|  |  |
| --- | --- |
| **Dr. Debabrata Maiti** Born: December 10th, 1980 in India  Married, Two children  Associate Professor  Department of Chemistry Orchid ID: 0000-0001- 8353-1306  IIT Bombay, Powai Researcher ID: K-5112-2012  dmaiti@chem.iitb.ac.in Website: <https://www.dmaiti.com>  dmaiti@iitb.ac.in  Phone: +91-(0)22-2576-7155    Google Scholar: https://scholar.google.co.in/citations?user=FKwzr1wAAAAJ&hl=en |  |

# 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

# 2020 Humboldt Research Fellowship for Experienced Researchers

2019 FRSC, Fellow of the Royal Society of Chemistry

2019 NASI Scopus Young Scientist Award- Innovation in Engineering and Physical Sciences

# 2020 Visiting Faculty, WRHI, Tokyo Institute of Technology, Japan

# 2020 Visiting Faculty, CAPES, Federal University of Minas Gerais, Brazil

2017 Visiting Faculty, University of Pavia, Italy

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, *The Journal of Organic Chemistry*

2019-Present Editorial Board Member- Chemistry – *A European Journal*

2018-Present Editorial Advisory Board, *Organometallics*

2018-Present International Advisory Board, *Chemistry-An Asian Journal*

2021-Present International Advisory Board*, Asian Journal of Organic Chemistry*

2018-Present Early Career Board Member, *Inorganica Chimica Acta*

2021-Present [Editorial Board Member of](https://benthamscience.com/journals/current-organocatalysis/" \t "_blank)*[J. Het. Chem.](https://benthamscience.com/journals/current-organocatalysis/" \t "_blank)*

2019*-*PresentEditorial Board Member- *Frontier in Chemistry*

2018-Present Editorial Board Member, *Current Organocatalysis*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Citations** | 8343 | | **h-index** | 52 | | **i10 index** | 131 |   Total publication 173 |

**Patent Details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2011 | Decarbonylation of aldehydes | Patent no. 287461 |  | 3280/MUM/2011 |
| 2012 | Stereospecific synthesis of nitroolefins | Patent no 289568 |  | 3052/Mum/2012 |
| 2013 | A process for the synthesis of Trifluoromethyl Ketones by trifluoromethylation of olefins | Patent no 301846 |  | 1193/Mum/2013 |
| 2013 | Palladium Catalyzed Synthesis of Benzofurans and Coumarins from Phenols and Olefins | Patent no 299110 |  | 2012/Mum/2013 |
| 2014 | Synthesis of heterocyclic compounds by cooper catalyzed Carbon-heteroatom bond formation. | Patent no 333989 |  | 1468/Mum/2014 |
| 2015 | Template assembly. | Patent no 351380 |  | 2421/MUM/2015 |
| 2015 | Template-Assited method of selective functionalization of remotely located *para*-CH bond comprised on arene | Patent No. 348282 |  | 2422/MUM/2015 |
| 2016 | Template for Remote *meta*-CH Functionalization |  |  | Application no 201621029854 |
| 2017 | 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 | Patent no 351159 |  | Application no 201721010400 |
| 2017 | Pyrimidine-Based Template for *meta*-CH Cyanation of Arenes | Patent No 351843 |  | Application no 201721027324 |
| 2017 | Development of Superior 2nd Generation Template for Directed *para*-Selective Functionalizations |  |  | Application no 201821005972 |
| 2018 | Development of Bifunctional Templates for Distal CH Functionalization of Heterocycles |  |  | Application no 201821019668 |
| 2019 | A Process for Distal C-H Functionalization |  |  | Application no 201921053680 |

**Publications:**

## 164) Imine as a linchpin approach for *meta*-C–H functionalization.

## Bag, S.; Jana, S.; Pradhan, S.; Bhowmick, S.; Goswami, N.; Sinha, S. K.; Maiti, D. *Nat. Commun.,* 2021 [(](https://pubs.rsc.org/en/content/articlelanding/2021/CC/D0CC07783F" \l "!divRelatedContent&articles" \t "_blank)*[ASAP](https://pubs.rsc.org/en/content/articlelanding/2021/CC/D0CC07783F" \l "!divRelatedContent&articles" \t "_blank)*[)](https://pubs.rsc.org/en/content/articlelanding/2021/CC/D0CC07783F" \l "!divRelatedContent&articles" \t "_blank)

**163)** C–CN Bond Formation: An Overview of Diverse Strategies.

Pimparkar, S.; Koodan, A.; Maiti, S.; Ahmed N. S.; Mostafa, M. M.; Maiti, D. *[Chem. Commun.,](https://pubs.rsc.org/en/content/articlelanding/2021/CC/D0CC07783F" \l "!divRelatedContent&articles" \t "_blank)***[2021 (](https://pubs.rsc.org/en/content/articlelanding/2021/CC/D0CC07783F" \l "!divRelatedContent&articles" \t "_blank)*[ASAP](https://pubs.rsc.org/en/content/articlelanding/2021/CC/D0CC07783F" \l "!divRelatedContent&articles" \t "_blank)*[)](https://pubs.rsc.org/en/content/articlelanding/2021/CC/D0CC07783F" \l "!divRelatedContent&articles" \t "_blank)**

**162)** Hexafluoroisopropanol: The Magical Solvent for Pd-Catalyzed C-H Activation.

Bhattacharya, T.; Ghosh, A.; Maiti, D. *Chem. Sci*., **2021 (*ASAP*)**

**161)** A Catalysis Guide Focusing on C–H Activation Processes.

Carvalho, R. L.; Gleiston, G. D.; Pereira, C. L. M; Ghosh. P.; **Maiti, D.;** da Silva Júnior, E. N. *JBCS,***2021 *(ASAP)***

**160)** Recent development in transition metal-catalyzed C-H olefination.

Ali, W.; Prakash, G.; **Maiti, D.** *Chem. Sci*., **2021 (*ASAP*)**

**159)** Removal and modification of directing groups used in metal-catalyzed C–H functionalization: The magical step of conversion into ‘conventional’ functional groups.

Carvalho. R. L.; Almeida, R. NG.; Karunanidhi. M.; Machado, L. A.; Pedrosa. L. F.; Dolui. P.; **Maiti. D.;** Da Silva Jr. E. N. *Org. Biomol. Chem.***2020 (*ASAP*)**

**158**) Organopalladium Intermediates in Coordination Directed C(sp3) -H Functionalizations

S. S. Anjana.; Dutta, A.; Lahiri. G. K.; **Maiti, D.** *Trends Chem.***2020** (*ASAP*)

**157)**Transition Metal Catalyzed Enantioselective C(*sp2*)–H Bond Functionalization

Achar, T; Maiti, S.; Jana, S.; **Maiti, D.** *ACS Catalysis***2020 *(ASAP)***

**156)**Evolution of Strept(avidin) based artificial metalloenzymes in organometallic catalysis

Mukherjee, P.; **Maiti, D.** *Chem. Commun.***2020 *(ASAP)***

**155)** Transition Metal Catalyzed C-H Allylation Reactions

Dutta, S.; Bhattacharya, T.; Werz, D. B.; **Maiti, D.** *Chem,***2020 *(ASAP)***

**154)** Organic synthesis with the most abundant transition metal- Iron: From rust to multitasking catalysts

Rana, S.; Biswas, J. P.; Paul, S.; Paik, A.; **Maiti, D**. *Chem. Soc*. Rev., **2020** ***(ASAP)***

**153)** Diverse Strategies for Transition Metal Catalyzed Distal C(*sp3*)-H Functionalizations

Das, J.; Guin, S.; **Maiti, D**. *Chem. Sci.*, **2020**, *11*, 10887-10909.Top of Form

Bottom of Form

**152)**Transition Metals and Transition Metals/Lewis Acid Cooperative Catalysis for Directing Group Assisted *para*-C−H Functionalization.

Sasmal, S.; Dutta, U.; Lahiri, G. K.; **Maiti, D.***[Chem. Lett.,](https://www.journal.csj.jp/doi/pdf/10.1246/cl.200500" \t "_blank)***[2020](https://www.journal.csj.jp/doi/pdf/10.1246/cl.200500" \t "_blank)** DOI:10.1246/cl.200500

**151)** A Direct Route to Six and Seven Membered Lactones via γ-C(*sp3*)-H Activation: A Simple Protocol to Build Molecular Complexity.

Das, J.; Dolui, P.; Ali, W.; Biswas, J. P.; Chandrashekar, H. B.; Prakash, G; **Maiti, D.*****Chem. Sci.***, **2020**, ***11***, 9697-9702.

**150)** Fe-catalyzed aziridination is governed by the electron affinity of the active imido-iron species.

Coin, G; Patra, R.; Rana, S; Biswas, J. P.; Dubourdeaux, P; Clémancey, M.; de Visser, S. P.; **Maiti, D.;**Maldivi; Latour, J-M. *ACS Catal.* **2020**, *10*, 10010–10020.

**149)** Copper in Efficient Synthesis of Aromatic Heterocycleswith Single Heteroatom

Pal, T.; Lahiri, G. K.; **Maiti. D.** *[Eur. J. Org. Chem](https://chemistry-europe.onlinelibrary.wiley.com/doi/epdf/10.1002/ejoc.202000688" \t "_blank)***2020** DOI: 10.1002/ejoc.202000688

**148)** [Transition Metal Promoted Cascade Heterocycles Synthesis via C–H Functionalization](https://pubs.acs.org/doi/10.1021/jacs.9b10646" \t "_blank)

Baccalini, A.; Faita, G.; Zanoni, G.; **Maiti. D*.****[Chem. Eur. J.,](https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/chem.202001832" \t "_blank)***[2020](https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/chem.202001832" \t "_blank)*[,](https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/chem.202001832" \t "_blank)****[26,](https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/chem.202001832" \t "_blank)* [9749](https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/chem.202001832" \t "_blank).

**147)** Para-Selective Arylation of Arenes: A Direct Route to Biaryls by Norbornene Relay Palladation.

Dutta, U.; Porey, S.; Pimparkar, S.; Mandal, A; Grover, J; Koodan, A; **Maiti, D**. *Angew. Chem. Int. Ed.***2020,** DOI:10.1002/anie.202005664 and 10.1002/ange.202005664.

**146)** Palladium-catalyzed *meta*-C–H allylation of arenes: A unique combination of pyrimidine-based template and hexafluoroisopropanol.

Bag, S.; K, S.; Mondal, A.; Jayarajan, R.; Dutta, U.; Porey, S.; Sunoj, R. B.; **Maiti. D.** *J. Am. Chem. Soc.* **2020**, *142*, 12453.

**145)** Overriding Ortho Selectivity by Template Assisted Meta-C–H Activation of Benzophenone

Casali, E.; Kalra, P.; Brochetta, M.; Borsari, T.; Gandini, A.; Patra, T.; Zanoni, G.; **Maiti, D.** *[Chem. Commun.](https://pubs.rsc.org/en/content/articlelanding/2020/cc/d0cc03172k" \l "!divAbstract" \t "_blank)***[2020,](https://pubs.rsc.org/en/content/articlelanding/2020/cc/d0cc03172k" \l "!divAbstract" \t "_blank)***[56](https://pubs.rsc.org/en/content/articlelanding/2020/cc/d0cc03172k" \l "!divAbstract" \t "_blank)*[, 7281](https://pubs.rsc.org/en/content/articlelanding/2020/cc/d0cc03172k" \l "!divAbstract" \t "_blank).

**144)** A directing group assisted ruthenium catalyzed approach to access meta-nitrated phenol

Sasmal, S.; Sinha, S. K.; Lahiri, G. K.; **Maiti, D.** *[Chem. Commun.](https://pubs.rsc.org/en/content/articlelanding/2020/cc/d0cc02851g" \l "!divAbstract" \t "_blank)***[2020,](https://pubs.rsc.org/en/content/articlelanding/2020/cc/d0cc02851g" \l "!divAbstract" \t "_blank)***[56](https://pubs.rsc.org/en/content/articlelanding/2020/cc/d0cc02851g" \l "!divAbstract" \t "_blank)*[, 7100](https://pubs.rsc.org/en/content/articlelanding/2020/cc/d0cc02851g" \l "!divAbstract" \t "_blank)

**143)** Diverse meta-C–H Functionalization of Amides

 Gholap, A.; Bag, S.; Pradhan, S.; Kapdi, A. R.; **Maiti, D.***[ACS Catalysis](https://pubs.acs.org/doi/10.1021/acscatal.0c01306" \t "_blank)***[2020,](https://pubs.acs.org/doi/10.1021/acscatal.0c01306" \t "_blank)***[10](https://pubs.acs.org/doi/10.1021/acscatal.0c01306" \t "_blank)*[, 5347](https://pubs.acs.org/doi/10.1021/acscatal.0c01306" \t "_blank)

**142)** Ultrasound-facilitated direct meta-C-H functionalization of arene: A time economical strategy under ambient temperature with improved yield and selectivity

Jayarajan, R.; Chandrashekar, H. B.; Dalvi, A. K.; **Maiti, D.** *Chem. Eur. J,* **2020***, 26,* 11426-11430.

**141)** An update on distal C(*sp3*)−H functionalization involving 1,5-HAT emerging from nitrogen radicals

Goswami, N.; **Maiti. D.** *Israel. J. Chem,* **2020** DOI: 10.1002/ijch.201900172

**140)** Para-Selective Cyanation of Arenes by H-Bonded Template.

Pimparkar, S.; Bhattacharya, T.; Maji, A.; Saha, A.; Jayarajan, R.; Dutta, U.; Lu, G.; Lupton, D. W.; **Maiti, D.** *Chem. Eur. J.* **2020**, *26,* 11558-11564.

**139)** Highvalent 3d metal-oxo mediated C–H halogenation: Biomimetic approaches

Biswas, J. P.; Guin, S.; **Maiti, D.** *Coord. Chem. Rev.* **2020,** *408*, 213174.

**138)** An Alkyne Linchpin Strategy for Drug: Pharmacophore Conjugation: Experimental and Computational Realization of a meta-selective Inverse Sonogashira Coupling.

Porey, S.; Zhang, X.; Bhowmick, S.; Singh, V. K.; Guin, S.; Paton, R. S.; **Maiti. D.** *J. Am. Chem. Soc,* **2020***, 142,* 3672-3774.

**137)** Recent Advances in Cobalt-Catalysed C–H Functionalizations

Baccalini, A.; Vergura, S.; Dolui, P.; Zanoni, G.; **Maiti. D.**; *Org. Biomol. Chem.* **2019,** *17,* 10119-10141

**136)**  Cobalt-Catalyzed C(*sp*2)–H Allylation of Biphenyl Amines with Unbiased Terminal Olefins

Baccalini, A.; Vergura, S.; Dolui, P.; Maiti, S.; Dutta, S.; Maity, S.; Khan, F. F.; Lahiri, G. K.; Zanoni, G.; **Maiti. D.** *Org. Lett.,* **2019**, *21*, 8842-8846.

**135)** Orthogonal Selectivity in C-H Olefination: Synthesis of Branched Vinyl arene with Unactivated Aliphatic Substitution

Agasti, S.; Mondal, B.; Achar, T. K.; Sinha, S. K.; S. S. Anjana.; Szabo, K. J.; Schoenebeck, F.; **Maiti, D**. *ACS Catal.*, **2019**, *9*, 9606

**134)** Access to Multi-Functionalized Benzofurans through Aryl-Nickelation of Alkynes: Efficient Synthesis of Anti-Arrhythmic Drug Amiodarone

Iqbal, N.; Iqbal, N.; **Maiti, D.**; Cho, E. J. *Angew. Chem. Int. Ed.,* **2019**,*131*, 15955-15959

**133)** Ligand-Enabled Pd(II)-Catalyzed Iterative γ-C(sp3)-H Arylation of Free Aliphatic Acid

Dolui, P.; Das, J.; Chandrashekar, H. B.; Anjana, S. S.; **Maiti, D.** *Angew. Chem. Int. Ed.,* **2019**,*58*, 13773.

**132)** Co‐ordination assisted distal C−H alkylation of fused heterocycles

Kankanala, R.; Biswas, J. P.; Jana, S.; Achar, T. K.; Porey, S.; **Maiti, D.** *Angew. Chem. Int. Ed.,* **2019**,*58*, 13946

**131)** Direct *meta*-C-H Perfluoroalkenylation of Arenes Enabled by a Cleavable Pyrimidine-Based Template

Brochetta, M.; Borsari, T.; Bag, S.; Jana, S.; Maiti, S.; Porta, A.; Werz, D.; Zanoni, G.; **Maiti, D.** *Chem. Eur. J.,* **2019,** *44*, 10323

**130)** Rhodium Catalyzed Template-Assisted Distal para-C−H Olefination

Dutta, U.; Maiti, S.; Pimparkar, S.; Maiti, S.; Gahan, L. R.; Krenske, E. H.; Lupton, D. W.; **Maiti, D.** *Chem. Sci.,* **2019**, *10*, 7426

**129)** Regioselective Synthesis of Fused Furans via Decarboxylative Annulation of *α,β*-Alkenyl Carboxylic Acid with Cyclic Ketone: Synthesis of Bi-heteroaryl Derivatives

Agasti, S.; Pal, T.; Achar, T. K.; Maiti, S.; Pal, D.; Mandal, S.; Daud, K.; Lahiri, G. K.; **Maiti, D.** *Angew. Chem. Int. Ed.,* **2019**, *58*, 11039.

**128)** Palladium-Catalyzed Directed *meta*-Selective C–H Allylation of Arenes: Unactivated Internal Olefins as Allyl Surrogates

Achar, T. K.; Zhang, S.; Mondal, R.; Shanavas, M. S.; Maiti, S.; Maity, S.; Pal, N.; Paton, R. S.; **Maiti, D.** *Angew. Chem. Int. Ed.,* **2019**, *58*, 10353

**127)** Palladium catalyzed template directed C-5 selective olefination of thiazoles

Achar, T. K.; Biswas, J.; Porey, S.; Pal, T.; Ramakrishna, K.; Maiti, S.; **Maiti, D.** *J. Org. Chem.,* **2019**, *84*, 8315

**126)** Photocatalyzed Borylation Using Water Soluble Quantum Dots

Chandrasekhar, H. B.; Maji, A.; Halder, G.; Banerjee, S.; Bhattacharyya, S.; **Maiti, D.** *Chem. Commun*., **2019**, *55*, 6201

**125)** 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**, *25*, 9433

**124)** Bismuth Nitrate as a Source of Nitro Radical in Ipso-Nitration of Carboxylic Acids

Agasti, S.; Maiti, S.; Maity, S.; Anniyappan, M.; Talawar, M. B.; **Maiti, D.** *Polyhedron*, **2019**, 10.1016/j.poly.2019.04.005

**123)** 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.

**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.; Chaterjee, D.; Bahadur, D.; **Maiti, D**.; Maji, S. K. *J. Mater. Chem. A*[,](https://pubs.rsc.org/en/content/articlepdf/2019/TA/C8TA11134K?page=search" \t "_blank) **[2019](https://pubs.rsc.org/en/content/articlepdf/2019/TA/C8TA11134K?page=search" \t "_blank)**[, 7,](https://pubs.rsc.org/en/content/articlepdf/2019/TA/C8TA11134K?page=search" \t "_blank) 4486-4493.

**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**,58, 10820-10843.

**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,*** *361*, 1441-1446.

**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*. **2018**,*25*, 750-753.

**118)** Role of Hexafluoroisopropanol in C‒H Activation

Sinha, S. K.; Bhattacharya, T.; **Maiti, D**. *React. Chem. Eng*., **2018**,4, 244-253.

**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, 17906-17910.

**116)** Mechanistic Insights on Orthogonal Selectivity in Heterocycle Synthesis

Maji, A.; Yernaidu, R.; Sunoj, R. B.; **Maiti, D**. *ACS Catal*. **2018**, 8, 10111

**115)** Template assisted *para*-C‒H activation Template assisted para C‒H activation

Sinha, S.K.; Sasmal, S; Lahiri, G. K.; **Maiti, D**. *J. Indian. Chem. Soc* **2018**, *9*, 7843

**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**, 9, 1-10.

**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)

**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

Maji, A.; Guin, S.; Feng, S.; Dahiya, A.; Singh, V. K.; Liu, P.; **Maiti, D**. *Angew. Chem. Int. Ed.* **2017**, DOI: 10.1002/anie.201708449

**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](http://pubs.rsc.org/en/results?searchtext=Author%3AThrimurtulu%20Neetipalli).; [Volla](http://pubs.rsc.org/en/results?searchtext=Author%3AChandra%20MR%20Volla), C. M. R; [Maity](http://pubs.rsc.org/en/results?searchtext=Author%3ASoham%20Maity), S.; Khan, S.; [**Maiti**](http://pubs.rsc.org/en/results?searchtext=Author%3ADebabrata%20Maiti)**, 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, 1519-1530.

**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)** Thrimurtulu, N.; Dey, A.; **Maiti, D**.; Volla, C. M. R.; 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, Kapdi, A.; **Maiti, D**.; Eds.: Latest trend in palladium chemistry; 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)** Dey, A.; Kapdi, A. R.; **Maiti, D**.; Introductory Chapter on CH Bond Functionalization in Strategies for Palladium-Catalyzed Non-Directed and Directed C-H Bond Functionalization, Kapdi, A.; **Maiti, D**.; Eds.: Latest trend in palladium chemistry; Elsevier : **2017** Elsevier ISBN: 9780128052549.

**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.; Kancherla, 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.; Kancherla, 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.; Kanchrela, 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

**51)** 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

**50)** Divergent Reactivity in Palladium-Catalyzed Annulation with Diarylamines and *α*, *β*-Unsaturated Acids:

Direct Access to Substituted 2-Quinolinones and Indoles

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 tBuONO and TEMPO

Dutta, U.; Maity, S.; Kancherla, R.; **Maiti, D**. *Org. Lett.*, ***2014*,** 16, 6302-6305.

**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)** Sharma U.; Modak, A.; Maity, S.; Maji; **Maiti, D**.; Direct arylation *via* CH activation in New

Trends in Cross-Coupling: Theory and Applications, Colacot T.; Eds.; RSC Catalysis series; 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*, 5760-5763.

**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*, 5446-5449.

**42)** Rana, S., Modak, A., Maity, S., Patra, T. and **Maiti, D**.; Progress in Inorganic Chemistry in

Iron Catalysis in Synthetic Chemistry, Karlin K. D.; **2014**, John Wiley & Sons: Hoboken, New

Jersey, 2014, 59.

**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*, 13602-13605.

**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*, 11895-11899.

**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*, 4524-4527.

**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*, 2453-2458.

**37)** Predictably Selective (*sp3*)-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*, 2602-2605.

**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*, 2428-2432.

**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*, 705-710.

**34)** Iron catalyzed nitrosation of olefins to oximes

Ray, R.; Dutta Chowdhury, A.; **Maiti, D**.;Lahiri, G. K. *Dalton Trans*., 2014, *43*, 38-41.

**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*, 12669-12673.

**32)**  Nickel-Catalyzed Hydrogenolysis of Unactivated Carbon-Cyano Bonds.

Patra, T.; Agasti, S.; Modak, A.; **Maiti, D**. *Chem. Commun*., **2013**, *49*, 8362-8364.

**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*, 9747-9750.

**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*, 3384-3387.

**29)**  Iron-Catalyzed Direct C-H Arylation of Heterocycles and Quinones with Arylboronic Acids

Deb, A.; Manna, S.; Maji, A.; Dutta, U.; **Maiti, D**. *Eur. J. Org. Chem.*, **2013**, *24*, 5251-5256.

**28)** A Predictably Selective Nitration of Olefin with Fe(NO3)3 and TEMPO

Togati, N; Maity, S.; Sharma, U.; **Maiti, D.** *J. Org. Chem.*, **2013**, *78*, 5949-5954.

**27)** Iron-Mediated Decarboxylative Trifluoromethylation of *α,β*-Unsaturated Carboxylic Acids with Trifluoromethanesulfinate.

Patra, T.; Deb, A.; Manna, S.; Sharma, U.; **Maiti, D**. *Eur. J. Org. Chem*., **2013,** 5247-5250.

**26)** Synthesis of (*E*)-Nitroolefins via Decarboxylative Nitration using t-Butylnitrite (t-BuONO) and TEMPO.

Manna, S.; Jana, S.; Saboo, T.; Maji, A.; **Maiti, D**. *Chem. Commun*., **2013**, *49*, 5286-5288.

**25)** Efficient and Stereoselective Nitration of Mono- and Disubstituted Olefins with AgNO2 and TEMPO

Maity, S.; Manna, S.; Rana, S.; Togati, N.; Mallick, A; **Maiti, D**. *J. Am. Chem. Soc.,* **2013**, *135*, 3355-3358.

**24)** Decarbonylative Halogenation by a Vanadium Complex

Rana. S; Haque, R.; Santosh, G.; **Maiti, D**. *Inorg. Chem*., **2013**, *52*, 2927-2932.

**23)** Nickel-catalyzed decyanation of inert carbon-cyano bonds

Patra, T.; Agasti, S.; Akanksha; **Maiti, D**. *Chem. Commun*., **2013**, *43*, 69-71.

**22)** An efficient dehydroxymethylation reaction by a palladium catalyst

Modak, A.; Togati, N.; **Maiti, D.** *Chem. Commun*., **2013**, *49*, 252-254.

**21)** Microwave-Assisted Palladium Mediated Decarbonylation Reaction: Synthesis of Eulatachromene.

Akanksha; **Maiti, D.** *Green Chem*., **2012,** *14*, 2314-2320.

**20)**  ipso-Nitration of Arylboronic Acids with Bismuth Nitrate and Perdisulfate .

Manna, S.; Maity, S.; Rana, S.; Agasti, S.; **Maiti, D.** *Org. Lett.*, **2012**, *14*, 1736.

**19)** A general and efficient aldehyde decarbonylation reaction by using a palladium catalyst

Modak, A.; Deb, A.; Patra, T.; Rana, S.; Maity, S.; **Maiti, D**. *Chem. Commun*., **2012,** *48,* 4253.

**18)** Metal Mediated Deformylation Reactions: Synthetic and Biological Avenues.

Patra, T.; Manna, S.; **Maiti, D**. *Angew. Chem. Int. Ed.,* **2011**, *50*, 12140-12142.

**17)**  Chemoselectivity in the Cu-catalyzed O-arylation of phenols and aliphatic alcohols

**Maiti, D**. *Chem. Commun.,* **2011**, *47*, 8340.

**16)** **Maiti, D**.; Fors, B. P.; Henderson, J. L.; Nakamura, Y.; Buchwald, S. L. *Chem. Sci*. **2011**, 2, 57-58.

**15)** Woertink, J. S; Tian, L.; **Maiti, D**.; Lucas, H. R.; Himes, R. A.; Karlin, K D.; Neese, F.; Wartele, C.; Holthausen, M. C.; Bill, E.; Sundermeyer, J.; Schindler, S. *Inorg. Chem*., **2010**, 49, 9450.

**14)** **Maiti, D**.; Buchwald, S. L. *J. Org. Chem.* **2010**, *75*, 1791.

**13)** **Maiti, D**.; Woertink, J. S.; Ghiladi, R. A.; Solomon, E. I.; Karlin, K. D. *Inorg. Chem*., **2009**, *48*, 8342.

**12)** **Maiti, D**.; Buchwald, S. L. *J. Am. Chem. Soc.* **2009**, *131*, 17423.

**11)** **Maiti, D**.; Sarjeant, A. A. N.; Itoh, S.; Karlin, K. D. *J. Am. Chem. Soc.* **2008**, *130*, 5644.

**10)** **Maiti, D**.; Lee, D.-H.; Sarjeant, A. A. N.; Pau, M.; Solomon, Edward I.; Gaoutchenova, Katya; Sundermeyer, Jarg; Karlin, Kenneth D. *J. Am. Chem. Soc.* **2008**, *130*, 6700.

**9)** **Maiti, D**.; Lee, D.-H.; Gaoutchenova, K.; Wartele, C.; Holthausen, M. C.; Sarjeant, A. A. N.; Sundermeyer, J.; Schindler, S.; Karlin, K. D. *Angew. Chem., Int. Ed.,*(VIP) **2008**, *47*, 82.

**8)** **Maiti D.**; Sarjeant, A. A. N.; Karlin, K. D. *Inorg. Chem.*, **2008**, *47*, 8736.

**7)** **Maiti D**.; Woertink, J. S.; Sarjeant, A. A. N.; Solomon, E. I.; Karlin, K. D. *Inorg. Chem.,* **2008**, *47*, 3787.

**6)** **Maiti, D**.; Woertink, J. S.; Vance, M. A.; Milligan, A. E.; Solomon, E. I.; Karlin, K. D. *J. Am. Chem. Soc.*, **2007**, *129*, 8882.

**5)** **Maiti, D**.; Lucas, H. R.; Sarjeant, A. A. Narducci; Karlin, K. D. *J. Am. Chem. Soc.*, **2007**, *129*, 6998.

**4)** **Maiti, D**.; Sarjeant, A. A. N.; Karlin, K. D. *J. Am. Chem. Soc.,* **2007**, *129*, 6720.

**3)** **Maiti, D**.; Fry, H. C.; Woertink, J. S.; Vance, M. A.; Solomon, E. I.; Karlin, K. D. *J. Am. Chem. Soc.,* **2007,** *129*, 264.

**2)** Helton, M. E.; **Maiti, D**.; Zakharov, L. N.; Rheingold, A. L.; Porco, J. A., Jr.; Karlin, K. D. *Angew. Chem., Int. Ed.,* **2006**, *45*, 1138.

**1)** **Maiti, D**.; Paul, H.; Chanda, N.; Chakraborty, S.; Mondal, B.; Puranik, V. G.; Lahiri, G. K.

*Polyhedron*, **2004**, *23*, 831.

**Research monographs or book chapters published with full details**

1. Sharma U.; Modak, A.; Maity, S.; Maji; **Maiti, D**.; Direct arylation *via* CH activation in New

Trends in Cross-Coupling: Theory and Applications, Colacot T.; Eds.; RSC Catalysis series; Royal

Society of Chemistry: London, **2014** DOI: 10.1039/9781782620259.

1. Rana, S., Modak, A., Maity, S., Patra, T. and **Maiti, D**.; Progress in Inorganic Chemistry in

Iron Catalysis in Synthetic Chemistry, Karlin K. D.; **2014**, John Wiley & Sons: Hoboken, New

Jersey, 2014, 59.

1. Thrimurtulu, N.; Dey, A.; **Maiti, D**.; Volla, C. M. R.; 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, Kapdi, A.; **Maiti, D**.; Eds.: Latest trend in palladium chemistry; Elsevier: **2017** ISBN: 9780128052549.
2. Dey, A.; Kapdi, A. R.; **Maiti, D**.; Introductory Chapter on CH Bond Functionalization in Strategies for Palladium-Catalyzed Non-Directed and Directed C-H Bond Functionalization, Kapdi, A.; **Maiti, D**.; Eds.: Latest trend in palladium chemistry; Elsevier: **2017** Elsevier ISBN: 9780128052549.
3. Dey, A.; Dhawa, U.; **Maiti, D**.; Recent advances in distal aliphatic *sp3* CH functionalization in Strategies for Palladium-Catalyzed Non-Directed and Directed CH Bond Functionalization, Kapdi, A.; **Maiti, D**.; Eds.: Latest trend in palladium chemistry; Elsevier: **2017** Elsevier ISBN: 9780128052549.
4. Inorganica Chimica Acta- Guest Editor, Special Issue **2019**
5. Coordination Chemistry Reviews- Guest Editor, Special Issue **2019**
6. Wiley-VCH- “Remote CH functionalization”- Book editor **2019**
7. Transition Metal Catalyzed Distal *para*-Selective C-H Functionalization in “Remote C-H Bond Functionalizations: Methods and Strategies in Organic Synthesis”

Edited by **Prof. D. Maiti** and Dr. S. Guin.

Dutta, U.; **Maiti. D.** *Wiley-VCH***, 2020**

1. Introduction in "Remote C-H Bond Functionalizations: Methods and Strategies in Organic Synthesis"

Edited by **Prof. D. Maiti** and Dr. S. Guin,

Dutta, U.; Guin, S.; **Maiti. D.** *Wiley-VCH*, 2020

**Invited Lectures (2013 - 2019)**

**2013**

March 22 University of Pondicherry, India

June 29 Ion chromatography seminar, IITB, India

July 25 NASI, Allahabad, India

August 28 DRDO, Pune, India

November 8 IASc, Punjab University, Chandigarh, India

**2014**

March 25 University of Pondicherry, India

March 28 AVR Lecture, IICT Hyderabad, India

April 2 University of Hyderabad, India

April 22 INSA, New Delhi, India

June 19 ISRO, Thiruvananthapuram, India

July 4 Kaleidoscope, Goa, India

August 6 BASF, Mumbai

December 5 IIT Guwahati, India

**2015**

January 17 Shivaji 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

**2016**

March 17 IIIT 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

**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

June 14 EPFL, Switzerland

June 20 University of Rennes

October 13 OPPI, Mumbai, India

November 29 TIFR, Mumbai, India

December 12 MTIC, NCL Pune

December 23 IIT Roorkee, India

**2018**

January 9 ICCHD Kolkata, India

January 15 Max Planck Institute for Chemical Energy Conversion

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 (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

**2019**

February 4 ACS on campus, IIT Bombay

February 5 IICT Hyderabad, India

February 23 St. Xavier’s College, Kolkata, India

February 27 Golden Jubilee Celebrations, IIT Bombay, India

March 7-9 VIT, Vellore

March 22 ISER Mohali, India

April 16 IIT Kanpur, India

May 29 Wroclaw University, Poland

May 30 Univ. Łódź, Poland

May 31 Institute of Organic Chemistry, Warsaw-Poland

June 14 ICIQ, Spain

June 21-28 Markovnikov Congress, Moscow

July 9      Technische Universität Braunschweig, Germany

July 15 University of Padova, Italy

July 24  OMCOS 20, 2019 at Heidelberg, Germany (July 21-25, 2019)

August 25 ACS Meeting, San Diego, USA (August 25-28, 2019)

September 3 7th international Society of Heterocyclic Chemistry Congress (ISHC-27), Kyoto

October 16 IGCW, IIT Bombay

October 24 Federal University of Minas Gerais, Brazil (CAPES, Talk 1)

October 28 Federal University of Minas Gerais, Brazil (CAPES, Talk 2)

November 15 Yeungnam University, South Korea

November 28 University of Tokyo, Japan

November 1-6 Tokyo Institute of Technology, Japan

December 8 Keio University

December 20 TIT-Suzukakedia campus, Japan

December 24 Kyushu University

**2020**

July 7 RDOAC, KIIT, Bhubaneswar, India

July 29 ISCHA, Germany,

November 4 CRSI Pune, National Week Celebration

December 9 IISER Kolkata-RSC symposium

December 9 CEFIPRA/IFCPAR Symposium on Organometallic Chemistry and Catalysis

**2021**

January 18 Jadavpur University, RCCHEM2021

January 29 BBRC, BMS

February 17 NIT Karnataka, AMWMC-2021

March 1 IIT Delhi, In conversation with a Distinguished Scientist, National Science Day

March 2 #RSCLive, #RSCPoster Twitter Conferenc]

March 3 NIT Durgapur, RDC- 2021

April 14 Texas Tech University

August 13-20 Canada-IUPAC CCCE 2021 Conference