

CV**DR. DILIP KUMAR MAITI, FRSC****Professor, Department of Chemistry, University of Calcutta**

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1.	Personal Information	
	a] Name	DR. DILIP KUMAR MAITI
	b] Present Designation	Professor
	c] Age/DOB	46 ⁺ Yr/09-09-1970
2.	Affiliation and Recognition of the Nominee at a Glance	
	<i>Workplace and its affiliation:</i>	Department of Chemistry, University of Calcutta , 92 APC Road, Kolkata-700009, India Total Experience in the University: > 11 Yrs <i>Reader:</i> 22/09/2005-21/09/2008 (3 Yrs). <i>Associate Professor:</i> 22/09/2008-21/09/2011 (3 Yrs). <i>Professor:</i> 22/09/2011-Till Date (> 5Yrs)
	<i>International and national recognition</i>	Fellow of the Royal Society of Chemistry (FRSC, London), American Chemical Society Membership Award -2015 (ACS-USA), Editor of MOJ Bioorganic and Organic Chemistry (USA), Associate Editor/Editorial Board Member of Scientific Reports (Impact Factor 5.6) of Nature Publishing Group (NPG, London), World Journal of Organic Chemistry, (USA), American Journal of Nanomaterials (USA) and Journal of Nanoscience with Advanced Technology (London), and also national award, membership and editorship like Basudev Banerjee Memorial Award (2011) awarded by Indian Chemical Society, Governing Council Member of SINP (Department of Atomic Energy), editor of Research Journal of Chemistry and Environment and Editor-in-Chief of The Journal of Chemistry and Applied Biochemistry.

3.	Number of research students guided so far	44
	a] Currently working	25 (12 JRF/SRF/Project Fellow & 13 Postdocs)
	b] Ph.D. Awarded	11
	c] Supervisor of D. S. Kothari Postdoctoral Fellows	18
	d] National Postdoctoral Fellow (NPDF) of DST-SERB	03
4.	Publications	
	a] Total Number of International publications	62 (Average impact factor ~ 4)
	b] Total Number of National Publications	05
5. International and National Awards, Honors, Recognitions & Responsibility		
International		
1	Fellow of Royal Society of Chemistry (FRSC), London; February, 2015	
2	Editor: MOJ Bioorganic and Organic Chemistry-2017 (Oklahoma, USA)	
3	Associate Editor/Editorial Board Member: <i>Scientific Reports (Impact Factor 5.6) of Nature Publishing Group (London) – A general science journal;</i> March, 2015	
4	Associate Editor/Editorial Board Member: <i>World Journal of Organic Chemistry</i> , August 2013 (USA)	
5	Associate Editor/Editorial Board Member: <i>American Journal of Nanomaterials</i> , August 2013 (USA)	
6	Associate Editor/Editorial Board Member: <i>Journal of Nanoscience with Advanced Technology (London, July 2016)</i>	
7	American Chemical Society (ACS) Membership Award-2015 (USA, April 2015)	
National		
7	Basudev Banerjee Memorial Award of 2011 awarded by <i>Indian Chemical Society</i>	
8	Editor-in-Chief : The Journal of Chemistry and Applied Biochemistry , November 2015	
9	Editor: <i>Research Journal of Chemistry and Environment</i> , World Research Journals, July 2016	

10	Governing Council Member of Department of Atomic Energy (DAE) , Ministry of Defense, Govt. of India. (March, 2016)
11	Mentor of Institute for Research and Development India , <i>Quality Research for the new Millennium</i> (April, 2016)
6. Membership and Professional Service	
1	Member of American Chemical Society (USA)-2009
2	Member of Indian Science Congress (India)-2010
3	Member of Indian Chemical Society (India)-2015
4	Member of Science Advisory Board, Washington DC, USA, January, 2016
5	Member of National Open Source Drug Discovery committee, (OSDD, CSIR, Govt. of India)-2007
6	Advisor to the Interview Board of Staff Selection Commission (Govt. of India)
7	Member of the Postgraduate Committee of Courses and Studies (PG-CCS) in Chemistry of Gauhati University, Gauhati, Assam
8	Member of Professor Asima Chatterjee Foundation (2016)
7. Job Profile	
(a) Academia	
1	Reader/Associate Professor/Professor (September, 2005-present; Professor from Sept. 2011), Department of Chemistry, University of Calcutta, University College of Science, 92 A.P.C. Road, Calcutta-700 009, India. (Total Experience > 11 Yrs)
2	Lecturer/Senior Lecturer (January, 2000- September, 2005, Department of Chemistry, Dumkal College Basantapur, Kalyani University, Murshidabad-742303, WB, India (Total Experience > 5 Yrs)
(b) Industry	
1	Scientist (R & D), 1999 (May)-1999 (December), Research and Development Center, RPG Life Sciences Limited (formerly known as Searl India), Navi Mumbai-400705, India

	(Total Experience > 1 Yr)
2	Scientist (R & D) , 1998 (August)-1999(April), Research and Technology Department, Ciba India Private Limited (formerly known as Ciba-Geigy), Mumbai-400063, India (Total Experience > 1 Yr)
8. Postdoctoral Experience	
1	Postdoctoral experience abroad: School of Medicine, Wayne State University, Detroit, <i>USA</i> , June, 2002 to June 2004 (Total Experience > 2 Yr)
2	Postdoctoral experience in <i>India</i> : Department of Chemistry, Jadavpur University, January 2000 to May 2002 and July 2004 to August, 2005 (Total Experience > 3 Yr)
9. Teaching Experience	
1	Postgraduate (~ 10 years; Dept. Of Chemistry, University of Calcutta, Kolkata; Taught alkaloid chemistry, organometallics, C-H activation; carbohydrate chemistry, medicinal chemistry and nanoscience courses)
2	Visiting Professor: 2012, 2014 and 2015; Tripura University, Agartala, Tripura; Topics: Nanoscience and Medicinal Chemistry; Three times
3	M. Pharm.: (2007-Till date Guest Professor), Medicinal Chemistry and Dynamic Stereochemistry, NIPER(IICB), Kolkata (Total Experience > 10 Yrs)
4	Undergraduate (2000-2005, Dept. Of Chemistry, Dumkal College Basantapur, Murshidabad, West Bengal; Taught Chemistry Honours and Pass Course) (Total Experience > 6 Yrs)
10. Academic Credentials	
6	Ph. D.: Jadavpur University-1998, Indian Institute of Chemical Biology, Calcutta-700032, India (1993-1998); Major: Synthetic Organic Chemistry; Topic: Studies on Stereoselective Syntheses of Organic Compounds; Mentor: Late Dr. Pranab Kumar Bhattacharya
5	NET: UGC-CSIR (1993)
4	NET: ICAR (1993)
3	GATE: GATE-IIT (95.47 percentile in 1993)

2	M. Sc.: University of Calcutta, University College of Science, Calcutta, India (December, 1993); Major: Organic Chemistry (Other Subjects: Physical and Inorganic Chemistry).
1	B. Sc.: University of Calcutta, Ramakrishna Mission Vidyamandira, Howrah, India (August, 1991); Major: Chemistry Honours (Other Subjects: Physics, Mathematics & English)

11. Publications

(a) International Publications with Impact Factor (IF) \geq 5

Sr. No.	Author List	Yr	Title of the Paper	Full Journal Name	IF	Vol. No., Page No.
67	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	<i>Journal of Organic Chemistry</i>	5	82, 688-700
66	B. Naskar, R. Modaka, Y. Sikdar, D. K. Maiti, A. Bauzá, A. Frontera, A. Katarkar, K. Chaudhuri, S. Goswami	2017	Fluorescent sensing of Al ³⁺ by benzophenone based Schiff base chemosensor and live cell imaging applications: impact of keto-enol tautomerism	Sensors & Actuators: B. Chemical	5	239, 1194-1204
65	S. Samai, D. Ghosh, S. K. Manna, U. K. Das, S. Atta and D. K. Maiti*	2016	Switchable ion dipole promoted rapid [2+2+2][3+2] dual cyclization of an assembly inside micro aqueous micelles: first direct syntheses of highly substituted phthalimides.	<i>Green Chemistry</i>	9	18, 2961-2967
64	R. R. Mondal, S. Khamarui, and D.	2016	CuBr-ZnI ₂ Combo-Catalysis for Mild Cu ^I -Cu ^{III} Switching sp ² C-H	<i>ACS Omega</i>	HQ-NJ	1, 251-263

	K. Maiti*		Activated Rapid Cyclization to Quinolines and Sugar-Based Chiral Analogues: Reaction, XPS/UV-Vis Study and Mechanism			
63	R. M. Laha, S. Khamarui, S. K. Manna and D. K. Maiti*	2016	In Situ Generated Ag ^{II} -Catalysed Selective Oxo-Esterification of Alkyne with Alcohol to α -Ketoester: Photophysical Study	<i>Organic Letters</i>	7	18, 144-147
62	S. Sarkar, R. M. Laha, R. N. Mitra and D. K. Maiti*	2016	Pd ^{II} -NHC Catalyzed Oxidative Aldehyde-sp ² C-H Functionalisation and Cyclization Using Inert-Mild Oxygen Source DMSO to Selective Synthesis of Esters, Sugar-Based Analogues and β -Hydroxy Chromanones: An O ¹⁸ -Labelling Study	<i>ACS Omega</i>	HQ-NJ	1, 981-995
61	S. Khamarui, Y. Saima, R. M. Laha, S. Ghosh and D. K. Maiti*	2015	Functionalised Mn ^{VI} -nanoparticles: an advanced high-valent magnetic catalyst	<i>Scientific Reports</i>	5	8636 (1-8)
60	Khamarui, R. Maiti and D. K. Maiti*	2015	General base-tuned unorthodox synthesis of amides and ketoesters with water	<i>Chemical Communications</i>	7	51, 384-387
59	S. Samanta, D. Roy, S. Khamarui and D. K. Maiti*	2014	Ni(II)-salt catalyzed activation of primary amine-sp ³ C α -H and cyclization with 1,2-diketone to tetrasubstituted imidazoles	<i>Chemical Communications</i>	7	50, 2477-2480
58	S. Ghosh, S. Khamarui, K. S. Gayen and D. K. Maiti*	2013	ArCH(OMe) ₂ - a Pt ^{IV} -catalyst originator for diverse annulation catalysis	<i>Scientific Reports</i>	5	3, 2987 (1-7)
57	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	<i>Chemical Communications</i>	7	49, 9962-9963
56	T. Sengupta, K. S. Gayen, P. Pandit and D. K. Maiti*	2012	FeCl ₃ (H ₂ O) ₆ catalyzed activation of acetoacetanilide: Aldehyde tuned intermolecular cyclization to	<i>Chemistry A European Journal</i>	6	18, 1905-1909

			valuable 2-pyridone analogues			
55	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 and domino cyclization in water medium	<i>Green Chemistry</i>	9	14, 1589-1592
54	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	<i>Chemical Communications</i>	7	48, 6601-6603
53	D. Dhara, K. S. Gayen, S. Khamarui, P. Pandit, S. Ghosh and D. K. Maiti,*	2012	CeCl ₃ ·7H ₂ O catalyzed C–C and C–N bond-forming cascade cyclization with subsequent side-chain functionalization and rearrangement: A domino approach to pentasubstituted pyrrole analogues	<i>Journal of Organic Chemistry</i>	5	77, 10441-10449
52	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	<i>Chemical Communications</i>	7	47, 12667-12669
51	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	<i>Chemical Communications</i>	7	47, 6933-6935
50	P. Pandit, N. Chatterjee and D. K. Maiti*	2011	First synthesis of fused- Δ^1 -pyrrolines via intramolecular 1,3-dipolar cycloaddition of ketoimine: A complete diastereoselective approach	<i>Chemical Communications</i>	7	47, 1285-1287
49	D. K. Maiti,* N. Chatterjee 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	<i>Chemical Communications</i>	7	46, 2022-2024
48	D. K. Maiti,* S. Halder, P. Pandit,	2009	Synthesis of glycal based chiral benzimidazoles by VO(acac) ₂ -	<i>Journal of Organic</i>	5	74, 8086-

	N. Chatterjee, D. D. Joarder, N. Pramanik, Y. Saima, A. Patra and P. K. Maiti		CeCl ₃ combo catalyst and their self-aggregated nanostructured materials	<i>Chemistry</i>		8097
47	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	<i>Journal of Organic Chemistry</i>	5	74, 2581-2584
46	N. Chatterjee, P. Pandit, S. Halder, A. Patra and D. K. Maiti*	2008	Generation of nitrile oxides under nanometer micelle built in neutral aqueous media: synthesis of novel glycal-based chiral synthons and optically pure 2,8-dioxabicyclo[4.4.0]decene core	<i>Journal of Organic Chemistry</i>	5	73,7775-7778
45	R. Ghosh, A. Chakraborty, D. K. Maiti and V. G. Puranik,	2006	Crystals or low molecular mass organogel based on sugar derived chiral pyrano[2,3-b]naphtha[1,2-e]pyrans	<i>Organic Letters</i>	7	8, 1061-1064
44	A. Chatterjee, D. K. Maiti, P. K. Bhattacharya	2003	Water exclusion reaction in aqueous media: nitron formation and cycloaddition in a single pot	<i>Organic Letters</i>	7	5, 3967-3969.

(b) International Publication with Impact Factor <5

43	B. Naskar, A. Dhara, R. Modak, D. K. Maiti, C. Prodhan, K. Chaudhuri, A. Requena, J. P. Cerón-Carrasco, and S. Goswami	2017	A Pyrene-Pyrazole-Based Rotamer Senses Hg ²⁺ on the Nanomolar Scale	<i>ChemistrySelect</i>	HQ-NJ	00-00 (accepted for publication)
42	B. Naskar, R. Modak, S. A. Frontera, P. K. Maiti, S. Mandal, S. Goswami, D. K. Maiti	2017	A highly selective “ON–OFF” probe for colorimetric and fluorometric sensing of Cu ²⁺ in water	<i>RSC Advances</i>	3	7, 11312-11321

41	S. Mandal, Y. Sikdar, D. K. Maiti, R. Sanyal, D. Das, A. Mukherjee, S. K. Mandal, J. K. Biswas, A. Bauzá, A. Frontera, S. Goswami	2017	New pyridoxal based chemosensor for selective detection of Zn ²⁺ : application in live cell imaging and phosphatase activity response	<i>Journal of Photochemistry and Photobiology A: Chemistry</i>	3	334, 86–100)
40	B. Deb, S. Debnath, A. Deb, D. K. Maiti* and S. Majumdar*	2017	Copper nanoparticles catalyzed N-H functionalization: An highly efficient solvent-free N- <i>tert</i> -butyloxycarbonylation strategy	<i>Tetrahedron Letters</i>	3	58, 629–633
39	M. Chakraborty, B. Deb, B. Dey, S. A. Hussain, S. Majumdar and D. K. Maiti	2017	Amberlite IR 120H ⁺ Catalyzed N-C/C-N Coupled Cyclisation Strategy to Give Imidazoles: Design and Fabrication of Organic Nanomaterial with AFM Imaging	<i>ChemistrySelect</i>	HQ -NJ	2, 241 – 245
35	B. Naskar, R. Modak, Y. Sikdar, A. Banik, T. K. Dangar, S. Mukhopadhyay, D. Mandal, S. Goswami, D. K. Maiti	2016	A simple Schiff base molecular logic gate for detection of Zn ²⁺ in water and its bio-imaging application in plant system	<i>Journal of Photochemistry and Photobiology A: Chemistry</i>	3	321, 99–109
34	A. Chakraborty, S. Majumdar and D. K. Maiti	2016	Selective exploitation of acetoacetate carbonyl groups using imidazolium based ionic liquids: Synthesis of 3-oxo-amides and substituted benzimidazoles	<i>Tetrahedron Letters</i>	3	57, 3298–3302
33	A. Chakraborty, S. Majumdar and D. K. Maiti	2016	Anion dependent imidazolium protic ionic liquid catalyzed solvent-free general strategy for chemoselective Fmoc and Cbz protection of amines and their chiral analogues	<i>ChemistrySelect</i>	HQ -NJ	1, 2668 – 2672
32	A. K. Mahapatra, S. Mondal, S. K. Manna, K. Maiti, R. Maji, S. S. Ali, S. Mondal, Md. R.	2016	Highly Selective Ratiometric Fluorescent Probes for Detection of Perborate Based on Excited-State Intramolecular Proton Transfer (ESIPT) in	<i>ChemistrySelect</i>	HQ -NJ	1, 99–109

	Uddin, D. K. Maiti		Environmental Samples and Living Cells			
31	A. K. Dash, C. K. Jaladanki, D. Singh, A. K. Tripathi, V. K. Gupta, P. V. Bharatam, D. Mukherjee, D. K. Maiti	2016	Tandem <i>gem</i> -dichlorination and nitrile oxide generation from chlorochromene aldoximes: synthesis of a new class of room temperature fluxional 4-chromanone derivatives	<i>ChemistrySelect</i>	HQ-NJ	1, 567–571
30	A. Chakraborty, S. Bhattacharjee, S. Majumdar, S. Debnath, D. K. Maiti	2016	Silica-ferric chloride (SiO ₂ -FeCl ₃) catalyzed selective synthesis of 2-substituted benzimidazole through Csp ² -Csp ³ bond cleavage of β (beta)-ketoester/amide	<i>Tetrahedron Letter</i>	3	57, 4595–4598
29	D. Dey, M. K. Sarangi, A. Ray, D. Bhattacharyya, D. K. Maiti	2016	Excited state hydrogen bonding fluorescent probe: Role of structure and environment	<i>Journal of Luminescence</i>	3	173, 105-112
28	B. Naskar, R. Modak, D. K. Maiti, S. K. Mandal, J. K. Biswas, T. K. Mondal, S. Goswami	2016	Syntheses and non-covalent interactions of naphthalene-bearing Schiff base complexes of Zn(II), Co(III), Cu(II) and V(IV): selective detection of Zn(II)	<i>Polyhedron</i>	2	117, 834-846
27	A. Mahapatra, S. Mondal, S. K. Manna, K. Maiti, R. Maji, S. S. Ali, S. Mandal, Md. R. Uddin, 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]	<i>Dalton Transactions</i>	4	44, 6490-6501.
26	S. Khamarui, R. Maiti, D. K. Maiti*	2015	Reactant cum solvent water: generation of transient λ ³ -hypervalent iodine, its reactivity, mechanism and broad application	<i>RSC Advances</i>	3	5, 106633-106643
25	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	<i>RSC Advances</i>	3	5, 73346-73353
24	Swapam Majumdar, Mithun Chakraborty, Nabyendu Pramanik and Dilip K. Maiti*	2015	Grindstone chemistry: protic ionic liquid-substrate tuned green synthesis of 1,2-disubstituted and 2-substituted benzimidazoles with outstanding selectivity.	<i>RSC Advances</i>	3	5, 51012-51018

23	S. Majumdar, J. De, A. Chakraborty, A. Pal, I. Ghosh, R. K. Nath, S. Chowdhury, D. Roy and D. K. Maiti*	2015	General solvent-free ionic liquid catalyzed C-N/C-C coupled cyclization to diverse dihydropyrimidinones and new organic materials: Langmuir-Blodgett film study.	<i>RSC Advances</i>	3	5, 24681-24686
22	H. Rahaman, R. Laha, S. K. Ghosh and D. K. Maiti*	2015	Manganese Oxide (Mn ₂ O ₃) Microrods: An Efficient Catalyst for Selective Oxidation of Alcohols to Aldehydes.	<i>RSC Advances</i>	3	5, 33923-33929
21	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	<i>RSC Advances</i>	3	5, 3200-3205
20	S. Mandal, Y. Sikdar, G. P. Maiti, S. K. Mandal, J. K. Biswas, S. Goswami ' D. K. Maiti	2015	A new pyridoxal based fluorescence chemo-sensor for detection of Zn(II) and its application in bio imaging	<i>RSC Advances</i>	3	5, 726659-72669
19	S. Majumdar,* J. Hossain, R. Natarajan, A. K. Banerjee and D. K. Maiti*	2015	Phthalate tethered strategy: carbohydrate nitrile oxide cycloaddition to 12-15 member chiral macrocycles with alkenyl chain length controlled orientation of bridged isoxazolines	<i>RSC Advances</i>	3	5, 106289-106293
18	N. Pramanik, S. Sarkar, D. Roy, S. Debnath, S. Ghosh, S. Khamarui and Dilip 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	<i>RSC Advances</i>	3	5, 101959-101964
17	S. Majumdar, J. De, A. Chakraborty and D. K. Maiti	2014	General solvent-free highly selective N-tert-butyloxycarbonylation strategy using protic ionic liquid as an efficient catalyst	<i>RSC Advances</i>	3	4, 24544-24550
16	S. Majumdar, M. Chakraborty, D. K. Maiti	2014	Activation of 1, 3-dioxolane by protic ionic liquid in aqueous media: A green strategy for the selective cleavage of acetals and	<i>RSC Advances</i>	3	4, 16497-16502

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15	K. S. Gayen and D. K. Maiti*	2014	AuCl ₃ catalyzed [3+2+1] cycloaddition: first use of aldehyde as a carbon monoxide-like carbon synthon for triple C-C coupling	<i>RSC Advances</i>	3	4, 10204-10207
14	S. Das, S. Jana, P. Chakraborty, R. Sanyal, N. Guchhait, E. Zangrando and D. Das, D. K. Maiti	2014	Chemodosimetric Detection of the Acetate Anion by Using the Template Reaction Method via a Fluorescence "Turn-Off" Signal	<i>European Journal of Inorganic Chemistry</i>	3	5432-5442
13	R. Ghosh, A. Chakraborty, D. K. Maiti and V. G. Puranik	2005	Chiral 2-C-methylene glycosides and carbohydrate derived pyrano[2,b][1]-benzopyrans: Synthesis via InCl ₃ catalyzed stereoselective Ferrier rearrangement of 2-C-acetoxymethyl glycal derivatives.	<i>Tetrahedron Letters</i>	3	46, 8047-8051
12	D. K. Maiti, P. K. Chakraborty, D. C. Chugani, O. Muzik, T. J. Mangner, H. T. Chugani	2005	Synthesis procedure for routine production of [carbonyl- ¹¹ C]Desmethyl-WAY-100635.	<i>Applied Radio Isotope</i>	1	62, 721-727
11	R. Ghosh, S. Maiti, A. Chakraborty and D. K. Maiti	2004	In(OTf) ₃ catalysed simple one-pot synthesis of alpha-amino phosphonates.	<i>Journal of Molecular Catalysis A: Chemical</i>	4	210, 53-57
10	R. Ghosh, A. Chakraborty, D. K. Maiti,	2003	In(OTf) ₃ -A New Efficient Lewis Acid Catalyst for Stereoselective C-Glycosylation Reactions of Glycal Derivatives,	<i>Synthetic Communications</i>	1	33, 1623-1632
9	D. K. Maiti, P. K. Bhattacharya,	1998	A New Route to Nitrile Oxides from Primary Alkylhalides for <i>in situ</i> Dipolar Cycloadditions,	<i>Synlett</i>	2	385-386
8	D. K. Maiti, P.K. Bhattacharya	1998	New Chiral Borohydride Based Reducing Agent: Asymmetric Reduction of 9-Anthrole Trifluoromethyl Ketone and Other Carbonyl Compounds, ,	<i>Synthetic Communications</i>	1	28, 99-108
7	D. K. Maiti, P. K. Bhattacharya	1998	Synthesis of Isoxazolines by Reacting a Nitrile Oxide and Functionalized Olefin	<i>Journal of ChemTech</i>	-	46

6	D. K. Maiti, P. P. Ghosgdastidar, P. K. Bhattacharya	1996	First Asymmetric Synthesis of (S)-(-)-2-(1-Hydroxyethyl)quinazolin-4(3H)-one (Chrysogenine), a Fungal Metabolite, and Conformation of the Proposed Absolute Configuration	<i>Journal of Chemical Research</i>	-	306-307
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(c) National Publications

5	S. Khamarui, Y. Saima, K. S. Gayen, D. Roy, S. Samanta, D. K. Maiti*	2013	Role of Metal Nanoparticles and Nanoreactor in Organic Synthesis	<i>Emerging Frontiers in Chemistry</i>	-	5-10 (ISBN:978-3-659-32996-8)
4	K. S. Gayen, D. Roy, S. Samanta, Y. Saima, S. Khamarui, D. K. Maiti*	2013	Green Chemistry: Metal Nanoparticles are Outstanding Catalyst in Water Medium which can Reduce Impact on Environmental Hazards	<i>Environmental Hazards</i>	-	10-13 (ISSN: 81-87-500-67-0)
3	D. Dhara, T. Sengupta, S. Khamarui, S. Ghosh and D. K. Maiti	2013	Sequential activation of σ -bonds : Intermolecular cascade annulation with migration and remote functionalization	<i>Journal of Indian Chemical Society</i>	-	90, 1663-1673 (Invited paper)
2	R. Ghosh, A. Chakraborty, D. K. Maiti,	2003	InCl ₃ .3H ₂ O: An Efficient Lewis Acid Catalyst for Stereoselective O-Glycosylation Reactions of Per-O-acetylglycopyranosyl Trichloroacetimidates,	<i>Indian Journal of Chemistry</i>	-	42B, 602-604
1	R. Ghosh, A. Chakraborty, S. B. Maiti, D. K. Maiti	2002	InCl ₃ -An Efficient Lewis Acid Catalyst for Stereoselective O-Glycosidation Reactions	<i>Indian Journal of Chemistry</i>	-	41B , 583-585

12. Professional Development Activities

13	Organizing Secretary of a International Conference on “Natural Product and Synthetic Organic Chemistry” will be organized by PACF, Kolkata, December 27-29, 2017.
12	Organized CU Centenary Program of Science College with the Noble Lecture Delivered by Professor E. C. Negishi (NL 2010) in 27 th January 2016.
11	Organized International Symposium with Royal Society of Chemistry (RSC, London) – 2015
10	Chemistry Local Sectional Secretary of Chemical Sciences for the Centenary Indian Science Congress-

	2013
9	Coordinator of purchasing committee and in-charge of GC-MS-2009
8	Joint Secretary of a National Conference on Recent Topics in Organic Chemistry, CAS-Dept. Of Chemistry, CU-2008
7	Coordinator of Refresher course in Chemistry, Dept of Chemistry, CU-Academic Staff College, UGC-2008
6	In charge of NMR machine, 2007-2014
5	Member of SAP/CAS program, involved in all activities of the program and taking care most of the instruments run under it
4	Member for purchasing committees of instruments for spectroscopy UV-vis-NIR, DLS etc.) and microscopes (Bio-SEM, FE-SEM and HR-TEM)
3	Member of Library Committee, Department of Chemistry
2	Coordinator of 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
1	Preparation and defending the CAS-SAP and DST- FIST projects for the Department of Chemistry, CU
13. Invited Talks and Chairing Sessions in the International/National Conferences	
(a) Abroad	
62	Exploiting Catalytic Csp ³ -H Activation for Selective Annulation. International Symposium, "C-H Activation"(ISCHA2 2014)"; Université de Rennes 1, 35042 Rennes, France (June 30-July 3, 2014)
61	Intermolecular Domino Cyclization Reaction and Diverse Annulation with Pt(IV) Catalyst Originator. 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)
60	Intermolecular Domino Cyclization Reaction to Functional Molecules ENSCP - Chimie Paris Tech, 11, rue P. et M. Curie, 75231 Paris cedex 05, France; (25 th June, 2014)
(b) India (International & National Conferences)	
59	Invited talk on "Organic Electronics" in the National Seminar on Recent Development in Chemical

	Science organized by Barrackpore Rastraguru Surendranath College on 14 th February, 2017.
58	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 26-27 th January, 2017.
57	Invited talk on "Nanoscience and Nanotechnology for Paint Industry" organized by Akzo Nobel Dulux, Mumbai on 30 th Dec., 2016.
56	Keynote Address on Organic Electronics for WORM and RRAM in the International Conference on Nanoscience and Nanotechnology organized by Banaras Hindu University, Banaras (19-22nd Dec, 2016)
55	Invited Talk on Nanoscience and Nanotechnology in the Chembridge Program organized by Amity University, Salt Lake (30th Nov. 2016)
54	Invited talk on Nanocatalysis and Nanofabrication of Organic Resistive Random Access Memory (ORRAM) in the national conference organized by the Indian Chemical Society, Kolkata (1st -2nd August, 2016)
53	Invited talk on "Nanoscience and Organic Electronics" in the DST Inspire Program at VU, Shantiniketan (20-23 th Sept, 2016)
52	Invited talk on "Construction and Exploiting Surfactant Assembled Nanoreactors" at Habra Postgraduate College, on 21 st August, 2016, organized The Surfactant Society of India.
51	Invited talk on "Organic Electronics: Development of Powerful Electrical Switching Memory" in the International Nanotechnology Conference at NIT, Srinagar (25-29 th May, 2016)
50	Fabrication of Diverse Organic Nanomaterials for Construction of High Performance Organic Electronic Devices, IIIM, Jammu, 24 th May, 2016.
49	Diverse Catalysis Using High-Valent Metals and NPs. National symposium, Vidya Sagar University, Midnapore, 29 th February, 2016
48	Bulk and Nanoscale High-Valent Metals for Diverse Catalysis. National symposium, 4-6 February, 2015, Organized by Bardwan University
47	Highly Selective C-C/C-X Coupled Multicomponent Cyclization Catalysis to Functionalized Heterocycles and Carbocycles, <i>Indo-French Seminar</i> , November 4-7, 2015
46	Bulk and Nanoparticles of Metals: Diverse C-H Functionalisation Catalysis to Functional Molecules, Organized by RSC (London), 3 rd December, 2015, Bose Institute, Kolkata
45	Progress of Nanoscience and Organic Electronics. S. S. Sarkar memorial Lecture, RKMV, Belur, 27 th October, 2015
44	Nanoscience and Organic Electronics: An Overview. RTRC, 8-9 th August, 2015, UC, Agartala
43	Diverse Catalysis by High-Valent Metal Catalysts. Department of Chemistry, Tripura University, Tripura, 23 April, 2015
42	Fabrication of Functionalized Nanoparticles for Their Diverse Catalysis. National Symposium National Conference Current Perspectives on Research on Chemical Sciences, Assam University, Silchar,

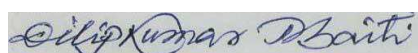
	Assam, March 25-26, 2015
41	sp ³ C-H Activated Diverse Functionalization Catalysis. Chemistry for Better Tomorrow-Current Trends and Opportunity, SKBU, 2-3 December, 2014
40	Catalyst Originator: ArCH(OMe) ₂ Generates Pt ^{IV} -Catalyst for sp ³ C-H Activated Diverse Annulation. International Symposium on Nature Inspired Initiatives in Chemical Trends, IICT Hyderabad, India (4-6 th March-2014)
39	Exploiting Carbohydrates for C-C and C-N Bond-Forming Annulation and Organic Electronics. International Symposium on Emerging Trends in Glycoscience and Glycotechnology Dept. of Chemistry, IIT Delhi, India (8-10 January 2014)
38	Fabrication of Nanomaterials and Development of Their Nanoscale Properties. International Symposium on Material Science; Dept. of Physics, Tripura University, Agartala, India (5-6 th February, 2013)
37	Intermolecular Domino Cyclization Reaction to Functional Molecules. International Symposium on Science for the Future; Indian Science Congress and University of Calcutta, India (3-7 th January, 2013)
36	Fabrication of Nanoreactor, Nanoparticle and Nanostructured Materials and Development of Their Novel Properties. Indian Chemical Society, Bhopal, India (3-16 th December, 2012)
35	Fabrication of Low and High-Valent Metal Nanoparticles and Their Novel Properties. Behala College, Kolkata, India (10 th December, 2012)
34	Domino Cyclization Reaction Indian Institute of Technology, Guwahati Guwahati, India (2-4 th December, 2012)
33	Synthesis of Organic Compounds in a Surfactant Assembled Nanoreactor Built in Water. International Symposium on Organic Chemistry; National Organic Symposium Trust (NOST), Agra, India (10-14 th October, 2012)
32	Nanoscience: Cu(0)-Nanoparticles is an Efficient Reductive Catalyst in Water Medium. M. B. B. College & National Institute of Technology, Agartala, India (20-21 st July, 2012)
31	Packing of Small Molecules is the Key to Access Nanoreactors, Nanomaterials and Their Unique Nanoscale Properties. Dept. of Physics, Tripura University, Agartala, India (3-4 th February, 2012)
30	Utilization of Non-chemical Water as a Solvent in Organic Synthesis for Protecting Environment: Design, Scope, Mechanism and Synthesis. Dumkal College Basantapur, Murshidabad (6-7 th January, 2012)
29	Construction of Nanoreactor in Non-conventional Reaction Medium: Reaction, Scope and Construction of Functional Molecules. Dept. of Chemistry, M. M. College, Kolkata, India (14 th Dec.,

	2011)
28	Design and Fabrication of Nanoreactors for Synthesis of Functional Molecules: Properties, Scope, Reaction and Mechanism. Dept. of Chemistry, Tripura University, Agartala, India (11 th Nov, 2011)
26	Travelling Through the Nano World. Maulana Azad College, Kolkata, India (3 rd November, 2011)
25	Selective Activation of C-H and N-H Bond: Construction of Novel Sugar-Based Chiral Heterocycles. Indian Institute of Technology Kharagpur, Kharagpur, India (27 th June, 2011)
25	Construction of Surfactant-Assembled Nanoreactors in Non-conventional Media: Properties, Scope and Synthesis with Synthetic Efficiency. Indian Institute of Technology Gwahati, Gwahati, India (12-13 March, 2011)
24	π -Bond Activated Vicinal Difunctionalization and Cyclization with Synthetic Efficiency: Synthesis of Heterocyclic Scaffolds and Their Fabricated Materials. University of Kalyani, Kalyani, India (25 th February, 2011)
23	An Absolute Regio- and Stereocontrolled Formal 1,3-Dipolar Cycloaddition with Organic Lewis Acid: Reaction, Scope and Construction of Functional Molecules. Bengal Engineering College and Science University- Chemical Research Society of India (CRSI); 6 th August, 2010
(c) Presentation in Orientation and refresher Courses	
22	Design and Synthesis of Organic and Inorganic Nanostructured Materials for Nanodevices. Confederation of Indian Industry (CII) and University of Calcutta, CRNN, 10 th June, 2009
21	Progress Organic Electronics: An Overview 115 th Orientation Program-2016, ASC-CU
20	Progress of Nano-World and Organic Electronics: An Overview 114 th Orientation Program-2016, ASC-CU
19	Progress of Nano-World and Organic Electronics: An Overview in 113 th Orientation Program-2016, ASC-CU
18	sp^3 C-H Activated Diverse Functionalization Catalysis in Refresher Course in Chemistry, 16 th August-6 th September, 2015, CU
17	Nanoscience and Organic Electronics: An Overview in Refresher Course in Chemistry, 16 th August-6 th September, 2014, CU
16	<i>Progress of Nanoscience and Organic Electronics: An Overview</i> in RCC-JU-2013
15	Progress of Nanoscience and Organic Electronics: An Overview in Refresher Course in Chemistry, September, 2013, Bardwan University
14	Nanoscience & Organic Electronics in Refresher Course in Chemistry, 16 th August-6 th September, 2013, CU
13	Packing of Small Molecules: Easy Access to Nanoreactors, Metal Nanoparticles, Organic Materials and Their Novel Properties, Refresher Course in Chemistry, 22 nd August-11 th September, 2012, CU
12	Construction of Surfactant-Assembled Nanoreactors in Non-conventional Media: Properties, Scope and Synthesis with Synthetic Efficiency in Refresher Course in Chemistry, 22 nd August-14 th

	September, 2011, CU
11	Nanoscience and Nanotechnology: A New Field of Dream in Refresher Course in Chemistry 22 nd August-14 th September, 2010, CU
10	Traveling Through the Nano Worlds in Refresher Course in Chemistry 22 nd August-14 th September, 2009, CU
9	Nanoscience and Nanotechnology in Refresher Course in Chemistry 22 nd August-14 th September, 2008, CU
8	DRUGS, RECEPTORS, DRUG - RECEPTOR INTERACTIONS AND THEIR IMAGING: AN OVERVIEW, in Refresher Course in Chemistry 22 nd August-14 th September, 2007, CU
7	Human Brain Imaging by PET Technology in Refresher Course in Chemistry 22 nd August-14 th September, 2006, CU
6	Positron Emission Tomography Imaging in Refresher Course in Chemistry 22 nd August-14 th September, 2005, CU
(d) Chairing Sessions in the National/International Conferences	
5	International Nanotechnology Conference at NIT, Srinagar, 25-29 th May, 2016.
4	Bulk and Nanoscale High-Valent Metals for Diverse Catalysis. National symposium, 4-6 February, 2015, Organized by Bardwan University
3	National Conference on Chemical Biology, Xt. Xaviers College, Kolkata, 27-29 th January, 2016
2	National Conference on Nanoscience and Nanotechnology, RTRC, 8-9 th August, 2015, UC, Agartala
1	National symposium on Green Chemistry and Nano Sciences, M. B. B. College & National Institute of Technology, Agartala, India (20-21 st July, 2012)
14. Principal Investigator of Funded Projects: 8 (One Under process/DST/~Rs 1 crore)	
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. 29.53 Lakh; Status: Running (1 st Year); Duration: 1 st January, 2016 to Till date
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: Running Completed; Duration: July 2013 to June, 2016
5	Development of Robust Cyclization Processes Involving Selective Activation of C-H, N and π -Bonds toward Construction of Ubiquitous Frameworks: Studies on Mechanistic Insight with DFT Calculation. 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: 18 th June 2012 to 17 th 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: 1 st October 2010 to 30 th 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
15. Research Interests	
1	Organic nanoelectronics for memory chips, solar cell and energy storage application New organic nanomaterials are designed, synthesized, fabricated and characterized for development of novel organic electronic devices
2	Nanocatalysis Fabrication of functionalized metal nanoparticles for developing novel nanocatalysis towards synthesis of functional molecules
3	Nanoreactor Design, synthesis and development of properties of surfactant, fabrication of surfactant-assembled nanoreactor in nonconventional media such as water, and development of new hypervalent iodine as nonmetallic Lewis acid-like oxidant for C-H, N-H and π -bond activated chemo-, regio- and stereoselective fundamental organic transformations, oxidative cyclization and direct transfer of halides for halogenation reaction
4	Metallic nanomaterials Fabrication of functionalized high and low-valent metal nanomaterials, their imaging by special technique such as TEM-EELS, development of their interesting magnetism, and outstanding reductive and oxidative catalytic properties
5	Organic nanomaterials Design, synthesis and fabrication of organic nanostructured materials, investigating their aggregation induced enhanced emission (AIEE), optical properties and construction of organic nanodevices for high-tech applications
6	Virtual nanolab: ATK software used to understand the driving force operating between the nanobuilding blocks in

	nanostructured organic materials and also to design high-tech devices involving organic electronics
7	Catalysis Development of new catalytic property of rare earth and transition metal towards synthesis functional molecules. Recently we have introduced <i>Catalyst Originator</i> - a new concept in catalysis
8	Activation of bonds for reaction Studies on Csp ³ /sp ² /sp-H and π -bond activated functionalization, domino and annulation reactions towards syntheses of ubiquitous organic architectures and valuable synthons
9	NHC carbenes We design and synthesise of <i>N</i> -Heterocyclic carbenes (NHC), the mono- and bimetallic as well as chiral analogues and develop as efficient catalysts for asymmetric C-H bond functionalization and other fundamental reactions
10	Ionic liquids Imidazolium-based protic and other ionic liquids are used as catalysts in aqueous medium for valuable protection, deprotection, functionalization and annulation processes
11	Carbohydrate chemistry Glycal and related sugar chemistry and their application as a potential drug and organic nanomaterials in organic electronics
12	Mechanistic study Investigating reaction mechanism using labelling experiments and in-house ATR-Mid-IR technology, UV-vis-NIR, fluorescence and other techniques
13	Theoretical studies Theoretical calculation for geometrical optimization of the target functional molecules with multiple stereogenic centers, intermediates and transition states of the ongoing reactions are executed using density functional theory (DFT) as implemented in Gaussian-09 using in-house computer cluster
14	Medicinal Chemistry Development of new generation drugs for malaria and tuberculosis (joint in a national program) with OSDD, CSIR, Govt. of India



(Dr. DILIPKUMAR MAITI)

Date: 28/02/2017