|  |  |
| --- | --- |
| **Prof. Debabrata Maiti** Born: December 10th, 1980 in India  Married, Two children  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: +91-9820907155    Google Scholar: https://scholar.google.co.in/citations?user=FKwzr1wAAAAJ&hl=en |  |



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| --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **Citations** | **12821** | | **h-index** | **69** | | **i10 index** | 174 |   Total publication 243 |

# Professional Career

# 2021 Full Professor, IIT Bombay, Department of Chemistry, India

2015-2021 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/recongnitions

# 2022 FASc, Fellow of Academy of Sciences

# 2022 IIT Bombay-Prof. SC Bhattacharya Award for Excellence in Pure Science

# 2022 Adjunct Professor, University Centre for Research and Development (UCRD), Chandigarh University, Chandigarh, India

# 2022 CRSI Bronze Medal

# 2022 Adjunct Professor, Vellore Institute of Technology (VIT), India

# 2022 IIT Bombay-IRCC Impactful Research Award

# 2022 IIT Bombay-IRCC Research Dissemination Award

# 2021 Sun Pharma Science Foundation Research Award

# 2021 Professor P K Bose Memorial Award

# 2021 The (Late) Shri G.D. Gokhale Lectureship Endowment

2021 Distinguished Adjunct Faculty, King Abdulaziz University

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*

2021-Present Academic Advisory Board, *Advanced Synthesis and Catalysis*

2021-Present *Editorial Board, Tetrahedron-Chem*

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*

2022-Present International Advisory Board*, Helvetica*

2021-Present Advisory Board*, Catalysis Science & Technology*

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

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

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

2018-Present Editorial Board Member, *Current Organocatalysis*

**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 | Directing group templates for para-selective C-H bond functionalization, their use and process for preparation thereof | Patent No 359851 |  | 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 |
| 2022 | Synthesis of CTA and DNAN using  continuous flow chemistry |  |  | Application no 202221048448 |
| 2022 | Safer and scalable synthesis of 2,4,6- trinitroanisole(TNAN) and picramide using continuous flow chemistry |  |  | Application no 202221053460 |
| 2022 | Reversible CO2 /CO Conversion By A Homogeneous Copper-Based Molecular Catalyst |  |  | Application No. 202221011195 |
| 2022 | Directing Ligand Enabled Palladium Catalyzed Meta-Functionalization Through Non-Covalent Interaction |  |  | Application no 202221043008 |

**Publications:**

**224) Transition metal catalyzed C–H functionalization through electrocatalysis**

Baroliya, P. K.; Dhaker, M.;Panja, S.;Al-Thabaiti, S. A.;Albukhari, S. M.;Alsulami, Q. A.;Dutta, A.; **Maiti, D.** *ChemSusChem,* **2023 (ASAP)**

**223) Mechanism and Origins of Site-Selectivity of Template-Directed C-H Insertion of Quinolines**

Fernandez, G. E.; **Maiti, D.**; Tantillo, D. J. *Chem. Eur. J.*, **2023 (ASAP)**

**222) Enroute Sustainability: Metal Free C-H bond Functionalisation**

Roy, S.; Panja, S.; Sahoo, S. R.; Chatterjee, S.; **Maiti, D.** *Chem. Soc. Rev.,***2023 (ASAP)**

**221) Enantioselective Annulation Reactions Through C(sp2)-H Activation with Chiral CpxM(III) Catalysts**

Achar, T. K.; Al-Thabaiti, S. A.; Mokhtar, M.; **Maiti, D.** *Chem Catal.,***2023 (ASAP)**

**220) Benzylic Alcohol Oxidation using Copper Oxide/ZincOxide/Zirconia Nanocomposite Catalysts**

Mokhtar, M.;† Panja, S.;† Alshehri, A.; Halawani,W.; **Maiti, D.** *Chem Asian J.,* **2023 (ASAP)**

**219) Distal meta-alkenylation of formal amines enabled by catalytic use of hydrogen-bonding anionic ligands**

Goswami, N.;† Sinha, S. K.;† Mondal, P.; Adhya, S.; Datta, A.; **Maiti, D.** *Chem,* **2023 (ASAP)**

**218) Transition Metal Catalyzed Remote C-H Activation: A New Direction Towards Site-Selective Chemical Reactions**

Das, J.; **Maiti, D.** *AsiaChem,* **2022 (ASAP)**

**217) Synthesis of picramide using nitration and ammonolysis in continuous flow**

Mittal, A. K.;† Prakash, G.;† Pathak, P.;† **Maiti, D.** *Chem Asian J.,* **2022 (ASAP)**

**216) Native Functional Group Directed Distal C(sp3)-H Activation of Aliphatic Systems**

Saha, S.; Das, J.; Al-Thabaiti, S. A.; Albukhari, S. M.; Alsulami, Q. A.; **Maiti, D**. *Catal. Sci. Technol.* **2022 (ASAP)**

**215) Transition Metal Pincer Complexes: A Series of Potential Catalysts in C−H Activation Reactions**

Kasera, A.; Biswas, J. P.; Alshehri, A. A.; Al-Thabaiti, S. A.; Mokhtar, M.; **Maiti, D.** *Coord. Chem. Rev.* **2022** **(ASAP)**

**214) Synthesis of CTA and DNAN using flow chemistry**

Mittal, A. K.;† Prakash, G.;† Pathak, P.;† **Maiti, D.** *Asian J. Org. Chem***., 2022**, e202200444

**213) Recent Advances in Transition-Metal Mediated Trifluoromethylation Reactions**

Mandal, D.;† Maji, S.;† Pal, T.;† Sinha, S. K.; **Maiti, D.** *Chem. Commun***., 2022 (ASAP)**

**212) Substrate-Rhodium Cooperativity in Photoinduced ortho-Alkynylation of Arenes**

Saha, A.; Ghosh, A.; Guin, S.; Panda, S.; Mal, D. K.; Majumdar, A.; Akita, M.; **Maiti, D.** *Angew. Chem. Int. Ed.***, 2022 (ASAP)**

**211) Pd-Catalyzed Dual-γ-1,1-C(sp3)-H Activation of Free Aliphatic Acids With Allyl-O Moieties**

Das, J.; Pal, T.; Ali, W.; Sahoo, S. R.; **Maiti, D.** *ACS Catal.*, **2022**, *12*, 11169

**210) Photo-Excited Nickel-Catalyzed Silyl-Radical-Mediated Direct Activation of Carbamoyl Chlorides To Access (Hetero)aryl Carbamides**

Maiti, S.;† Roy, S.;† Ghosh, P.; Kasera, A.; **Maiti, D.** *Angew. Chem. Int. Ed*., **2022 (ASAP)**

**209) Exploring cobalt-histidine complex for a wide-ranging colorimetric O2 detection**

Saini, A.; Rai, S.; **Maiti, D**.; Dutta, A.*ACS Omega***, 2022**, *7*, 27734

**208) Non-Directed Pd-Catalysed Electrooxidative Olefination of Arenes**

Panja, S.; Ahsan, S.; Pal, T.; Kolb, S.; Ali, W.; Sharma, S.; Das, C.; Grover, J.; Dutta, A.; Werz, D. B.; Paul, A.; **Maiti, D.** *Chem. Sci*., **2022**, *13*, 9432

**207) Transition-Metal-Catalyzed C−H Bond Alkylation Using Olefins: Recent Advances and Mechanistic Aspects**

Mandal, D.; Roychowdhury, S.; Biswas, J. P.; Maiti, S.; **Maiti, D.** *Chem. Soc. Rev.,* **2022**, *51*, 7358

**206) Expanding chemical space by para-C-H arylation of arenes**

Maiti, S.; Li, Y.; Sasmal, S.; Guin, S.; Bhattacharya, T.; Lahiri, G. K.; Paton, R. S.; **Maiti, D.** *Nat. Commun.,* **2022**, *13*, 3963

**205) An Unprecedented Valorisation of Marble Slurry Waste Material as Solid Support for Palladium-Catalysed Heck and Suzuki Reactions**

Chopra, J.; Dayma, V.; Mandal, A.; Baroliya, P. K.; **Maiti, D.** *ChemistrySelect***, 2022,** *7*, e20220092

**204) Dual Ligand Enabled Non-Directed C−H Chalcogenation of Arenes and Heteroarenes,**

Sinha, S. K.;† Panja, S.;† Grover, J.;† Hazra, P. S.; Pandit, S.; Bairagi, Y.; Zhang, X.; **Maiti, D.** *J. Am. Chem. Soc*., **2022**, *144*, 12032

**203) Recent developments in first-row transition metal complex-catalyzed CO2 hydrogenation**

Das, C.; Grover, J.; T.; Das, A.; **Maiti, D**.; Dutta, A.; Lahiri, G. K. *Dalton Trans.,* **2022***,51,* 8160.

**202)** **C-H methylation using sustainable approaches**

Agrawal, I.;† Prakash, G.;† Al-Thabaiti, S. A.; Mokhtar, M.; **Maiti, D**. *Catalysts*., **2022**, *12*, 510

**201) Ligand-promoted palladium-catalyzed β-methylene C−H arylation of primary aldehydes**

Yang, K.; Li, Z.; Liu, C.; Li, Y.; Hu, Q.; Elsaid, M.; Li, B.; Das, J.; Dang, Y.; **Maiti, D**.; Ge, H. *Chem. Sci*., **2022,** *13*, 5938.

**200) Directing Group Assisted Rhodium Catalyzed meta-C-H Alkynylation of Arenes**

Sasmal, S.;† Prakash, G.;† Dutta, U.;† Laskar, R.; Lahiri, G. K.; **Maiti, D.** *Chem. Sci*., **2022**, *13*, 5616.

**199) Modern Palladium-Catalyzed Transformations Involving C–H Activation and Subsequent Annulation**

Thombal, R. S.;† Rubio, P. Y. M.;† Lee, D.; **Maiti, D**.; Lee, Y. R. *ACS Catal.,* **2022**, *12*, 5217.

**198) C-H deuteration of organic compounds and potential drug candidates**

Prakash, G.; Paul, N.; Oliver, G. A.; Werz, D. B..; **Maiti, D.** *Chem. Soc. Rev.,* **2022**, *51*, 3123.

**197) C−H Activation: A Strategic Approach toward lactams using Transition metals**

Dutta, S.;† Chatterjee, S.;† Al-Thabaiti, S. A.; Bawaked, S.; Mokhtar, M.; **Maiti, D.** *Chem. Catal.,* **2022,** *2*, 1046

**196) Ene-Reductase: A Multifaceted Biocatalyst in Organic Synthesis**

Roy, T. K.; Sreedharan, R.; Ghosh, P.; Gandhi, T.; **Maiti, D.** *Chem. Eur. J.,* **2022**, *28*, e202103949

**195) Traditional and sustainable approaches for the construction of C-C bonds by harnessing C-H arylation**

Grover, J.;† Prakash, G.;† Goswami, N.; **Maiti, D.** *Nat. Commun***., 2022**, *13*, 1085

**194) Sustainable C-H functionalizations under ball-milling, microwave-irradiation and aqueous media**

Laskar, R.;† Pal, T.;† Bhattacharya, T.; Maiti, S.; Akita, M.; **Maiti, D.** *Green Chem.,* **2022**, *24*, 2296

**193) Pd-catalysed C-H functionalisation of free carboxylic acids**

Dutta, S.; Bhattacharya, T.; Geffers, F. J.; W.; Bürger, M.; **Maiti, D.;** Werz, D. B. *Chem. Sci.,* **2022**, *13*, 2551

**192) Photoinduced Regioselective Olefination of Arenes at Proximal and Distal Sites**

Saha, A.;† Guin, S.;† Ali, W.; Bhattacharya, T.; Sasmal, S.; Goswami, N.; Prakash, G.; Sinha, S. K.; Chandrashekar, H. B.; Panda, S.; Anjana, S. S.; **Maiti, D.** *J. Am. Chem. Soc*., **2022**, *144*, 1929

**191) An Atom Economical Approach for Enantioselective Cross Dehydrogenative Coupling**

Das, J.; **Maiti, D.** *Chem. Catal.,* **2022**,*2*, 3

**190) Strategies to Transform Remote C(sp3)-H bonds of Amino Acid Derivatives**

Sen, S.; Das, J.; **Maiti, D.** *Tet. Chem​.,* **2022**, *1*, 100005

**189) Group 6 transition metal-based molecular catalysis for sustainable catalytic CO2 reduction**

Rajeshwaree, B.; Ali, A.; Mir, A. Q.; Grover, J.; Lahiri, G. K.; Dutta, A.; **Maiti, D.** *Catal. Sci. Technol.,* **2022**, *12*, 390

**188**) **Emergence of Pyrimidine as *meta*-Directing Group: Journey from Weak to Strong Coordination in Diversifying *meta*-C−H Functionalization**

Dutta, U.; **Maiti, D.** *Acc. Chem. Res​.,* **2022**, *55*, 354

**187**) **Catalytic C−H activation via four-membered metallacycle intermediate**

Bhagat, K. K.; Biswas, J. P.; Dutta, S.; **Maiti, D**. [*Helv. Chim. Acta​*.*,* **2022**, *105*, e202100192](https://doi.org/10.1002/hlca.202100192)

**186**) **Recent Advances in the Incorporation of CO2 for C-H and C-C bond Functionalization**

Pimparkar,S.; Dalvi, A. K.; Koodan, A.; Maiti, S.; Al-Thabaiti, S. A.; Mokhtar, M.; Dutta, A.; Lee, Y. R.; **Maiti, D.** *Green Chem.*, **2021,** *23*, 9283

**185**) **Recent developments in hydrodecyanation and decyanative functionalization reactions**

Paul, N.; Patra, T.; **Maiti, D.** *Asian J. Org. Chem.,* **2021**, *10*, 1

**184**) **Editing the Skeletal Structure of Arenes via Transition Metal Catalyzed Decarbonylation Methodology**

Sinha, S. K.; Roy, T. K.; Modak, A.; **Maiti, D.** *Chem. Rec.,* **2021**, *21*, 1

**183) Ligand-redox assisted nickel catalysis toward stereoselective synthesis of (n+1)-membered cycloalkanes from 1,n-diols with methyl ketones**

Bains, A. K.; Kundu, A.; **Maiti, D**.; Adhikari, D. *Chem. Sci.*, **2021**, *12*, 14217

**182) Transition Metal Catalyzed C–H Bond Activation by exo-metallacycle Intermediates**

Sahoo, S. R.; Dutta, S.; Al-Thabaiti, S. A.; Mokhtar, M.; **Maiti, D***. Chem. Commun.,* **2021**, *57*, 11885

**181) Toolbox for Distal C-H Bond Functionalizations in Organic Molecules**

Sinha, S.; Guin, S.; Maiti, S.; Biswas, J. P.; Porey, S.; **Maiti, D.** *Chem. Rev.*, **2022,** *122*, 5682

**180) Transition-Metal-Catalyzed Selective Alkynylation of C-H Bonds**

Anjana, S. S.; Bhowmick, S.; Carvalho, R. L.; Al-Thabaiti, S. A.; Mokhtar, M.; Júnior, E. N. S.; **Maiti, D.** *Adv. Synth. Catal.* **2021**, *363*, 4994

**179. Recent Advances in the Nitration of Olefins**

Paul, N.; Maity, S.; Panja, S**.; Maiti, D.** *The Chemical Record***, 2021,** *21*, 2896

**178) Supported metal nanoparticles assisted catalysis: A broad concept in functionalization of ubiquitous C−H bonds**

Baroliya, P.K.; Chopra. J.; Pal, T.; Maiti, S.; Al-Thabaiti, S.A.; Mokhtar, M; Maiti, D. *Chem. Cat. Chem* **2021,** [*13*, 4655](http://doi.org/10.1002/cctc.202100755)

**177) Deciphering the role of silver in Pd catalyzed C-H functionalization**

Bhattacharya, T.; Dutta, S.; Maiti, D. *ACS Catal*. **2021**, *11*, 9702

**176) Noncovalent interactions in Ir-catalyzed remote C-H borylation: A recent update**

Pandit, S.; Maiti, S.; Maiti. D. *Org. Chem. Front*. , **2021**, *8*, 4349

**175) Ligand Enabled delta-C(sp3)-H Borylation of Aliphatic Amines**

H. B. Chandrashekar, Dolui. P.; Li, B.; Mandal, A.; Liu, H; Guin, S; Ge, H; Maiti, D*. Angew. Chem. Int. Ed.* **2021**, *60*, 18194

**174) Transient directing ligands for selective metal-catalyzed C-H activation**

Goswami, N.; Bhattacharya, T.; Maiti. D. *Nat. Rev. Chem*. **2021**, *5*, 646

**173) Accessing C2-Functionalized 1,3-(Benz)azoles through Transition Metal-Catalyzed C-H Activation**

Basak, S.; Dutta, S.; Maiti. D. *Chem. Eur. J*., **2021**, *27*, 10533

**172. Copper mediated chemo-and stereoselective cyanation reactions**

Chandra, P.; Choudhary, N.; Lahiri, G. K.; **Maiti, D.;** Mobin, S. M. *Asian. J. Org. Chem*., **2021**, *10*, 1987

**171) Decoding directing groups and their pivotal role in C–H activation**

Murali, K.; Machado, L. A.; Carvalho, R. L.; Pedrosa, L. F.; Mukherjee, R.; da Silva Junior , E. N.; **Maiti. D.** *Chem. Eur. J.,* **2021**, *27*, 12453

**170) Transition Metal Catalyzed C-H Arylation Using Organoboron Reagents**

Basak, S; Biswas, J. P.; **Maiti, D.** Synthesis **2021**, *53*, 3151

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**168)** Effect of ligand backbone on the reactivity and mechanistic paradigm of non-heme iron(IV)-oxo during olefin epoxidation

Biswas, J. P.; Ansari, M.; Paik, A.; Sasmal, S.; Paul, S.; Rana, S.; Rajaraman, G.; **Maiti, D.** *Angew. Chem. Int. Ed.***2021,** *60*, 14030

**167)** Construction of Highly Functionalized Xanthones via Rh-Catalyzed Cascade C-H Activation/O-Annulation.

Nale, S.; **Maiti, D.;** Lee Y. R. *Org. Lett*. **2021,** *23*, 2465.

**166)** Recent Advances in External Directing Group Free CH Functionalization of Carboxylic Acids without Decarboxylation.

Das, J.; Mal, D. K.; Maji, S.; **Maiti, D**. *ACS Catal*. **2021**, *11*, 4205.

**165)** Synergistic effect of NiLDH@YZ hybrid and mechanochemical agitation on Glaser homocoupling reaction.

Mokhtar, M.; Alzhrani, G.; Aazam, S.; Saleh, T. S.; Al-faifi, S.; Panja, S.; **Maiti. D.** *Chem. Eur. J.,* **2021,** *27*, 8875

## 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**, *12*, 1393*.*

**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.,***2021,***57***,** 2210.

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

Bhattacharya, T.; Ghosh, A.; Maiti, D. *Chem. Sci*., **2021,** *12*, 3857.

**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. *J. Braz. Chem. Soc.* **2021***, 32,* 917.

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

Ali, W.; Prakash, G.; **Maiti, D.** *Chem. Sci*., **2021,** *12*, 2735.

**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,** *19***,** 525.

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

Achar, T; Maiti, S.; Jana, S.; **Maiti, D.** *ACS Catalysis***2020,***10,* 13748.

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

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**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***, 50,* 243*.*

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

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

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

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

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

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

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**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

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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

1. C-H to C-E bond transformations Comprehensive Organometallic Chemistry IV edited byProfessors

Karsten Meyer, Dermot O’Hare and Gerard Parkin

Goswami, N.; **Maiti, D.**

**12.** Weinreb Amide as a Multifaceted Directing Group in C-H Activation**.** Das, J.; **Maiti, D.** *Wiley-VCH book*Amide Bond Activation edited by Prof. Michal Szostak;

**13.** Mechanistic Insights on Palladium-Catalyzed C(sp2)–H functionalization from Theoretical Perspective

Zhang, X.; **Maiti, D.** Edited by: **Maiti, D.** *Wiley-VCH*, 2022

**14**. Supramolecular interactions in distal C-H activation of (hetero)arenes Biswas, J. P.; **Maiti. D.** *Wiley-VCH*, 2021 Editors: Dr. Matthieu Raynal and Prof. Dr. Piet W.N.M. van Leeuwen

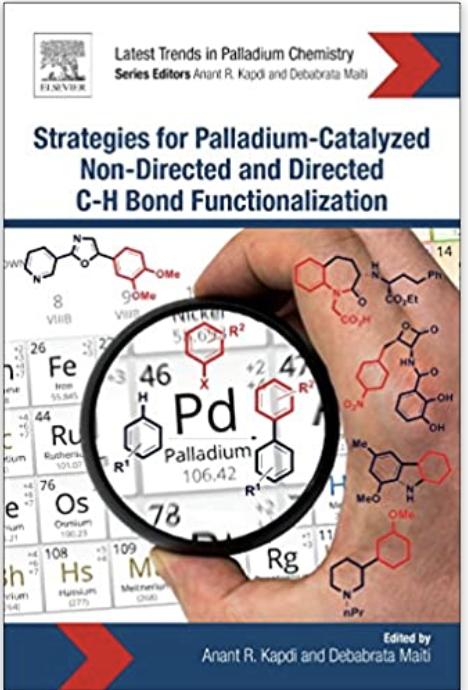
**15**. Intra- and inter-molecular carbene and nitrene insertion by metalloenzymes into C-H bond, Mukherjee, P.; Jain, S.; Al-Thabaiti, S. A.; Mokhtar, M.; **Maiti, D.** Edited by: **Maiti, D.** *Wiley-VCH*, 2022

**16**. Rh-catalyzed arene distal meta- and para-C-H functionalization, Ali, W.; Prakash, G.; Al-Thabaiti, S. A.; Mokhtar, M.; **Maiti, D.** Edited by: **Maiti, D**. *Wiley-VCH*, 2022

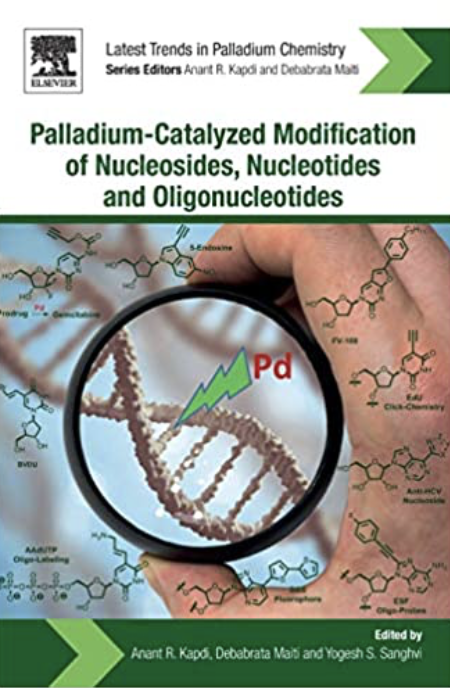
**17**. “Cascade Reactions, Unity is Strength” in “Synthetic approaches to nonaromatic nitrogen heterocycles vol. III”, Casali, E.; Saraci, E.; Othman, S. T.; Zanoni, G.; **Maiti, D.** Edited by: Phillips, A. M. F., *Wiley-VCH,* 2022

**18**. “Investigation on High-Valent Iron Complex Mediated Organic Transformations: Reactivity and Mechanistic Impact” in “Advances in Inorganic Chemistry (AINC) Vol. 81: Inorganic Chemistry in India”, Roy, T. K.;† Suresh, A.;† Sinha, A.;† Biswas, J. P.; **Maiti, D.** Edited by: van Eldik, R.; Chatterjee, D.; *Elsevier,* 2022

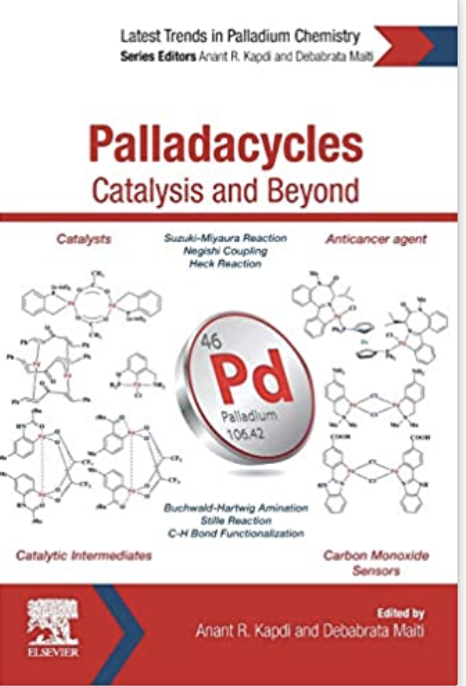
**Book Editor**:

 Strategies for Palladium-Catalyzed Non-directed and Directed C bond H Bond Functionalization

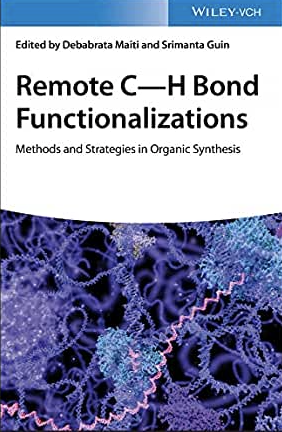
Kapdi, A.; **Maiti, D**.; Eds.: Latest trend in palladium chemistry; Elsevier: **2017** ISBN: 0128052546

Palladium-Catalyzed Modification of Nucleosides, Nucleotides and Oligonucleotides

Kapdi, A.; **Maiti, D**.; Y. S. Sanghvi Eds.: Latest trend in palladium chemistry; Elsevier: **2018** Elsevier ISBN: 0128112921.

 Palladium-Catalyzed Modification of Nucleosides, Nucleotides and Oligonucleotides

Kapdi, A.; **Maiti, D**.; Eds.: Latest trend in palladium chemistry; Elsevier: **2019** Elsevier ISBN: 0128155051.

 Remote C-H Bond Functionalizations: Methods and Strategies in Organic Synthesis, Wiley-VCH- **2019**

**Maiti, D**.; Guin, S. ISBN: 978-3527346677

**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 Conference

March 3 NIT Durgapur, RDC- 2021

March 5 Materials Chemistry and Catalysis, Tejpur University

March 5 Prof. R.C. Paul symposium, Panjab University

April 14 Texas Tech University

August 13-20 Canada-IUPAC CCCE 2021 Conference

October 27 Department of Chemistry Guru Nanak Dev University

October 27 Sustainable Chemistry for Future Technology, ICT Mumbai

October 28 International Conference of CONIAPS XXVII, NIT Jamshedpur

November 16-17 International Conference 10th anniversary of *Catalysis Science & Technology*

December 22nd -24th Recent Trends in Chemical Sciences – Organic & Bio-Chemistry, Kolkata

December 16th -22nd 2021 International Chemical Congress of Pacific Basin Societies (Pacifichem)

**2022**

January 19-23 Current Trends in Drug Discovery Research CDRI, Lucknow

January 21 BITS Pilani, Pilani

January 27 IEHE, Bhopal

January 31 Shiv Nadar University

February 6-8 The 11th Asian-European Symposium on Metal-Mediated Organic Synthesis

July 17-22 2022 Organic Reactions and Processes GRC

November 27-30 Org & Med Chem Conf. Wollongong, Australia

**Guest Editor:**

**The 2nd International Conference on Organometallics and Catalysis (ICOC-2020)**

https://onlinelibrary.wiley.com/doi/toc/10.1002/(ISSN)1861-471X.ICOC-2020

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**Redox-active ligand incorporated coordination complexes and their catalytic implications (*I****norganica* ***C****himica* ***A****cta*)

https://www.sciencedirect.com/journal/inorganica-chimica-acta/special-issue/10TZWC0D61B

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