Short CV (at a glance)

1. Name: **Prof. Dilip Kumar Maiti, Ph.D.**
2. Address, **Office:** Dept. of Chemistry, University of Calcutta, 92 A.P.C. Road, Kolkata-700009 (address for communication)
3. Address, **Residence:** 13A, Shib Krishna Daw Lane, Kankurgachi, Kolkata-700054.
4. Affiliation: **Vice-Chancellor**, Biswa Bangla Biswabidyalay, Bolpur, Birbhum-731204 & **Professor**, Dept. of Chemistry, University of Calcutta, 92 A.P.C. Road, Kolkata-700009
5. Contact No. **7980617676/9382883537/9433379965** (Mobile).
6. E-mail: **dkmchem@caluniv.ac.in, maitidk@yahoo.com & vc@bbb.ac.in**
7. Professorship: ~ **12 Yrs** (DOJ: 01/11/2012), Dept. of Chemistry, University of Calcutta
8. Present Position: **Vice-Chancellor**. Duration of Vice-Chancellor: ~1 Yr at Biswa Bangla Biswabidyalay, Bolpur, Birbhum-731204 (DOJ: 3rd October 2023).
9. Number of Research Publications in referred academic journals: **>200**
10. (a) Number of book chapters written: **19 published + 16 under process**
    (b) Number of book edited: **3**
11. (a) Number of doctoral thesis (Ph.D.) supervised: **36**
    (b) Current registered Ph,D. research scholars: **8**
    (c) Postdoctoral Supervision: **33**
12. Research Projects undertaken as PI/Co-PI: **11 [PI-10/ Co-PI-01]**
13. Administrative Experience in HEIs or equivalent (with details): About one year as the **Vice-Chancellor** of Biswa Bangla Biswabidyalay, Bolpur, Birbhum-731204, WB (DOJ: 03/10/2023)
14. Awards received: **12**
15. Postdoctoral Research Experience: **2 Yrs (Wayne State University, USA)**
16. Teaching experience: **22 Yrs**
17. Research Experience: **31 Yrs**
18. Industrial Experience: **2Yrs**
19. Adjunct Professor Positions**: 3**
20. Editorship: **Editor-in-Chief, Editor, Associate Editor and Editorial Board Member of International Journals**
21. Member of National and International Bodies: **22**
22. Professional Development: **Occupied more than 10 important positions**
23. Participation in the Seminar/Workshop/Conference (International/National/State Level): **More than 100 participation as a Keynote Speaker, Invited Speaker and Chairperson**
24. Organized International Conferences: **5**
25. International and National Collaboration: **6 (IC: 2** & **NC: 4**)

CV

1. **Name: Prof. Dilip Kumar Maiti, Ph.D., *FRSC***

Affiliation: Professor, Dept. of Chemistry, University of Calcutta, Kolkata, India &
Vice-Chancellor, Biswa Bangla Biswabidyalay, Shantiniketan, Bolpur, India

Contact: Dept. of Chemistry, University of Calcutta, 92 A.P.C. Road, Kolkata-700009;
Ph: +91-33-23509937 (Extn. 429; office)/ +91-7980617676/9433379965 (Cell)
Fax: +91-33-23519755; e-mail: maitidk@yahoo.com, dkmchem@caluniv.ac.in & vc@bbb.ac.in
ORCID: 0000-0001-8743-2620; URL: www.dkmaitiresearchgroup.org/
Scopus ID: 7004654798
Residence: 13A, Shib Krishna Daw Lane, Kankurgachi, Kolkata-700054

2. Academic and Professional Positions

Calcutta University (~18 Yrs)

- Vice-Chancellor, Biswa Bangla Biswabidyalay (3rd October, 2023-Till date; Total ~ 1 Yr)
- Professor, University of Calcutta (1st November, 2012-present; Total: ~12 Yrs)
- Associate Professor, University of Calcutta (22nd September, 2008-October, 2012; Total: 4 Yrs)
- Reader, University of Calcutta (22nd September, 2005-2008; Total: 3 Yrs)
- Lecturer & Senior Lecturer, Dumkal College Basantapur (2000-2005:Total: 5 Yrs)

***Industry*:** 2 Yrs

- Scientist (R & D), RPG Life Sciences Limited, Mumbai (1999: ~1Yr)
- Scientist (R & D), Ciba India Private Limited, Navi Mumbai (1998-1999; ~ 1 Yr)

Postdoctoral Positions:

- Abroad 2 Yrs, School of Medicine, Wane State University, Detroit, *USA* (2002-2004)
- National 2 Yrs, Dept. of Chemistry, Jadavpur University (2000-2002 & 2004-2005)

3. Academic Qualifications

- Ph.D., Stereoselective Synthesis, IICB/JU, Kolkata (1998)
- M. Sc., Organic Chemistry Major, University of Calcutta (1993)
- B. Sc., Chemistry (Major), R. K. M. Vidyamandira, University of Calcutta (1991)
- H.S. (10+2), Science (major), Banamalichatta School (WBCHSE, 1988)
- Madhyamik (10), Arts and Science (General), Kamdevpur Snehabala Milan Vidyapith (WBBSE, 1986)
- NET, UGC-CSIR (1993)
- NET, ICAR (1993)
- GATE: GATE-IIT (95.47 percentile in 1993)

4. Awards, Honors, Recognitions & Responsibilities

- Fellow of Royal Society of Chemistry (London, 2015)
- Fellow of Indian Chemical Society (Kolkata, 2016)

- Basudev Banerjee Memorial Award by *Indian Chemical Society* (2011)
- American Chemical Society (ACS) Membership Award-2015 (USA, 2015)
- Professor Sabyasachi Sarkar Endowment Award (2015)
- MID Career Award by UGC, Govt. of India (2017)
- Prof. M. K. Rout Memorial Award, Orissa Chemical Society (2019)
- Franklin Membership by London Journals Press (2020)
- Gold Medal Award by Chirantan Rasayan Sanstha (CRS, 2021)
- Editor-in-Chief, International Journal of Chemical Synthesis and Chemical Reactions (2023)
- Executive Secretary, Luminescent Organic Consortium of India (2023)
- Samaj Bandhu Award-2024 (by Education, Prantik Care the Earth, 2024)
- International Higher Education Excellence Award 2024 (by RTI Institute of India, New Delhi, 2024)

5. Supervised Research Scholars (Total): 81

1. Ph. D. Awarded: 32; Under process 4
2. Current registered Ph.D. Scholars: 11 (Ph.D. Supervisor: 8; Joint Ph.D. Supervisor: 3)
3. Postdoctoral Fellow Guided: 34

6. Editor-in-Chief of International Journal

NanoMatChemBioDev (2019)

International Journal of Chemical Synthesis and Chemical Reactions (2023)

7. Editor: Current Catalysis (2019)

8. Associate Editor

Scientific Reports of Nature Publishing Group *(NPG, 2015)*

Medicinal and Pharmaceutical Chemistry (2014)

Bioorganic and Organic Chemistry (2016)

Material Science Research India (2018)

Editorial Board Members of the International Journal

World Journal of Organic Chemistry(2013)

American Journal of Nanomaterials (2013)

Journal of Nanoscience with Advanced Technology (2016)

Research Journal of Chemistry and Environment(2016)

International Journal of Applied Nanotechnology (2017)

International Journal of Nanomaterials and Nanostructures (2017)

International Journal of Nanobiotechnology (2017)

Asian Journal of Chemical Sciences (2017)

Current Green Chemistry (2017)

Peer J Organic Chemistry (2023)

Peer J Materials Science (2023)

9. Journal Reviewer

- ✓ Nature Publishing Group, London (Scientific Reports, Nature Communication etc.)
- ✓ Journals of American Chemical Society, USA (JACS, JOC, OL, ACS Materials and Interfaces etc.)
- ✓ Royal Society of Chemistry, London (Chem. Commun., Green Chem., RSC Adv, NJ, Dalton Trans, etc.)
- ✓ Wiley Journals, Germany (EJOC, CEJ etc.)
- ✓ Elsevier Journals, UK (Tetrahedron, Tetrahedron Letters, Dyes and Pigments, Journal of Molecular, Structures, J. of Physics and Chemistry of Solids etc.)

10. Members of National and International Bodies

- ✓ Member of Governing Council, Saha Institute of Nuclear Physics (Department of Atomic Energy, Govt. of India), (2016-2022)
- ✓ Member of Research Council, Indian Institute of Chemical Biology (CSIR), Kolkata (2017)
- ✓ Member of Postgraduate Committee of Courses and Studies (PG-CCS) in Chemistry, Gauhati University, Gauhati (2015)
- ✓ Member of Research Council, Department of Chemistry, Kalyani University, Kalyani (2019-Till Now)
- ✓ Member Ph.D. Council of Chemical Sciences, Maulana Abdul Kalam Azad University of Technology (MAKAUT), Kolkata (2019)
- ✓ Member Ph.D. Council of Chemical Sciences, Department of Chemistry, Diamond Harbour Women University, Diamond Horbour (2022-Till Now).
- ✓ Member of Graduate and Postgraduate Committee of Chemistry, St. Xavier's University, Kolkata (2014)

- ✓ Member, American Chemical Society (USA, 2009)
- ✓ Life Member, Indian Science Congress (2010)
- ✓ Fellow of Indian Chemical Society (2015)
- ✓ Member, Science Advisory Board, Washington DC, (USA, 2016)
- ✓ Member, National Open Source Drug Discovery committee, (OSDD, CSIR, 2007)
- ✓ Member, Professor Asima Chatterjee Foundation Kolkata (2016)
- ✓ Member, Sigma-Aldrich Global Advisory Board (2017)
- ✓ Member, Luminescent Organic Consortium of India (LOCI) (2023)
- ✓ Member, Indian Photobiology Society (2024)

- ✓ Member of the Advisory Board of XXXVII Training Programme on Science Communication and Media Practice by Indian Science News Association (2024), Kolkata

Member, Sigma-Aldrich Global Advisory Board (2017)

- ✓ Member, Luminescent Organic Consortium of India (LOCI) (2023)
- ✓ Member, Indian Photobiology Society (2024)
- ✓ Member of the Advisory Board of XXXVII Training Programme on Science Communication and Media Practice by Indian Science News Association (2024), Kolkata

11. Professional Development

Coordinator, Purchasing committee and in-charge of GC-MS (2009-present)

Joint Secretary, National Conference on Recent Topics in Organic Chemistry, CAS-Dept. Of Chemistry, CU (2008)

Coordinator, Refresher course in Chemistry, Dept. of Chemistry, CU-Academic Staff College, UGC (2008)

Coordinator, NMR machine, Department of Chemistry, CU (2007-2014)

Member, SAP/CAS program, Department of Chemistry, CU, (2006-2014)

Member, Purchasing committees of instruments for spectroscopy UV-vis-NIR, DLS etc.) and microscopes (Bio-SEM, FE-SEM and HR-TEM) for CRNN (2016-2022)

Member, Library Committee, Department of Chemistry, CU (2017-2023)

Coordinator, Gas Chromatography-Mass Spectrometry (GC-MS), Fourier Transform-Infrared Spectroscopy (FT-IR), Scanning Electron Microscope (SEM) and TEM, NMR Spectrometer for hand on experience of faculty members, research scholar and post-graduate students of University of Calcutta

Coordinator, CAS-SAP and DST- FIST projects for the Department of Chemistry, CU (2014)
Member, "Flat Allotment Committee" of University of Calcutta (2017)

Coordinator, Winter School for Chemical Sc. and Eng., CU-Academic Staff College, UGC (2017)

Advisor, Interview Board of Staff Selection Commission (Govt. of India, 2007)

Advisor, Interview Board of Public Service Commission, West Bengal (2015-present)

12. Extramural Research Funding (PI): 11

11 Design, Synthesis and Fabrication of Donor-Acceptor Based Fluorescent Sensing Organic-Nanomaterials and Devices for Detection and Quantification of Rare Earth Elements in Minerals. Ministry of Mines. Fund: Rs.54.935 Lakh; Status: Ongoing; Duration: 1st October, 2021 to 30th September, 2023.

10 (Co-PI) Investigations of Organic Nano-Materials for Non-Volatile Memory Applications. SERB-Nanomission Technology. Rs. 112 lakh, Status: Completed; Duration: 1st April, 2019 to 31st March 2022.

9 Development of Unorthodox Photocatalysis Reactions through Insitu Generation of Carbenes and Nitrenes under Low Energy Light: Diverse Cyclization for Functional Molecules and Mechanistic Study. Funder: SERB-DST Project under SERC (Organic Chemistry), Govt. of India; Proposed Fund: Rs.25.8 Lakh; Status: Completed; Duration: 1st September, 2019 to 31st August, 2021.

8 MID Career Award Project, UGC, Govt. of India, 2017-2018, Rs. 10 Lakh; Status: Completed; Duration: 1st April, 2018 to 31st March 2021.

7 C-S/C-N/C-O Activated Heterodifunctionalization of double bonds to Functional Molecules: Development of Asymmetric Catalysis. Funder: CSIR, Govt. of India. Budget: Rs. 20 Lakh; Status: Completed; Duration: 1st January, 2016 to 31st December, 2019.

6 Development of Benign and Robust Brominating Processes Involving Direct Transfer of Bromide: Synthesis of Valuable Bromosynthons, Their Chiral Analogues and Sequential Coupling Compounds. Funder: DST Project under DST Green Task Force, Govt. of India; Project No.: SR/S5/GC-04/2012; Fund: Rs.54.90 Lakh; Status: Completed; Duration: July 2013 to June, 2016

5 Development of Benign and Robust Brominating Processes Involving Direct Transfer of Bromide: Synthesis of Valuable Bromosynthons, Their Chiral Analogues and Sequential Coupling Compounds. Funder: DST Project under SERC (Organic Chemistry), Govt. of India; Project No.SR/S1/OC-05/2012; Fund: Rs.60.40 Lakh; Status: Completed; Duration: July 2013 to June, 2016

4 Functionalized and Sugar-Based Chiral Heterocyclic Scaffolds to be Submitted to OSDD Program for Development of Their Antimalarial and Antituberculosis Activities. Funder: OSDD CSIR Scheme, Govt. of India; Project No.: OC-UCKLT0001&0002; Fund: Rs.9,00,000.00; Status: Completed; Duration: 18th June 2012 to 17th June, 2015.

3 Design, Synthesis and Fabrication of Low Molecular Mass Organic Nanostructured Materials and Studies of Their Optical and Optoelectronic Properties. Funder: DST Project under SERC Nanoscience scheme, Govt. of India; Project No.: SR/NM/NS-29/2010; Fund Awarded: Rs.53.263 Lakh; Status: Completed; Duration: 1st October 2010 to 30th September, 2013.

2 Synthesis of New Chiral Surfactants and Studies of Their Novel Applications. Funder: Center for Research in Nanoscience and Nanotechnology (CRNN, CU), UGC, Govt. of India; Project No. Con./002/ NanoRAC(2008); Fund Awarded: 10.00 Lakh; Status: Completed; Duration: 2nd February 2009 to 31st January, 2010.

1 Development of Lewis Acid Catalysed Nitrile Oxide Cycloaddition Reactions towards Syntheses of Sugar-Based Chiral Heterocycles.
Funder: DST Project under SERC Organic Chemistry scheme, Govt. Of India; Project No.: SR/S1/OC-22/2006; Fund Awarded: Rs.17.796 Lakh; Status: Completed; Duration: 06/12/2006 to 05/12/2009

13. Research Interest

Ongoing Academic Research: Catalysis & Organic Synthesis

‡ C-H Activation
‡ Photocatalysis
‡ NHC Catalysis
‡ Organometallic Catalysis
‡ Organocatalysis
‡ Dual Catalysis
‡ Ionic Liquid Catalysis
‡ Diverse Cyclization Catalysis
‡ Sustainable Catalysis
‡ Nanocatalysis
‡ Catalysis by Metal Cluster
‡ Hypervalent Iodine Chemistry
‡ Carbohydrate Chemistry
‡ Electrochemical Reaction
‡ Computational Studies using Density Functional Theory (DFT)
‡ Studies of Reaction mechanism by DFT Calculation, XPS, EPR, ATR-Mid-IR, UV-Vis-NIR, and Fluorescence spectroscopy

Ongoing Applied Research: Smart Organic Nanomaterials, Nanoelectronics and Devices

‡ Design, Synthesis, Fabrication of Organic Nanomaterials and Developing Innovative Application like sensing hazardous components
‡ Synthesis of Polymers, Fabrication of Their Nanomaterials and Establishing Innovative Properties
‡ Fabrication of Crossbar Devices and Discovery of Novel Organic Nanoelectronics
‡ Organic and Polymer Materials for Security and Inkless Data Printing
‡ Organic Solar Cell Devices
‡ RRAM, WORM and other Memory Devices
‡ Smart Polymer Materials for Bioimaging, Biomedical and Engineering
‡ Nanomaterials for the Diagnosis and Treatment of Ovarian, Lung and other Cancers
‡ Poisonous Gas, Lethal Drinking Water Pollutantand Explosive Material Sensing Devices
‡ Peptide-Based Smart Materials Operated by Halogen Bonding for MultidimensionalApplication

14. (a) Selected Publications (Total Publication in SCI Journal~ 200; Average impact factor >4)

Sr No	Author List	Yr	Title of the Paper	Journal Name	IF	Vol., Page
207	P. K. Mandal, S. Atta, S.	2024	Access to novel carbosphere-nanofabricated small Pt-Si NPs	*Catalysis Today*	5.8	*Under Review*

	Debnath, S. Samai, R. Laha, A. S. Manna, S. Mitra, and D. K. Maiti		and their unprecedented C=C cleavage nanocatalysis with imination			
206	A. S. Manna, R. Nandi, T. Ghosh, P. K. Mandal, D. Barman, S. Pal and D. K. Maiti	2024	Cu(I)-Catalyzed Prolific Synthesis of *N*-Substituted Isoindolin-1-ones from Synthesized Phthalaldehydes and Benzimidates	*Catalysis Today*	5.8	*Under Review*
205	S. Pal, R. Nandi, A. S. Manna, D. Bag, R. Rahaman and D. K. Maiti	2024	Cu(I)-Catalyzed C(sp3)-H Functionalization of Amino Acids with Benzimidates and ROS to Furnish Triazines and 2-Pyrrolidinones	*Organic Letters*	6.0	*Under Review*
204	S. Aich, M. Saha, D. Ghosh, S. A. Molla, A. K. Sarkar, D. Bag, R. Rahaman, S. Khamarui and D. K. Maiti	2024	Ru(III)-PhI(OAc)$_2$ – An Efficient Combination for Generation of Isocyanate Intermediate from Benzimidate through a Rearrangement: Synthesis of Unsymmetrical Urea, Carbamate and N-(Aminomethyl)benzamides Involving Diverse C-N Coupling	*Organic Letters*	6.0	*Under Review*
203	S. Roy, N. Hassan, D. Chowdhury, M. H. Sanfui, P. Nandy, D. K. Maiti, M. Chang, M. Rahaman, M. A. Hasnat, P. K. Chattopadhyay, N. R. Singha	2024	Exploring Sequential Strategy toward Fabrications of Dual-State Dual-FRET Polymer-/ Anionic Polymer-/ Polymer-Inorganic-Nanohybrid Sensors Successively Enhancing Electrocatalytic Reduction in Aqueous/ Organic Medium" has been received by journal Advanced Materials	*Advanced Materials*	29.4	*Under Review*
202	Sanfui, M. H.; Hassan, N.; Roy, S.; Chowdhury, D.; Nandy, P.; Chang, M.I;	2024	Uncovering Integrated Dual-State ESIPT-Conductivity, Redox-Capacity, and Opto-Electronic Responses Toward Hg(II)/ Cr(III) of Aliphatic Fluorescent Polymers	*Macromolecular Rapid Communications*	6.4	*45, 00-00* *In Press*

	Rahaman, M.; Ghosh, N.; Majumdar, S.; Chattopadhyay, P.; Maiti, D. K.; Singha, N. R					
201	M. Deb, S. Roy, N. Hassan, D. Chowdhury, M. H. Sanfui, P. Nandy, D. K. Maiti, M. Chang, M. Rahaman, M. A. Hasnat, P. K. Chattopadhyay, N. R. Singha	2024	Synthesis and optimization of chitosan-incorporated semisynthetic polymer/α-Fe2O3 nanoparticle hybrid polymer to explore optimal efficacy of fluorescence resonance energy transfer/ charge transfer for Co(II) and Ni(II) sensing	*International Journal of Biological Macromolecules*	7.7	*280, 00-00 In Press*
200	D. Bag, R. Rahaman, A. S. Manna, S. Pal, R. Nandi, S. Aich and D. K. Maiti	2024	Sulfenylation of bioactive maleimides, acrylates and cyclohexenones under ambient-organophotocatalysis	*Organic Chemistry Frontiers*	5.8	*11, 00-00 In Press*
199	Chowdhury, D.; Hassan, N.; Roy, S.; Sanfui, M. H,.; Nandy, P.; Chang, M.; Rahaman, M.; Ghosh, N.; Hasnat, M.; Chattopadhyay, P.; Maiti, D. K.; Singha, N. R.	2024	Exploring Through-Space Charge Transfer-Mediated Opto-Electrochemical Properties of Dual-State Luminescent Aliphatic Polymers and Opto-Electronic Responses Toward Metal Ions	*Langmuir*	3.7	*40, 00-00 In Press*

198	R. Baidya, S. A. Molla, S. Khamarui, P. Pratihar, P. Das and D. K. Maiti	2024	Ru^{II}-Catalysed C-H Activated C-C/C-X Coupled Diverse Cyclization with Transformation of Substrate-DG: Construction of Valuable Indoles, Benzofurans and Indenones	*Journal of Organic Chemistry*	4.0	*89, 00-00* doi.org/10.1021/acs.joc.4c01588
197	K. Chattopadhyay, A. Basak, G. Lee, M. Mandal, C. Nah, D. K. Maiti	2024	Highly Efficient Aqueous Symmetric Supercapacitor Device of UiO-66-NH2-Polyaniline Composite Powering Yellow LEDs	*ACS Applied Energy Materials*	6.4	*7, 00-00* DOI: 10.1021/acsaem.4c01646
196	A. Mondal, A. K. Kundu, P. Mandal, D. K. Maiti, S. Poddar, H. S. Biswas	2024	Optimizing Electrical and Dielectric Properties of Graphene Oxide Thin Films with Temperature Tuning: Insights from Impedance Spectra Analysis on Insulator to Semiconductor Transition	*Inorganic Chemistry Communications*	4.4	170, 113016
195	R. M. Laha, S. Aich, S. Khamarui and D. K. Maiti	2024	New routes of azomethine ylide generation from L-prolines: Synthesis of diverse N-heterocycles	*Organic and Biomolecular Chemistry*	3.2	22, 7411-7424
194	A. Mondal, A.K. Kundu, H. S. Biswas1, D. K. Maiti	2024	Tuning of Graphene Oxide Thin Films Synthesis and characterization with Electronic Behaviour	*Journal of Nano and Electronic Physics*		*16, 03011*
193	Anindya S. Manna, Antara Roy, Rajjakfur Rahaman and Dilip K. Maiti	2024	Recent Applications and Influences of Artificial Intelligence (AI) in Chemical and Allied Sciences	*International Journal of Cheminformatics*		1, 22-28
192	Antara Roy, A. S. Manna, S. Gayen, D. Bandyopadhyay, D. K. Maiti	2024	Sustainable Novel Edible Food Coating of Acetylated Gallic Acid Modified Chitosan Nanoparticles with Pulsed Light Treatment: A Promising Food Preservative	*ACS Food Science and Technology*		4, 1527-1543
191	A. S. Manna, M. Saha, S. Mondal, Sk M. Nawaz, A. MalliK,	2024	Amino Acid-Modified Graphene Oxide Nanofiber Embedded in PMMA for Long-	*ACS Applied Electronic Materials*	4.7	6, 3337–3345

	and D. K. Maiti		Term Archival Memory Applications			
190	M, Deb, S. Roy; M. Mitra; J. S. Deb Roy; D. Chowdhury; M. Rahaman; N. N. Ghosh; D. K. Maiti; P. K. Chattopadhya; N. R. Singha	2024	Excited-State Intramolecular Proton- and Inter-Polymer Charge-Transfer of Semiconducting Redox Polymers for Fe(III), Cd(II), and Hg(II) Sensing	*ACS Applied Polymer Materials*	5.0	6, 4936-4953
189	T. K. Pati, S. A. Molla, N. N. Ghosh, P. Maiti, M. Kundu, U. Khamrai and D. K. Maiti	2024	2-Pyridone Directed CuII-Catalyzed General Method of C(sp2)-Activation for C-S, C-Se and C-N Cross Coupling: Ease Access to Aryl Thioethers, Selenide Ethers and Sulfonamides and DFT Study	*Journal of Organic Chemistry*	4.2	*89,* 6798-6812
188	Ghosh, T; Barman, D; Show, K; Lo, R; Manna, D; Ghosh, T; Maiti, D. K.	2024	N-Heterocyclic Carbene-Catalyzed Facile Synthesis of Phthalidyl Sulfonohydrazones: Density Functional Theory Mechanistic Insights and Docking Interaction	*ACS Omega*	4.1	9,11510-111522 10.1021/acsomega.3c08529
187	A. S. Manna, R. Nandi, T. Ghosh, S. Pal, R. Rahaman, D. K. Maiti	2024	Organic Base-Promoted C–N- and C–O-Coupled Domino Cyclization Strategy: Syntheses of Oxazine-6-ones and 4-Pyrimidinols	*Journal of Organic Chemistry*	4.2	*89,* 5650-5664
186	S. Pal, R. Nandi, A. S. Manna, S. Aich, D. K. Maiti	2024	Cu^{I}-Catalyzed Radical Reaction of Benzimidates to Form Valuable 4,5-Dihydrooxazoles through Regioselective Aerobic Oxidative Cross-Coupling	*Journal of Organic Chemistry*	4.2	*89,* 2703–2717
185	R. Nandi, Sk Ajarul, P. K. Mandal, A. S. Manna, A. Kayet	2024	Hybrid Heterocycles: Ag(I)-Catalyzed C–C/C–N/C–O Coupled Cascade Dual Cyclization to Valuable Indolo-4H-indolones and Indolo-4H-chromenes	*Journal of Organic Chemistry*	4.2	*89,* 2556-2570

	and D. K. Maiti					
184	K. Chattopadhyay, M. Mandal, D. K. Maiti	2024	A review on zirconium-based metal–organic frameworks: synthetic approaches and biomedical applications	*Material Advances*	5.4	*5, 51-67*
183	P. Mandal, A. Mondal, H. S. Biswas, D. K. Mait, A. Habi, F. Mahamu, S. Poddar, S. A. Izaddi, S. M. Ghazal	2024	High -efficiency recyclable reduced graphene oxide -tin oxide nanocomposite catalyst for esterification	*Inorganic Chemistry Communications*	4.4	159, 111638
182	A. Mondal, D. K. Maiti, H. S. Biswas	2023	Study of Surface Morphology with Electrical and Optical Properties of GO and rGO	*Journal of Nano and Electronic Physics*		15, 03019
181	A. Das, Sk Ajarul, S. Debnath, P. Hota and D. K. Maiti	2023	Bronsted Acid-Catalyzed [5+1] and [4+1] Annulation of Cyclic Anhydrides with o-Alkynylanilines to Construct Fused-N-Heterocycles	*Journal of Organic Chemistry*	4.2	88, 15073–15084
180	A. Das, S. Debnath, P. Hota, T. Das, and D. K. Maiti	2023	K_2CO_3 Catalyzed Dual C-C Coupled Cyclization to 3-Amino-4-benzoylbiphenyls and Insitu I2 Catalyzed C-N Bond Forming Annulation: A Metal-Free Synthesis of Arylacridones	*Journal of Organic Chemistry*	4.2	88, 12986-12996
179	M. Deb, S. Roy, N. Hassan, J. S. Deb Roy, N. N. Ghosh, P. K. Chattopadhyay, D. K. Maiti, and N. R. Singha	2023	Chromo-Fluorogenic Sensing of Fe(III), Cu(II), and Hg(II) using a Redox-Mediated Macromolecular Ratiometric Sensor	*ACS Applied Polymer Materials*	4.8	5, 4820-4837
178	R. Baidya, P. Das, P. Pratihar, and D. K. Maiti	2023	Ring expansion and fused cyclization catalysis to construct indoloquinazolinones with functionalization	*Chemical Communications*	6.0	59, 7978-7981
177	D. Ghosh, S. A. Molla, N. N. Ghosh, S.	2023	Cu^{II}-Catalyzed cis-Selective Synthesis of Ketoepoxides from Phenacyl Bromides and Water	*Journal of Organic Chemistry*	4.2	88, 9657–9667

	Khamarui, D. K. Maiti					
176	S. Mitra, S. Ray, N. Ghosh, P. Hota, A. Mukherjee, A. Bagui and D. K. Maiti	2023	Designed and synthesized de novo ANTPABA-PDI nanomaterial as an acceptor in inverted solar cell at ambient atmosphere	*Nanotechnology*	4.0	*34, 315704*
175	S. A. Molla, D. Ghosh, A. Basak, S. Khamarui, and D. K. Maiti	2023	Cu^{I}-catalyzed cross-coupling of insitu generated azomethine ylides towards easy construction of tetrahydropyrrolo[2,1-b]thiazoles and dihydro-5H-pyrrolo[1,2-a]imidazoles	*Chemical Communications*	6.0	*59,* 4664-4667
174	S. Aich, R. Nandi, N. Chatterjee, K. S. Gayen, S. Pal and D. K. Maiti	2023	Catalytic I_2-Moist DMSO Mediated Synthesis of Valuable α-Amidohydroxyketones and Unsymmetrical *gem*-Bisamides from Benzimidates	*Organic and Biomolecular Chemistry (Invited Paper)*	3.9	*21, 2524-2530*
173	P. Hota, A. De, D. K. Maiti	2023	A short review on generation of green fuel hydrogen through water splitting	*International Journal of Hydrogen Energy*	8.1	*48,* 523-541
172	R. Rahaman, T. Houqe, D. K. Maiti	2022	Organophotoredox-Catalyzed Sulfurization of Alkenes and Alkynes: Selective and Controlled Synthesis of Sulfoxides, β-Hydroxysulfoxides, and β-Keto Sulfides	*Organic Letters*	6.0	*24*, 6885-6890
171	P. Hota, A. Kapuria, S. Bose, D. K. Maiti, S. K. Saha	2022	The role of lone-pair electrons on electrocatalytic activity of copper antimony sulfide nanostructures	*Materials Chemistry and Physics*	4.56	*291,* 126676
170	K. Chattopadhyay, M. Mondal, D. K. Maiti	2021	Smart Metal–Organic Frameworks for Biotechnological Applications: A Mini-Review	*ACS Applied Bio Materials*	4.9	*4,* 8159-8171
169	H. Mondal, M. Karmakar,	2021	One-pot synthesis of sodium alginate-grafted-terpolymer hydrogel for As(III) and V(V) removal: In situ anchored	*Journal of Environmental Management*	8.9	*294,* 112932

	D. K. Maiti, N. R. Singha		comonomer and DFT studies on structures			
168	R. Maiti, N. N. Ghosh, D. K. Maiti	2021	Comparative study of CO_2 activation on alkali metals encapsulated III–V hollow nanocages: An insight from first-principles calculations	*Physics Letters A*	3.2	*412,* 127554
167	A. Ghosh, T. Roychoudhury, R. Nandi, R. Bhattacharya, C. Ghosh, D. K. Maiti	2021	Inhibitory role of smart nano-trifattyglyceride of Moringa oleifera-root in ovarian cancer by attenuating FSHR - c-Myc axis	*Journal of Traditional and Complementary Medicine*	4.2	11, 481-492
165	D. Barman, T. Ghosh, K. Show, S. Debnath, T. Ghosh, D. K. Maiti	2021	NHC-Mediated Stetter-Aldol and Imino-Stetter-Aldol Domino Cyclization to Naphthalen-1(2H)-ones and Isoquinolines	*Organic Letters*	6.0	*23*, 2178–2182
164	A.Dutta, M. Mahapatra, M. Mitra, A. Banerjee, N. N. Ghosh, P. K. Chattopadhyay, D. K. Maiti, N. R. Singh	2021	Nonconventional biocompatible macromolecular AEEgens for sensitive detections and removals of Cu(II) and Fe(III): N and/ or O donor(s) selective coordinations of metal ions	*Sensors and Actuators B: Chemical*	9.0	*331,* 129386
163	T. Ghosh, S. Mondal, R. Maiti, Sk. M. Nawaz, N. Ghosh, E. Dinda, A. Biswas, S. K. Maity, A. Mallik and D. K. Maiti	2021	Complementary amide-based donor-acceptor with unique nano-scale aggregation, fluorescence, and bandgap lowering properties: a WORM memory device	*Nanotechnology*	3.9	*32,* 025208 (1-9)
162	S. Debnath, T. Das, T. K. Pati, S. Majumdar, and D. K. Maiti	2020	Metal-Free Indole–Phenacyl Bromide Cyclization: A Regioselective Synthesis of 3,5-Diarylcarbazoles	*Journal of Organic Chemistry*	4.2	*85,* 13272-13279
161	C. Das, S. Sen, T. Singh, T. Ghosh, S.S.	2020	Green synthesis, characterization and application of natural product coated magnetite nanoparticles for wastewater treatment	*Nanomaterials*	5.4	*10,* 1615 (1-19)

	Paul, T.W. Kim, S. Jeon, D. K Maiti, J. Im, G. Biswas					
160	T. K. Pati, S. Ajarul, M. Kundu, D. Tayde, U. Khamrai, and D. K. Maiti	2020	Synthesis of Functionalized Arylacetamido-2-pyridones through ortho-C(sp^2)−H-Activated Installation of Olefins and Alkynes	*Journal of Organic Chemistry*	4.2	*85,* 8563–8579
159	M. Mahapatra, A. Dutta, J. S. Deb Roy, M. Deb, U. Das, S. Banerjee, S. Dey, P. K. Chattopadhyay, D. K. Maiti, and N. R. Singha	2020	Synthesis of Biocompatible Aliphatic Terpolymers via In Situ Fluorescent Monomers for Three-in-One Applications: Polymerization of Hydrophobic Monomers in Water	*Langmuir*	3.9	*36,* 6178–6187
158	R. Nandi, P. K. Mandal, A. Kayet, T. Bhattachariya, S. Ghosh and D. K. Maiti	2020	Benzimidates as gem-Diamidation and Amidoindolyzation Cascade Synthons with a Hydrated Ni^{II} Catalyst	*Organic Letters*	6.0	*22,* 3474−3478
157	T. Ghosh, S. Mitra, S. K. Maity and D. K. Maiti	2020	Halogen-Bonded Bithiophene-Based Nanofibers for Luminescent Sensing	*ACS Applied Nano Materials*	5.1	*3,* 3951–3959
156	Sk. Ajarul, A. Kayet, T. K. Pati and D. K. Maiti	2020	A competitive and highly selective 7-, 6 and 5-annulation with 1,3-migration through C–H and N–H – alkyne coupling	*Chemical Comm-unications*	6.1	*56*, 474-477
155	M. Mahapatra, A. Dutta, J. S. Deb Roy, U. Das, S. Banerjee, S. Dey, P. K. Chattopadhya, N. R.	2020	Multi C–C/ C–N Coupled Light-Emitting Aliphatic Terpolymers: N–H Functionalized Fluorophore-Monomers and High-Performance Applications	*Chemistry – A European Journal*	5.2	*26*, 502-516

	Singha, and D. K. Maiti					
154	B. Rajbanshia, A. Dutta, B. Mahato, D. Roy, S. Bhattacharyya, M. N. Roy, D. K. Maiti	2020	Study to explore host guest inclusion complexes of vitamin B1 with CD molecules for enhancing stability and innovative application in biological system	*Journal of Molecular Liquids*	6.2	*298*, 111952
153	A. Dutta, M. Mahapatra, M. Deb, M. Mitra, S. Dutta, P. K. Chattopadhya, S. Banerjee, P. C. Sil, N. R. Singha, D. K. Maiti	2020	Fluorescent Terpolymers Using Two Non-Emissive Monomers for Cr(III)-Sensor, Removals, and Bio-Imaging	ACS Biomaterial Science & Engineering	5.1	*6*, 1397-1407
152	S. Kundu, A. Kayet, R. Baidya, L. Satyanarayana, D. K. Maiti	2020	Nanofibrils of a Cu^{II}-Thiophenyltriazine-Based Porous Polymer: A Diverse Heterogeneous Nanocatalyst	*ACS Omega*	4.1	*5*, 394-405
151	K. Maiti, D. Ghosh, R. Maiti, V. Vyas, P. Datta, D. Mandal, D. K Maiti	2019	Ratiometric chemodosimeter: an organic-nanofiber platform for sensing lethal phosgene gas	*Journal of Materials Chemistry A*	12.9	*7*, 1756-1767
150	S. Naskar, S. Roy Chowdhury, S.Mondal, D. K. Maiti, S. Mishra, and I. Das	2019	Visible-Light-Activated Divergent Reactivity of Dienones: Dimerization in Neat Conditions and Regioselective E to Z Isomerization in the Solvent	*Organic Letters*	6.0	*21*, 1578-1582
149	D. Ghosh, R. Nandi, S.	2019	Selective amidation by a photocatalyzed umpolung reaction	*Chemical Comm-unications*	6.1	*55*, 3883-3887

	Khamarui, S. Ghosh and D. K. Maiti			(*Hot Paper*)		
148	D. De Joarder, S. Gayen, R. Sarkar, R. Bhattacharya, S. Roy, D. K. Maiti	2019	(Ar-tpy)$Ru^{II}(ACN)_3$ - A Water-Soluble Catalyst for Aldehyde-Amidation, Olefin Oxo-scissoring, and Alkyne-Oxygenation	*Journal of Organic Chemistry*	4.2	*84, 8468-8480*
147	R. N. Mitra, K. Show, S. Sarkar, and D. K. Maiti	2019	NHC-catalyzed dual Stetter and Stetter-Michael new cascades for naphthoquinones, sugar analogues and dihydroisoflavanones	*Journal of Organic Chemistry*	4.2	*84*, 42-52
146	M. Karmakar, H. Mondal, T. Ghosh, P. K. Chattopadhyay, D. K. Maiti and N. R. Singha	2019	Chitosan-grafted tetrapolymer using two monomers: pH-responsive high-performance removals of Cu(II), Cd(II), Pb(II), dichromate, and biphosphate and analyses of adsorbed microstructures	*Environmental Research*	8.4	*179*, 108839
145	B. Naskar, A. Dhara, M. Kukułka, M.P. Mitoraj, M. Srebro-Hooper, C. Prodhan, K. Chaudhuri, S. Goswami, D. K.Maiti	2019	Aggregation-Induced Emission-Based Sensing Platform for Selective Detection of Zn2+: Experimental and Theoretical Investigations	*ChemPhysChem*	3.1	*20*, 1630-1639.
144	S. Debnath, T. Das, S. Gayen, T. Ghosh, D. K. Maiti	2019	Iodine-Catalyzed Functionalization of Primary Aliphatic Amines to Oxazoles, 1,4-Oxazines, and Oxazinones	*ACS Omega*	4.1	*4*, 20410-20422
143	T. K. Panda, M. K. Panda and D. K. Maiti	2018	Inkless Writing and Self-Erasing Security Feature of (Z)-1,2-Diarylacrylonitrile-Based Materials: A Confidential Data Communication	*ACS Applied Material Interfaces* (Highlighted in the Nature)	9.2	*10*, 29100-29106

142	A. Kayet, Sk Ajarul, S. Paul, and D. K. Maiti	2018	5-Annulation of Ketoimines: TFA-Catalyzed Construction of Isoindolinone-3-carboxylates and Development of Photophysical Properties	*Journal of Organic Chemistry*	4.2	*83*, 8401-8409
141	T. K. Pati,S. Debnath,M. Kundu,U.Khamrai,and D. K. Maiti	2018	3-Amino-1-methyl-1H-pyridin-2-one-Directed PdII Catalysis: C(sp^3)−H Activated Diverse Arylation Reaction	*Organic Letters*	6.0	*20*, 5964-5967
140	R. Bag, Y. Sikdar, S. Sahu, D. K. Maiti, A. Frontera, A. Bauzá, M. G. B. Drew and S. Goswami	2018	A versatile quinoxaline derivative serves as a colorimetric sensor for strongly acidic pH	*Dalton Transactions*	4.6	*47*, 17077-17085
139	B.Naskar, A. Bauza, A. Frontera, D. K. Maiti, S. Goswami	2018	A versatile chemosensor for detection of Al^{3+} and Picric acid (PA) in aqueous solution	*Dalton Transactions*	4.6	*47*, 15907-15916
138	N. R. Singha, M. Mahapatra, M. Karmakar, H. Mondal, A. Dutta, M. Deb, M. Mitra, C. Roy, P. K. Chattopadhyay and D. K. Maiti	2018	In Situ Allocation of a Monomer in Pectin-g-Terpolymer Hydrogels and Effect of Comonomer Compositions on Superadsorption of Metal Ions/Dyes	*ACS Omega*	4.1	*3*, 4163-4180
137	N. Singha, A. Dutta, M. Mahapatra, M.	2018	Guar Gum-Grafted Terpolymer Hydrogels for Ligand-Selective Individual and Synergistic Adsorption: Effect of Comonomer Composition	*ACS Omega*	4.1	*3*, 472-494

	Karmakar, H. Mondal, P. Chattopadhyay, D. K. Maiti					
136	A. Chakraborty, S. Debnath T. Ghosh, S. Majumdar, D. K. Maiti	2018	An efficient strategy for N-alkylation of benzimidazoles/ imidazoles in SDS-aqueous basic medium and N-alkylation induced ring opening of benzimidazoles	*Tetrahedron*	2.5/23	*74, 5932-5941*
135	R. R. Mondal, S. Khamarui, D. K. Maiti	2017	Photocatalytic Generation of Nitrenes for Rapid Diaziridination	*Organic Letters* (Editors' Choice)	6.0	*19*, 5964-5967
134	D. K. Maiti, S. Debnath,M. Nawaz, B. Dey, E. Dinda, D. Roy, S. Ray, A. Mallik, S. A. Hussain	2017	Composition-dependent nanoelectronics of amido-phenazines: non-volatile RRAM and WORM memory devices	*Scientific Reports*	5.5	*7*, 13308 (1-10)
133	T. Das, S. Debnath, R. Maiti, and D. K. Maiti	2017	Multifold C-C Coupling and Unorthodox Cyclization Catalysis for Selective Synthesis of Indolo-triarylmethanes, Indolo-carbazoles and Analogues: A Control Experiment Study	*Journal of Organic Chemistry*	4.2	*82*, 688-700
132	S. Ghosh, S. Debnath, U. K. Das, D. D. Joarder, D. K. Maiti	2017	Fabrication and Diverse Ring-Expansion Nanocatalysis of Functionalized Pt-Nanoparticles to a General Synthesis of Pyrrolines: A 3D-Mid-IR Study	*Ind. Eng. Chem. Res.*	4.0	*56*, 12056-12069
131	B. Naskar, R. Modaka, Y. Sikdar, D. K. Maiti, A. Bauzá, A. Frontera, A.	2017	Fluorescent sensing of Al3+ by benzophenone based Schiff base chemosensor and live cell imaging applications: impact of keto-enol tautomerism	*Sensors & Actuators: B. Chemical*	7.3	*239*, 1194-1204

	Katarkar, K. Chaudhuri , S. Goswami					
130	B. Naskar, R Modak, D. K. Maiti, M. G. B. Drew, A. Bauzá, A. Frontera, S. Goswami	2017	A Schiff base platform: structures, sensing of Zn (II) and PPi in aqueous medium and anticancer activity	*Dalton Transaction*	4.6	*46,* 9498-9510
129	S. Paul, K. Ghoshal, M. Bhattacharyya and D. K. Maiti	2017	A Rapid Colorimetric and Fluorimetric Selective Sensor for Detecting Biological SO2 in Food and Living Cells	*ACS Omega*	4.1	2, 8633−8639
128	B. Naskar, R. Modak, D. K. Maiti, A. Bauzá, A. Frontera, P. K. Maiti, S. Mandal and S. Goswami	2017	A highly selective "ON–OFF" probe for colorimetric and fluorometric sensing of Cu^{2+} in water	*RSC Advances*	4.0	7, 11312-11321
127	S. Samai, D. Ghosh, U. K. Das, S. Atta, S. K. Manna and D. K. Maiti	2016	Water – the best solvent for DMAP-mediated dual cyclization towards metal-free first synthesis of fully substituted phthalimides	*Green Chemistry*	10.4	*18*,2961-2967
126	R. M. Laha, S. Khamarui, S. K. Manna and D. K. Maiti	2016	In Situ Generated Ag^{II}-Catalyzed Selective Oxo-Esterification of Alkyne with Alcohol to α-Ketoester: Photophysical Study	*Organic Letters*	6.0	*18*, 144-147
125	S. Sarkar, R. M. Laha, R. N.	2016	Pd^{II}-NHC Catalyzed Oxidative Aldehyde-sp^2C-H Functionalisation and Cyclization Using Inert-Mild Oxygen Source	*ACS Omega*	4.1	1, 981−995

	Mitra and D. K. Maiti		DMSO to Selective Synthesis of Esters, Sugar-Based Analogues and β-Hydroxy Chromanones: An O^{18}-Labelling Study			
124	R. R. Mondal, S. Khamarui, and D. K. Maiti	2016	$CuBr\text{-}ZnI_2$ Combo-Catalysis for Mild Cu^{I}-Cu^{III} Switching sp^2C-H Activated Rapid Cyclization to Quinolines and Sugar-Based Chiral Analogues: Reaction, XPS/UV-Vis Study and Mechanism	*ACS Omega*	4.1	*1*, 251-263
123	S. Khamarui, Y. Saima, R. M. Laha, S. Ghosh and D. K. Maiti	2015	Functionalised Mn^{VI}-nanoparticles: an advanced high-valent magnetic catalyst	*Scientific Reports*	5.5	*5*, 8636(1-8)
122	S. Khamarui, R. Maiti and D. K. Maiti	2015	General base-tuned unorthodox synthesis of amides and ketoesters with water	*Chemical Communications*	6.1	*51*, 384-387
121	A. K. Mahapatra, S. Mondal, S. K. Manna, K. Maiti, R. Maji, M. R. Uddin, S. Mandal, D. Sarkar, T. K. Mondal and D. K. Maiti	2015	A New Selective Chromogenic and Turn-On Fluorogenic Probe for Copper (II) in Solution and Vero Cells: Recognition of Sulphide by [CuL]	*Dalton Transactions*	4.6	*44*, 6490-6501.
120	S. Khamarui, R. Maiti, R. R. Mondal and D. K. Maiti	2015	Reactant cum solvent water: Generation of transient λ3-hypervalent iodine, its reactivity, mechanism and broad application	*RSC Advances*	4.0	*5,* 106633-106643
119	S. Majumdar, J. Hossain, R. Natarajan, A. K. Banerjee	2015	Phthalate tethered strategy: carbohydrate nitrile oxide cycloaddition to 12–15 member chiral macrocycles with alkenyl chain length controlled orientation of bridged isoxazolines	*RSC Advances*	4.0	5, 106289-106293

	and D. K. Maiti					
118	N. Pramanik, S. Sarkar, D. Roy, S. Debnath, S. Ghosh, S. Khamarui and D. K. Maiti	2015	Synthesis and diverse general oxidative cyclization catalysis of high-valent $Mo^{VI}O_2$(HL) to ubiquitous heterocycles and their chiral analogues with high selectivity	*RSC Advances*	4.0	5, 101959-101964
117	D. Roy, S. Sarkar, R. M. Laha, N. Pramanik and D. K. Maiti	2015	Ni(0)-Cu(I): A powerful combo catalyst for simultaneous coupling and cleavage of C-N bond with cyclization to valuable amide-based pyrroles and 4-pyridones	*RSC Advances*	4.0	5, 73346-73351
116	S. Mandal, Y. Sikdar, D. K. Maiti, G. P. Maiti, S. K. Mandal, J. K. Biswas and S. Goswami	2015	A new pyridoxal based fluorescence chemo-sensor for detection of Zn(II) and its application in bio imaging	*RSC Advances*	4.0	5, 72659-72669
115	S. Majumdar, J. De, A. Chakraborty, D. Roy and D. K. Maiti	2015	A Protic Ionic Liquid Catalyzed Strategy for Selective Hydrolytic Cleavage of tert-Butyloxycarbonyl Amine (N-Boc)	*RSC Advances*	4.0	5, 3200-3205
114	S. Majumdar, M. Chakraborty, N. Pramanik and D. K. Maiti	2015	Grindstone Chemistry: Protic Ionic Liquid-Substrate Tuned Green Synthesis of 1,2-Disubstituted and 2-Substituted Benzimidazoles with Outstanding Selectivity	*RSC Advances*	4.0	5, 51012-51018
113	H. Rahaman, R. M. Laha, D. K. Maiti and S. K. Ghosh	2015	Fabrication of Mn_2O_3 nanorods: An efficient catalyst for selective transformation of alcohol to aldehyde	*RSC Advances*	4.0	5, 33923-33929
112	S. Majumdar,	2015	General solvent-free ionic liquid catalyzed C–N/C–C coupled	*RSC Advances*	4.0	5, 24681-24686

	J. De, A. Pal, I. Ghosh, R. K. Nath, S. Chowdhury, D. Roy and D. K. Maiti		cyclization to diverse dihydropyrimidinones and new organic materials: Langmuir–Blodgett film study				
111	S. Majumdar, M. Chakraborty, S. Chowdhury, J. Hossaina and D. K. Maiti	2014	Activation of 1,3-Dioxolane by a Protic Ionic Liquid in Aqueous Media: A Green Strategy for the Selective Hydrolytic Cleavage of Acetals and Ketals.	*RSC Advance*	4.0		4, 16497-16502
110	S. Majumdar, J. De, A. Chakraborty and D. K. Maitib	2014	General solvent-free highly selective N-tert-butyloxycarbonylation strategy using protic ionic liquid as an efficient catalyst	*RSC Advances*	4.0		4, 24544-24550
109	K. S. Gayen and D. K. Maiti	2014	$AuCl_3$ catalyzed [3 + 2 + 1] cycloaddition: first use of aldehyde as a carbon monoxide-like one carbon synthon for triple C–C coupling	*RSC Advances*		4.0	*4,* 10204-10207
108	S. Samanta, D. Roy, S. Khamarui and D. K. Maiti	2014	Ni(II)–salt catalyzed activation of primary amine-sp^3C_α–H and cyclization with 1,2-diketone to tetrasubstituted imidazoles	*Chemical Communications*		6.1	*50*, 2477-2480
107	S. Ghosh, S. Khamarui, K. S. Gayen and D. K. Maiti	2013	$ArCH(OMe)_2$ - a Pt^{IV}-catalyst originator for diverse annulation catalysis	*Scientific Reports*		5.5	*3*, 2987
106	T. Sengupta, S. Khamarui, S. Samanta and D. K. Maiti	2013	Synthetically useful noncatalytic strategy: a stereocontrolled rapid cyclization of a three component system to afford hexahydropyrrolizines	*Chemical Communications*		6.1	*49*, 9962-9963

105	T. Sengupta, K. S. Gayen, P. Pandit and D. K. Maiti	2012	$FeCl_3 \cdot 6H_2O$-Catalyzed Intermolecular-Cascade Cyclization of Acetoacetanilide: Aldehyde-Tuned Synthesis to Valuable 2-Pyridone Analogues	*Chemistry A European Journal*	5.2	*18*, 1905-1909
104	K. S. Gayen, T. Sengupta, Y. Saima, A. Das, A. Mitra and D. K.Maiti	2012	Cu(0) nanoparticle catalyzed efficient reductive cleavage of isoxazoline, carbonyl azide and domino cyclization in water medium	*Green Chemistry*	10.4	*14*,1589-1592
103	Y. Saima, K. S. Gayen, T. Sengupta, A. Mitra and D. K.Maiti,	2012	Efficient catalytic cyclizations of three and two imine assemblies: direct access to tetrahydroimidazo[1,5-c]imidazol-7-ones and imidazoles	*Chemical Communications*	6.1	*48*, 6601-6603
102	D. Dhara, K. S. Gayen, S. Khamarui, P. Pandit, S. Ghosh and D. K. Maiti,	2012	$CeCl_3 \cdot 7H_2O$ Catalyzed C–C and C–N Bond-Forming Cascade Cyclization with Subsequent Side-Chain Functionalization and Rearrangement: A Domino Approach to Pentasubstituted Pyrrole Analogues	*Journal of Organic Chemistry*	4.2	*77*, 10441-10449
101	S. Khamarui, D. Sarkar, P. Pandit and D. K. Maiti	2011	A fast and selective decarboxylative difunctionalization and cyclization for easy access to gem-dihalo alcohol, ether, ester and bromo-1,4-dioxane	*Chemical Communications*	6/1	*47*, 12667-12669
100	P. Pandit, K. S. Gayen, S. Khamarui, N. Chatterjee and D. K. Maiti	2011	Addition of halide to π-bond directly from aqueous NaX solution: a general strategy for installation of two different functional groups	*Chemical Communications*	6.1	*47*, 6933-6935
99	P. Pandit, N. Chatterjee and D. K. Maiti	2011	First synthesis of fused-Δ1-pyrrolines via intramolecular 1,3-dipolar cycloaddition of ketoimine: A complete diastereoselective approach	*Chemical Communications*	6.1	*47*, 1285-1287

98	D. K. Maiti, N. Chatterjee, P. Pandit and S. K. Hota	2010	Generation of azomethine imine and metal free formal 1,3-dipolar cycloaddition of imine with PhIO: reaction, scope, and synthesis	*Chemical Communications*	6.1	*46*, 2022-2024
97	D. K.Maiti, S. Halder, P. Pandit, N. Chatterjee, D. D. Joarder, N. Pramanik, Y. Saima, A. Patra and P. K. Maiti	2009	Synthesis of Glycal-Based Chiral Benzimidazoles by $VO(acac)_2$−$CeCl_3$ Combo Catalyst and Their Self-Aggregated Nanostructured Materials	*Journal of Organic Chemistry*	4.2	*74*, 8086-8097
96	P. Pandit, N. Chatterjee, S. Halder, S. K. Hota, A. Patra and D. K.Maiti	2009	PhIO as a Powerful Cyclizing Reagent: Regiospecific [3+2]-Tandem Oxidative Cyclization of Imine toward Cofacially Self-Aggregated Low Molecular Mass Organic Materials	*Journal of Organic Chemistry*	4.2	*74*, 2581-2584
95	N. Chatterjee, P. Pandit, S. Halder, A. Patra and D. K.Maiti	2008	Generation of Nitrile Oxides under Nanometer Micelles Built in Neutral Aqueous Media: Synthesis of Novel Glycal-Based Chiral Synthons and Optically Pure 2,8-Dioxabicyclo[4.4.0]decene Core	*Journal of Organic Chemistry*	4.2	*73*, 7775-7778
94	P. Chakraborty, D. Maiti, T. Mangner, D. Chugani and H. Chugani	2006	High yield and semi-automated synthesis procedure of (R)-[^{11}C]PK11195	*Journal of Nuclear Medicine*	10.1	*47,* 522P
93	R. Ghosh, A. Chakraborty, D. K. Maiti and V. G. Puranik,	2006	Crystal or Low Molecular Mass Organogel Based on Sugar-Derived Chiral Pyrano[2,3-b]naphtho[1,2-e]pyrans	*Organic Letters*	6.0	*8*, 1061-1064

92	R. Ghosh, S. Maiti, A. Chakrabort y, D. K. Maiti	2004	$In(OTf)_3$ catalysed simple one-pot synthesis of α-amino phosphonates	*Journal of Molecular Catalysis A: Chemical*	5.0	*210,* 53–57	
91	A. Chatterjee, D. K. Maiti, P. K. Bhattachar ya	2003	Water Exclusion Reaction in Aqueous Media: Nitrone Formation and Cycloaddition in a Single Pot	*Organic Letters*	6.0	*5*, 3967-3969.	

(b) Book Chapters*

	Author(s)	Year	Title	*Book*	*ISBN No*
19	P. Hota, A. Das, D. K. Maiti	2024	Generation of Green Fuel Hydrogen through Electrocatalytic Water Splitting	*Green Hydrogen Economy for Environmental Sustainability*	*ACS Publication*
18	S. Ray, D. K. Maiti	2024	Metal-Oxide-Semiconductor Devices	*2D Semiconductin g Materials for Electronic, Photonic, and Optoelectronic Devices*	*CRC Publication*
17	D. De Joarder, R. Sarkar, D. K. Maiti	2024	Green Catalysis for Chemical Transformation: Need for the Sustainable Development	*Sustainable Green Catalytic Process*	*Wiley Publisher*
16	R. Sarkar, D. De Joarder, D. K. Maiti	2024	Sustainable Therapeutic Approaches with Nanophotocatalyst	*Sustainable Green Catalytic Process*	*Wiley Publisher*
15	P. Hota, D. K. Maiti	2024	Chemistry for Catalytic Conversion of Biomass/Waste Into Green Fuels	*Sustainable Green*	*Wiley Publisher*

				Catalytic Process	
14	R. Rahaman, P. Das, P. Hota and D. K. Maiti	2023	Organophotoredox catalyzed synthesis of bioactive heterocycles	*Non-conventional synthesis of bioactive heterocycles (Vol 1)*	*De Gruyter publisher, Germany*
13	P. Das, A. Das and D. K. Maiti	2023	Synthesis of bioactive heterocycles using silica-supported acids as reusable catalysts under solvent-free conditions	*Solvent-free synthesis bioactive heterocycles (Vol 3)*	*De Gruyter publisher, Germany*
12	R. Sarkar, D. De Joardar and D K Maiti	2023	Synthesis of bioactive heterocycles involving λ3-hypervalent iodine	*Aqueous mediated synthesis of bioactive heterocycles (Vol 2)*	*De Gruyter publisher, Germany*
11	D. De Joardar, R. Sarkar and D K Maiti	2023	Synthesis of bioactive heterocycles involving heterogeneous catalysis in water	*Aqueous mediated synthesis of bioactive heterocycles (Vol 2)*	*De Gruyter publisher, Germany*
10	P. Hota, P. Das, R. Rahaman and D. K. Maiti	2023	Synthesis of Heterocycles through Electrolysis	*Non-conventional synthesis of bioactive heterocycles (Vol. 1)*	*De Gruyter publisher, Germany*
9	P. Das, P. Hota, R. Rahaman and D. K. Maiti	2023	Synthesis of Bioactive Heterocycles by Nanocatalysis	*Non-conventional synthesis of bioactive heterocycles (Vol. 1)*	*De Gruyter publisher, Germany*
8	S. Mitra, D. K. Maiti	2021	Nanotechnology for green energy and sustainable future	*Nano Tools & Devices for Enhanced Renewable Energy*	*Elsevier Inc., USA* *ISBN:978-0-12-821709-2*
7	Somrita Mondal, Aninda S. Manna,	2021	Nanotools and devices in solar power energy	*Nano Tools & Devices for Enhanced Renewable Energy*	*Elsevier Inc., USA* *ISBN:978-0-12-821709-2*

	Dilip K. Maiti				
6	Amrita Biswas, Shresthashree Swain, and Dilip K. Maiti	2021	Eco-friendly cost effective energy storage device for the benefit of society	*Nano Tools & Devices for Enhanced Renewable Energy*	*Elsevier Inc., USA ISBN:978-0-12-821709-2*
5	Ipshita Bhattacharjee and Dilip K Maiti	2021	Nano Tools and Devices in Geothermal Energy	*Nano Tools & Devices for Enhanced Renewable Energy*	*Elsevier Inc., USA ISBN: 978-0-12-821709-2*
4	Soumyadeep Mitra, Dilip K. Maiti	2021	Environmental problems and management aspects of waste electrical and electronic equipment and use of clean energy for sustainable development	*Environmental Management of Waste Electrical and Electronic Equipment*	*Elsevier Inc., USA ISBN: 978-0-12-822474-8*
3	S. Swain, A. Biswas and D K Maiti	2021	Conventional and Innovative Technology, and Assessment Techniques for Pollution Prevention and Control	*Handbook of Advanced Approaches Towards Pollution Prevention and Control*	*Elsevier Inc., USA ISBN: 978-0-12-822121-1*
2	Dr. Dripta De Joarder and Prof. Dilip K. Maiti	2020	Synthesis of Medicinally Important N- and O-Heterocycles inside the Nanoreactors Built in Non-conventional Reaction Media	*Advances in Green and sustainable Chemistry: Green Approaches in medicinal Chemistry for sustainable Drug design*	*Elsevier Inc., UK ISBN: 978-0-12-817592-7*
1	Sudipta Ray, Amiya K. Medda, and Dilip K. Maiti	2019	Synthesis, Synthons and Medicinal Chemistry of Isoxazolines and Analogues	*Chemistry Research and Applications: Organic and Medicinal Chemistry*	Nova Science Publication Inc., New York, *ISBN: 978-1-53614-454-3*

*Currently, we are writing chapter 5, 7, and 8 (Vol 1) 1, 5, 8, 15, 37, 38, 39, 43, 49, 55, 56, 58, and 59 (Vol 2) of "**Natural and Industrial Wastes conversion into functional materials for value added applications: A sustainable management",** to be published by Wiley Publishing.

15. Edited Books

3. **Series title:** Green Bioactive Heterocycles; 6th Volume: Bioactive three-membered heterocycles: Natural products, green synthesis and bioactivity; Edited by D. K. Maiti & B. Banerjee, **Publisher:** De Gruyter publishers, Germany, 2024.

2. Exploration of Chemical Complexity, edited by Hari Shankar Biswas, Dilip K. Maiti, Sandeep Poddar and Amiya Bhaumik in 2024, published by Lincoln University Press, Malaysia

1. Progress in Chemical and Biological Science, Edited by H. S. Biswas, D. K. Maiti, S. Poddar, A. Bhaumik in 2023, published by Lincoln University Press, Malaysia

16. Participation in the Seminar/Workshop/Conference (International/National/State Level) as a Speaker and Chairperson

117. A Plenary Lecture will be delivered in the One Day National Conference at the Department of Chemistry, Assam University, Silchar on 22nd August 2024 to celebrate the birth anniversary of Acharya Prafulla Chandra Ray.

116. A Special Lecture on "The Life and Achievements of Acharya Dev" will be delivered at P. K. College, Contai on 9th August 2024.

115. Chairperson in the 2nd Technical Session of the International Seminar on Chemistry in Pharmaceutical Industry organized by the Indian Chemical Society during 3rd August 2024 at Calcutta Univesity, Kolkata.

114. Addressed the participants in the Matri Diwas and received Prestigious Samaj Bandhu Award (Education Category) organized by the Prantik Care the Earth on 2nd August, 2024 at Shantiniketan.

113. Delivered talk as the Guest of Honour in the Modern Perspectives of Advances in Chemical Sciences (MPACS-2024) organized by the Ramakrishna Mission Vidyamandira, Howrah during 22nd – 23rd July, 2024.

112. Delivered a Keynote address on "Organic Nanomaterials for Smart Sensors, Inkless writing, Devices and Nanomedicine" in the international conference "Recent Advances on Materials Science and Computational Techniques" at Manipal University, Jaipur during April 4-6, 2024 at Jaipur.

111. Delivered a Keynote address on "Organic Nanomaterials and Their Application as Smart Sensors, Inkless writing, Devices and Nanomedicine" in the national conference "**Exploration of Recent Trends in Innovative Research of Chemical Sciences "** at Krishna Chandra College during 12th -13th March 2024 at Hitampur.

110. Chairperson in a Technical Session of the 'BCSIR Congress-2023'organized during 8-10th March by the BCSIR at Dhaka, Bangladesh.

109. Delivered the Theme Lecture in the 'BCSIR Congress-2023'organized during 8-10th March by the BCSIR at Dhaka, Bangladesh.

108. Delivered the speech as the Guest of Honour in the 'BCSIR Congress-2023'organized during 8-10th March 2024 by the BCSIR at Dhaka, Bangladesh.

107. Talk delivered as the Guest of Honour in the 2nd International Conference on Nonlenear Dynamcsand Application (ICNDA-2024) during 21st -23rd February, 2024 at Sikkim Manipal University of Technology, Sikkim.

106. Delivered a Keynote address on "Design, Syntheses and Fabrication of Organic Nanomaterials and Their Application as Smart Sensors, Inkless writing, Devices and Nanomedicine" in the international conference "**Present Scenario of Chemistry-Biology Interface Research: Issues and Challenges"** at Bidhan Chandra College on 19th January 2024 at Asansol.

105. Talk delivered as the Special Guest in the 6th Regional Science and Technology Congress organized by the Durgapur Govt. College during 9th -10th January, 2024 at Durgapur.

104. Delivered an invited talk on "Design, Syntheses and Fabrication of Organic Nanomaterials and Their Application as Smart Sensors, Inkless writing and Devices" in the national conference entitled Advance Research in Chemical Sciences (ARCS-2023) on 21-22nd December 2023 by the Department of Chemistry, Assam University, Silchar, Assam.

103. Delivered an invited talk on "Smart Organic Nanomaterials' Sensors and Devices" in the 19th European Organic Chemistry Congress during 6-7th November 2023 in London.

102. Delivered an invited talk on "Development of C-C and C-X Coupling Reactions with Synthetic Efficiency to Achieve Valuable Compounds" in the national conference Recent Advances on Green and Sustainable Developments (ICRAGSD 2023) at Akal University, Punjab on 6-8th September, 2023

101. Delivered an invited talk on "Fabrication of Smart Organic Nanomaterials for Sensors, Inkless Writing and Devices" in the national conference at Haldia Govt. College on 21st June, 2023.

100. Delivered an invited talk on "Extraction, Chemistry and Medicinal Activities of Phytochemicals" in the state level conference at the Department of Agricultural Chemistry, University of Calcutta on 26th May, 2023.

99. Delivered an invited talk on "Isolation of Phytochemicals: Inhibitory Role Nano-Trifattyglyceride of Drumstick Root against Ovarian Cancer" in the state level conference at the Department of Life Science, Presidency University, Kolkata on 26th April, 2023.

98. Delivered an invited talk on "Foods, Medicines and Phytochemicals of Moringa Oleifera" in the national conference at the Department of Chemistry, Bhawanipur Education Society College, Kolkata on 30th March, 2023.

97. Delivered an invited talk on "Smart Organic Nanomaterials, Sensors, Inkless Writing and Devices" in the international conference Innovation, Expansion, Impacts, and Challenges in Chemical and Biological Sciences (ICBS-2023) on January 2023 organized by Surendranath College, Kolkata.

96. Chairing a session in the international conference ICBS-2023 on January 2023 organized by Surendranath College, Kolkata.

95. Delivered an invited talk on "Smart Organic Nanomaterials for AIE, Sensing, Inkless Writing and Devices" in the international conference IC-AIE-FA 2022 on 16-18th December 2022, organized by the Department of Chemistry, BITS Pilani Goa, Goa.

94. Chairing a session in the international conference IC-AIE-FA 2022 on December 2022, organized by the Department of Chemistry, BITS Pilani Goa, Goa.

93. Delivered an invited talk on “Selective and Controlled Synthesis through Organophotocatalysis” in the national conference COFS on December 2022, organized by the Department of Chemistry, IIT Roorkee, Roorkee.

92. Chairing the poster evaluation of the national conference CFOS on December 2022, organized by the Department of Chemistry, IIT Roorkee, Roorkee.

91. Delivered an invited talk on “Smart Organic Nanomaterials, Sensors, Inkless Writing and Devices” in the international conference on “Chemistry in Daily life” organized by the Department of Chemistry, Diamond Harbor Women University, Diamond Harbour on 24th November 2022.

90. Delivered an invited talk on “Smart organic nanomaterials and devices” in the Refresher course in Chemistry, Organized by the Department of Chemistry, CU-HRDC on December 2022, Kolkata

89. Chairing a Young Scientist Presentation session in the international conference on December 2022, organized by the Department of Chemistry, Diamond Hourbar Women University, Diamond Harbour.

88. Participated in the national seminar Birth Centenary Celebration of Prof. Sadhan Basu on September 2022 organized by the Department of Chemistry, University of Calcutta.

87. Delivered an invited talk on “Smart Organic Nanomaterials, Sensors and Devices” in the FDP program entitled “Recent Trends in Material Frontiers: Chemical and Biological Aspects" on August 2022, organized by the Department of Chemistry and Dietetics & Applied Nutrition, Amity University, Kolkata.

86. Delivered an invited talk on “Fabrication of smart organic materials for organicelectronic devices” in the refresher course organized by the HRDC of Ranchi University, Ranchi on August 2022.

85. Delivered an invited talk on “Nanoscience: Organic Nanomaterials, Sensors and Devices” in the national conference on May 2022 organized by the Department of Chemistry, Presidency University, Kolkata.

84. Delivered an invited talk on “Smart materials for devices” in the Multidisciplinary Refresher Course” organized by the Department of Chemical Engineering, CU on February 2022 at Kolkata.

83. Delivered an invited talk on “Functional Organic Nanomaterial” in the Workshop, Department of Physics, Tripura University, August, 2021.

82. Delivered an invited talk on “Nanoscience and Nanotechnology of Smart Nanomaterials” in the national conference on June 2021 organized by the Department of Chemistry, Acharya B. N. Seal College, Coachbehar.

81. Delivered an invited talk on “Progress of Nanoscience and Nanotechnology: An Overview” in the national conference on June 2021 organized by the Postgraduate Department of Chemistry, Haldia Government College, Haldia.

80. Delivered an invited talk on “Functional Organic Nanomaterials, Sensors and Smart Devices” in the National Conference of the Indian Chemical Society, June, 2021.

79. Delivered an invited talk on Functional Organic Nanomaterials, Sensors and Smart Devices, Gold Award Lecture in the International Conference of Rasayan, CRSI, February 2021.

78. Delivered an invited talk on "Nanoscience: Functional Nanomaterials, Sensors and Smart Devices" in the National Conference at Chemical Science Department of MAKAUT, January, 2021.

77. Delivered an invited talk on "Diverse Photocatalysis Following Common Reaction Pathways" in the 57th Annual Convention of Chemist, organized by the Indian Chemical Society, December 2020.

76. Delivered an invited talk on "Innovative Organic Nanomaterials, Smart Sensors and Devices" in the international conference organized by the Dept. of Chemistry, Diamond Harbour Women's University on 14th September, 2020.

75. Delivered an invited talk on "Brain Imaging and Neuro-Disorder" in the international Conference organized by Surendranath Evening College, Kolkata on 22nd August, 2020.

74. Delivered an invited talk on "Diverse Organic Synthesis, Functional Nanomaterials, Organic Nanoelectronics and Smart Devices" in the National conference organized by MAKAUT on 19th August, 2020 at Kolkata

73. Delivered an invited talk on "Diverse Organic Synthesis, Functional Materials for Nanoelectronics, Sensors and Smart Devices" in the international conference RDOAC-2020 organized by School of Applied Sciences, KIIT, Bhubaneswar on 6-7th July, 2020

72. Delivered an invited talk on "Diverse, Nanofabrication and Organic Nanoelectronics" in the international conference AOS-2020 organized by NCL-IISER Pune, on 13th January, 2020 at Pune

71. Chairing a session in the international conference AOS-2020 organized by NCL-IISER Pune, on 13th January, 2020 at Pune.

70. Delivered a plenary lecture on "Smart Sensors and Device Engineering for Detection and Capturing Hazardous Chemicals: Sustainable Approaches to Safe Environment" in the international conference on "Environmental Solutions for Sustainable Development: Towards Developed Bangladesh (CESSD 2019)" organized by the Govt. of Bangladesh on 27-28 November 2019 at Dhaka, Bangladesh.*

69. Delivered an invited talk on Small Molecules to Organic Nanomaterials & High-Tech Devices, NCRDN, JU, 2019

68. Delivered an invited talk on "Diverse Catalysis to Molecules for Functional Materials and Organicelectronic Devices" Dept. of Chemistry, Viswa-Bharati, 2019

67. Delivered an invited talk on "Sustainable Approaches to Functional Molecules for Organic Materials and Devices" PU, 2019

66. Delivered an invited talk on "Nanoscience and Nanotechnology – A Single Platform for Research Professionals to Discover Medicine to High-Tech Devices" MGCU 2019

65. Delivered an invited talk on "Organic Small Molecules for Catalysis, Sensing, Inkless Writing and Nanoelectronic Devices" Dept. of Chemistry, JU 2019

64. Delivered an invited talk on "Small Molecules to Organic Nanomaterials and Nanoelectronics" Material Sc. Dept, JU 2019

63. Delivered an invited talk on "Sustainable Approaches to Functional Molecules for Organic Materials and Devices" IIT Roorkee, Roorkee

62. Delivered an invited talk on "Sustainable Catalysis to Functional Molecules for Organic Materials and Devices" IISER Kolkata, 2019

61. Delivered an invited talk on "Organic Materials for Sensing, Inkless Writing and Nanoelectronic Devices" IEM, 2019

60. Delivered an invited talk on "Small Molecules to Organic Nanomaterials and Nanoelectronics" GCELT 2019

59. Delivered an invited talk on "Nonconventional Catalytic Transformation with Low Energy Light" VU, March 2018, Midnapore

58. Delivered an invited talk on "Design, Syntheses and Fabrication of Materials for Organic Nanoelectronic Devices" in the national conference NCEM on January 2018

57. Delivered an invited talk on "Smart Organic Materials: Nanoelectronic Memory Devices and Inkless Confidential Data Printing" in the international conference NBU, February 2018, North Bengal.

56. Delivered an invited talk on "Design, Syntheses and Fabrication of Materials for Organic Nanoelectronic Devices" at IIT Dhanbad, January 2018

55. Delivered an invited talk on "Design, Syntheses and Fabrication of Innovative Materials for Organic Nanoelectronic Devices" in the international conference EICNCBS organized on December 2018, Kolkata

54. Delivered an invited talk on "Small Molecules to Organic Nanomaterials and Nanoelectronics" in the Refresher Course organized by Dept. of Chemistry, CU, 2018.

53. Delivered a Plenary Lecture on "Nanocatalysis and Organic Nanoelectronics" in the National Conference organized by Assam University at Silchar during 20-22 March, 2018.

52. Delivered an invited talk on "Nanofabrication and Organic Nanoelectronic Devices" on 31st Jan. 2018, Orientation Course Organized by HRDC, University of Calcutta, Kolkata

51. Delivered Keynote Address on "Growth of Nanoscience and Nanotechnology" in the World Research Journal Congress at Bankok, Thailand, 24th June, 2017.*

50. Delivered an invited talk on "Organic Electronics and Memory Device" in the World Research Journal Congress at Bankok, Thailand on 25th June, 2017.*

49. Delivered a Keynote Address on "*Organic Nanoelectronics – An Innovative Technology for Electronic Industry"* in the Jharkhand Science Congress at Chaibasa, on 17th February, 2018

48. Chairing a scientific session in the National Conference organized by Assam University at Silchar during 20-22 March, 2018.

47. Chairing a scientific session in the Jharkhand Science Congress at Chaibasa, on 17th February, 2018

46. Chairing a scientific session in the national conference organized by St. Xavier's University, Kolkata, 0n 16th February, 2018

45. Chairing a session in the World Research Journal Congress at Bankok, Thailand from 24th-26th June, 2017* International Conference AMMOA organized by IISER Kolkata during 9-10 May, 2017.

44. Chairing a scientific session in the National Conference organized by Viswa Bharati, 11th March, 2017.

43. Invited talk on "Writing Research Proposal for Funding" in the national symposium on Current Trends in Research Methodology and Statistical Analysis organized by J. D. Birla Institute on 26-27th January, 2017.

42. Delivered an invited talk on PET - A Functional Imaging for Diagnosis of Human Disease, December 2017, Orientation Course Organized by HRDC, University of Calcutta, Kolkata

41. Delivered an invited talk on "Nanocatalysis by insitu fabricated Nanomaterials" on December, 2017, in the Orientation Course Organized by HRDC, University of Calcutta, Kolkata

40. Delivered an invited talk on "Nanofabrication Methodology on Fabrication of Organic Nanoelectronic Devices" on 21st Nov. 2017, in the Short Term Course on Research Methodology, HRDC, University of Calcutta, Kolkata

39. Delivered an invited talk on "Brain Diagnosis with PET Imaging" in the Orientation Course organized by the ASC-CU on November 2017, CU, Kolkata

38. Delivered an invited talk on "Nanoscience and Organic Electroics" in the DST Inspire Program at VU, Shantineketan (20-23th Sept, 2016)

37. Delivered an invited talk on "Construction and Exploiting Surfactant Assembled Nanoreactors" at Habra Postgradguate College, on 21st August, 2016, the conference organized by the Surfactant Society of India

36. Delivered an invited talk on "Organic Electroics: Development of Powerful Electrical Switching Memory" in the International Nanotechnology Conference at NIT, Srinagar (25-29th May, 2016)

35. Chairing a session in the International Nanotechnology Conference at NIT, Srinagar, 25-29th May, 2016.

34. Delivered an invited talk on "Fabrication of Diverse Organic Nanomaterials for Construction of High Performance Organic Electronic Devices" in the IIIM, Jammu, 24th May, 2016

33. Delivered an invited talk on "Progress Organic Electronics: An Overview" in the 115th Orientation Program-2016, ASC-CU, Kolkata.

32. Delivered an invited talk on "Progress of Nano-World and Organic Electronics: An Overview" in the 114th Orientation Program-2016, ASC-CU, Kolkata

31. Chairing a session in the National Conference on Chemical Biology, St. Xaviers College, Kolkata, 27-29th January, 2016

30. Delivered an invited talk on “Bulk and Nanoscale High-Valent Metals for Diverse Catalysis” in the National symposium, 4-6 February, 2015, Organized by Burdwan University

29. Delivered an invited talk on “Nanoscience and Nanotechnology” in the National Conference at RTRC, August, 2015, UC, Agartala

28. Delivered an invited talk on “Nanoscience and Organic Electronics: An Overview” in the RTRC, on August, 2015, UC, Agartala

27. Delivered an invited talk on “Diverse Catalysis by High-Valent Metal Catalysts” in the Department of Chemistry, Tripura University, Tripura, 23 April, 2015.

26. Delivered an invited talk on “sp^3C-H Activated Diverse Functionalization Catalysis in Refresher Course in Chemistry on September, 2015, CU, Kolkata

25. Delivered an invited talk on “Nanoscience and Organic Electronics: An Overview” in the Refresher Course in Chemistry on September, 2014, CU, Kolkata

24. Delivered an invited talk on “Exploiting Catalytic Csp^3-H Activation for Selective Annulation. International Symposium, "C-H Activation" in the international conference ISCHA2-2014 at Université de Rennes 1, 35042 Rennes, France (June 30-July 3, 2014)*

23. Delivered an invited talk on “Intermolecular Domino Cyclization Reaction and Diverse Annulation with Pt(IV) Catalyst Originator” in the Institut de Chimie Moléculaire del'Université de Bourgogne (ICMUB, UMR 5260 CNRS, Bât. Sciences Mirande 9, av. Alain Savary, BP 47870, F-21078 DIJON Cedex, France (June 27, 2014)*

22. Delivered an invited talk on “Intermolecular Domino Cyclization Reaction to Functional Molecules” at ENSCP - Chimie Paris Tech, 11, rue P. et M. Curie, 75231 Paris cedex 05, France; (25th June, 2014)*
USA

21. Delivered an invited talk on “Progress of Nanoscience and Organic Electronics: An Overview” in RCC-JU-2013, Kolkata

20. Delivered an invited talk on “Progress of Nanoscience and Organic Electronics: An Overview” in the Refresher Course in Chemistry, September, 2013, Burdwan University, Burdwan.

19. Delivered an invited talk on “Nanoscience & Organic Electronics” in the Refresher Course in Chemistry, September, 2013, CU, Kolkata

18. Delivered an invited talk on “Packing of Small Molecules: Easy Access to Nanoreactors, Metal Nanoparticles, Organic Materials and Their Novel Properties” in the Refresher Course in Chemistry, on August 2012, CU, Kolkata

17. Delivered an invited talk on “Synthesis of Organic Compounds in a Surfactant Assembled Nanoreactor Built in Water” in the International Symposium on Organic Chemistry; National Organic Symposium Trust (*NOST*), Agra, India (10-14th October, 2012)

16. Delivered an invited talk on "Nanoscience: Cu(0)-Nanoparticles is an Efficient Reductive Catalyst in Water Medium" in the national conference organized by the M. B. B. College & National Institute of Technology, Agartala (20-21st July, 2012)

15. Chairing a session in the National symposium on Green Chemistry and Nano Sciences, M. B. B. College & National Institute of Technology, Agartala (20-21st July, 2012)

14. Delivered an invited talk on "Packing of Small Molecules is the Key to Access Nanoreactors, Nanomaterials and Their Unique Nanoscale Properties" in the international conference organized by the Dept. of Physics, Tripura University, Agartala (3-4th February, 2012)

13. Delivered an invited talk on "Utilization of Non-chemical Water as a Solvent in Organic Synthesis for Protecting Environment: Design, Scope, Mechanism and Synthesis" in the national conference organized by the Dumkal College Basantapur, Murshidabad (6-7th January, 2012).

12. Delivered an invited talk on "Construction of Nanoreactor in Non-conventional Reaction Medium: Reaction, Scope and Construction of Functional Molecules" in the national conference organized by the Dept. of Chemistry, M. M. College, Kolkata (14th Dec., 2011).

11. Delivered an invited talk on "Design and Fabrication of Nanoreactors for Synthesis of Functional Molecules: Properties, Scope, Reaction and Mechanism" in the national conference organized by the Dept. of Chemistry, Tripura University, Agartala (11th Nov, 2011)

10. Delivered an invited talk on "Travelling Through the Nano World" in the national conference organized by the Maulana Azad College, Kolkata (3rd November, 2011).

9. Delivered an invited talk on "Selective Activation of C-*H* and N-*H* Bond: Construction of Novel Sugar-Based Chiral Heterocycles" in the workshop organized by the Indian Institute of Technology Kharagpur, Kharagpur (27th June, 2011).

8. Delivered an invited talk on "Construction of Surfactant-Assembled Nanoreactors in Non-conventional Media: Properties, Scope and Synthesis with Synthetic Efficiency" in the national conference organized by Indian Institute of Technology Gwahati, Gwahati (12-13 March, 2011)

7. Delivered an invited talk on "Construction of Surfactant-Assembled Nanoreactors in Non-conventional Media: Properties, Scope and Synthesis with Synthetic Efficiency" in the Refresher Course in Chemistry on September 2011, CU, Kolkata.

6. Delivered an invited talk on "Nanoscience and Nanotechnology: A New Field of Dream" in the Refresher Course in Chemistry on August 2010, CU, Kolkata

5. Delivered a talk on "Traveling Through the Nano Worlds" in the Refresher Course in Chemistry September 2009, CU, Kolkata

4. Delivered a lecture on "Nanoscience and Nanotechnology" in the Refresher Course in Chemistry September, 2008, CU, Kolkata

3. Delivered a talk on "DRUGS, RECEPTORS, DRUG - RECEPTOR INTERACTIONS AND THEIR IMAGING: AN OVERVIEW in the Refresher Course in Chemistry on August 2007, CU, Kolkata

2. Delivered a lecture on "Human Brain Imaging by PET Technology" in the Refresher Course in Chemistry on September, 2006, CU, Kolkata

1. Delivered lecture on "Positron Emission Tomography Imaging" in the Refresher Course in Chemistry on August 2005, CU, Kolkata

17. Organizer of Special Events Involving High Profile International Scientific Community

Convener of International conference on Chemistry for Human Development ICCHD-2020 (9-11th January, 2020) organized by Professor Asima Chatterjee Foundation, Kolkata (PACFK) with University of Calcutta (CU) and Heritage Institute of Technology (HIT) where about 450 participants from India and abroad participated including 36 foreigner and 65 national speakers. *Topics Discussed*: Chemistry of Natural Products, Diverse Catalysis, Chemistry in Industries for Pharmaceuticals and Agrochemicals, Medicinal Chemistry & Drug Development, Traditional Medicine Integrated with Modern Practice, Advanced Biochemistry, Innovative Materials and Devices, and other topics which are being pursued for human benefit. This event is utilized for mass education of India and spread out contemporary science and technology among young scientists of our country, which is slowly missing in our country as most of the conferences are organized in the five star hotels with a very limited access to graduate students, research scholars, postdocs and budding national scientists.

Founder Convener of *International Conference on Chemistry for Human Development* (ICCHD-2018) organized by Professor Asima Chatterjee Foundation, Kolkata (PACFK) with University of Calcutta (CU) and Heritage Institute of Technology (HIT) during January 8-10, 2018, where about 550 participants from India and abroad participated including 34 foreigner and 48 national speakers. *Topics Discussed*: Chemistry of Natural Products, Diverse Catalysis, Chemistry in Industries for Pharmaceuticals and Agrochemicals, Medicinal Chemistry & Drug Development, Traditional Medicine Integrated with Modern Practice, Advanced Biochemistry, and other topics which are being pursued for the human benefit. This event is utilized for mass education of India and spread out contemporary science and technology among young scientists of our country.

Organized Nobel Laureate Lecture as the Coordinator, CU Centenary Program of Science College where Nobel Laureate Professor E. C. Negishi (NL 2010) delivered the lecture on 27th January 2016. More than 500 of graduate students, research scholars, postdocs and faculty members of CU and other institutes were actively participated in this Nobel Laureate Lecture which was organized in the M. N. Saha auditorium, Rajabazar Campus, CU.

Organized International Symposium with *Royal Society of Chemistry* (London) SCOM-2015 with Dr. Sarah

Ruthven, the Editor in Chief of RSC Advances and Dalton Trans, Royal Society of Chemistry (RSC, London, 2015) where about 27 foreign speakers and 28 Indian speakers including several Associate Editors and Editor-in-Chief of RSC, and 300 participants were actively engaged in this conference.

Organized Centenary Indian Science Congress (2013) of Chemistry for Local Section as the Convener of Chemical Sciences. About 15 national and international speakers and 400 participants were participated in this conference of Chemical Sciences.

18. Visiting & Adjunct Professor

- Tripura University, Tripura (2012, 2014 & 2015)
- NIPER, Kolkata (2007-2016)

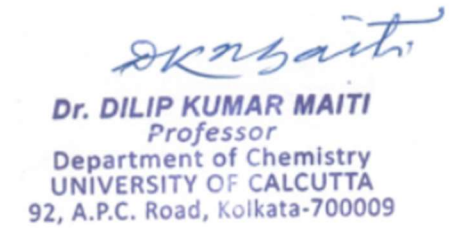
19. Teaching Area

- Alkaloid Chemistry
- Organometallics
- C-H Activation
- Carbohydrate Chemistry
- Basic Medicinal Chemistry
- Advanced Medicinal Chemistry
- Nanoscience and Organic Electronic Devices
- Dynamic Stereochemistry

20. National and International Collaboration: 6

- Prof. Abhijit Mallik, Department of Electronic Science, University of Calcutta, 92, Acharya Prafulla Chandra Road Kolkata-700009, **India**; e-mail: abhijit_mallik1965@yahoo.co.in
- Prof. Debasis Bandyopadhyay, Dept. of Physiology, University of Calcutta, 92, Acharya Prafulla Chandra Road Kolkata-700009, **India**; e-mail: debasish63@gmail.com
- Prof. Krishnendu Acharya, Department of Botany, University of Calcutta, India; e-mail: krishnendu.cbpbu@gmail.com
- Dr. Nayan R. Singha, Dept. of Polymer Science and Technology Government College of Engineering and Leather Technology (Post Graduate), Kolkata, India; e-mail: drs.nrs@gmail.com ·
- Prof. Nail Ibrahim, Dept. of Chemistry, UAE University, **UAE**, e-mail: n.saleh@uaeu.ac.ae

- Prof. Pierre H. Dixneuf, Dept. of Chemistry, University of Rennes, CNRS, **France**, e-mail: pierre.dixneuf@univ-rennes.fr



Date: 20/09/2024