. A. Kim, I. S.Kovalev, M. Rahman,G. V. Zyryanov, **A. Majee,*** V. L. Rusinov and O. N. Chupakhin, *Chinese Chemical Letters*, ISSN : 1001-8417,(2017),28,1099-1103, https://doi:org/10.1016/j.cclet.2016.12.043 **(**Impact Factor : 4.63) **(Cited 3 times)**

85. Solvent-free synthesis of 5-(aryl/alkyl)amino-1,2,4-triazines and a-arylamino-2,2'-bipyridines with greener prospects. D. S. Kopchuk,* N. V. Chepchugov, I. S. Kovalev, S. Santra, M. Rahman, K. Giri, G. V. Zyryanov, **A. Majee,** V. N. Charushina and O. N. Chupakhina, *RSC Advances*, ISSN : 2046-2069, (2017), **7,** 9610-9619.
https://doi:10.1039/c6ra26305d **(**Impact Factor : 2.93) **(Cited 10 times)**

2016

84. Combination of $NH_2OH{\cdot}HCl$ and $NaIO_4$: a new and mild reagent for the synthesis of vicinal diiodo carbonyl compounds. S. Santra, S. K. Kundu, N. Chakraborty Ghosal, R. Chatterjee, S. Mahato, I. A. Khalymbadzha, G. V. Zyryanov, A. Hajra and **A. Majee,*** *Arkivoc*, ISSN : 1551-7004 (print) 1551-7012 (web), (2016), v, 416-426.
https://doi:org/10.3998/ark.5550190.p009.698 (Impact Factor : 0.7) **(Cited 2 times)**

83. 3-Cyano-2-azaanthracene-based "push-pull" fluorophores: a one-step preparation from 5-cyano-1,2,4-triazines and 2,3-dehydronaphthalene, generated *in situ*. D. S. Kopchuk, N. V. Chepchugov, O. S. Taniya, A. F. Khasanov, K. Giri, Igor S. Kovalev, S. Santra, G. V. Zyryanov,* **A. Majee,** V. L. Rusinov and O. N. Chupakhin, *Tetrahedron Letters,* ISSN*:* 0040-4039, (2016),57, 3862-65.

https://doi:org/10.1016/j.tetlet.2016.11.008. (Impact Factor : 2.3) **(Cited 10 times)**

82. Ligand free nickel catalyzed C-S bond formation: synthesis of 2-aminobenzothiazoles. M. Singsardar, S. Mitra, **A. Majee,*** and A. Hajra, *International Journal of Research on Social and Natural Sciences*, ISSN (Online) 2455- 5916, (2016), 1, 1-7.
http://www.katwacollegejournal.com/abstract/A_Hajra-Chem-Manuscript__ANH-(06-27021601)_(1).PDF **(**Impact Factor **:) (Cited 1 times)**

81. Use of Zwitterionic-Type Molten Salt at Room Temperature for the One-Pot Synthesis of N-substituted decahydroacridine-1,8-diones in Water-Ethanol. S. Das, S. K. Kundu, A. Hajra* and **A. Majee,*** *Journal of Indian Chemical Society*, ISSN : 0019-4522,(2016),1221-1224,
https://indichemicalsociety.com **(**Impact Factor : 0.10) **(Cited 3 times)**

80. A one-pot approach to 10-(1*H*-1,2,3-triazol-1-yl)pyrimido[1,2-*a*]indoles *via* aryne-mediated transformations of 3-(pyrimidin-2-yl)-1,2,4-triazines. D. S. Kopchuk, N. V. Chepchugov, A. F. Khasanov, I. S. Kovalev, S. Santra, E. V. Nosova, G. V. Zyryanov,* **A. Majee,** V. L. Rusinov, O. N. Chupakhin *Tetrahedron Letters*, ISSN*:* 0040-4039,(2016), 57, 3862-3865.
https://doi:org/10.1016/j.tetlet.2016.07.052 **(**Impact Factor **:** 2.3) **(Cited 9 times)**

79. Conversion of aziridines to oxazolidines through geminal difunctionalization of vinyl arenes or by tandem ring-opening/closing reaction of aziridine itself. N. Chakraborty Ghosal, S. Santra, G. V. Zyryanov, A. Hajra and **A. Majee,*** *Tetrahedron Letters*, ISSN*:* 0040-4039,(2016), 57, 3551-3555.
https://doi:org/10.1016/j.tetlet.2016.06.119 **(**Impact Factor :2.3) **(Cited 7 times)**

78. A decade update on solvent and catalyst-free organic neat reactions: a step forward towards sustainability. **(Review articles)** A. Sarkar, S. Santra, S. K. Kundu, A. Hajra, G. V. Zyryanov, O. N. Chupakhin, V. N. Charushin and **A. Majee,*** *Green Chemistry*, ISSN : 1463-9270, (2016),18, 4475-4525.
https://doi:10.1039/c6gc01279e **(**Impact Factor : 9.4) **(Cited 57 times)**

77. Zwitterionic Imidazolium Salt: Recent Advances in Organocatalysis, **(Review articles),** S. Das, S. Santra, P. Mandal, **A. Majee,** and A. Hajra,* *Synthesis*, ISSN *:* 0039-7881, (2016), 49,1269-1285.
https://doi:10.1039/c6gc01279e **(**Impact Factor : 2.4) **(Cited 12 times)**

76. Fluorescent detection of common nitroaromatic explosives in aqueous media by using water-soluble pyrene derivatives. I. S. Kovalev, O. S. Tania, N. V. Slovesnova, G. A. Kim, S. Santra,D. S. Kopchuk, P. A. Slepukhin, G. V.

Zyryanov,* **A. Majee,*** V. N. Charushinand O. N. Chupakhin, *Chemistry – an Asian Journal*, (2016), 11, 775-781.
https://doi:10.1002/asia.201501310 **(**Impact Factor : 4.09) **(Cited 16 times)**

75. Organocatalysis by an Aprotic Imidazolium Zwitterion: Regioselective Ring-Opening of Aziridines and Applicable to Gram Scale Synthesis. N. C. Ghosal, S. Santra, S. Das, A. Hajra, G. V. Zyryanov and **A. Majee,*** *Green Chemistry*, ISSN : 1463-9270, (2016), 18, 565-574.
https://doi:10.1039/C5GC01323B (Impact Factor **: 9.4) (Cited 24 times)**

74. Solvent-free synthesis of pillar[6]arenes. S. Santra, D. S. Kopchuk, I. S. Kovalev, G. V. Zyryanov,* **A. Majee,** , V. N. Charushin, O. N. Chupakhin, *Green Chemistry*, ISSN : 1463-9270, (2016), 18, 423-426.
https://doi:10.1039/C5GC01505G.(Impact Factor **:9.4) (Cited 14 times)**

73. Zwitterionic Imidazolium Salt: An Efficient Organocatalyst for the One-Pot Synthesis of 5,6-Unsubstituted 1,4-Dihydropyridine Scaffolds. **(invited article),** A. K. Bagdi, D. Kundu, **A. Majee,** and A.Hajra,* *Current Organocatalysis*, ISSN : 2213-3372 (Print) 2213-3380 (Web), (2016), 3, 169-175.
https://doi:10.2174/2213337202666150414201734 **(**Impact Factor **:) (Cited 2 times)**

2015

72. Role of Polar Solvent for synthesis of of Pillar[6]arenes. S. Santra, D. S. Kopchuk, I. S. Kovalev, G. V. Zyryanov,* **A. Majee,*** V.N. Charushinand O. N. Chupakhin, *RSC Advances*, ISSN : 2046-2069, (2015),5**,** 104284-104288.
https://doi:10.1039/c5ra19569a **(**Impact Factor **: 2.93) (Cited 6 times)**

71. Regioselective synthesis of nitrosoimidazoheterocycles using *tert*-butyl nitrite.
K. Monir, M. Ghosh, **A. Majee,** and A. Hajra,* *Organic & Bimolecular Chemistry*. ISSN: 1477-0520 (print); 1477-0539 (web), (2015), 13, 717-8722.
https://doi:10.1039/c5ob01345 (Impact Factor **: 3.56) (Cited 32 times)**

70. Combination of $NH_2OH.HCl$ and $NaIO_4$: an effective reagent for molecular iodine-free regioselective 1,2-difunctionalization of olefins and easy access of terminal acetals. N. Chakraborty, S. Santra, S. K. Kundu, A. Hajra, G. V. Zyryanov and **A. Majee,*** *RSC Advances*, ISSN : 2046-2069, (2015), 5, 56780-56788.
https://doi:10.1039/c5ra11092k **(**Impact Factor **: 2.93) (Cited 7 times)**

69. Copper(I) iodide catalyzed synthesis of primary propargylic alcohols from terminal alkyne. S. K. Kundu,* K. Mitra and **A. Majee,*** *RSC Advances*, ISSN : 2046-2069, (2015), 5, 13220-13223.
https://doi:10.1039/c4ra12719f **(**Impact Factor **:2.93) (Cited 6 times)**

68. Zinc Tetrafluoroborate: A Versatile and Robust Catalyst for Various Organic Reactions and Transformations. **(Review articles),** A. Sarkar, S. Santra, S. K. Kundu, N. Chakraborty Ghosal, A. Hajra and **A. Majee,*** *Synthesis,* ISSN *:* 0039-7881, (2015), 1379-1386.
https://doi:10.1039/c4ra12719f **(**Impact Factor **:2.4) (Cited 3 times)**

67. Solvent-free silica-promoted multicomponent condensation: Synthesis of highly functionalized piperidines. S. Das, A. K. Bagdi, S. Santra, **A. Majee,*** andvA. Hajra, *Research on Chemical Intermediates,* (2015), 41, 6749–6763.
https://doi:10.1007/s11164-014-1774-7 **(**Impact Factor **: 1.8) (Cited 2 times)**

2014

66. Copper(I)-Catalyzed Oxidative Coupling between2‑Aminobenzothiazole and Terminal Alkyne: Formation of Benzothiazine. S. Mitra, A. Chakraborty, S. Mishra, **A. Majee,** and A. Hajra,* *Organic Letters,* ISSN: 1523-7060 (print); 1523-7052 (web), (2014), 16, 5652-5655.
https://doi:10.1021/ol502729c (Impact Factor : 6.7) **(Cited times)**

65. Microwave-Assisted Three-Component ‘‘Catalyst and Solvent-Free’’ Green Protocol: A Highly Efficient and Clean One-Pot Synthesis of Tetrahydrobenzo[*b*]pyrans. S. Santra, M. Rahman, A. Roy, **A. Majee,*** and A. Hajra, *Research Chemistry International*, (2014), 1-4.
https://doi:org/10.1155/2014/851924 **(**Impact Factor **:)(Cited 5 times)**

64. Iron(III)-Catalyzed Three-Component Domino Strategy for the Synthesis of Imidazo[1,2-a]pyridines. S. Santra, S. Mitra, A. K. Bagdi, **A. Majee,** and A. Hajra,* *Tetrahedron Letters,* ISSN*:* 0040-4039, (2014), 55, 5151-5155.
https://doi:org/10.1016/j.tetlet.2014.07.094 **(**Impact Factor **:2.3) (Cited 31 times)**

63. Copper(II)-catalyzed aerobic oxidative coupling between chalcone and 2-aminopyridine *via* C-H Amination: An expedient synthesis of 3-aroylimidazo[1,2-*a*]pyridines. K. Monir, A. K. Bagdi, S. Mishra, **A. Majee,** and A. Hajra,* *Advanced Synthesis and Catalysis,* ISSN: 1615-4169, (2014), 356, 1105-1112.
https://doi:10.1002/adsc.201300900 **(**Impact Factor **: 5.85) (Cited 74 times)**

62. Nano indium oxide: An efficient catalyst for one-pot synthesis of 2,3-dihydroquinazolin-4(1*H*)-ones with a greener prospect. S**.** Santra, M. Rahman, A. Roy, **A. Majee,** and A. Hajra,* *Catalysis Communications,* ISSN: 1566-7367, (2014), 49, 52-57.
https://doi:org/10.1016/j.catcom.2014.01.032 **(**Impact Factor **: 3.46) (Cited 36 times)**

61. Phenyliodine (III) diacetate (PIDA) mediated synthesis of aromatic azo compounds through oxidative dehydrogenative coupling of anilines: Scope and mechanism. K. Monir, M. Ghosh, S. Mishra, **A. Majee,*** and A. Hajra,* *European Journal of Organic Chemistry*, ISSN : 1434-193X (print) 1099-0690 (web), (2014), 1096-1102.
https://doi:10.1002/ejoc.201301209. **(**Impact Factor **: 2.88) (Cited 15 times)**

60. Catalytic application of task specific ionic liquid on the synthesis of benzoquinazolinone derivatives by a multicomponent reaction. M. Rahman, A. Sarkar, M. Ghosh, **A. Majee,*** and A. Hajra, *Tetrahedron Letters*, ISSN: 0040-4039, (2014), 55, 235-239.
https://doi:org/10.1016/j.tetlet.2013.11.011 **(**Impact Factor **:2.3) (Cited 20 times)**
(Highlighted in Synfacts as 'Synthesis of Benzoquinazolinones Using a Brønsted Acidic Ionic Liquid'Contributors: Yasuhiro Uozumi, Fumie Sakurai Synfacts 32014, 10(3), 0326, Published online: 17.02.2014 0 1861-19581861-194X DOI: 10.1055/s-0033-1340723; Reg-No.: Y00814SF©GeoTN)

59. Organocatalysis by aprotic imidazolium zwitterion: A dramatic anion–cation cooperative effect on azide-nitrile cycloaddition. A. Hajra,* **A. Majee,*** M. Rahman, A. Roy and M. Ghosh , *RSC Advances*, ISSN : 2046-2069, (2014), 4, 6116-6119.
https://doi:10.1039/c3ra46293e.**(**Impact Factor **: 2.93) (Cited 11 times)**

58. An improved procedure of Miyashita protocol for the preparation of ureidomethylene derivatives of 1,3-dicarbonyl compounds. **A. Majee,*** S. K. Kundu, S. Santra and A. Hajra. *Indian Journal of Chemistry B*, (2014), 53B**,** 124-126.
http://nopr.niscair.res.in/handle/123456789/25329 **(**Impact Factor **: 0.38) (Cited 3 times)**

2013

57. Metal nanoparticles in "on-water" organic synthesis: one-pot nano CuO catalyzed synthesis of isoindolo[2,1-*a*]quinazolines. S. Santra, A. K. Bagdi, **A. Majee,*** and A. Hajra* *RSC Advances*, ISSN : 2046-2069, (2013), 3, 24931-24935..
https://doi:10.1039/c3ra43917h **(**Impact Factor **:2.93) (Cited 24 times)**

56. Synthesis of polysubstituted quinolines *via* copper(II)-catalyzed annulation of 2-aminoaryl ketones with alkynoates. A. K. Bagdi, S. Santra, M. Rahman, **A. Majee,** and A. Hajra* *RSC Advances.*, ISSN : 2046-2069, (2013), 3, 24034-24037.
https://doi:10.1039/c3ra45576a **(**Impact Factor **:2.93) (Cited 10 times)**

55. Synthesis, structure and catalytic aspects of the palladium(II) complex [PdLCl] (where LH = 2-formyl-4-methyl-6-N-ethylpiperidineiminomethylphenol). D.

Das,* P. Maiti, A. K. Bagdi, T. Ghosh, T. Chattopadhay, S. Das, A. Hajra, **A. Majee,** and E. Zangrand, *Indian Journal of Chemistry*, (2013), 52A, 863-867. http://nopr.niscair.res.in/handle/123456789/19628 **(**Impact Factor **: 0.10) (Cited times)**

54. Nano indium oxide catalyzed tandem cyclization of amidine with nitroolefin. S. Mitra, A. K. Bagdi, **A. Majee,*** and A. Hajra* *Tetrahedron Letters*, ISSN*:* 0040-4039, (2013), 54, 4982-4985. https://doi:org/10.1016/j.tetlet.2013.07.050 **(**Impact Factor **: 2.3) (Cited 27 times)**

53. Regioselective synthesis of pyrano[3,2-c]coumarins via Cu(II)-catalyzed tandem reaction. A. K. Bagdi, **A. Majee,** and A. Hajra,* *Tetrahedron Letters*, ISSN*:* 0040-4039, (2013), 54, 3892-3895. https://doi:org/10.1016/j.tetlet.2013.05.061 **(**Impact Factor **: 2.3).(Cited 25 times)**

52. Copper-catalyzed synthesis of imidazo[1,2-a]pyridines through tandem imine formation-oxidative cyclization underambient air: One-step synthesis of zolimidine on a gram-scale. A. K. Bagdi, M. Rahman, S. Santra, **A. Majee,** and A. Hajra,* *Advanced Synthesis and Catalysis*, ISSN: 1615-4169, (2013), 355, 1741-1747. https://doi:10.1002/adsc.201300298 **(**Impact Factor **:5.83) (Cited 113 times)**

51. Iron(III)-Catalyzed Cascade Reaction between Nitroolefins and 2-Aminopyridines: Synthesis of Imidazo[1,2-a] pyridines and Easy Access towards Zolimidine, S. Santra, A. K. Bagdi, **A. Majee,** and A. Hajra,* *Advanced Synthesis and Catalysis*, ISSN: 1615-4169, (2013), 355, 1065-1070. https://doi:10.1002/adsc.201201112 **(**Impact Factor **: 5.83) (Cited 115 times)**

50. Dialkyl phosphite as a highly selective mono- N-alkylating agent using indium triflate under microwave irradiation. S. K. Kundu,* K. Mitra and **A. Majee,*** *RSC Advance.*, ISSN : 2046-2069, (2013), 3, 8649–8651. https://doi:10.1039/c3ra40509e **(**Impact Factor **: 2.93) (Cited 11 times)**

49. A simple and efficient approach for sulfonation of indoles catalyzed by CuI, M. Rahman, M. Ghosh, A. Hajra and **A. Majee,*** *Journal of Sulfur Chemistry*, ISSN : 1741-5993, (2013),34, 342-346. https://doi:10.1080/17415993.2012.740672 **(**Impact Factor **: 1.32) (Cited 7 times)**

2012

48. Zwitterionic-Type Molten Salt-Catalyzed Multi-Component Reactions: One-Pot Synthesis of Substituted Imidazoles under Solvent-Free Conditions. M. Rahman, A. K. Bagdi, D. Kundu, **A. Majee,** and A. Hajra,* *Journal of Heterocyclic Chemistry*, ISSN : 0022152Xv(Print) 1943-5193 (Web), (2012), 49, 1224-1228. https://doi:10.1002/jhet.924 **(**Impact Factor**: 1.13) (Cited 16 times)**

47. A mild and efficient Synthesis of 1,5- benzo-diazepine derivatives catalysis by acidic ionic liquid in solvent free condition. A. Roy, **A. Majee,*** and A. Hajra,* *Journal of Indian chemical Society*, ISSN : 0019-4522, (2012),89, 963-965**.** https://indianchemicalsociety.com **(**Impact Factor **: 0.10) (Cited times)**

46. Combination of $NH_2OH.HCl$ and $NaIO_4$: a new and mild oxidizing agent for selective oxidation of alcohols to carbonyl compounds. **A. Majee,*** S. K. Kundu, S. Santra and A. Hajra,* *Tetrahedron Letters*, ISSN*:* 0040-4039, (2012), 53, 4433-4435. https://doi:org/10.1016/j.tetlet.2012.06.043 **(**Impact Factor **:2.3) (Cited 9 times)**

45. An efficient and alternative approach for preparation of O-benzoylozimes using benzoyl peroxide. S. K. Kundu, M. Rahman, P. Dhara, A. Hajra and **A. Majee,*** *Synthetic Communications*, ISSN: 0039-7911 (print); 1532-2432 (web), (2012), 42, 1848-1854. https://doi:.org/10.1080/00397911.2010.545165 **(**Impact Factor **:1.37) (Cited 5 times)**

44. Nano indium oxide: an efficient catalyst for the synthesis of 1,2-disubstituted benzimidazoles in aqueous media. S. Santra, **A. Majee,*** and A. Hajra,* *Tetrahedron Letters*, ISSN*:* 0040-4039, (2012), 53, 1974-1977. https://doi:10.1016/j.tetlet.2012.02.021 **(**Impact Factor **:2.3) (Cited 57 times)**

43. One-Pot Multicomponent Synthesis of Polyhydroquinolines under Catalyst and Solvent-Free Conditions. S. Das, S. Santra, A. Roy, S. Urinda, **A. Majee,** A. Hajra,* *Green Chemistry Letters and Reviews*, ISSN : 17517192, 17518253, (2012), 5, 97-100.article. https://doi:.org/10.1080/17518253.2011.584073 **(**Impact Factor **:3.36) (Cited 12 times)**

2011

42. A Convenient Synthesis of Coumarins using Reusable Ionic Liquid as Catalyst. S. Das, **A. Majee,** and A. Hajra,* *Green Chemistry Letters and Reviews*, ISSN : 17517192, 17518253, (2011), 4, 349-353.

https://doi:org/10.1080/17518253.2011.572296.**(**Impact Factor **: 3.36) (Cited 11 time)**

41. Nano indium oxide catalyzed efficient synthesis of propargylamines *via* C–H and C–Cl bond activations. M. Rahman, A. K. Bagdi, **A. Majee,** and A. Hajra,* *Tetrahedron Letters*, ISSN: 0040-4039, (2011), 52, 4437-4439.
https://doi:10.1016/j.tetlet.2011.06.067 **(**Impact Factor **: 2.3) (Cited 57 times)**
(Highlighted in Synfacts as 'synthesis of propargylamines with In2O3 namo particle, Contributors: Yasuhiro Uozumi, Noboru Kobayashi Synfacts 2011,10,1140, Published online: 20.09.2011, DOI: 10.1055/s-0030-1261085; Reg-No.: Y00814SF)

40. Task-Specific Ionic Liquid-Catalyzed Efficient Couplings of Indoles with 1,3-Dicarbonyl Compounds: An Efficient Synthesis of 3-Alkenylated Indoles. S. Santra, **A. Majee,*** and A. Hajra,* *Tetrahedron Letters*, ISSN: 0040-4039, (2011), 52, 3825-3827.
https://doi:10.1016/j.tetlet.2011.05.069 **(**Impact Factor **: 2.3) (Cited 22 times)**

39. Zwitterionic-type molten salt: A mild and efficient organocatalyst for the synthesis of 3-aminoalkylated indoles *via* three-component coupling reaction. D. Kundu, A. K. Bagdi, **A. Majee,*** and A. Hajra, *Synlett*, ISSN : 0936-5214 (print) 1437-2096 (web), (2011), 1165-1167.
https://doi:10.1055/s-0030-1259940 **(**Impact Factor **: 2.36) (Cited 24 times)**

38. Indium triflate-catalyzed coupling between nitroalkene and phenol/naphthol: a simple and direct synthesis of benzofuran and naphthofuran via cyclization reaction, D. Kundu, **A. Majee,** and A. Hajra,* *Chemistry-an Asian Journal*, ISSN :1861-4728 (print) 1861-471X (web), (2011), *6*, 406-409.
https://doi: 10.1002/asia.201000869 **(**Impact Factor **: 3.89) (Cited 52 times)**

37. Task-specific ionic liquid catalyzed efficient microwave assisted synthesis of 12-alkyl or aryl-8,9,10,12-tetrahydrobenzo[a]xanthene-11-ones under solvent-free conditions. D. Kundu, **A. Majee,** and A. Hajra,* *Green Chemistry Letters and Reviews*, ISSN : 17517192, 17518253, (2011), 4, 205-209
https://doi:org/10.1080/17518253.2010.544260 **(**Impact Factor **: 3.36) (Cited 10 times)**

2010

36. Microwave-assisted Bronsted acidic ionic liquid promoted one-pot synthesis of heterobicyclic dihydropyrimidinones. M. Rahman, **A. Majee,** and A. Hajra,* *Journal of Heterocyclic Chemistry*, ISSN : 0022152Xv(Print) 1943-5193 (Web), (2010), 47, 1230-1233.

https://doi:10.1002/jhet.415 **(**Impact Factor **:1.48) (Cited 21 times)**

35. Manganese (II) Chloride-Catalyzed Conjugated Addition of Amines toElectron Deficient Alkenes in Methanol-Water Medium. A. Roy, D. Kundu, S. K. Kundu, **A. Majee,*** and A. Hajra,* *The Open Catalysis Journal*, (2010), 3, 34-39. https://doi**:** 10.2174/1876214X01003010034 (Impact Factor **:) (Cited 17 times.)**

34. Formylation without Catalyst and solvent at 80 ^{o}C. M. Rahman, D. Kundu, A. Hajra and **A. Majee,*** *Tetrahedron Letters*, ISSN*:* 0040-4039, (2010), 51, 2896-2898. (correction **2010**, *51* 4585-4586).
https://doi:10.1016/j.tetlet.2010.03.097 (Impact Factor **:2.3) (Cited 61 times)**
(Highlighted in Organic chemistry highlight by D. F. Taber, Org. Chem. Highlights 2010, November 8. URL: http://www.organic-chemistry.org/Highlights/2010/08November.shtm)

33. Zwitterionic-type molten salt: an efficient mild catalyst for synthesis of 2-amidoalkyl and 2-carbamatoalkyl naphthols. D. Kundu, **A. Majee** and A. Hajra,* *Catalysis Communications*, ISSN*:* 1566-7367, (2010), 11, 1157-1159.
https://doi:10.1016/j.catcom.2010.06.001 **(**Impact Factor **: 3.46) (Cited 87 times)**

32. Task-specific ionic-liquid-catalyzed efficient synthesis of indole derivatives under solvent free condition. S. Das, M. Rahman D. Kundu, **A. Majee,** and A. Hajra,* *Canadian Journal of Chemistry*, (2010), 88, 150-154.
https://doi.org/10.1139/V09-154 **(**Impact Factor **: 1.37) (Cited 21 times)**

31. TBATB - a useful catalyst for synthesis of bis (indolyl) methane derivatives at room temperature. S. K. Kundu, S. Islam and **A. Majee,*** *Russian Journal of Organic Chemistry*, (2010), 46, 126-128.
https://doi:: 10.1134/S1070428010010136 (Impact Factor **: 0.75) (Cited 5 times)**

.

2009

30. An Efficient One-Pot Synthesis of Naphthoxazinones by a Three-Component Coupling of Naphthol, Aldehydes, and Urea Catalyzed by Zinc Triflate. D. Kundu, **A. Majee,*** and A. Hajra,* *Journal of Heterocyclic Chemistry* ,(2009), 46, 1019-1022.
https://doi:10.1002/jhet.180 **(**Impact Factor **: 1.48) (Cited 12 times)**

29. Indium triflate-catalyzed one-pot synthesis of 14-alkyl or aryl-14H-dibenzo[a,j] xanthenes in water. S. Urinda, D. Kundu, **A. Majee,*** and A. Hajra,* *Journal of Hetero Atom*, (2009), 20, 232-234.
https://doi.org/10.1002/hc.20539 **(**Impact Factor **: 1.13) (Cited 26 times)**

28. A Convenient Synthesis of 1,5- benzothiazepine with Microwave Irradiation under Solvent or Catalyst free condition, M. Rahman, A. Roy, **A. Majee,***,and A. Hajra,* *Journal of Chemical Research*, (2009), 178-179.
https://journals.sagepub.com/toc/chla/2009/3 **(**Impact Factor **: 0.6) (Cited 11 times)**

27. Zwitterionic-type molten salt-catalyzed syn-selective aza-Henry reaction: solvent-free one-pot synthesis of b-nitroamines. D. Kundu, R. K. Debnath, **A. Majee,** and A. Hajra,* *Tetrahedron Letters,* ISSN*:* 0040-4039, (2009), 50, 6998-7000.
https://doi:10.1016/j.tetlet.2009.09.153 **(**Impact Factor **:2.3) (Cited 45 times)**

26. Indium triflate-catalyzed one-pot synthesis of 1-subtituted-1H-1,2,3,4-tetrazoles under solvent-free conditions. D. Kundu, and **A. Majee,*** A. Hajra,* *Tetrahedron Letters,* ISSN*:* 0040-4039, (2009), 50, 2668-2670.
https://doi: 10.1016/j.tetlet.2009.03.131 **(**Impact Factor **:2.3) (Cited 81 times)**

25. Zinc Chloride as an Efficient Catalyst for Chemoselective Dimethyl Acetalisation. A. Ray, M. Rahman, S. Das, D. Kundu, S. K. Kundu, **A. Majee,*** and A. Hajra,* *Synthetic Communications*, ISSN: 0039-7911 (print); 1532-2432 (web), (2009), 37, 590-595.
https://doi:10.1080/00397910802412859 **(**Impact Factor **:1.37) (Cited 15 times)**

24. Environmentally benign aqueous zinc tetrafluoroborate-catalyzed one-pot Biginelli condensation at room temperature, S. K. Kundu, **A. Majee,*** and A. Hajra,* *Indian Journal of Chemistry*, ISSN : 0376-4699 (print), 0019-5103 (Web), (2009), 48B, 408-412.
http://nopr.niscair.res.in/handle/123456789/3466 **(**Impact Factor **:0.56) (Cited 33 times)**

23. Synthesis and charaterization of *trans*- $[NiL_2(NCS)_2]$[L = (2-aminomethyl) pyridine], *trans*- $[NiL'_2(NSC)_2]$[L' = 2-(2-aminoethyl) pyridine] and *trans*- $[NiL''_2(NSC)_2]$[L'' = 2-(2-methylaminoethyl) pyridine] complexes : X-ray single crystal structure of *trans*- $[NiL'_2(NSC)_2]$[L' = 2-(2-aminoethyl) pyridine]. M. Ghosh, **A. Majee,** M. Nethaji and T. Chattopadhyay,* *Inorganica Chimica Acta* (2009), 362, 2052-2055.
https://doi:10.1016/j.ica.2008.09.037 **(**Impact Factor **: 2.2) (Cited 6 times)**

2008

22. A facile synthesis of 2,2,4-trisubstituted-1,2-dihydroquinolines catalyzed by zinc triflate under solvent-free conditions. D. Kundu, S. K. Kundu, **A. Majee*** and A. Hajra,* *Journal of Chinese Chemical Society*, (2008), 55, 1186-1190.
https://doi.org/10.1002/jccs.200800175 (Impact Factor : 1.55) (Cited 7 times)

21. L-Proline Catalyzed Enamination of -Dicarbonyl Compounds under Solvent-free Conditions. D. Kundu, **A. Majee*** and A. Hajra,* *Chinese Journal of Chemistry*, (2008), 26, 1545-1548.
https://doi.org/10.1002/cjoc.200890279 (Impact Factor :3.82) (Cited 8 times)

2007

20. A novel single pot synthesis of binuclear copper(II) complexes of macrocyclic and macrocyclic compartmental ligands: Structures and magnetic properties. T. Chattapadhyay, K. S. Banu, A. Banerjee, J. Ribas,* **A. Majee**, M. Nethaji* and D. Das,* *Journal Molecular Structure*, (2007), 833, 13-22.
https://doi:10.1016/j.molstruc.2006.08.024 **(**Impact Factor **:2.46) (Cited 32 times)**

19. A mild and efficient cleavage of oximes, hydrazones and semicarbazones using aqueous solution of zinc tetrafluoroborate. **A. Majee*** and S. K. Kundu, *Journal of Indian Chemical Society*, (2007), *84*, 496-497.
https://indianchemicalsociety.com **(**Impact Factor **: 0.10)(Cited 5 times)**

18. Mono- and bimetallic Mn(II) complexes of macrocyclic salen type ligands: Synthesis, Characterization and studies of their catalytic activity,T. Chattpadhayay, S. Islam M. Nethaji, **A. Majee**, and D. Das,* *Journal of Molecular Catalysis. A*, ISSN: 1381-1169, (2007), 267, 255-264.
https://doi:10.1016/j.molcata.2006.11.053 **(**Impact Factor **:3.68)(Cited 24 times)**

2006

17. A Mild and Efficient Method for Oxathioacetalization of Carbonyl Compounds, **A. Majee**,* S. K. Kundu and S. Islam, *Synthetic Communications*, ISSN: 0039-7911 (print); 1532-2432 (web), (2006), 36, 3767-3770.
https://doi:org/10.1080/00397910600947783 **(**Impact Factor **: 1.37) (Cited 8 times)**

2005

16. Linkage isomerism in 1-(2-aminoethyl)morpholine (L) complexes of nickel(II)nitrite: X-ray single crystal structure of *trans*-$[NiL_2(NO_2)_2]$" T. Chattopadhyay, M. Ghosh, **A. Majee**, M. Nethaji* and D. Das,* *Polyhedron*, (2005),24**,** 1677-1681.
https://doi:10.1016/j.poly.2005.04.039 **(**Impact Factor **: 2.06) (Cited 20 times)**

15. Bromodimethylsulfonium bromide : A useful reagent for acetylation of alcohols, phenols, amines, thiols, thiophenols and 1,1-diacylation of aldehydes under solvent free condition. A.T. Khan,* S. Islam, **A. Majee**,* T. Chattopadhyay and S. Ghosh, *Journal of Molecular Catalysis. A*, ISSN: 1381-1169, (2005), 239, 158-165.

https://doi:10.1016/j.molcata.2005.05.042 **(**Impact Factor **:3.68) (Cited 38 times)**

14. Tetrahydropyranylation and depyranylation of alcohols catalyzed by aqueous zinc tetrafluoroborate. S. Islam, **A. Majee**,* and A. T. Khan, *Synthetic Communications*, ISSN: 0039-7911 (print); 1532-2432 (web), (2005), *35*, 1789-1793.
https://doi:org/10.1081/SCC-200063950 **(**Impact Factor **: 1.37) (Cited 13 times)**

13. A highly efficient and catalytic synthetic protocol for oxathioacetalization of carbonyl compounds. A. T. Khan, P. R. Sahu, and **A. Majee**,* *Journal of Molecular Catalysis A*, ISSN: 1381-1169, (2005), 226, 207-212.
https://doi:10.1016/j.molcata.2004.10.019 **(**Impact Factor **: 3.68) (Cited 29 times)**

2004

12. Selective Thioacetalization of Aldehydes Catalyzed by aqueous Zinc Tetrafluoroborate. S. Islam, **A. Majee**,* T. Mandal and A. T. Khan,* *Synthetic Communications*, ISSN: 0039-7911 (print); 1532-2432 (web), (2004), 34**,** 2911-2916.
https://doi.org/10.1081/SCC-200026628 **(**Impact Factor **:1.37) (Cited 9 times)**

2002

11. The Mannich Reaction of Hydrazones amenable to Solid Phase Synthesis : A Powerful Tool for Heterocycle Preparation. V. Atlan, L. Elkaim,* L. Grimaud, N. K. Jana and **A. Majee**, *Synlett*, ISSN : 0936-5214 (print) 1437-2096 (web), (2002), 352-354.
https://doi:10.1055/s-2002-19745 **(**Impact Factor **: 2.36) (Cited 15 times)**

2000

10. The use of Hydrazones as Nucleophiles in Mannich Reaction. V. Atlan, L. Elkaim,* H. Bienayme and **A. Majee**, *Journal of Chemical Society Chemical Communications*, ISSN: 1359-7345, (2000), 1585-1586.
https://doi.org/10.1039/B002750M **(**Impact Factor **: 6.29) (Cited 18 times)**

1999

9. An Ecofriendly Procedure for Selective Mono Acylation of Ferrocene on the Solid Phase of Alumina. B. C. Ranu,* U. Jana and **A. Majee**, *Green Chemistry*, ISSN : 1463-9270, (1999), 33-34.
https://doi.org/10.1039/A808890J **(**Impact Factor **: 9.4) (Cited 46 times)**

8. 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**, *Tetrahedron Letters*, ISSN: 0040-4039, (1999), 40, 1985-1988. PII: S0040-4039(99)00097-0.
https://doi.org/10.1016/S0040-4039(99)00097-0 **(**Impact Factor **:2.3)(Cited 61 times)**

1998

7. Zinc Mediated Allylation of Aldehydes and Ketones Using Allyl Bromide and Commercial Zinc Dust. The Issue of Regio-and Stereoselectivity. **A. Majee**, A. R. Das and B. C. Ranu,* *Indian Journal of Chem*istry, ISSN : 0376-4699 (print), 0019-5103 (Web), (1998), 37B, 731-736.
http://nopr.niscair.res.in/handle/123456789/56884 **(**Impact Factor **: 0.56) (Cited 6 times)**

6. One –pot Reductive Amination of Conjugated Aldehydes and Ketones with Silica gel and Zinc Borohydride. B. C. Ranu,* **A. Majee** and A. Sarkar, *Journal of Organic Chemistry*, ISSN : 0022-3263 (print); 1520-6904 (Web), (1998), 63, 370-373.
https://doi.org/10.1021/jo971117h **(**Impact Factor **: 4.6) (Cited 145 times)**

1997

5. Reduction of Imines with Zinc Borohydride Supported on Silica Gel. Highly Stereoselective Synthesis of Substituted Cyclohexyl amines. B. C. Ranu,* A. Sarkar and **A. Majee**, *Journal of Organic Chemistry*, ISSN : 0022-3263 (print); 1520-6904 (Web), (1997), 62, 1841-1842.
https://doi.org/10.1021/jo961736a **(**Impact Factor **:4.6) (Cited 31 times)**

4. Indium Mediated Regioselective Markovnikov Allylation of Unactivated Terminal Alkynes. B. C. Ranu* and **A. Majee**, *Journal of Chemical society Chemical Communications*, ISSN: 1359-7345, (1997), 1225-1226.
https://doi.org/10.1039/A702241G **(**Impact Factor **: 6.29) (Cited 38 times)**

1996

3. A Convenient Synthesis of β,γ-unsaturated Ketones Through Zinc Mediated Allylation of Acid Chlorides. B. C. Ranu*, **A. Majee** and A. R. Das, *Tetrahedron Letters*, ISSN: 0040-4039, (1996), 37, 1109-1112.
https://doi.org/10.1016/0040-4039(95)02317-8 **(**Impact Factor **: 2.3) (Cited 29 times)**

1995

2. Facile and Efficient Synthesis of Homoallyl Alcohols Using Allyl Bromide and Commercial Zinc Dust. B. C. Ranu,* **A. Majee** and A. R. Das, *Tetrahedron Letters*, ISSN*:* 0040-4039. (1995),36, 4885-4888. https://doi.org/10.1016/0040-4039(95)00877-F **(**Impact Factor **: 2.3) (Cited 42 times)**

1. Surface – Mediated Solid Phase Reaction Part 7. A Simple and Convenient Procedure for Methoxymethylation of Alcohols with Methoxymethyl Chloride on the Surface of Alumina. B. C. Ranu,* **A. Majee** and A. R. Das, *Synthetic Communications*, ISSN: 0039-7911 (print) 1532-2432 (web), (1995), 25, 363-367. https://doi.org/10.1080/00397919508011367 **(**Impact Factor **:1.37) (Cited 20 times)**

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 Society :

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)

(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) Acted as Co-ordinator of Remedial & NET Coaching committee of Siksha Bhavana.
b) Acted as member of Canteen Committee of Siksha Bhavana.
c) Member of the Visva-Bharati Admission coordination cell.
d) Member of three member committee of Visva-Bharati.
e) Member of the Research Board of Visva-Bharati.
f) Member of the DPC of Visva-Bharati.
g) Member of IQAC Visva-Bharat.
h) External Member, Institute Board, Vidya Bhavana, Visva-Bharati

Adinath Majee

Date :18-09-2022 (Signature)
Place : Santiniketan (DR. ADINATH MAJEE)