

**List of Publications** (*List of papers, book chapters, patents granted*).

<b>SI No.</b>	<b>Authors</b>	<b>Title</b>	<b>References</b>
<b>128.</b>	Subir Maji, Arpan Das, Madhur Mahesh Bhatt and <b><u>Swadhin K. Mandal</u></b>	Metal-Free Organocatalytic S- Formylation of Thiols using CO <sub>2</sub>	<i>Nature Catalysis</i> <b>2024</b> , <a href="https://doi.org/10.1038/s41929-024-01114-7">https://doi.org/10.1038/ s41929-024-01114-7</a>
<b>127.</b>	Paramita Datta, Debojyoti Roy, Divya Jain, Shiv. Kumar, Swagata Sil, Anup Bhunia, Jyotishman Dasgupta and <b><u>Swadhin K. Mandal</u></b>	Uncovering the On- pathway Reaction Intermediates for Metal-Free Atom Transfer Radical Addition to Olefins through Photogenerated Phenalenyl Radical Anion	<b>ACS Catalysis</b> <b>2024</b> , <b>14</b> , <b>3420-3433</b>
<b>126.</b>	Shiv Kumar, Paramita Datta, Anup Bhanja and <b><u>Swadhin K.Mandal</u></b>	Denitrogenation of Tosylhydrazones: Synthesis of Aryl Alkyl Sulfones Catalyzed by Phenalenyl Based Molecule	<b>Catal. Sci. Technol.</b> <b>2024</b> , <b>14</b> , <b>174-182</b>

125.	Nimisha Gautam, Ratan Logdi, Sreejyothi P, Antara Roy, Ashwani K. Tiwari and <b><u>Swadhin K. Mandal</u></b>	<i>Bicyclic (alkyl)(amino)carbene (BICAAC) in Dual Role: Activation of Primary Amides and CO<sub>2</sub> towards Catalytic N-Methylation</i>	<b><i>Chemical Science</i> 2023, 14, 5079-5086</b>
124.	Paramita Datta, Tanmay Goswami, Noufal Kandoth, Ananya Banik, Jasimuddin Ahmed, Athul Santha Bhaskaran, Ramchandra Saha, Rositha Kuniyil, Hirendra N. Ghosh, <b><u>Swadhin Kumar Mandal</u></b>	<i>Generation of Photoinduced Phenalenyl-Based Radical: Towards Designing Reductive C-C Coupling Catalysis</i>	<b><i>ChemPhotoChem</i> 2023, Just Accepted</b>
123.	Ananya Banik, Paramita Datta and <b><u>Swadhin K. Mandal</u></b>	<i>C-Alkylation by Phenalenyl-based Molecule via Borrowing Hydrogen Pathway</i>	<b><i>Organic Letters</i> 2023, 25, 8, 1305–1309</b>

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122.	Amit Biswas, Anup Bhunia and <b><u>Swadhin K. Mandal</u></b>	<i>Mechanochemical Solid State Single Electron Transfer from Reduced Organic Hydrocarbon for Catalytic Aryl- halide Bond Activation</i>	<b><i>Chemical Science</i> 2023, 14, 2606-2615</b>
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121.	Swagata Sil, Athul Santha Bhaskaran, Soumi Chakraborty, Bhagat Singha, Rositha Kuniyil and <b>Swadhin K. Mandal</b>	<i>Reduced Phenalenyl Based Molecule as a Super Electron Donor for Radical Mediated C-N Coupling Catalysis at Room Temperature</i>	<i>J. Am. Chem. Soc. 2022, 144, 49, 22611–22621</i>
120.	Arpan Das, Pallavi Sarkar, Subir Maji, Swapan K. Pati and <b>Swadhin K. Mandal</b>	<i>Mesoionic N- Heterocyclic Imines as Super Nucleophiles in Catalytic Coupling of Amides by CO<sub>2</sub></i>	<i>Angew. Chem. Int. Ed. 2022, 61, e202213614(1 of 10)</i>
119.	Soumi Chakraborty, Rounak Nath, Anuj Kumar Ray, Ankan Paul and <b>Swadhin K. Mandal</b>	<i>Metal-Ligand Cooperativity in Mn(I)-Catalyzed N- Formylation of Secondary Amides and Lactams using CO<sub>2</sub> at Room Temperature</i>	<i>Chem. Eur. J. 2023, 29, e202202710(6 of 9)</i>

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<b>118.</b>	Subir Maji, Pallavi Sarkar, Arpan Das, Swapan K. Pati and <b><u>Swadhin K. Mandal</u></b>	<i>Benzimidazolylidene Stabilized Borenum Ion for Catalytic Hydrogenation of N-heterocycles</i>	<i>Inorg. Chem.</i> <b>2022</b> , <i>61</i> , <b>36, 14282–14287</b>
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117.	Sreejyothi P, Pallavi Sarkar, Supriti Dutta, Arpan Das, Swapan K Pati and <b><u>Swadhin K Mandal</u></b>	<i>Regioselective ring-opening of epoxides towards Markovnikov alcohols: A metal-free catalytic approach using abnormal N-heterocyclic carbene</i>	<b><i>Chem. Commun.</i>, 2022, 58, 9540-9543</b>
116.	Jasimuddin Ahmed and <b><u>Swadhin K. Mandal</u></b>	<i>Phenalenyl Radical: Smallest Polycyclic Odd Alternant Hydrocarbon Present in the Graphene Sheet</i>	<b><i>Chemical Reviews</i> 2022, 122, 13, 11369–11431</b>
115.	Ananya Banik and <b><u>Swadhin K. Mandal</u></b>	<i>Tuning Redox States of Phenalenyl Based Molecule by Consecutive Reduction towards Transition Metal-Free Heck type C-C Cross-Coupling</i>	<b><i>ACS Catalysis</i> 2022, 12, 5000-5012</b>
114.	Nimisha Gautam, Ratan Logdi, Sreejyothi P, N. M. Rajendran, Ashwani K. Tiwari and <b><u>Swadhin K. Mandal</u></b>	<i>Bicyclic (alkyl)(amino)carbene (BICAAC) as a metal-free catalyst for reduction of nitriles to amines</i>	<b><i>Chem. Commun.</i> 2022, 58, 3047-3050</b>

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<b>113.</b>	Soumi Chakraborty, Arpan Das , and <b>Swadhin K. Mandal</b>	<i>Redox-active Ligand Based Mn(I)-Catalyst for Hydrosilylative Ester Reduction</i>	<b><i>Chem. Commun.</i></b> <b>2021, 57, 12671-</b> <b>12674</b>
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112.	Subir Maji, Arpan Das and <b><u>Swadhin K. Mandal</u></b>	<i>Mesoionic N-heterocyclic Olefin Catalysed Reductive Functionalization of CO<sub>2</sub> for Consecutive N-Methylation of Amines</i>	<i>Chemical Science, 2021,12, 12174-12180</i>
111.	Arpan Das, Soumi Chakraborty and <b><u>Swadhin K. Mandal</u></b>	<i>Abnormal N-heterocyclic Carbene Based Ni(II) <math>\pi</math>-allyl Complex towards Molecular Oxygen Activation</i>	<i>Chemistry — An Asian Journal, 2021, 16, 2257–2260</i>
110.	Sreejyothi P, Kalishankar Bhattacharyya, Shiv Kumar, Pradip Kumar Hota, Ayan Datta and <b><u>Swadhin K. Mandal</u></b>	<i>An NHC-stabilized phosphinidene for catalytic formylation: A DFT guided approach</i>	<i>Chem. -Eur. J 2021, 27, 11656 –11662</i>
109.	Ananya Banik, Jasimuddin Ahmed, Swagata Sil, <b><u>Swadhin K. Mandal</u></b>	<i>Mimicking Transition Metals in Borrowing Hydrogen from Alcohols</i>	<i>Chemical Science, 2021,12, 8353-8361</i>
108.	Bhagat Singh, Jasimuddin Ahmed, Amit Biswas, RupankarPaira, and <b><u>Swadhin K. Mandal</u></b>	<i>Reduced Phenalenyl in Catalytic Dehalogenative Deuteration and Hydrodehalogenation of Aryl Halides</i>	<i>J. Org. Chem 2021, 86, 10, 7242–7255</i>



107.	N. M. Rajendran, Nimisha Gautam, Jasimuddin Ahmed, Pallavi Sarkar, Arpan Das, Shubhajit Das, Swapan K. Pati, <b><u>Swadhin K. Mandal</u></b>	<i>Bicyclic(alkyl)(amino)carbene stabilized zinc(0) complex and its electron transfer reactivity</i>	<b><i>Chem. Commun.</i></b> <b>2021, 57, 5282-5285</b>
106.	Jasimuddin Ahmed, Paramita Datta, Arpan Das, StephyJomy and <b><u>Swadhin K. Mandal</u></b>	<i>Switching between mono and doublyreduced odd alternant hydrocarbon: designing a redox catalyst</i>	<b><i>Chemical Science</i></b> <b>2021, 12, 3039-3049</b>

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<b>105.</b>	Arpan Das, Jasimuddin Ahmed, N. M. Rajendran, Debashis Adhikari and <b><u>Swadhin K. Mandal</u></b>	<i>A Bottleable Imidazole- Based Radical as a Single Electron Transfer Reagent</i>	<b><i>J. Org. Chem.</i></b> <b>2021, 86, 1246– 1252</b>
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<b>104.</b>	Pradip Dutta, Smita Kumari, Justin Paulraj, Rupali Sharma, Gonela Vijaykumar, Hari Sankar Das, Prasannakumar	<i>Novel Phenalenyl Based Platinum Anticancer Compounds with Superior Efficacy: Design, Synthesis,</i>	<i>New Journal of Chemistry, 2021,45,10524- 10533</i>
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	Sreejyothi, Swagata Sil, <b><u>Swadhin K. Mandal</u></b> , Aniruddha Sengupta, ArindamSarkar	<i>Characterization, and Interaction with NuclearDNA</i>	
103.	Ravindra Dhar Dubey, Arindam Sarkar, Zheyu Shen, Vladimir I. Bregadze, Igor B. Sivaev, Anna A. Druzina, Olga B. Zhidkova, Akim V. Shmal'ko, Irina D. Kosenko, Prasannakumar Sreejyothi, <b><u>Swadhin Mandal</u></b> , Narayan S. Hosmane	<i>Effects of linkers on the Development of Liposomal Formulation of Cholesterol Conjugated cobalt bis(dicarbollides) for Boron Neutron Capture Therapy in Cancer</i>	<i>Journal of Pharmaceutical Sciences 2021, 110, 1365-1373</i>
102.	Sreejyothi P and <b><u>Swadhin K Mandal</u></b>	<i>From CO<sub>2</sub> Activation to Catalytic Reduction: A Metal- free Approach</i>	<i>Chemical Science 2020 11, 10571 - 10593</i>
101.	Soumi Chakraborty, Jasimuddin Ahmed, Arpan Das and <b><u>Swadhin K Mandal</u></b>	<i>Designing Cr-catalyst Bearing a Redox Non-innocent Phenalenyl-Based Ligand towards Hydrosilylative CO<sub>2</sub> Functionalization</i>	<i>Chem. Commun. 2020 56, 13788-13791</i>
100.	Vladimir I. Bregadze, Igor B. Sivaev, Andrey Semioshkin, Akim V. Shmal'ko, Irina D. Kosenko, Kseniya V. Lebedeva, <b><u>Swadhin K Mandal</u></b> , Prasannakumar Sreejyothi, Ravindra Dhar Dubey, ArindamSarkar, Zihou Li, Zheyu Shen, Aiguo Wu, Narayan S. Hosmane	<i>New Boron-Containing Lipids and Liposomes: Preparation and Properties</i>	<i>Chem. -Euro. J. 2020, 26, 13832- 13841</i>
99.	Mrinal Bhunia, Sumeet Ranjan Sahoo, Arpan Das, Jasimuddin	<i>Transition Metal-Free Catalytic Reduction of Primary Amides Using an Abnormal</i>	<i>Chemical Science 2020, 11, 1848- 1854</i>

	Ahmed, Sreejyothi P. and <b><u>Swadhin K. Mandal</u></b>	<i>NHC based Potassium Complex: Integrating Nucleophilicity with Lewis Acidic Activation</i>	
98.	Samaresh Chandra Sau, Pradip Kumar Hota, <b><u>Swadhin K. Mandal</u></b> , Michele Soleilhavoup and Guy Bertrand	<i>Stable Abnormal N-Heterocyclic Carbenes and their Applications in Catalysis</i>	<i>Chem. Soc. Rev.</i> <b>2020</b> , <b>49</b> , 1233-1252
97.	Zheyu Shen, Ting Liu, Zhen Yang, Zijian Zhou, Wei Tang, Wenpei Fan, Yijing Liu, Jing Mu, Ling Li, Vladimir I Bregadze, <b><u>Swadhin K. Mandal</u></b> , Anna A Druzina, Zhenni Wei, Xiaozhong Qiu, Aiguo Wu, Xiaoyuan Chen	<i>Small-sized gadolinium oxide based nanoparticles for high-efficiency theranostics of orthotopic glioblastoma</i>	<i>Biomaterials</i> , <b>2020</b> <b>119783</b> .
96.	Mrinal Bhunia, Sreejyothi P and <b><u>Swadhin K. Mandal</u></b>	<i>Earth-abundant metal catalyzed hydrosilylative reduction of various functional groups</i>	<i>Coord. Chem. Rev.</i> , <b>2020</b> , <b>405</b> , 213110
95.	Pradip Kumar Hota, Subir Maji, Jasimuddin Ahmed, N. M. Rajendran and <b><u>Swadhin K. Mandal</u></b>	<i>NHC-catalyzed Silylative Dehydration of Primary Amides to Nitriles at Room Temperature</i>	<i>Chem. Commun.</i> , <b>2020</b> , <b>56</b> , 575-578
94.	Anna A. Druzina, Akim V. Shmal'ko, Ekaterina P. Andreichuk, Olga B. Zhidkova, Irina D. Kosenko, Andrey Semioshkin, Igor B. Sivaev, <b><u>Swadhin Mandal</u></b> , Zheyu Shen and Vladimir I. Bregadze	<i>'Click' synthesis of cobalt bis(dicarbollide)-cholesterol conjugates</i>	<i>Mendeleev Commun.</i> , <b>2019</b> , <b>29</b> , 628-630

93.	Jasimuddin Ahmed, Asim Kumar Swain, R. Govindarajan, Mrinal Bhunia and <b><u>Swadhin K. Mandal</u></b>	<i>Transition metal free catalytic terminal alkyne functionalization across the C-X triple bond (X = CH, N): E-Selective dimerization under ambient conditions</i>	<b><i>Chem. Commun.</i></b> <b>2019, 55, 13860-13863</b>
92.	Govindarajan, R; Ahmed, Jasimuddin; Swain, Asim; <b><u>Swadhin K. Mandal</u></b>	<i>Transition Metal-Free Catalytic Carboalkoxylation of Styrenes at Room Temperature</i>	<b><i>J. Org. Chem.</i></b> <b>2019, 84, 13490-13502</b>
91.	Hari S. Das, Shyamal Das, Kartick Dey, Bhagat Singh, Rahul K. Haridasan, Arpan Das and <b><u>Swadhin K. Mandal</u></b>	<i>Primary Amides to Amines or Nitriles: Dual Role by a Single Catalyst</i>	<b><i>Chem. Commun.</i></b> <b>2019, 55, 11868-11871</b>
90.	Zheyu Shen, Wenpei Fan, Zhen Yang, Yijing Liu, Vladimir I Bregadze, <b><u>Swadhin K Mandal</u></b> , Bryant C Yung, Lisen Lin, Ting Liu, Wei Tang, Lingling Shan, Yuan Liu, Shoujun Zhu, Sheng Wang, Weijing Yang, L Henry Bryant, Duong T Nguyen, Aiguo Wu, Xiaoyuan Chen	<i>Exceedingly Small Gadolinium Oxide Nanoparticles with Remarkable Relativities for Magnetic Resonance Imaging of Tumors</i>	<b><i>Small</i>, 2019, 15, 1903422</b>
89.	Arpan Das, Pradip Kumar Hota, and <b><u>Swadhin K. Mandal</u></b>	<i>Nickel Catalyzed C(sp<sup>2</sup>)-H Borylation of Arenes</i>	<b><i>Organometallics</i>,</b> <b>2019, 38, 3286-3293</b>
88.	Das, Shyamal; Das, Hari; Singh, Bhagat; Haridasan, Rahul; Das, Arpan; <b><u>Mandal, Swadhin</u></b>	<i>Catalytic Reduction of Nitriles by Polymethylhydrosiloxane Using a Phenalenyl Based Iron (III) Complex</i>	<b><i>Inorg. Chem.</i>,</b> <b>2019, 58, 11274-11278</b>

87.	Nimish Gupta, Aasif Ansari, Gaurao V Dhoke, Maheshwerreddy Chilamari, Jwala Sivaccumar, Smita Kumari, Snigdha Chatterjee, Ravinder Goyal, Mallik Samarla, Madhumita Mukherjee, Arindam Sarkar, <b>Swadhin K Mandal</b> , Vishal Rai, Goutam Biswas, Aniruddha Sengupta, Monideepa Roy, Sudip Roy, Shiladitya Sengupta	<i>A Multivalent and Affinity-Guided Antibody Empowerment Technology (MAGNET) Platform to Engineer Antibody-Drug Conjugates for Targeting Cancer</i>	<i>Nature Biomed. Eng.</i> <b>2019,3,917–929</b>
86.	Pradip Kumar Dutta, Rupali Sharma, Smita Kumari, Ravindra Dhar Dubey, Sujit Sarkar, Justin Paulraj, Gonela Vijaykumar, Manoj Pandey, L Sravanti, Mallik Samarla, Hari Sankar Das, B Heeralal, Ravinder Goyal, Nimish Gupta, <b>Swadhin K Mandal</b> , Aniruddha Sengupta, Arindam Sarkar	<i>A safe and efficacious Pt (ii) anticancer prodrug: design, synthesis, in vitro efficacy, the role of carrier ligands and in vivo tumor growth inhibition</i>	<i>Chem. Commun.</i> <b>2019, 55, 1718-1721</b>
85.	Mrinal Bhunia; Sumeet Ranjan Sahoo; Bikash Kumar Shaw; Anand Pariyar; Gonela Vijaykumar; S. Vaidya; Debasish Adhikari; <b>Swadhin K. Mandal</b> .	<i>Storing Redox Equivalent in the Phenalenyl Backbone Towards Multielectron Reduction</i>	<i>Chemical Science</i> <b>2019, 10, 7433-7441</b>
84.	Gonela Vijaykumar; Mrinal Bhunia and <b>Swadhin K. Mandal</b>	<i>Phenalenyl-based Nickel Catalysts for Hydroboration of</i>	<i>Dalton Trans.</i> , <b>2019, 48, 5779-5784</b>

<i>Olefins under Ambient Conditions</i>			
83.	Samaresh Chandra Sau; Rameswaran Bhattacharjee; Pavan K Vardhanapu; Pradip Kumar Hota; G Vijaykumar; R. Govindarajan; Ayan Datta; <b><u>Swadhin K. Mandal.</u></b>	<i>Metal-Free Capture of CO<sub>2</sub> from Air and its Reduction into Alternative Fuel under Ambient Conditions</i>	<i>Chemical Science</i> <b>2019, 10, 1879-1884.</b>
82.	Pavan Vardhanapu; Jasimuddin Ahmed; Anex Jose; Bikash Shaw; Tamal Sen; Amita Mathews; <b><u>Swadhin K. Mandal.</u></b>	<i>Phenalenyl based Aluminum Compound for Catalytic C-H Arylation of Arene and Heteroarenes at Room Temperature</i>	<i>J. Org. Chem.,</i> <b>2018, 84, 289-299.</b>
81.	Pradip K. Hota; Samaresh C. Sau; <b><u>Swadhin K Mandal</u></b>	<i>Metal-Free Catalytic Formylation of Amides Using CO<sub>2</sub> under Ambient Conditions</i>	<i>ACS Cat.</i> <b>2018, 8, 11999-12003.</b>
80.	Zheyu Shen, Ting Liu, Yan Li, Joseph Lau, Zhen Yang, Wenpei Fan, Zijian Zhou, Changrong Shi, Chaomin Ke, Vladimir I Bregadze, <b><u>Swadhin K Mandal,</u></b> Yijing Liu, Zihou Li, Ting Xue, Guizhi Zhu, JeevaMunasinghe, Gang Niu, Aiguo Wu, Xiaoyuan Chen	<i>Fenton-reaction-acceleratable magnetic nanoparticles for ferroptosis therapy of orthotopic brain tumors</i>	<i>ACS Nano,</i> <b>2018, 12, 11355-11365</b>
79.	Bhagat Singh; Rupankar Paira; Goutam Biswas; Bikash K. Shaw; <b><u>Swadhin K Mandal</u></b>	<i>Graphene Oxide-Phenalenyl Composite: Transition Metal-Free Recyclable and Catalytic C- H Functionalization</i>	<i>Chem. Commun.</i> <b>2018, 54, 13220-13223.</b>
78.	Soumi Chakraborty, Jasimuddin Ahmed, Bikash Kumar Shaw, Anex Jose, and <b><u>Swadhin K. Mandal.</u></b>	<i>Iron Based Long-Lived Catalyst for Direct C-H Arylation of Arenes and Heteroarenes</i>	<i>Chem. Eur. J.</i> <b>2018 24,1-6.</b>



77.	Sreejyothi P, Samaresh C. Sau, Pavan Vardhanapu, <b><u>Swadhin K Mandal</u></b>	<i>A Halobridged Abnormal NHC Palladium(II) Dimer for Catalytic Dehydrogenative Cross-Coupling Reactions of Heteroarenes</i>	<b><i>J. Org. Chem.</i></b> <b>2018,</b> <b>83, 9403–9411</b>
76.	Pavan Vardhanapu; Varun Bheemireddy; Mrinal Bhunia; Gonela Vijaykumar, <b><u>Swadhin K Mandal</u></b>	<i>Cyclic (Alkyl)amino Carbene Complex of Aluminum(III) in Catalytic Guanylation Reaction of Carbodiimides</i>	<b><i>Organometallics,</i></b> <b>2018, 37, 2602–</b> <b>2608.</b>
75.	Jasimuddin Ahmed; Soumi Chakraborty; Anex Jose; <b><u>Swadhin K Mandal</u></b>	<i>Integrating Organic Lewis Acid and Redox Catalysis: The Phenalenyl Cation in Dual Role</i>	<b><i>J. Am. Chem. Soc.,</i></b> <b>2018, 140, 8330-</b> <b>8339.</b>
74.	Ananya Banik, Rupankar Paira, Bikash Shaw, Gonela Vijaykumar and <b><u>Swadhin K Mandal</u></b>	<i>Accessing Heterobiaryls through A Transition Metal-Free C-H Functionalization</i>	<b><i>J. Org. Chem.</i></b> <b>2018, 83, 3236–</b> <b>3244.</b>
73.	Anex Jose Gonela Vijaykumar, Vardhanapu, Pavankumar, and <b><u>Swadhin K Mandal</u></b>	<i>Abnormal NHC Supported Palladacycles: Regioselective Arylation of Heteroarenes via Decarboxylation</i>	<b><i>J. Organomet. Chem.</i></b> <b>2018, 865,</b> <b>51-57</b>
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71.	Gonela Vijaykumar, Anex Jose, Vardhanapu Pavankumar and <b><u>Swadhin K Mandal</u></b>	<i>Abnormal N-Heterocyclic Carbene Based Nickellacycles: Unprecedented Catalysts for Hydroheteroarylation of Vinyl Arenes</i>	<b><i>Organometallics,</i></b> <b>2017, 36, 4753-</b> <b>4758.</b>
70.	Pradip Kumar Hota, Anex Jose and <b><u>Swadhin K Mandal</u></b>	<i>Abnormal NHC Based Palladium Complexes in Stereo- and Regioselective</i>	<b><i>Organometallics,</i></b> <b>2017, 36, 4422-</b> <b>4431.</b>

		<i>Addition of Arene to Alkyne: Elucidating the Role of Trifluoroacetic Acid</i>	
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65.	Nimish Gupta, Jhony Kancharla; Shelly Kaushik; Aasif Ansari; Samad Hossain; Ravindar Goyal; Manoj Pandey; Jowala Sivaccumar; Sajid Hussain; Arindam Sarkar; Aniridhha Sengupta; <b><u>Swadhin K Mandal</u></b> ; Monideepa Roy; Shiladitya Sengupta	<i>Development of an antibody-drug conjugate platform using platinum as a linker</i>	<i>Chemical Science</i> , <b>2017,8, 2387-2395</b>

64.	Samaresh Ch. Sau; Rameswar Bhattacharjee; Pavan K. Vardhanapu; Gonela Vijaykumar; Ayan Datta; <b><u>Swadhin K Mandal</u></b>	<i>Metal Free Reduction of CO<sub>2</sub> to Methoxyborane Under Ambient Conditions through Borondiformate Formation</i>	<i>Angew. Chem. Int. Ed.</i> 2016, 55, 15147–15151
63.	Mrinal Bhunia; Sumeet Ranjan Sahoo; Gonela Vijaykumar; Debashis Adhikari; <b><u>Swadhin K Mandal</u></b>	<i>Iron Catalysed Regioselective Dimerization of Terminal Aryl Alkynes</i>	<i>Organometallics</i> , 2016, 35, 3775–3780
62.	Mrinal Bhunia; Pradip Kumar Hota; Gonela Vijaykumar; Debashis Adhikari; <b><u>Swadhin K Mandal</u></b>	<i>A Highly Efficient Catalyst for Selective Reduction of Imines to Amines: An Abnormal-NHC–Fe(0) Complex in Reduction Chemistry</i>	<i>Organometallics</i> , 2016, 35, 2930–2937
61.	Gonela Vijaykumar; <b><u>Swadhin K Mandal</u></b>	<i>An Abnormal N-heterocyclic Carbene Nickel Catalyst for Reduction of Nitroarenes</i>	<i>Dalton Trans.</i> , 2016, 45, 7421–7426
60.	Rupankar Paira; Bhagat Singh; Pradip Kumar Hota; Jasimuddin Ahmed; Samresh Ch Sau; Justin Johnpeter; <b><u>Swadhin K Mandal</u></b>	<i>Phenalenyl Based Radical in Transition Metal Free Catalytic C-H Functionalization</i>	<i>J. Org. Chem.</i> 2016, 81, 2432–2441
59.	Arunabha Thakur; Pavan K. Vardhanapu; Gonela Vijaykumar; Pradip Kumar Hota; <b><u>Swadhin K. Mandal</u></b>	<i>Abnormal N-Heterocyclic Carbene Mediated Capture of CO<sub>2</sub>, N<sub>2</sub>O and Activation of Small Molecules Under Ambient Condition</i>	<i>Eur. J. Inorg. Chem.</i> 2016, 913–920
58.	Pradip Kumar Hota; Gonela Vijaykumar; Anand Pariyar; Samaresh Ch. Sau; Tamal Kumar Sen; <b><u>Swadhin K. Mandal</u></b>	<i>An Abnormal NHC Based Palladium Dimer: Aqueous Oxidative Heck Coupling Under Ambient Temperature</i>	<i>Adv. Synth. Catalysis</i> 2015, 357, 3162–3170

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56.	Arup Mukherjee; Tamal K Sen; Sambath Baskaran; Cinnappan Sivasankar; <b><u>Swadhin K. Mandal</u></b>		<i>J. Organomet. Chem.</i> <b>2015, 775, 76-79</b>
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54.	Sudipta Raha Roy; Samaresh Ch. Sau; <b><u>Swadhin K. Mandal</u></b>	<i>Chemoselective Reduction of the Carbonyl Functionality through Hydrosilylation: Integrating Click Reaction with Hydrosilylation in One Pot</i>	<i>J. Org. Chem.</i> <b>2014, 79, 9150- 9160.</b>
53.	Abheek Datta; Anustup Sadhu; Subhankar Santra; S. M. Shivaprasad; <b><u>Swadhin K. Mandal</u></b> , Sayan Bhattacharyya	<i>Pd Nanoparticle Concentration Dependent Self-assembly of Pd@SiO<sub>2</sub> Nanoparticles into Leaching Resistant Microcubes</i>	<i>Chem. Commun.</i> <b>2014, 50, 10510-10512</b>
52.	Arup Mukherjee; Prinson P Samuel; Carola Schulzke; <b><u>Swadhin K. Mandal</u></b>	<i>Main Group Chemistry of 9- Hydroxophenalenone: Syntheses and Structural Characterization of the Alkaline Earth and Zinc Complexes</i>	<i>J. Chem. Sci.</i> <b>2014, 126, 1581- 1588.</b> <b>(Invited)</b>
51.	Samaresh Ch. Sau; Sudipta Raha Roy;	<i>Integrating Organometallic Catalysis with</i>	<i>Chem. Asian J</i>

	<b><u>Swadhin K. Mandal</u></b>	<i>Organocatalysis: A Consecutive Catalytic Approach in One-Pot</i>	<b>2014, 9, 2806-2813.</b>
<b>50.</b>	Ayan Patra; Gopal C. Giri; Tamal K. Sen; Luca Carrella; <b><u>Swadhin K. Mandal</u></b> ; Manindranath Bera	<i>Bis(<math>\mu</math>-alkoxo) bridged dinuclear <math>CuII_2</math> and <math>ZnII_2</math> complexes of an isoindol functionality based new ligand: synthesis, structure, spectral characterization, magnetic properties, and catechol oxidase activity</i>	<b><i>Polyhedron</i> 2014, 67, 495–504.</b>
<b>49.</b>	Arup Mukherjee; Tamal K. Sen; Pradip K Ghorai; <b><u>Swadhin K. Mandal</u></b>	<i>Organozinc Catalyst on Phenalenyl Scaffold for Intramolecular Hydroamination of Aminoalkenes</i>	<b><i>Organometallics</i> 2013, 32, 7213–7224</b>
<b>48.</b>	Subhankar Santra; Pradip Kumar Hota; Rangeet Bhattacharyya; Parthasarathi Bera; Prasenjit Ghosh; <b><u>Swadhin K Mandal</u></b>	<i>Palladium Nanoparticles on Graphite Oxide: Highly Recyclable Catalyst for the Synthesis Biaryl Cores</i>	<b><i>ACS Catalysis</i>, 2013, 3, 2776–2789</b>
<b>47.</b>	Arup Mukherjee; Tamal K. Sen; Pradip K. Ghorai; <b><u>Swadhin K. Mandal</u></b>	<i>The Non-innocent Phenalenyl Unit: An Electronic Nest to Modulate the Catalytic Activity in Hydroamination Reaction</i>	<b><i>Scientific Reports</i> 2013, 3, 2821 (DOI:10.1038/srep02821.)</b>
<b>46.</b>	Samaresh Ch. Sau; Sudipta Raha Roy; Tamal K Sen; Dinesh Mullangi; <b><u>Swadhin K. Mandal</u></b>	<i>An Abnormal N-Heterocyclic Copper(I) Complex in Versatile Click Chemistry</i>	<b><i>Adv. Synth. Cat.</i> 2013, 355, 2982-2991.</b>
<b>45.</b>	Tamal K. Sen; Samaresh Ch. Sau; Arup Mukherjee; Pradip Kumar Hota; <b><u>Swadhin K</u></b>	<i>Abnormal N-heterocyclic Carbene Main Group Organometallic Chemistry: A</i>	<b><i>Dalton Trans.</i> 2013, 42, 14253-14260</b>

	<b>Mandal</b> ; Bholanath Maity; Debasish Koley	<i>Debut to the Homogenous Catalysis</i>	
44.	Tanmoy Chakraborty; Tamal K. Sen; Harkirat Singh; Diptaranjan Das; <b>Swadhin K. Mandal</b> ; Chiranjib Mitra	<i>Experimental Realization of Thermal Entanglement in a Molecular chain</i>	<i>J. Appl. Phys.</i> 2013, 114, 144904.
43.	Ayan Patra; Tamal K. Sen; Ghezai T. Musie; <b>Swadhin K. Mandal</b> ; Manindranath Bera	<i>A novel copper(II) coordination polymer with carboxylate and isoindol backbones of a bifunctional ligand</i>	<i>J. Mol. Struct.</i> 2013, 1047, 317-323.
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41.	Tamal Kumar Sen; Arup Mukherjee; Arghya Modak; <b>Swadhin K Mandal</b> ; Bholanath Maity, Debasish Koley	<i>Substitution Effect on Phenalenyl Backbone in the Rate of Organozinc Catalyzed ROP of Cyclic Esters</i>	<i>Dalton Trans.</i> 2013, 42, 1893-1904
40.	Arup Mukherjee; Tamal K. Sen; <b>Swadhin K Mandal</b> ; Bholanath Maity; Debasish Koley	<i>Construction of Oxygen-bridged Multimetallic Assembly: Dual Catalysts for Hydroamination Reactions</i>	<i>RSC Advances</i> 2013, 3, 1255–1264
39.	Karthik V. Raman, Alexander M. Kamerbeek, Arup Mukherjee, Nicolae Atodiresei, Tamal K. Sen, Predrag Lazić, Vasile Caciuc, Reent Michel, Dietmar Stalke, <b>Swadhin K.</b>	<i>Interface-engineered templates for molecular spin memory devices</i>	<i>Nature</i> , 2013, 493, 509–513

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38.	Tanmoy Chakraborty; Diptaranjan Das; Harkirat Singh; Tamal K. Sen; <b>Swadhin K. Mandal</b> ; Chiranjib Mitra	<i>Study of Entanglement in a Quantum Antiferromagnet</i>	<b><i>AIP Conf. Proceed.</i></b> <b>1447, 2012, 1145- 1146.</b>
37.	Tanmoy Chakraborty; Diptaranjan Das; Harkirat Singh; Tamal K. Sen; <b>Swadhin K. Mandal</b> ; Chiranjib Mitra	<i>Comparativestudy of magnetic behaviour in three classic molecular magnets</i>	<b><i>Solid State Commun. 2012,</i></b> <b>152, 1945-1950.</b>
36.	Suman Kr Dey; Andreas Honecker; Partha Mitra; <b>Swadhin K. Mandal</b> ; Arindam Mukherjee	<i>Magneto-structural studies of tetranuclear manganese [MnIII<sub>2</sub>MnII<sub>2</sub>] complexes of 9- hydroxy phenalenone with weak <span style="background-color: black; color: black;">XXXXXXXXXX</span> interactions</i>	<b><i>Eur. J. Inorg. Chem. 2012, 5814- 5824.</i></b>
35	Ayan Patra; Tamal K. Sen; Rangeet Bhattacharyya; <b>Swadhin K. Mandal</b> ; Manindranath Bera	<i>Diversity of carboxylate binding in an unusual tetranuclear zinc cluster: Correlation between spectroscopic investigations and carboxylate binding modes</i>	<b><i>RSC Advances</i></b> <b>2012, 2, 1774- 1777.</b>
34.	Subhankar Santra; Praiyadarshi Ranjan; Parthasarathi Bera; Prasenjit Ghosh; <b>Swadhin K. Mandal</b>	<i>Anchored palladium nanoparticles onto single walled carbon nanotubes: Recyclable heterogeneous nanocatalyst in the synthesis of N-containing heterocycles via copper free acyl Sonogashira reaction</i>	<b><i>RSC Advances</i></b> <b>2012, 2, 7523- 7533</b>

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32.	Tamal Kumar Sen; Arup Mukherjee; Arghya Modak; Pradip Kr. Ghorai; Daniel Kratzert; Markus Granitzka; Dietmar Stalke; <b><u>Swadhin K. Mandal</u></b>	<i>Phenalenyl Based Molecules: Tuning the Lowest Unoccupied Molecular Orbital to Design Catalyst</i>	<i>Chem. Eur. J. 2012, 18, 54-58</i>
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30.	<b><u>Swadhin K. Mandal</u></b> and Herbert Roesky	<i>Group 14 Hydrides with Low-Valent Elements for Small Molecules Activation</i>	<i>Acc. Chem. Res. 45, 2012, 298-307</i>
29.	Diptaranjan Das; Tanmoy Chakraborty; Harkirat Singh; Tamal K. Sen; <b><u>Swadhin K. Mandal</u></b> ; Chiranjib Mitra	<i>Experimental quantification of entanglement in quantum spin systems</i>	<i>AIP Conf. Proceed. 2011, 1384, 261–269.</i>



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26.	Subhankar Santra; Priyadarshi Ranjan; Pradip Kr. Ghorai; <b>Swadhin K. Mandal</b>	<i>Living Nanocatalyst for Effective Synthesis of Symmetrical Biaryls</i>	<i>Inorg. Chim. Acta</i> 2011, 372, 47–52. (Invited article)
25.	Arup Mukherjee; Tamal K. Sen; <b>Swadhin K. Mandal</b> ; Daniel Kratzert; Dietmar Stalke; Alexander Doering; Carola Schulzke	<i>Phenalenyl Based Ligand for Transition Metal Chemistry: Application in Henry Reaction</i>	<i>J. Chem. Sci.</i> 2011, 123, 139–144. (Invited article)
24.	Gregor P. Jose; Subhankar Santra; <b>Swadhin K. Mandal</b> ; Tapas K Sengupta	<i>Singlet Oxygen Mediated DNA Degradation by Copper Nanoparticles</i>	<i>J. Nanobiotechnol ogy</i> , 2011, 9, 9
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21.	<b><u>Swadhin K Mandal</u></b> , and Herbert W Roesky	<i>Assembling Hetero Metals Through Oxygen: An Efficient Way to Design Homogeneous Catalysts</i>	<i>Acc. Chem. Res.</i> <b>2010</b> , <i>43</i> , 248–259
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17.	Kimberely A Worsley; Ramesh, P.; <b><u>Swadhin K Mandal</u></b> ; Sandip Niyogi; Mikhayl E. Itkis; Robert C Haddon	<i>Soluble Graphene Derived from Graphite Fluoride</i>	<i>Chem. Phys. Lett.</i> <b>2007</b> , <i>445</i> , 51–56
16.	Thengarai S. Venkatakrishnan; <b><u>Swadhin K Mandal</u></b> ; Kannan Raghuraman; Setharampattu S. Krsihnamurthy; Munirathinam Nethaji	<i>Chloro-, Hydrido- and Chloro- hydrido Ruthenium(II) complexes of Chiral and Achiral Diphosphazane Ligands and Catalytic Asymmetric Transfer</i>	<i>J. Organomet. Chem.</i> <b>2007</b> , <i>692</i> , <b>1875–1891.</b>

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7.	Hui Hu; Yingchun Ni; <b>Swadhin K Mandal</b> ; Vedrana Montana; Bin Zhao; Robert C. Haddon; Vladimir Parpura	<i>Polyethylenimine Functionalized Single-Walled Carbon Nanotubes as a Substrate for Neuronal Growth</i>	<i>J. Phys. Chem. B</i> <b>2005</b> , <i>109</i> , 4285–4289.
6.	<b>Swadhin K Mandal</b> ; G. A. Nagana Gowda; Setharampattu S. Krishnamurthy; Thomas Stey; Dietmar Stalke	<i>Chiral “P-N-P” Ligands, (C<sub>20</sub>H<sub>12</sub>O<sub>2</sub>)PN(R)PY<sub>2</sub> (R = CHMe<sub>2</sub>, Y = C<sub>6</sub>H<sub>5</sub>, OC<sub>6</sub>H<sub>5</sub>, OC<sub>6</sub>H<sub>4</sub>-4-Me, OC<sub>6</sub>H<sub>4</sub>-4-OMe or OC<sub>6</sub>H<sub>4</sub>-4-tBu) and their Allyl Palladium Complexes</i>	<i>J. Organomet. Chem.</i> <b>2005</b> , <i>690</i> , 742–750
5.	<b>Swadhin K Mandal</b> ; G A Nagana Gowda; Setharampattu S Krishnamurthy; Munirathinam Nethaji	<i>Palladium(II) Allyl Complexes of Chiral Diphosphazane Ligands: Ambident Coordination</i>	<i>Dalton Trans.</i> <b>2003</b> , 1016–1027

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3.	<b><u>Swadhin K Mandal</u></b> ; Setharampattu S Krishnamurthy; Munirathinam Nethaji	<i>Palladium-Carbon-<math>\sigma</math>-Bonded Complexes Bearing Diphosphazane and Diphosphazane Monosulfide Ligands</i>	<b><i>Ind. J. Chem.</i> 2003, 42A, 2422–2426</b>
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1.	<b><u>Swadhin K Mandal</u></b> ; G A Nagana Gowda; Setharampattu S Krishnamurthy; Chong Zhen; Shoujuan Li; Narayan S Hosmane	<i>Allylpalladium Complexes of Mixed-Donor Diphosphazane Ligands Bearing a Stereogenic Phosphorus Centre: Structure and Stereodynamics</i>	<b><i>Eur. J. Inorg. Chem.</i> 2002, 8, 2047–2056</b>

## Book Chapter

**Swadhin K. Mandal** and Herbert W. Roesky “Designing Molecular Catalysts Based on Enhanced Lewis Acidity” *Adv. Cat.* **54**, **2011**, **1- 61**, Editors: Bruce C. Gates (Series Editor), Helmut Knoezinger (Series Editor), Friederike C. Jentoft (Series Editor), academic press.

## Patents Granted

Patent Name	Patent Holders	Year	Indian Application/International Application No.	International Application No.
Abnormal N-heterocyclic Carbene Copper(1) Complexes, Synthesis and Applications Thereof	<b>Mandal, S. K.</b> and Sau, S. Ch.	2013	Indian Patent Application No. 1042/KOL/2013 (Filed on: 06/09/2013)	Indian Patent No. 338890; Granted on: 19/06/2020
Lipid Based Platinum N- heterocyclic Compounds and Nanoparticles	Sarkar, A.; <b>Mandal, S. K.</b>	2014	US2016/0122377	US Patent No 10017531, Granted on 10 <sup>th</sup> July, 2018