

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

Sl No.	Authors	Title	References
135.	Subir Maji, Mandira Saha, Satyaki Sinha, Priyankar Majumder, and <u>Swadhin K. Mandal</u>	Metal-Free Catalytic N-Methylation of NH-Sulfoximines Using CO ₂	<i>Org. Lett.</i> 2025, in press
134.	Paramita Datta, Subir Maji, Prativa Biswas, Divya Jain, Partha Protim Dey and <u>Swadhin K. Mandal</u>	Organophotocatalytic Redox-Neutral Strategy for Late-Stage Drug Functionalization with SO ₂ Gas	<i>Chem. Sci.</i> 2025, 16, 5064-5075
133.	Amit Biswas, Simon Kolb, Sebastian H. Rottger, Arpan Das, Lukas J. Patalag, Partha P. Dey, Swagata Sil, Subir Maji, Soumi Chakrabarty, Oliver S. Wenger, Anup Bhunia, Daniel B. Werz and <u>Swadhin K. Mandal</u>	A BOIMPY Dye Enables Multi-Photoinduced Electron Transfer Catalysis: Reaching Super-Reducing Properties	<i>Angew. Chem. Int. Ed.</i> 2025, 64, e202416472
132.	Subir Maji, Biplab Gope, Madhur Sharma, Arpan Das, Anex Jose, Amit Biswas, Kalishankar Bhattacharyya and <u>Swadhin K. Mandal</u>	Independent LUMO Reactivity in Mesoionic N-Heterocyclic Thiones: Synthesis of a Stable Radical Anion	<i>Angew. Chem. Int. Ed.</i> 2025, 64, e202418673

131.	Sreejyothi P, Nimisha Gautam, Subir Maji, Kalishankar Bhattacharyya and <u>Swadhin K. Mandal</u>	Transition Metal-Mimicking Relay Catalysis by a Low-Valent Phosphorus Compound	<i>J. Am. Chem. Soc.</i> 2024, 146, 16743–16752
130.	Swagata Sil, Krishnapriya Anattil Unnikrishnan, Pallabi Mandal, Rositha Kuniyil and <u>Swadhin K. Mandal</u>	Cross-coupling between Aryl Halides and Aryl Alkynes Catalyzed by an Odd Alternant Hydrocarbon	<i>Chem. Eur. J.</i> 2024, e202400895
129.	Arpan Das, Sukanta Saha, Subir Maji, Pallavi Sarkar, Anex Jose, Madhur Mahesh Bhatt, Anup Bhunia, Arnab Dutta, Swapan K. Pati, <u>Swadhin K. Mandal</u>	Highly Stable Self- Regenerating Organic Multi- Redox Systems derived from Bicyclic (Alkyl)(amino)carbenes (BICAACs)	<i>Chem. Eur. J.</i> 2024, e202303411

128. Subir Maji, Arpan Das, Madhur Mahesh Bhatt and <u>Swadhin K. Mandal</u>	Metal-Free Organocatalytic S-Formylation of Thiols using CO₂	<i>Nature Catalysis</i> 2024, 7, 375-385
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127.	Paramita Datta, Debojyoti Roy, Divya Jain, Shiv. Kumar, Swagata Sil, Anup Bhunia, Jyotishman Dasgupta and <u>Swadhin K. Mandal</u>	Uncovering the On- pathway Reaction Intermediates for Metal- Free Atom Transfer Radical Addition to Olefins through Photogenerated Phenalenyl Radical Anion	<i>ACS Catalysis</i> 2024, 14 , 3420-3433
126.	Shiv Kumar, Paramita Datta, Anup Bhanja and <u>Swadhin K.Mandal</u>	Denitrogenation of Tosylhydrazones: Synthesis of Aryl Alkyl Sulfones Catalyzed by Phenalenyl Based Molecule	<i>Catal. Sci. Technol.</i> 2024, 14 , 174-182
125.	Nimisha Gautam, Ratan Logdi, Sreejyothi P, Antara Roy, Ashwani K. Tiwari and <u>Swadhin K. Mandal</u>	<i>Bicyclic (alkyl)(amino)carb ene (BICAAC) in Dual Role: Activation of Primary Amides and CO₂ towards Catalytic N- Methylation</i>	<i>Chemical Science</i> 2023, 14 , 5079-5086

124.	Paramita Datta, Tanmay Goswami, Noufal Kandoth, Ananya Banik, Jasimuddin Ahmed, Athul Santha Bhaskaran, Ramchandra Saha, Rositha Kuniyil, Hirendra N. Ghosh, <u>SwadhinKumar</u> Mandal	<i>Generation of Photoinduced Phenalenyl-Based Radical: Towards Designing Reductive C-C Coupling Catalysis</i>	<i>ChemPhotoChem</i> 2023, Just Accepted
123.	Ananya Banik, Paramita Datta and <u>Swadhin K.</u> Mandal	<i>C-Alkylation by Phenalenyl-based Molecule via Borrowing Hydrogen Pathway</i>	<i>Organic Letters</i> 2023, 25,8, 1305–1309

122.	Amit Biswas, Anup Bhunia and <u>SwadhinK. Mandal</u>	<i>Mechanochemical Solid State Single Electron Transfer from Reduced Organic Hydrocarbon for Catalytic Aryl- halide Bond Activation</i>	<i>Chemical Science</i> 2023, 14, 2606-2615
121.	Soumi Chakraborty, Rounak Nath, AnujKumar Ray, Ankan Paul and <u>SwadhinK. Mandal</u>	<i>Metal-Ligand Cooperativity in Mn(I)-Catalyzed N-Formylation of Secondary Amides and Lactams using CO₂ at Room Temperature</i>	<i>Chem. Eur. J.</i> 2023, 29, e202202710(6 of 9)

120.	Swagata Sil, Athul Santha Bhaskaran, Soumi Chakraborty, Bhagat Singha, Rositha Kuniyil and <u>Swadhin K. Mandal</u>	<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.</i> 2022, 144 , 49, 22611–22621
119.	Arpan Das, Pallavi Sarkar, Subir Maji, SwapanK. Patiand <u>Swadhin K. Mandal</u>	<i>Mesoionic N- Heterocyclic Imines as Super Nucleophiles in Catalytic Coupling of Amides by CO₂</i>	<i>Angew. Chem. Int. Ed.</i> 2022, 61 , e202213614(1 of10)

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

113.	Soumi Chakraborty, ArpanDas , and <u>SwadhinK. Mandal</u>	<i>Redox-active Ligand Based Mn(I)-Catalyst for Hydrosilylative Ester Reduction</i>	<i>Chem. Commun.</i> 2021, 57, 12671- 12674
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112.	Subir Maji, ArpanDas and <u>Swadhin K. Mandal</u>	<i>Mesoionic N-heterocyclic Olefin Catalysed Reductive Functionalization of CO₂ for Consecutive N-Methylation of Amines</i>	<i>Chemical Science,</i> <i>2021,12,12174-12180</i>
111.	Arpan Das, Soumi Chakrabortyand <u>Swadhin K. Mandal</u>	<i>Abnormal N-heterocyclic Carbene Based Ni(II) π-allyl Complex towards Molecular Oxygen Activation</i>	<i>Chemistry—An Asian Journal,</i> <i>2021, 16, 2257–2260</i>
110.	Sreejyothi P, Kalishankar Bhattacharyya, Shiv Kumar, Pradip Kumar Hota, Ayan Datta and <u>Swadhin K. Mandal</u>	<i>An NHC-stabilized phosphinidene for catalytic formylation: A DFT guided approach</i>	<i>Chem.-Eur. J</i> <i>2021, 27, 11656–11662</i>
109.	Ananya Banik, Jasimuddin Ahmed, SwagataSil, <u>Swadhin K. Mandal</u>	<i>Mimicking Transition Metals in Borrowing Hydrogen from Alcohols</i>	<i>Chemical Science,</i> <i>2021,12, 8353-8361</i>
108.	Bhagat Singh, Jasimuddin Ahmed, Amit Biswas, RupankarPaira, and <u>Swadhin K. Mandal</u>	<i>Reduced Phenalenyl in Catalytic Dehalogenative Deuteration and Hydrodehalogenationof Aryl Halides</i>	<i>J. Org. Chem</i> <i>2021, 86, 10, 7242–7255</i>

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

105.	Arpan Das, Jasimuddin Ahmed, N. M. Rajendran, Debashis Adhikari and <u>Swadhin K. Mandal</u>	<i>A Bottleable Imidazole-Based Radical as a Single Electron Transfer Reagent</i>	<i>J. Org. Chem.</i> 2021, 86, 1246–1252
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104.	Pradip Dutta, Smita Kumari, Justin Paulraj, Rupali Sharma, Gonela Vijaykumar, Hari Sankar Das, Prasannakumar	<i>Novel Phenalenyl Based Platinum Anticancer Compound with Superior Efficacy: Design, Synthesis,</i>	<i>New Journal of Chemistry, 2021,45, 10524- 10533</i>
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	Sreejyothi, Swagata Sil, <u>Swadhin K. Mandal</u> , 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, <u>SwadhinMandal</u> , 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 <u>Swadhin K Mandal</u>	<i>From CO₂ Activation to CatalyticReduction: A Metal- free Approach</i>	<i>Chemical Science 2020 11, 10571 - 10593</i>
101.	Soumi Chakraborty, Jasimuddin Ahmed, ArpanDas and <u>Swadhin K Mandal</u>	<i>Designing Cr-catalyst Bearing a Redox Non-innocent Phenalenyl-Based Ligand towards Hydrosilylative CO₂ 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, <u>Swadhin K Mandal</u> , Prasannakumar Sreejyothi, Ravindra Dhar Dubey, ArindamSarkar, Zihou Li, Zheyu Shen, Aiguo Wu, NarayanS. Hosmane	<i>New Boron-Containing Lipids and Liposomes: Preparation and Properties</i>	<i>Chem. -Euro. J. 2020, 26, 13832- 13841</i>
99.	MrinalBhunia, Sumeet Ranjan Sahoo, Arpan Das, Jasimuddin	<i>Transition Metal-Free CatalyticReduction of Primary Amides Using an Abnormal</i>	<i>Chemical Science 2020, 11, 1848- 1854</i>

	Ahmed, SreejyothiP. and <u>Swadhin K. Mandal</u>	<i>NHC based Potassium Complex: Integrating Nucleophilicitywith Lewis Acidic Activation</i>	
98.	SamareshChandra Sau, Pradip Kumar Hota, <u>Swadhin K. Mandal</u> ,Michele Soleilhavoup and GuyBertrand	<i>Stable Abnormal N-Heterocyclic Carbenes and theirApplicationsin Catalysis</i>	<i>Chem.Soc. Rev.</i> 2020, 49, 1233-1252
97.	Zheyu Shen, Ting Liu, Zhen Yang, ZijianZhou, WeiTang, Wenpei Fan, Yijing Liu, Jing Mu, Ling Li, Vladimir I Bregadze, <u>Swadhin K Mandal</u> , 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>, 2020 119783.
96.	MrinalBhunia, SreejyothiP and <u>Swadhin K. Mandal</u>	<i>Earth-abundant metal catalyzed hydrosilylative reductionof variousfunctional groups</i>	<i>Coord. Chem. Rev.</i>,2020,405, 213110
95.	Pradip Kumar Hota, Subir Maji,JasimuddinAhmed, N. M. Rajendran and <u>Swadhin K. Mandal</u>	<i>NHC-catalyzed Silylative Dehydration of Primary Amidesto Nitriles at Room Temperature</i>	<i>Chem. Commun.</i>, 2020, 56, 575-578
94.	Anna A. Druzina, Akim V. Shmal'ko, Ekaterina P. Andreichuk, Olga B. Zhidkova, Irina D. Kosenko, Andrey Semioshkin, Igor B. Sivaev, <u>SwadhinMandal</u> , Zheyu Shen and Vladimir I. Bregadze	<i>'Click' synthesis of cobalt bis(dicarbollide)-cholesterol conjugates</i>	<i>Mendeleev Commun.</i>,2019, 29, 628–630

93.	Jasimuddin Ahmed, Asim Kumar Swain, R. Govindarajan, Mrinal Bhunia and <u>Swadhin K. Mandal</u>	<i>Transition metal free catalytic terminal alkyne functionalization across the C-X triple bond (X = CH, N): E-Selective dimerization under ambient conditions</i>	<i>Chem. Commun.</i> 2019, 55, 13860-13863
92.	Govindarajan, R; Ahmed, Jasimuddin; Swain, Asim; <u>Swadhin K. Mandal</u>	<i>Transition Metal-Free Catalytic Carboalkoxylation of Styrenes at Room Temperature</i>	<i>J. Org. Chem.</i> 2019, 84, 13490-13502
91.	Hari S. Das, Shyamal Das, Kartick Dey, Bhagat Singh, Rahul K. Haridasan, Arpan Das and <u>Swadhin K. Mandal</u>	<i>Primary Amides to Amines or Nitriles: Dual Role by a Single Catalyst</i>	<i>Chem. Commun.</i> 2019, 55, 11868-11871
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89.	Arpan Das, Pradip Kumar Hota, and <u>Swadhin K. Mandal</u>	<i>Nickel Catalyzed C(sp²)-H Borylation of Arenes</i>	<i>Organometallics</i> , 2019, 38, 3286-3293
88.	Das, Shyamal; Das, Hari; Singh, Bhagat; Haridasan, Rahul; Das, Arpan; <u>Mandal, Swadhin</u>	<i>Catalytic Reduction of Nitriles by Polymethylhydrosiloxane Using a Phenalenyl Based Iron (III) Complex</i>	<i>Inorg. Chem.</i> , 2019, 58, 11274-11278

87.	Nimish Gupta, Aasif Ansari, Gaurao V Dhoke, Maheshwerreddy Chilamari, Jwala Sivaccumar, Smita Kumari, Snigdha Chatterjee, Ravinder Goyal, Mallik Samarla, Madhumita Mukherjee, Arindam Sarkar, <u>Swadhin K Mandal</u> , 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> 2019, 3, 917–929
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, <u>Swadhin K Mandal</u> , 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> 2019, 55, 1718-1721
85.	Mrinal Bhunia; Sumeet Ranjan Sahoo; Bikash Kumar Shaw; Anand Pariyar; Gonela Vijaykumar; S. Vaidya; Debasish Adhikari; <u>Swadhin K. Mandal</u>	<i>Storing Redox Equivalent in the Phenalenyl Backbone Towards Multielectron Reduction</i>	<i>Chemical Science</i> 2019, 10, 7433-7441
84.	Gonela Vijaykumar; Mrinal Bhunia and <u>Swadhin K. Mandal</u>	<i>Phenalenyl-based Nickel Catalyst for Hydroboration of</i>	<i>Dalton Trans.</i> , 2019, 48, 5779-5784

		Olefins under Ambient Conditions	
83.	Samaresh Chandra Sau; Rameswaran Bhattacharjee; Pavan K Vardhanapu; Pradip Kumar Hota; GVijaykumar; R. Govindarajan; Ayan Datta; <u>Swadhin K. Mandal</u>	<i>Metal-Free Capture of CO₂ from Air and its Reduction into Alternative Fuel under Ambient Conditions</i>	<i>Chemical Science</i> 2019, 10, 1879-1884.
82.	Pavan Vardhanapu; Jasimuddin Ahmed; Anex Jose; Bikash Shaw; Tamal Sen; Amita Mathews; <u>Swadhin K. Mandal</u>	<i>Phenalenyl based Aluminum Compound for Catalytic C-H Arylation of Arene and Heteroarenes at Room Temperature</i>	<i>J. Org. Chem.</i>, 2018, 84, 289-299.
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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 ApplicationNo.
Abnormal N-heterocyclic Carbene Copper(1) Complexes, Synthesis and Applications Thereof	Mandal, S. K. and Sau, S. Ch.	2013	IndianPatent Application No. 1042/KOL/2013 (Filed on: 06/09/2013)	IndianPatent No. 338890; Granted on: 19/06/2020
LipidBasedPlatinum N- heterocyclic Compounds and Nanoparticles	Sarkar, A.; Mandal, S. K.	2014	US2016/0122377	US Patent No 10017531, Granted on 10 th July, 2018