Resume

1. Name and full correspondence address

Prof. Niranjan Panda
Department of Chemistry
National Institute of Technology Rourkela
Odisha-769008, India

2. Email(s) and contact number(s)

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3. Institution: National Institute of Technology Rourkela
4. Date of Birth: 21.06.1976
5. Academic Qualification (Undergraduate onwards)

	Degree	Year	Subject	University/Institute	%age of Marks
1	B. Sc. (Chem.)	1996	Chem. Hons.	Utkal University	74.6
2	M. Sc. (Chem.)	1998	Org. Chem.	Ravenshaw College, Utkal University	77.7 *(secured highest %age of marks)*
3	Ph.D.	2006	Organic Synthesis	IIT, Kharagpur	

Thesis Title: Generation and Trapping of Pyridine *o*-Quinodimethanes and Their Functional Analogues: Synthesis of Heterolignans and Conformationally Restricted Analogues of Nicotine**.**

Guide's Name: Prof. T. K. Sarkar , IIT Kharagpur

6. Work experience (in chronological order)

S.No.	Positions held	Name of the Institute	From	To
4	Professor	NIT Rourkela	Feb. 2020	Till date
3	Asso. Professor	NIT Rourkela	01.07.2008	Feb. 2020
2	Asst. Professor	NIT Rourkela	13.07.2006	30.06.2008
1	Postdoc	Technion-Israel Institute of Technology, Israel With Prof. E. Keinan		

7. Publications

Total No. of Publications: 48
Total No. of citation: 1483, h-index: 18; i10-index: 32 (google scholar)

List of Publications

S. No.	Author(s)	Title	Name of Journal	Volume	Page	Year
48	S. Mohapatra and N. Panda*	Thermally Generated Bromine "Cation Pool-"Mediated Oxidation of Indole to 2-Oxindole	***Tetrahedron Lett.***	142	155109	2024
47	S. K. Gupta and N. Panda*	Palladium-Catalyzed C3-Carbaldehyde Directed Regioselective C2-Thioarylation of Indoles https://doi.org/10.1002/asia.202400272	***Chem. Asian J***		e202400272	2024
46	S. Maity and N. Panda,*	Access to 2,3-UnsubstitutedImidazo[2,1-b][1,3]benzothiazole Using Ethylene Glycol as a C2 Precursor and Subsequent Regioselective C3-Functionalization	***Chemistryselect***	9	e20240020	2024
45	P. G. Dalai, S. Swain, and N. Panda*	DMSO−DCE Triggered Chemodivergent C-Methylenation of Electron-Rich Arenes: An Easy Access to Diarylmethanes	***J. Org. Chem.***	*89*	2599	**2024**
44	K. Palit and N. Panda*	Metal-Free Regioselective Chlorosulfenylation of Indoles by Dimethylsulfoxide and 1,2-Dichloroethane	***Eur. J. Org. Chem.***	*2024*	e202400110	**2024**
43	P. G. Dalai, S. Swain, S. Mohapatra and N. Panda,*	Metal-Free C−H Sulfamidation of 1,4-Naphthoquinone in Water	***J. Org. Chem.***	*88*	13760	**2023**
42	S. K. Gupta and N. Panda*	Weak Chelating Group Directed Palladium-catalyzed C-4 Arylation of Indoles,	***J. Org. Chem.***	*88*	4254	**2023**
41	K. Palit, N. Sepay, and N. Panda*	Arylative Methylation of 2,3-Dihydropyrazines and Pyrazinones Using Dimethyl Sulfoxide as a C1 Source	***J. Org. Chem.***	*88*	2931	**2023**
40	P. G. Dalai, and N. Panda,*	Benzannulation and N-Annulation of β-Ketoenamines for Synthesizing Aniline and Pyridine Derivatives Using DMSO as a Methine Source	***Adv. Synth. Catal.***	*364*	3736	**2022**
39	K. Sahoo, and N. Panda*	Iron(III) Chloride Mediated *para*-Selective C-H Functionalization: Access to C5-Chloro and C5,C7-Dichloro /Dianisyl Substituted 2-Arylbenzoxazoles	***Adv. Synth. Catal.***	*364*	1023	**2022**
38	P. G. Dalai, K. Palit and N. Panda,*	Generation of Dimethyl Sulfoxide Coordinated Thermally Stable Halogen	***Adv. Synth. Catal.***	*364*	1031	**2022**

		Cation Pools for C-H Halogenation				
37	S. Ojha and N. Panda, *	Pd-Catalyzed desulfitative arylation of olefins by N-methoxysulfonamide,	***Org. Biomol. Chem.***	*20*	1292	**2022**
36	P. Mishra, and N. Panda*	Total Synthesis of AGI-7 and Sescandelin from Enol Esters	***Chemselect***	*7*	e20220 1791	**2022**
35	P. Mishra, N. Sepay, N. Panda*	Access to chromone-3-carboxylic acid via silver mediated coupling of 4-hydroxy coumarin and enol ester,	***Tetrahedron Lett.***	*75*	153206	**2021**
34	S. Ojha and N. Panda,*	N-Methoxy arenesulfonamide as a Sulfonyl Equivalent For Palladium-Catalyzed Sulfonylation of Arenes Through C-H Activation	***Asian J. Org. Chem.***	*10*	1665	**2021**
33	S. Maity, S. K. Gupta, and N.n Panda*	Iron(II)-catalyzed Oxidative Coupling of Vicinal Diols and 2-Amino-1,4-naphthoquinone for the Synthesis of Pyrrolonaphthoquinones and Furanonaphthoquinones	***Asian J. Org. Chem.***	*10*	3355	**2021**
32	K. Sahoo, P. Pradhan and N. Panda, *	Access to C4-arylated benzoxazoles from 2-amidophenol through C-H activation	***Org. Biomol. Chem.***	*18*	1820	**2020**
31	S. Ojha and N. Panda,*	Palladium-catalyzed *ortho*-benzoylation of sulfonamides through C–H activation: Expedient synthesis of cyclic *N*-sulfonyl ketimines	***Adv. Synth. Catal.***	*362*	571	**2020**
30	N. Panda,* and S. A. Yadav	Ni-catalyzed deacylative oxosulfonamidation of vinyl acetate	***Asian J. Org. Chem***	*8*	266	**2019**
29	N. Panda,* and K. Sahoo	Niranjan Panda,* and Kanchanbala Sahoo, Synthesis of 4-alkenyl benzoxazoles via Pd-catalyzed ortho C-H functionalization of 2-amidophenols	***Adv. Synth. Catal.***	*361*	617	**2019**
28	N. Panda* and S. Ojha	Facile Synthesis of Pyrazoles by Iron-catalyzed Cyclization of Hydrazone and 1,2-diol under Ligand-free Conditions,	***J. Organometallic Chem.***	*861*	244	**2018**
27	N. Panda,* I. Mattan, S. Ojha, C.S. Purohit	Synthesis of medium-sized (6-7-6) ring compounds by iron-catalyzed dehydrogenative C-H activation/annulation,	***Org. Biomol. Chem.***	*16*	7861	**2018**
26	N. Panda* and I. Mattan	One-pot two-step synthesis of 3-iodo-4-aryloxy coumarins and their Pd/C-catalyzed annulation to coumestans,	***RSC Adv.***	*8*	7716	**2018**
25	N. Panda,* S.A. Yadav	Palladium-Catalyzed Oxamidation of Alkenes: A New Approach to Benzoxazolidines,	***Tetrahedron***	*74*	1497	**2018**

24	S. Panda, A. Jadav, N. Panda and S. Mohapatra*	A novel carbon quantum dot-based fluorescent nanosensor for selective detection of flumioxazin in real samples	***New J. Chem.***	*42*	*2074*	**2018**
23	N. Panda* and D. K. Nayak,	Facile Synthesis of 3(2H)-Furanones	***Monatsh. Chem.***	*149*	1093	**2018**
22	D. K. Nayak, N. Panda*	Synthesis of 2-Aryl Benzoxazoles from Aldoximes	***MOJ Bioorg. Org. Chem.***	*1*	32	**2017**

21	N. Panda,* S. A. Yadav, S. Giri	Palladium-Catalyzed Oxidative Sulfamidation: A Stereoselective Synthesis for Enesulfonamides	***Adv. Synth. Catal.***	359	654	**2017**
20	N. Panda,* P. Mishra, I. Mattan	Synthesis of Isocoumarins via Silver(I)-mediated Annulation of Enol-esters	***J. Org. Chem.***	81	1047	**2016**
19	N. Panda,* I. Mattan, D. K. Nayak	Synthesis of Dibenzofurans via C-H Activation of ortho-Iodo Diarylethers	***J. Org. Chem.***	80	6590	**2015**
18	N. Panda,* A. K. Jena	Cu/Fe-Catalyzed Carbon-Carbon and Carbon-Heteroatom Cross-Coupling Reactions	***Org. Chem. Curr. Res.***	4	1	**2015**
17	N. Panda,* and R. Mothkuri	Synthesis of Substituted Oxazoles from Enamides	***New J. Chem.***	35	5727	**2014**
16	N. Panda, R. Mothkuri and D. K. Nayak	Copper-Catalyzed Regioselective Synthesis of *N*-aryl Amides from Aldoximes and Aryl Halides	***Euro. J. Org.Chem.***		1602	**2014**
15	N. Panda,* R. Mothkuri, A. Pal, A.R. Paital	Copper -catalyzed Synthesis of α-Naphthols from Enol Esters	***Adv. Synth. Catal.***	355	2809	**2013**
14	N. Panda,* A. K. Jena	Fe-catalyzed one-pot Synthesis of 1,3- and 1,3,5-substituted pyrazoles from hydrazones and vicinal diols"	***J. Org.Chem.***	77	9401	**2012**
13	N. Panda,* M. Raghavender	Stereoselective synthesis of enamides by Pd-catalyzed hydroamidation of electron deficient terminal alkynes	***J. Org.Chem.***	77	9407	**2012**
12	N. Panda,* A. K. Jena, M. Raghavender,	Stereoselective synthesis of enamides by palladium catalyzed coupling of amides with electron deficient olefins	***ACS catalysis***	2	539	**2012**
11	N. Panda,* A. K. Jena, S. Mohapatra,*	Heterogeneous magnetic catalyst for S-arylation reactions	***Applied Catalysis A: General***	433-434	258	**2012**
10	N. Panda,* A. K. Jena, S. Mohapatra	Ligand-Free Fe-Cu Co-catalyzed Cross-coupling of Phenyl Acetylene with Aryl Halides	***ChemistryLetters***	40	956	**2011**
9	N. Panda,* A. K. Jena, S. Mohapatra, S. R. Rout	Copper Ferrite Nanoparticle Mediated N-Arylation of Heterocycles: A Ligand Free Reaction	**TetrahedronLetters**	52	1924	**2011**
8	N. Panda,* S. Karmakar, A. K. Jena,	Synthesis and antibacterial activity of some novel pyrazolopyridine derivatives Chemistry of Heterocyclic compounds	***Chem. HeterocycliccComp***	46	1500	**2011**
7	N. Panda,* H	Decolourization of Methyl	**J. Hazard.**	185	359	**2010**

	Sahoo, S. Mohapatra	Orange	**Mater.**			
6	S Mohapatra,* N Panda, P Pramanik	Boronic acid functionalized superparamagnetic iron oxide nanoparticle as a novel tool for adsorption of sugar	**Materials Science and Engineering: C**	29	2254	**2009**
5	T. K. Sarkar,* A. Hazra, P. Gangopadhyay, N. Panda, Z. Slanina, C.-C. Lin, H.-T. Chen,	Synthesis of the necine bases (±)-macronecine and (±)-supinidine via an aza-ene reaction and allylsilane induced ring closure,	***Tetrahedron***	61	1155	**2005**
4	T. K. Sarkar, N. Panda, S. Basak	A Sequential Pummerer-Diels-Alder Route for the Generation and Trapping of Furo[3,4-*c*]pyridines: Synthesis of Heterocyclic Analogues of 1-Arylnaphthalene Lignans	***J. Org. Chem.***	68	6919	**2003**
3	H.-K. Fun,* A. Usman, I. A. Razak, S. Chantraprom, T. K. Sarkar, S. Basak, N. Panda	Dimethyl 1,3-dichloro-8-phenyl-5-phenylsulfanylisoquinoline-6,7-dicarboxylate	***Acta Cryst*.**	E58	0215	**2002**
2	Usman, T. K. Sarkar, N. Panda, H.-K. Fun,*	Methyl (1 SR,8 RS,10 SR)-3,5-dichloro-1-(4-methoxyphenyl)-8-(phenylthio)-11-oxa-4-azatricyclo[6.2.1.0]^{2,7}undeca-2,4,6-triene-10-carboxylate	***Acta Cryst*.**	E58,	01402.	**2002**
1	T. K. Sarkar,* S. Basak, N. Panda	A Pummerer-based generation and trapping of furo[3,4-*c*]pyridines: an approach to nitrogen containing heterocyclic analogues of 1-arylnaphthalene lignans	***Tetrahedro nLett*.**	43	1341	**2002**

Ph.D. Awarded as PI

Sl. No.	Name of the student	Thesis Title	Year of Award	Current position of the student
1	Ashis Kumar Jena	Cu/Fe-Catalyzed C-C, C-N and C-S Cross-Coupling Reactions: Synthesis of Biologically Important Heterocycles	2015	Asst. Professor at Maharaja Sriram Chandra Bhanjadeo University (Erstwhile North Orissa University) Odisha, Odisha
2	Raghavender Mothkuri	Generation of Enamides and Enol Esters: Their Application in Oxazole and α-Naphthol Synthesis	2015	Scientist, Natco Pharma Hyderabad
3	Dinesh Kumar	C-N and C-O Bond Formation	2018	Lecturer, in Odisha state

	Nayak	Reactions: Synthesis of N-Aryl Amides, Benzoxazoles and 3(2H)-Furanones		college.
4	Irshad Mattan	Hypervalent iodine-mediated synthesis of ortho-iododiaryl ether and subsequent annulation to biologically potent heterocycles	2018	Research Scientist - Jubilant Biosys Limited
5	Sushree Arpitabala Yadav	Synthesis of Enesulfonamides and Benzoxazolidines ThroughTransition-metal Catalyzed C-N Bond Formation	2019	Post-doctoral Fellow at IIT Bombay
6	Priyadarshini Mishra	Enol ester: A Versatile Synthetic Equivalent for Isocoumarin and Chromone Synthesis	2022	Postdoctoral fellow at IIT Kanpur
7	Subhadra Ojha	Transition Metal-Catalyzed C-C and CHeteroatom Bond Formation through Radical Process	2023	Post-doctoral Fellow at IIT Gandhinagar
8	Kanchanbala Sahoo	Transition Metal-Promoted Synthesis of Remotely Functionalized 2-Aryl Benzoxazoles from 2-Amidophenol through C-H Functionalization	2023	Post-doc at IISER Berhampur
9	Pallaba Ganjan Dalai	Thermally Stable Cation-Pools in C-X (X = Halogen) and C-C Bond Formation	2024	NIT Rourkela

List of Sponsored Projects implemented/continuing (As PI)

1. **Project Title**: Generation and Trapping of Furo[3,4-c]pyrazoles: Synthesis of Biologically Potent Heterocyclic Analogues. Ref: SR/FTP/CS-101/2006 Dt. 27.08.2007

2. **Project Title**: Magnetic Nanoparticle Mediated Cross-coupling Reactions: Synthesis ofBiologically Potent Molecules. Reference: SR-S1/OC-60/2011 Dt. 30.04.2012

3. **Project Title**: Iron-catalyzed cross-coupling reactions: An expedite synthesis ofHeterocycles Reference: 2012/37C/3/BRNS Dt. 28-May- 2012

4. ***Project Title:*** *Development and reactions of stereoselective enamids and enol-esters* Reference: SB/S1/OC-21/2014 Dt. 31-10-2014

5. ***Project Title:*** Transition-Metal Catalyzed C-H activation and functionalization: Synthesis of Heterocycles.
   Reference: : 02(0278)/16/EMR-11 dated 6.12.2016

6. ***Project Title:*** Reusable Transition Metal Catalyst mediated C-C and C-heteroatom Bond Formation through C(sp2)-H Activation Reaction
   Reference: EMR/2017/002827 dated 14, Nov. 2018

7. ***Project Title:*** Synthesis of remotely C-H functionalized heterocycles for photo-physical applications
   Reference: 02(0444/21/EMR-II) dated 08.06.2021 (continuing)

8. **Project Title**: "Cation Pool" Mediated carbon-carbon and carbon-heteroatom bond formation. Reference: CRG/2023/000857 dated 16.03.2024 (continuing)

List of Sponsored Projects implemented/continuing (As co-PI)

1) **Project Title**: Development of functionalized ferrite nanoparticles for targeted Tumor Therapy. Reference: BT/PR11548/NNT/28/420/2008 (completed)
2) **Project Title**: Analysis of role of MTP18-dependent mitophagy in oral carcinogenesis and its targeting to activate m. Reference: 202112HLC01RP07021-BRNS (continuing)

Member of professional Society

Life member: Orissa Chemical Society (OCS) and
Chemical Research Society of India (CRSI)
Indian Chemical Society (ICS)

Member of Board of Studies, VSSUT, Burla

Administrative Responsibility taken at NIT Rourkela

1. Dean (Student Welfare), (2024-)
2. Chief Warden (2021-2024)
3. PIC, Institute Seminar (2017-2019)
4. Head, Department of Chemistry (2013-2016)
5. Warden M. Vusveswaray Hall of Residence (2010-2013)

Honors and awards

Awarded for securing highest marks in M.Sc., 1998

National conferences attended - More than 20

International conferences attended-6

Invited Talks delivered

1. Transition metal catalyzed Cross-Coupling Reactions: Synthesis of pyrazoles and oxazoles, Ravenshaw University, Cuttack, 2012.
2. Copper Ferrite: A Greener Catalyst for Cross-coupling Reactions at Nilasaila College, 2013.
3. Synthetic Applications of Enamides and Enol-esters, at Berhampur University, 2015.
4. Synthesis and reactivity of Enamides and Enol-esters, at BARC, Mumbai, 2015.
5. Synthetic Applications of Enamides and Enol-esters, at Berhampur University, 2015.
6. Transition metal catalyzed Cross-Coupling Reactions: Application to pyrazole and oxazole synthesis, at Municipal College, Rourkela, 2017.
7. Enamides and Enol-esters in Organic Synthesis, at Manipal University, 2017.
8. Synthesis Reactivity of Enamides and Enol-esters, at Calcutta University, 2018.
9. Synthesis and Reactivity of Enamides and Enol-esters, at IIT Kharagpur, 2019.
10. Cu/Fe-based catalysts for Cross-coupling Reactions, at Centurian University, Bolangir, 2020.
11. Transition metal mediated C-C and C-heteroatom bond formation: An approach to access newer heterocycles, at Department of Chemistry, Ravenshaw University, 2022.
12. Synthesis of substituted N-heterocycles through site-selective C-H Functionalization, at North Eastern Hill University (NEHU), Shillong, 2023.
13. Synthesis of site-selective functionalized *N*-heterocycles through C-H Functionalization: A sustainable approach, IIT Indore, 2023.

Teaching interest

1. Pericyclic reactions
2. Methods in Organic synthesis
3. Name Reactions and Rearrangements
4. Organic Spectroscopy