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 h-index : 40
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 Citations : 4850

**Professional Career**

2015-Present	Associate Professor, IIT Bombay, Department of Chemistry, India
2010-2015	Assistant Professor, IIT Bombay, Department of Chemistry, India
2008-2010	Postdoctoral Fellow, Massachusetts Institute of Technology, USA (Supervisor: Prof. Stephen L. Buchwald)

Academic Training

2003-2008	Ph.D., Department of Chemistry, Johns Hopkins University, USA
2001-2003	M.Sc., Silver Medalist, IIT Bombay, India
1998-2001	B.Sc in Chemistry (Hons), University of Calcutta, India

Awards

2017	OPPI - Young Scientist Award
2015	Alkyl Amines - Young Scientist Award
2014	INSA - Young Scientist Award
2014	ISCB - Young Scientist Award
2014	AVRA - Young Scientist Award
2014	CRSI Young Scientist Award
2013	Thieme Chemistry Journal Award
2013	IIT Bombay-IRCC Young Scientist Award
2013	IAS-Young Associate
2013	NASI- Young Scientist Platinum Jubilee Award

Editorial Appointments

2017-Present	Associate Editor, <i>The Journal of Organic Chemistry</i>
2018-Present	Editorial Advisory Board, <i>Organometallics</i>
2018-Present	International Advisory Board, <i>Chemistry-An Asian Journal</i>
2018-Present	Early Career Board Member, <i>Inorganica Chimica Acta</i>
2018-Present	Editorial Board Member, <i>Current Organocatalysis</i>

Full List of Publications

- 124)** Iterative Arylation of Amino Acids and Aliphatic Amines *via*-C(sp³)-H Activation: Experimental and Computational Exploration
 Guin, S.; Dolui, P.; Zhang, X.; Paul, S.; Singh, V. K.; Pradhan, S.; Chandrashekar, H. B.; S. S. Anjana.; Paton, R. S.; **Maiti, D.** *Angew. Chem. Int. Ed.* **2019**, *58*, 5633.
- 123)** Palladium-Catalyzed Selective *meta*-C–H Deuteration of Arenes: Reaction Design and Applications
 Bag, S.; Petzold, M.; Sur, A.; Bhowmick, S.; Werz, D.; **Maiti, D.** *Chem. Eur. J.* **2019** (ASAP)
- 122)** Fabrication of Amyloid Fibril-Palladium Nanocomposite: A Sustainable Catalyst for C–H Activation and Electrooxidation of Ethanol
 Jayarajan, R.; Kumar, R.; Gupta, J.; Dev, G.; Kadu, P.; Chatterjee, D.; Bahadur, D.; **Maiti, D.**; Maji, S. K. *J. Mater. Chem. A*, **2019**, DOI: 10.1039/C8TA11134K.
- 121)** Game of Directors: Accessing Remote *meta*- and *para*-C–H Bonds With Covalently Attached Directing Groups
 Dey, A.; Sinha, S. K.; Achar, T. K.; **Maiti, D.** *Angew. Chem. Int. Ed.* **2018**, DOI: 10.1002/anie.201812116.

- 120)** Palladium Catalyzed Regioselective C4-Arylation and Olefination of Indoles and Azaindoles
Thrimurtulu, N.; Dey, A.; Singh, A.; Pal, K.; **Maiti, D.**; Volla, C. M. R. *Adv. Synth. Catal.* **2018**. DOI: 10.1002/chem.201804351.
- 119)** Trifluoromethylation of Allenes: An Expedient Access to α -Trifluoromethylated Enones at Room Temperature
Brochetta, M.; Borasari, T.; Gandini, A.; Porey, S.; Deb, A.; Casali, E.; Chakraborty, A.; Zanoni, G.; **Maiti, D.** *Chem. Eur. J* **2019**, *25*, 750.
- 118)** Role of hexafluoroisopropanol in C–H activation
Sinha, S. K.; Bhattacharya, T.; **Maiti, D.** *React. Chem. Eng.*, **2019**, *4*, 244.
- 117)** Regiocontrolled Remote C-H Olefination of Small Heterocycles
Achar, T. K.; Ramakrishna, K.; Pal, T.; Porey, S.; Dolui, P.; Biswas, J. P.; **Maiti, D.** *Chem. Eur. J.* **2018**, *24*, 17906.
- 116)** Mechanistic Insights on Orthogonal Selectivity in Heterocycle Synthesis
Maji, A.; Yernauidu, R.; Sunoj, R. B.; **Maiti, D.** *ACS Catal.* **2018**, *8*, 10111.
- 115)** Template assisted *para*-C–H activation
Sinha, S. K.; Sasmal, S.; Lahiri, G. K.; **Maiti, D.** *J. Indian. Chem. Soc* **2018**, *95*, 743.
- 114)** Selective C–H Halogenation over Hydroxylation by Non-heme Iron(IV)-oxo
Rana, S.; Biswas, J. P.; Sen, A.; Clemency, M.; Blondin, G.; Latour, J-M.; Rajaraman, G.; **Maiti, D.** *Chem. Sci.* **2018**, *9*, 7843.
- 113)** H-Bonded Template Assisted *para* Selective Carboalkylation Using Soft Electrophilic Vinyl Ether
Maji, A.; Dahiya, A.; Lu, G.; Bhattacharya, T.; Liu, P.; Zanoni, G.; **Maiti, D.** *Nat Commun*, **2018**, DOI: 10.1038/s41467-018-06018-2.
- 112)** Stille Cross-Coupling Reaction: Early Years to the Current State of the Art
Ardhapure, V. A.; Gholap, A.; Schulzke, C.; Kapdi, A.; **Maiti, D.** (Invited Contribution) DOI: 10.1016/B978-0-12-811292-2.00002-7.
- 111)** Manganese-Salen Catalyzed Oxidative Benzylic Chlorination
Sasmal, S.; Rana, S.; Lahiri, G. K.; **Maiti, D.** (Invited Contribution) *J. Chem. Sci.*, **2018**, *95*, 743.
- 110)** Combining Transition Metals and Transient Directing Groups for C–H Functionalizations
Bhattacharya, T.; Pimparkar, S.; **Maiti, D.** (Invited Contribution) *RSC Adv.*, **2018**, *8*, 19456.
- 109)** Recent Advances in Natural Product Synthesis by C–H activation
Sinha, S. K.; Zanoni, G.; **Maiti, D.** *Asian J. Org. Chem.* **2018**, *7*, 1178.
- 108)** Ruthenium Mediated Distal C–H Activation
Khan, F. F.; Sinha, S. K.; Lahiri, G.K.; **Maiti, D.** (Invited Contribution) *Chem. Asian J*, **2018**, *13*, 2243.
- 107)** Diverse *meta*-C–H Functionalization of Arenes Across Different Linker Lengths
Jayarajan, R.; Das, J.; Bag, S.; Choudhury, R.; **Maiti, D.** *Angew. Chem. Int. Ed.* **2018**, *57*, 7659.
- 106)** Ruthenium-Catalyzed Aerobic Oxidation of Amines
Ray, R.; Hazari, A. S.; Lahiri, G. K.; **Maiti, D.** (Invited contribution) *Chem. Asian J.* **2018**, *13*, 2138
- 105)** Promoting Highly Diastereoselective γ -C–H Chalcogenation of α -Amino Acids and Aliphatic Carboxylic Acids
Guin, S.; Deb, A.; Dolui, P.; Chakraborty, S.; Singh, V.K.; **Maiti, D.** *ACS Catal.* **2018**, *8*, 2664
- 104)** Highly Selective Ruthenium Catalyzed Direct Oxygenation of Amines to Amides
Ray, R.; Hazari, A.S.; Chandra, S.; **Maiti, D.**; Lahiri, G. K. *Chem. Eur. J.* **2017**, *24*, 1067
- 103)** Fe-polyaniline Composite Nanofiber Catalyst for Chemoselective Hydrolysis of Oxime
Mahato, S. K.; Bhaumik, M.; Maji, A.; Dutta, A.; **Maiti, D.**; Maity, A. *J. Colloid Interface Sci.* **2018**, *513*, 592.
- 102)** Phosphine Catalysed (5 +1) Annulation of Ynone/cinnamates with Primary Amines
Ametovski, J.; Dutta, U.; Burchill, L.; **Maiti, D.**; Lupton, D.W; Hooper, J.F. *Chem. Commun.* **2017**, *53*, 13071.
- 101)** Experimental and Computational Studies on Remote γ -C(*sp*³)-H Silylation and Germanylation of Aliphatic Carboxamides
Deb, A.; Singh, S.; Seth, A.; Pimparkar, S.; Bhaskararao, B.; Guin, S.; Sunoj, R. B.; **Maiti, D.** *ACS Catal.* **2017**, *7*, 8171.

- 100)** Experimental and Computational Exploration of *para*-Selective Silylation with a Hydrogen-Bonded Template
Thrimurtulu, N.; Dey, A.; Singh, A.; Pal, K.; **Maiti, D.**; Volla, C. M. R. *Angew. Chem. Int. Ed.* **2017**, *56*, 14903.
- 99)** Incorporating Unbiased, Unactivated Aliphatic Alkenes in Pd(II)-Catalyzed Olefination of Benzyl Phosphonamide
Seth, K.; Bera, M.; Brochetta, M.; Agasti, S.; Das, A.; Gandini, A.; Porta, P.; Zanoni, G.; **Maiti, D.** *ACS Catal.* **2017**, *7*, 7732.
- 98)** Palladium Catalyzed Direct Aliphatic C(*sp*³)-H Alkenylation with Alkenes and Alkenyl Iodides
Thrimurtulu N.; Volla, C. M. R.; Maity, S.; Khan, S.; **Maiti, D.** *Chem Commun.* **2017**, *53*, 12457.
- 97)** Pd-Catalyzed C-H Arylation of Pyridazine Based Fused 1,2,4-triazoles: Overriding Selectivity at the Usual Position by Undermining of Preferred Chelate Formation
Srinivasan, R.; Dey, A.; Nagarajan, N. S.; Kumaran, R. S.; Gandhi, T.; **Maiti, D.** *Chem. Commun.*, **2017**, *53*, 11709.
- 96)** Remote *meta*-C-H Cyanation of Arenes Enabled by Pyrimidine Based Auxiliary
Bag, S.; Jayarajan, R.; Dutta, U.; Chowdhury, R.; Mondal, R.; **Maiti, D.** *Angew. Chem. Int. Ed.* **2017**, *56*, 12538.
- 95)** Synthesis of Cu-catalysed Quinazolinones Using a C(*sp*³)-H Functionalisation/ Cyclisation Strategy
Gholap, A. V. A.; Maity, S.; Schulzke, C.; **Maiti, D.**; Kapdi, A. R. *Org. Biomol. Chem.* **2017**, *15*, 7140.
- 94)** Photoelectrocatalytic Reduction of CO₂ into C1 Products by Using Modified-Semiconductor Based Catalyst Systems
Dey, A.; **Maiti, D.**; Lahiri, G.K. *Asian J. Org. Chem.* **2017**, *6*, 1519.
- 93)** Palladium Catalyzed Benzofuran and Indole Synthesis by Multiple C-H Functionalizations
Agasti, S.; Dey, A.; **Maiti, D.** *Chem. Commun.*, **2017**, *53*, 6544.
- 92)** Catalytic Arene *meta*-C-H Functionalization Exploiting a Quinoline Based Template
Datta, U.; Modak, A.; Bhaskararao, B.; Bera, M.; Bag, S.; Mondal, A.; Lupton, D. W.; Sunoj, R. B; **Maiti, D.** *ACS Catal.*, **2017**, *7*, 3162.
- 91)** Palladium Catalyzed Remote *meta*-Selective C-H Bond Silylation and Germanylation
Modak, A.; Patra, T.; Chowdhury, R.; Raul, S.; **Maiti, D.** *Organometallics*, **2017**, *36*, 2418.
- 90)** Palladium Catalyzed Deformylation Reactions with Detailed Experimental and in Silico Mechanistic Studies
Modak, A.; Rana, S.; Phukan, A. K.; **Maiti, D.** *Eur. J. Org. Chem.* **2017**, 4168.
- 89)** Introducing Unactivated Acyclic Internal Aliphatic Olefins in Cobalt Catalyzed Allylic Selective Dehydrogenative Heck Reaction
Maity, S.; Dolui, P.; Kancherla, R.; **Maiti, D.** *Chem. Sci.* **2017**, *8*, 518.
- 88)** XPhos Ligated Rhodium Catalyzed *meta*-C-H Functionalization of Arenes
Bera, M.; Agasti, S.; Chowdhury, R.; Mondal, R.; Pal, D.; **Maiti, D.** *Angew. Chem. Int. Ed.* **2017**, *56*, 5272.
- 87)** Ligand Controlled Switchable Selectivity in Ruthenium Catalyzed Aerobic Oxidation of Primary Amines
Ray, R.; Chandra, S.; Yadav, V.; Mondal, P.; **Maiti, D.**; Lahiri, G. K. *Chem. Commun.* **2017**, *53*, 4006.
- 86)** Chelation Assisted Palladium Catalyzed Arylation of Aliphatic Carboxylic acid Derivatives
Dey, A.; Pimparkar, S.; Deb, A.; Guin, S.; **Maiti, D.** *Adv. Syn. Catal.*, **2017**, *56*, 3182.
- 85)** Template Assisted *meta*-C-H Alkylation and Alkenylation of Arenes
Bag, S.; Jayarajan, R.; Mondal, R.; **Maiti, D.** *Angew. Chem. Int. Ed.*, **2017**, *56*, 3182.
- 84)** Nickel Catalyzed Deamidative Step-Down Reduction of Amides to Aromatic Hydrocarbons
Dey, A.; Sasmal, S.; Seth, K.; Lahiri, G. K. **Maiti, D.** *ACS Catal.*, **2017**, *7*, 433.
- 83)** Detailed Mechanistic Studies on Palladium Catalyzed Selective C-H Olefination with Aliphatic Alkenes: A Significant Influence of Proton Shuttling
Deb, A.; Hazra, A.; Peng, Q.; Paton, R. S.; **Maiti, D.** *J. Am. Chem. Soc.*, **2017**, *139*, 763.
- 82)** Copper/P(*t*-Bu)₃-Mediated Regiospecific Synthesis of Fused Furans and Naphthofurans
Naveen, T.; Deb, A.; **Maiti, D.** *Angew. Chem. Int. Ed.*, **2016**, *56*, 1111.

- 81) Recent Developments in Palladium Catalysed Natural Products Synthesis via C–H Activation in Strategies for Palladium-Catalyzed Non-Directed and Directed C–H Bond Functionalization
Thrimurtulu, N.; Dey, A.; **Maiti, D.**; Volla, C. M. R.
Latest Trend in Palladium Chemistry. Eds.: Kapdi, A.; **Maiti, D.**; Elsevier: **2017** ISBN: 9780128052549.
- 80) Decarboxylation as the Key Step in C-C Bond Forming Reactions
Patra, T.; **Maiti, D.** *Chem. Eur. J.* **2017**, *23*, 7382.
- 79) Palladium Catalyzed Selective Distal C–H Olefination of Biaryl System Reactions
Maity, S.; Hoque, E.; Dhawa, U.; **Maiti, D.** *Chem. Commun.*, **2016**, *52*, 14003.
- 78) Remote *meta* C–H Bond Functionalization of 2-phenethylsulphonic Acid and 3-phenylpropanoic Acid Derivatives
Modak, A.; Mondal, A.; Watile, R.; Mukherjee, S.; **Maiti, D.** *Chem. Commun.*, **2016**, *52*, 13916.
- 77) Emergence of Unactivated Olefins for Synthesizing Olefinated Arenes
Deb, A.; **Maiti, D.**, *Eur. J. Org. Chem.*, **2017**, 1239.
- 76) Introductory Chapter on C–H Bond Functionalization in Strategies for Palladium-Catalyzed Non-Directed and Directed C-H Bond Functionalization
Dey, A.; Kapdi, A. R.; **Maiti, D.**;
Latest Trend in Palladium Chemistry; Eds.: Kapdi, A.; **Maiti, D.**; Elsevier: **2017** ISBN: 9780128052549.
- 75) Recent advances in distal aliphatic sp^3 C–H functionalization
Dey, A.; Dhawa, U.; **Maiti, D.**
Strategies for Palladium-Catalyzed Non-Directed and Directed C-H Bond Functionalization; Eds.: Kapdi, A.; **Maiti, D.**; Elsevier: **2017**, 327.
- 74) Traceless Directing Group Mediated Branched Selective Alkenylation of Unbiased Arenes
Agasti, S.; Dey, A.; **Maiti, D.** *Chem. Commun.*, **2016**, *52*, 12191.
- 73) A Doubly Biomimetic Synthetic Transformation: Catalytic Decarbonylation and Halogenation at RT by Vanadium Pentoxide
Rana, S.; Pandey, B.; Dey, A.; Haque, R.; Rajaraman, G.; **Maiti, D.** *ChemCatChem*, **2016**, *8*, 3367.
- 72) Reaching the South: Metal Catalyzed Transformation of the Aromatic *para*-Position
Dey, A.; Maity, S.; **Maiti, D.** *Chem. Commun.*, **2016**, *52*, 12398.
- 71) Cobalt Catalyzed sp^2 -C–H Activation and Intermolecular Heterocyclization with Allenes at Room Temperature
Thrimurtulu, N.; Dey, A.; **Maiti, D.**; Volla, C. M. R. *Angew. Chem. Int. Ed.*, **2016**, *55*, 12361.
- 70) Switch to Allylic Selectivity in Cobalt-Catalyzed Dehydrogenative Heck Reactions with Unbiased Aliphatic Olefins.
Maity, S.; Kancharla, R.; Dhawa, U.; Hoque, T.; Pimparkar, S.; Maiti D. *ACS Catal.*, **2016**, *6*, 5493.
- 69) Fibrous Silica Supported Palladium-Nanoparticles (KCC-1- PEI/Pd): A Sustainable Nanocatalyst for Decarbonylation Reactions
Kundu, P. K.; Dhiman, M.; Modak, A.; Chowdhury, A.; Polshettiwar, V.; **Maiti, D.** *ChemPlusChem.*, **2016**, *81*, 1142.
- 68) Simple and Efficient Ruthenium Catalyzed Oxidation of Primary Alcohols with Molecular Oxygen.
Ray, R.; Chandra, S.; **Maiti, D.**; Lahiri, G. K. *Chem. Eur. J.*, **2016**, *22*, 8814.
- 67) Palladium-Catalyzed Directed *para* C–H Functionalization of Phenols
Patra, T.; Bag, S.; Kancharla, R.; Mondal, A.; Dey, A.; Pimparkar, S.; Agasti, S.; Modak, A.; **Maiti, D.** *Angew. Chem. Int. Ed.*, **2016**, *55*, 7751.
- 66) Room-Temperature *meta* Functionalization: Pd(II)-Catalyzed Synthesis of 1,3,5-trialkenyl Arene and *meta*-Hydroxylated Olefin
Bera, M.; Sahoo, S. K.; **Maiti, D.** *ACS Catal.*, **2016**, *6*, 3575.
- 65) Palladium Catalysed *meta*-C–H Functionalization Reactions
Dey, A.; Agasti, S.; **Maiti, D.** *Org. Biomol. Chem.*, **2016**, *14*, 5440.
- 64) Directing Group Assisted *meta*-Hydroxylation by C-H Activation
Maji, A.; Bhaskararao, B.; Singha, S.; Sunoj, R. B.; **Maiti, D.** *Chem. Sci.*, **2016**, *7*, 3147.
- 63) Aryl Nitriles from Alkynes Using *tert*-Butyl Nitrite: Metal-Free Approach to C=C Bond Cleavage

- Dutta, U.; Lupton, D. W.; **Maiti, D.** *Org. Lett.*, **2016**, *18*, 860.
- 62)** Palladium-Catalyzed Olefination of Aryl C-H Bonds by Using Directing Scaffolds
Bag, S.; **Maiti, D.** *Synthesis*, **2016**, *48*, 804.
- 61)** Graphene Oxide Grafted with Iridium Complex as a Superior Heterogeneous Catalyst for Chemical Fixation of Carbon Dioxide to Dimethylformamide
Kumar, S.; Kumar, P.; Deb, A.; **Maiti, D.**; Jain, S. L. *Carbon*, **2016**, *100*, 632.
- 60)** Sequential *meta*-C-H Olefination of Synthetically Versatile Benzyl Silanes: Effective Synthesis of *meta*-Olefinated Toluene, Benzaldehyde and Benzyl Alcohols
Patra, T.; Watile, R. A.; Agasti, S.; Togati, N.; **Maiti, D.** *Chem. Commun.*, **2016**, *52*, 2027.
- 59)** Copper Mediated Decarboxylative Direct C-H Arylation of Heteroarenes with Benzoic Acids
Patra, T.; Nandi, S.; Sahoo, S. K.; **Maiti, D.** *Chem. Commun.*, **2016**, *52*, 1432.
- 58)** Metal Catalyzed Defunctionalization Reactions
Modak, A.; **Maiti, D.** *Org. Biomol. Chem.* **2016**, *14*, 21.
- 57)** The Regioselective Iodination of Quinolines, Quinolones, Pyridones, Pyridines and Uracil
Dutta, U.; Deb, A.; Lupton, D. W.; **Maiti, D.** *Chem. Commun.*, **2015**, *51*, 17744.
- 56)** Remote *para*-C-H Functionalization of Arenes by a D-Shaped Biphenyl Template-Based Assembly
Bag, S.; Patra, T.; Modak, A.; Deb, A.; Maity, S.; Dutta, U.; Dey, A.; Kancherla, R.; Maji, A.; Hazra, A.; Bera, M.; **Maiti, D.** *J. Am. Chem. Soc.*, **2015**, *137*, 11888.
- 55)** Mechanistic Elucidation of C-H Oxidation by Electron Rich Non-heme Iron(IV)-oxo at Room Temperature
Rana, S.; Dey, A.; **Maiti, D.**, *Chem. Commun.*, **2015**, *51*, 14469.
- 54)** Nickel-Catalyzed Insertion of Alkynes and Electron-Deficient Olefins into Unactivated sp^3 C-H Bonds
Maity, S.; Agasti, S.; Earsad, A. M.; Hazra, A.; **Maiti, D.** *Chem. Eur. J.* **2015**, *21*, 11320.
- 53)** Pd(II)-Catalyzed *meta*-C-H Olefination: Constructing Multi-substituted Arenes through Homo-diolefination and Sequential Hetero-diolefination
Bera, M.; Maji, A.; Sahoo, S. K.; **Maiti, D.** *Angew. Chem. Int. Ed.* **2015**, *54*, 8515.
Agasti, S.; Maity, S.; Szabo, K. J.; **Maiti, D.** *Adv. Synth. Catal.*, **2015**, *357*, 2331.
- 52)** Palladium-Catalyzed Synthesis of 2,3-disubstituted Benzofurans: An Approach Towards the Synthesis of Deuterium Labeled Compounds
Agasti, S.; Maity, S.; Szabo, K. J.; **Maiti, D.** *Adv. Synth. Catal.*, **2015**, *357*, 2331.
- 51)** Divergent Reactivity in Palladium-Catalyzed Annulation with Diarylamines and α,β -Unsaturated Acids: Direct Access to Substituted 2-Quinolones and Indoles
Kancherla, R.; Naveen, T.; **Maiti, D.** *Chem. Eur. J.*, **2015**, *21*, 8720.
- 50)** Palladium-Catalyzed (3+3) Annulation Between Diarylamines and α,β -Unsaturated acids Through C-H Activation: Direct Access to 4-Substituted-2-quinolinones
Kancherla, R.; Naveen, T.; **Maiti, D.** *Chem. Eur. J.*, **2015**, *21*, 8360.
- 49)** Orthogonal Selectivity with Cinnamic Acids in 3-substituted Benzofuran Synthesis Through C-H Olefination of Phenols
Agasti, S.; Sharma, U.; Togati, N.; **Maiti, D.** *Chem. Commun.*, **2015**, *51*, 5375.
- 48)** Iron Catalyzed Regioselective Direct Arylation at C-3 Position of N-alkyl-2-pyridone
Modak, A.; Rana, S.; **Maiti, D.** *J. Org. Chem.*, **2015**, *80*, 296.
- 47)** Aerobic Oxynitration of Alkynes with t BuONO and TEMPO
Dutta, U.; Maity, S.; Kancherla, R.; **Maiti, D.** *Org. Lett.*, **2014**, *16*, 6302.
- 46)** Efficient and Simple Approaches Towards Direct Oxidative Esterification of Alcohols
Ray, R.; Jana, R. D.; Bhadra, M.; **Maiti, D.**; Lahiri, G. K. *Chem. Eur. J.*, **2014**, *20*, 15168.
- 45)** Direct Arylation *via* C-H activation in New Trends in Cross-Coupling: Theory and Applications
Sharma U.; Modak, A.; Maity, S.; Maji; **Maiti, D.** RSC Catalysis series. Eds.; Colacot T, Royal Society of Chemistry London, **2014**, DOI: 10.1039/9781782620259.
- 44)** Meta-Selective Arene C-H Bond Olefination of Arylacetic Acid Using a Nitrile-Based Directing

- Group
Bera, M.; Modak, A.; Patra, T.; Maji, A.; **Maiti, D.** *Org. Lett.*, **2014**, *16*, 5760.
- 43)** Radical Based Strategy toward the Synthesis of 2,3-Dihydrofurans from Aryl ketones and Aromatic Olefins
Naveen, T.; Kancherla, R.; **Maiti, D.** *Org. Lett.*, **2014**, *16*, 5446.
- 42)** Iron Catalysis in Synthetic Chemistry
Rana, S., Modak, A., Maity, S., Patra, T. and **Maiti, D.**; Progress in Inorganic Chemistry. Eds.: Karlin K. D.; **2014**, John Wiley & Sons: Hoboken, New Jersey, 2014. DOI: 10.1002/9781118869994.ch01.
- 41)** Palladium Catalyzed Aryl C–H Olefination with Unactivated, Aliphatic Alkenes
Deb, A.; Bag, S.; Kancherla, R.; **Maiti, D.** *J. Am. Chem. Soc.*, **2014**, *136*, 13602.
- 40)** Palladium-Catalyzed Annulation of Diarylamines with Olefins through C–H Activation direct Access to N-Arylindoles
Sharma, U.; Kancherla, R.; Naveen, T.; Agasti, S.; **Maiti, D.** *Angew. Chem. Int. Ed.* **2014**, *53*, 11895.
- 39)** Direct Synthesis of α -Trifluoromethyl Ketone from (Hetero)arylacetylene: Design, Intermediate Trapping, and Mechanistic Investigations
Maji, A.; Hazra, A.; **Maiti, D.** *Org. Lett.*, **2014**, *16*, 4524.
- 38)** Catalytic Electrophilic Halogenations and Halo-alkoxylations by Non-heme Iron-halides
Rana, S.; Bag, S.; Patra, T.; **Maiti, D.** *Adv. Synth. Catal.* **2014**, *356*, 2453.
- 37)** Predictably Selective (sp^3)C–O Bond Formation through Copper Catalyzed Dehydrogenative Coupling: Facile Synthesis of Dihydro-oxazinone Derivatives
Modak, A.; Dutta, U.; Kancherla, R.; Maity, S.; Bhadra, M.; Mobin, S. M.; **Maiti, D.** *Org. Lett.*, **2014**, *16*, 2602.
- 36)** Synthesis of Bis-heteroaryl Ketones via Removal of Benzylic -CHR- and -CO- Groups
Maji, A.; Rana, S.; Akanksha and **Maiti, D.** *Angew. Chem. Int. Ed.*, **2014**, *53*, 2428.
- 35)** Generation of Arylated Quinones by Iron Catalyzed Oxidative Arylation of Phenols: Formal Synthesis of Phellodonin, Sarcodonin, Leucomelone and Betulinan A.
Deb, A.; Agasti, S.; Saboo, T.; **Maiti, D.** *Adv. Synth. Catal.*, **2014**, *356*, 705.
- 34)** Iron Catalyzed Nitrosation of Olefins to Oximes
Ray, R.; Dutta Chowdhury, A.; **Maiti, D.** Lahiri, G. K. *Dalton Trans.*, 2014, *43*, 38.
- 33)** Palladium-Catalyzed Synthesis of Benzofurans and Coumarins from Phenols and Olefins.
Sharma, U.; Togati, N.; Maji, A.; Manna, S.; and **Maiti, D.** *Angew. Chem. Int. Ed.*, **2013**, *52*, 12669.
- 32)** Nickel-Catalyzed Hydrogenolysis of Unactivated Carbon-Cyano Bonds.
Patra, T.; Agasti, S.; Modak, A.; **Maiti, D.** *Chem. Commun.*, **2013**, *49*, 8362.
- 31)** Oxidative Trifluoromethylation of Unactivated Olefins: An Efficient and Practical Synthesis of α -Trifluoromethyl Ketones.
Deb, A.; Manna, S.; Modak, A.; Patra, T.; Maity, S.; **Maiti, D.** *Angew. Chem. Int. Ed.*, **2013**, *52*, 9747.
- 30)** Stereoselective Nitration of Olefins with tBuONO and TEMPO: Direct Access to Nitroolefins under Metal-free Conditions
Maity, S.; Togati, N.; Sharma, U.; **Maiti, D.** *Org. Lett.*, **2013**, *15*, 3384.
- 29)** Iron-Catalyzed Direct C–H Arylation of Heterocycles and Quinones with Arylboronic Acids
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Conference/Invited talks:

2019

February 4	ACS on campus, IIT Bombay, India
February 5	IICT Hyderabad, India
February 23	St. Xavier's College, Kolkata, India
February 27	Golden Jubilee Celebrations, IIT Bombay, India
March 8	VIT, Vellore, India
March 22	IISER Mohali, India
April 16	IIT Kanpur, India
Upcoming talks	
June 14	ICIQ, Spain
June 21-28	Markovnikov Congress, Moscow, Russia
July 21-25	OMCOS, Heidelberg, Germany
August 25-28	ACS Meeting, San Diego, USA
September 1-6	27 th international Society of Heterocyclic Chemistry Congress (ISHC-27), Kyoto, Japan

2018

January 9	ICCHD Kolkata, India
January 15	Max Planck Institute for Chemical Energy Conversion, Germany
February 3	Marwadi Education Foundation, Rajkot, India
February 6	IIT Madras, India
February 27	Syngene, Bangalore, India
March 27	Org. Chemistry Division, French Chemical Society, France (Plenary lecture)
May 21	University of Pisa, Italy
May 23	University of Siena, Italy
May 25	University of Perugia, Italy
May 29	University of Pavia, Italy
June 4	University of Bern, Switzerland
June 5	University of Fribourg, Switzerland
June 6	University of Basel, Switzerland
June 25	Technical University of Berlin, Germany
June 26	University of Stuttgart, Germany
August 18	JOC ACS Meeting, Boston, USA
August 29	Tokyo Institute of Technology, Japan
August 30	ISCHA-4, Keio University, Japan
September 3	Kyoto University, Japan
November 17	NSETC-2018, IIT-BHU, India
December 5	I-DEC, IISER Bhopal, India
December 19	RDC, NIT Durgapur, India
December 22	NBCC, NISER Bhubaneswar, India

2017

January 10	SABIC, Kolkata, India
February 18	IIT Kharagpur, India
February 27	IIT Madras, India
March 27	NIT Rourkela, India
May 12	Stockholm University, Sweden
May 19	University of Zurich, Switzerland
May 29	Justus Liebig University Giessen, Germany
May 30	Ruhr-University Bochum, Germany
May 31	Technical University of Braunschweig, Germany
June 1	University of Münster, Germany
June 14	EPFL, Switzerland
June 20	University of Rennes, France
June 28	NOS-ACS-JOC Meeting, University of California, US
October 13	OPPI, Mumbai, India
November 29	TIFR, Mumbai, India
December 12	MTIC, NCL Pune, India
December 23	IIT Roorkee, India

2016

March 17	IIT Hyderabad, India
April 15	IIT Indore, India
June 28	CSIR- CSMCRI, Gujarat, India
July 16	Kaleidoscope, Goa, India
July 22	GRC, Stonehill College, MA, USA
October 7	IICT Hyderabad, India
November 22	Syngenta, Goa, India
December 15	ICOS, IIT Bombay, India

2015

January 17	Sivaji University, Maharashtra, India
February 5	CRSI NSC, NCL Pune, India
February 13	Stockholm University, Sweden
April 18	CSIR-CLRI, Chennai, India
June 25	BASF, Mumbai, India
October 10	CSIR-IHBT Palampur, Himachal Pradesh, India
October 17	NDCS, BITS Pilani, India

Patents:

Patent 1: "Decarbonylation of Aldehydes".

IPA No: 3280/MUM/2011; Filed on 23-09-2011

Patent 2: "Stereospecific Synthesis of Nitro Olefin".

IPA No: 3052/Mum/2012; Filed on 06-08-2012

Patent 3: "A process for the Synthesis of Trifluoromethyl Ketones by Trifluoromethylation of Olefins".

IPA No: 1193/Mum/2013; Filed on 13-02-2013

Patent 4: "Palladium-Catalyzed Synthesis of Benzofurans and Coumarins from Phenols and Olefins"

IPA No: 2012/Mum/2013; Filed on 30-05-2013

Patent 5: "Synthesis of Heterocyclic Compounds by Copper Catalyzed Carbon- Heteroatom Bond Formation"

IPA No: 1468/Mum/2014; Filed on 17-02-2014

Patent 6: "Template Assembly"

IPA No: 2421/Mum/2015; Filed on 29-05-2015

Patent 7: "Template-Assisted Method of Selective Functionalization of Remotely Located *para*-C-H Bond Comprised on Arene"

IPA No: 2422/Mum/2015; Filed on 07-08-2015

Patent 8: "Template for Remote *meta*-C-H Functionalization"

Filed on 11-05-2016

Patent 9: "Electron Rich 2-cyanophenole Derivatives as Effective Directing Template for Diverse Remote *meta*-Selective C–H Bond Functionalization: a) Palladium Catalyzed *meta*-Selective Silylation and Germanylation b) Rhodium Catalyzed *meta*-Selective Olefination"
Filed on 26-02-2017

Patent 10: "Pyrimidine-Based Template for *meta*-C–H Cyanation of Arenes"
Filed on 20-05-2017

Patent 11: "Development of Superior 2nd Generation Template for Directed *para*-Selective Functionalizations"
Filed on 03-01-2018

Patent 12: "Development of Bifunctional Templates for Distal C–H Functionalization of Heterocycles"
Filed on 18-05-2018

Research monographs or book chapters published with full details

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Coordination Chemistry Reviews- Guest Editor, Special Issue **2019**

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