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**Education and Work Experience:**

- Assistant Professor: (**May 2023–to-date**) Department of Chemistry, School of Chemical Sciences and Pharmacy, Central University of Rajasthan.
- Assistant Professor (UGC-FRP): (**May 2014–May 2023**) Department of Chemistry, School of Chemical Sciences and Pharmacy, Central University of Rajasthan.
- Post-doc: (**Sept. 2013– May 2014**), Department of Chemistry and Biological Chemistry, Nanyang Technological University (NTU), Singapore.
Supervisor: Prof. Rei Kinjo
- Post-doc: (**Sept. 2010 – Sept. 2013**) Department of Chemistry and Biochemistry, University of Texas at Arlington, USA.
Supervisor: Prof. H. V. Rasika Dias
- Ph. D.: (**2010**) Department of Chemistry, Indian Institute of Technology Bombay, Mumbai, India.
Dissertation: “*Triazole Derived N-heterocyclic Carbene Complexes in catalytic C–N and C–C Bond Forming Reactions.*”
Supervisor: Prof. Prasenjit Ghosh

Awards and Fellowship:

- Young scientist award from DST (March 2015) on the project title “Designing novel late transition metal catalysts for atom/group transfer reactions”.
- Selected as an UGC-Assistant Professor under the UGC-Faculty Recharge Programme (2013).
- Awarded Research Fellowship (JRF/SRF) sponsored by CSIR-UGC, New Delhi, India (2005-2010).
- CSIR partial travel grants to attend the 238th ACS National meeting and Exposition at Washington DC, USA (2009).
- Qualified Graduate Aptitude Test in Engineering (GATE 2004).

Research Subjects:

Organometallic Chemistry and Homogeneous Catalysis

Research Areas:

- Metal catalyzed organic transformations, N-heterocyclic carbene chemistry
- Photocatalysis, C-H bond functionalization

Teaching Experience:

- May 2023–to-date: Assistant Professor, Department of Chemistry, School of Chemical Sciences and Pharmacy, Central University of Rajasthan
- May 2014–May 2023: Assistant Professor (UGC-FRP), Department of Chemistry, School of Chemical Sciences and Pharmacy, Central University of Rajasthan
- Jan. 2006–Nov. 2006 Teaching Assistantship (General Chemistry and Laboratory class for undergraduate students), Department of Chemistry, Indian Institute of Technology, Bombay, India.

Course Taught:

UG.: Organic Chemistry, Organic Chemistry Laboratory I, Inorganic Chemistry Laboratory I,
 PG.: Chemistry of Main group elements, Organometallic Chemistry, Green Chemistry, Pericyclic reactions and photochemistry, Inorganic Chemistry Laboratory II
 Ph.D.: Advanced Inorganic Chemistry

Other Professional Activities:

- Lifetime Member (LM 1889), Chemical Research Society of India (CRSI)
- Lifetime Member, Odisha Chemical Society (OCS)
- Member, American Chemical Society (ACS)

Sponsored Research Projects:

- Title: Rational design and development of earth-abundant iron-based catalysts for sustainable borylation. Funding agency: ANRF. Grant-in-aid: Rs. 27,03,120/- as Co-PI (Mar. 2026- Feb. 2029).
- Title: Development of high valent cobalt catalysts for the synthesis of bioactive heterocycles via C-H bond functionalization. Funding agency: DST-SERB. Grant-in-aid: Rs. 44,35,200/- (Feb. 2024- Feb. 2027).
- Title: Designing novel late transition metal catalysts for atom/group transfer reactions. Funding agency: DST-SERB. Grant-in-aid: Rs. 25,74,000/- (Sept. 2015-Sept. 2018).
- Title: Activation of small molecules by transition metal ions. Funding agency: UGC-BSR, New Delhi. Grant-in-aid: Rs. 6,00,000/- (July 2016- July 2018).

Research and Development Activities:***Details of Ph.D. Awarded/Submitted***

Sr. No.	Name of Student	Year of Registration	Title of Thesis	Status (Awarded/ Ongoing)
1.	Seema Yadav (2014PHDCH007)	2014	Designing New Electron-rich Metal Complex as Catalysts for C-C and C-Heteroatom Bond Forming Reactions	Awarded on 26 th July 2020
2.	Jyotirmoy Dey (2015PHDCH05)	2015	Development of Transition Metal based Catalysts for Atom/Group Transfer Reactions and Azide-Alkyne Cycloaddition	Awarded on 20 th July 2023
3.	Deepika Sahil (2017PHDCH01)	2017	Development of new nickel, ruthenium and copper catalysts for C-H bond functionalization and 1,3-dipolar cycloaddition reactions	Awarded on 01 st April 2024

4.	Ritu Raj Lakshkar (2017PHDCH07)	2017	Designing new class of zinc gold and palladium based catalysts for carbon-nitrogen bond forming reactions and arylation of azoles	Awarded on 22 nd March 2024
5.	Om Prakash Joshi (2018PHDCH002)	2018	Synthesis of biological relevant heterocycles using transition metal based catalysts	Awarded on 25 th Nov. 2024

Details of M.Sc. Project supervised

Sr. No.	Name of Students	Year	Title of Dissertation
1.	Roopa Ram (2013MSC019)	2015	Synthesis and characterization of pincer N-heterocyclic carbene ligands and their metal complexes
2.	S. M. Sweta (2013MSC020)	2015	Design and synthesis of new 1,3,5-triazapentadienyl ligands and 1,5-diazapentadienyl ligands
3.	Deepak (2014MSC003)	2016	Designing new water soluble N-heterocyclic carbene ligands
4.	Namonarayan Meena (2014MSC012)	2016	Synthesis and characterization of N-heterocyclic carbene based pincer ligands
5.	Anuradha Chaudhary (2014MSC027)	2016	Studies toward the development of new N-heterocyclic carbene copper(I) complexes
6.	Aeishwariya Dukiya (2015MSCH002)	2017	Designing new electron rich metal catalysts for C-H bond alkylation
7.	Isha Mishra (2015MSCH013)	2017	PEPPSI themed precatalysts: Synthesis and applications
8.	Mamta (2014MSCH014)	2017	N-heterocyclic carbene based zinc complexes in catalytic hydroamination reactions
9.	Ashok Kumar Raigar (2016MSCH001)	2018	Synthesis of tris(carbene)borate ligand based nickel(II) complexes and their application in C-H bond amination
10.	Lata Sharma (2013IMSBCH008)	2018	Development of late transition metal-based bimetallic catalysts for C-H bond activation
11.	Neetu Kanwar Rathore (2013IMSBCH014)	2018	Designing new bis(arylimino)pyridine based zinc(II) complexes and their catalytic application in hydroamination reactions
12.	Pooja Agrawal (2013IMSBCH016)	2018	Bis(pyrrolyl)pyridine based NNN-pincer ligand palladium(II) complexes in C-C bond forming reaction
13.	Akshita Agrawal (2016IMSBCH002)	2019	Bis(imino)pyridine palladium(II) complexes: synthesis and catalytic application
14.	Maheshwari Ghotia (2013IMSBCH017)	2019	Synthesis of new N-heterocyclic carbene based gold(I) complex and its catalytic application
15.	Komal Swami (2014IMSCH011)	2019	Calcium catalyzed carbon-nitrogen bond forming reaction
16.	Raksha Agarwal (2014IMSCH017)	2019	New water soluble N-heterocyclic carbene ruthenium(II) complex: synthesis & catalytic application
17.	Hitesh Ch. Das (2018MSCH014)	2020	Iron-catalyzed multicomponent synthesis of oxazole
18.	Sikandar Gurjar (2018MSCH020)	2020	Pyrrolyl-pyridine based ligands: Synthesis and their characterization
19.	Sanjeeb Kumar Ojha (2018MSCH023)	2020	Synthesis and characterization of bimetallic complexes supported by naphthyridine functionalized mono-pyrrole ligand
20.	Chittaranjan Mishra (2019MSCH004)	2021	Bis(imino)pyridine zinc(II) complex: Synthesis and catalytic application in arylation of indole
21.	Sumit (2016IMSCH012)	2021	Synthesis, characterization and catalytic C-H amination of 2,6-bis(iminoaryl)pyridine-ruthenium(II) complex
22.	Balkrishna Kumawat (2016IMSCH015)	2021	Benzylic C-H oxidation catalyzed by 2,6-bis(arylimino)pyridine ligand based manganese(II) complex
23.	Sayan Kumar Basu (2020MSCH021)	2022	Cobalt catalyzed heterocycles synthesis <i>via</i> C-H bond functionalization
24.	Sipra Ray (2020MSCH023)	2022	Bis(imino)pyridine-zinc(II) complexes: Synthesis, characterization and catalytic applications
25.	Vinita Verma	2022	Bis(imino)pyridine based nickel complexes as catalysts for C-H bond

	(2020MSCH025)		functionalization reactions
26.	Manmohan (2017IMSBCH004)	2022	Imidazolin-2-iminato as ligands in transition metal chemistry
27.	Ankit Kumar Dash (2020IMSBCH004)	2023	Synthesis of biologically relevant heterocyclic compounds using cobalt catalysts
28.	Barsha Acharya (2020IMSBCH007)	2023	Benzylic C(sp ³)-H oxidation of hydrocarbon by bis(imino)pyridine-nickel(II) complex
29.	Payal Meena (2020IMSBCH016)	2023	Water Soluble N-Heterocyclic Carbene Ligand Supported Silver Complexes: Synthesis, Characterization, and their Catalytic Applications in Click Reactions
30.	Mufeeda M. (2021MSCH011)	2023	Iron-catalyzed carbazolone synthesis in water
31.	Yash Jain (2021MSCH023)	2023	Synthesis of heterocyclic compounds catalyzed by NHC-based copper complex
32.	Aryan (2022MSCH006)	2024	N-heterocyclic carbene-palladium(II) catalyzed synthesis of isoindole derivatives
33.	Shisupal Salvi (2022MSCH022)	2024	Synthesis and characterization of bulky N-heterocyclic carbene-cobalt(II) complex
34.	Ankit Kumar Gurjar (2019IMSBCH004)	2024	Synthesis of Nickel and Zinc complexes of bis(pyrrolyl)pyridine ligands
35.	Ravindra Kumawat (2019IMSBCH025)	2024	Cobalt complex with N-heterocyclic carbene ligand: Synthesis and Characterization
36.	Hrudaya Ranjan Mahanta (2021IMSBCH010)	2024	Zinc-catalyzed C-N bond-forming reactions using organic azides as the nitrogen source
37.	Maya Mishra (2021IMSBCH013)	2024	Bis(imino)pyridine-cobalt(II) complex as catalyst for C-H bond amination reactions
38.	Rakshi Sahoo (2021IMSBCH019)	2024	Copper complexes of N-heterocyclic carbene-based CNC pincer ligand
39.	Aastha Mina (2022IMSBCH001)	2025	Iodonium Ylides: An alternative carbene precursor in organic synthesis
40.	Manjeet Singh (2022IMSBCH009)	2025	Cobalt complex with N-heterocyclic carbene ligand: Synthesis and Characterization
41.	Yashika Soni (2022IMSBCH029)	2025	Synthesis of Cobalt Complex of Bis(pyrrolyl)pyridine ligand
42.	Mahima Manohar (2020IMSBCH014)	2025	Synthesis, Characterization, and Catalytic Activity of Zinc Complex
43.	Shruti Sharma (2023MSCH022)	2025	NNN-Schiff-base ligand supported cobalt-complexes: Synthesis and catalytic activity in C-H amination reaction
44.	Ajendra Kumar (2022MSCH003)	2025	Room temperature C-H bond alkynylation by merging cobalt and photocatalysis
45.	Tina Sharma (2024MSCH026)	2026	Cobalt-NHC-catalyzed synthesis of heterocycles via C-H Amination
46.	Priyanshi Batwal (2024MSCH012)	2026	Catalytic C-H amination using bis(pyrrolyl)pyridine-cobalt(II) complex
47.	Anita Satiwal (2024MSCH032)	2026	[NNN]-Pincer ligand based cobalt(II) complexes: Synthesis and Characterization
48.	Ankit (2023IMSBCH002)	2026	Synthesis and characterization of 8-hydroxyquinoline-imine ligand based zinc(II) complexes
49.	Divya Tiwari (2023IMSBCH009)	2026	Cobalt(II) complexes supported by 8-hydroxyquinoline-imine ligands: Synthesis and Characterization
50.	Lokesh Yadav (2023IMSBCH014)	2026	Synthesis and characterization of zinc(II) complex with redox non-innocent pincer-based ligand
51.	Sidharth Bishnoi (2023IMSBCH034)	2026	Bis(imino)pyridine-cobalt(II) complex as catalyst for intramolecular C-H amination

Research Publications

Book Chapter(s)

1. R. R. Lakshkar; **C. Dash*** “Transition Metal-Based Photoredox Catalysts in Organic Synthesis: Recent Developments.” in the book entitled “*Handbook of Materials Science, Volume 4: Photocatalytic Materials*” **2026**, page 365, Springer Nature Publisher
2. S. Yadav; **C. Dash*** “Gold-Phosphine Catalysts for C-C and C-Heteroatom Bond Formation Reactions.” in the book entitled “*Advances in Chemistry Research*” **2021**, Volume 69, page 131–187, Nova Science Publishers, Inc., New York.
3. S. Yadav; **C. Dash*** “Transition Metal-Catalyzed Cross-Coupling Reactions on Heterocycles Synthesis Using Tandem/Domino Synthetic Approaches” in the book entitled “*Cross-Coupling Reactions: An Overview*” **2020**, page 61–112, Nova Science Publishers, Inc., New York.
4. **C. Dash**; H. V. R. Dias “Synthesis and Reactivity of Gold-Olefin Complexes” in the book entitled “*The Chemistry of Organogold Compounds*” **2014**, page 527–630, John Wiley & Sons Ltd., Chichester, United Kingdom.
5. **C. Dash**; P. Ghosh “Palladium complexes of *N*-heterocyclic carbenes in homogeneous catalysis and biomedical applications” in the book entitled “*Palladium: Compounds, Production and Applications*” **2010**, page 105–164. “*Homogeneous Catalysts: Types, Reactions and Applications*” **2010**, page 403–462. Nova Science Publishers, Inc., New York.

Refereed Journals

From Central University of Rajasthan (CURaj), Ajmer

1. R. S. Chauhan; D. B. Cordes; A. M. Z. Slawin; S. Yadav; **C. Dash** “Reactivity of hemilabile pyridyl- and methyl-substituted pyrimidylselenolates with $[MCl_2(dppf)]$ ($M = Pd, Pt$; $dppf = bis(diphenylphosphino)ferrocene$)” *Inorg. Chim. Acta.* **2018**, 478, 125–129
2. S. Yadav; A. Singh; N. Rashid; M. Ghotia; T. K. Roy; P. P. Ingole; S. Ray; S. M. Mobin; **C. Dash*** “Phosphine-free *bis*(pyrrolyl)pyridine based NNN-pincer palladium(II) complexes as efficient catalysts for Suzuki-Miyaura cross-coupling reactions of aryl bromides in aqueous medium” *ChemistrySelect*, **2018**, 3, 9469–9475
3. R. S. Chauhan; D. Oza; S. Yadav; **C. Dash***; A. Slawin; N. Shivran “Copper Complexes of arylselenolate based ligands: synthesis and catalytic activity in azide-alkyne cycloaddition reactions” *New J. Chem.* **2019**, 43, 2381–2388
4. S. Yadav; A. Singh; I. Mishra; S. Ray; S. M. Mobin; **C. Dash*** “Well-Defined *N*-Heterocyclic Carbene-Palladium Complexes as Efficient Catalysts for Domino Sonogashira Coupling/Cyclization Reaction and C-H bond Arylation of Benzothiazole” *Appl. Organomet. Chem.* **2019**, 33, e4936

5. S. Yadav; **C. Dash*** “One-Pot Tandem Heck Alkynylation/Cyclization Reactions Catalyzed by Bis(Pyrrolyl)pyridine based Palladium Pincer Complexes”
Tetrahedron, **2020**, 76, 131350
6. S. Yadav; S. Ray; A. Singh; S. M. Mobin; T. K. Roy; **C. Dash*** “Dinuclear gold(I)-N-heterocyclic carbene complexes: Synthesis, characterization, and catalytic application for hydrohydrazidation of terminal alkynes”
Appl. Organomet. Chem. **2020**, 34, e5942
7. **C. Dash***; A. Das; H. V. R. Dias*, “Mercury(II) complexes of anionic N-heterocyclic carbene ligands: Steric effects of the backbone substituent”
Molecules **2020**, 25, 3741
8. R. S. Chauhan, D. Oza, S. Nigam, A. Tyagi, S. Ansari, R. J Butcher, S. Yadav, **C. Dash** “Reactivity of hemilabile 2-pyridylselenolate ligand towards [NiCl₂(dppe)]: Combined experimental and theoretical study”
J. Mol. Struc. **2022**, 1248, 131368
9. J. Dey; S. Yadav; R. R. Lakshkar; A. Singh; S. Ray; **C. Dash*** “Zinc-bis(imino)pyridine complexes as catalysts for azide-alkyne cycloaddition in water”
ChemistrySelect, **2022**, 7, e202202239.
10. D. Sahil; S. Yadav; **C. Dash*** “Copper(II) complexes supported by bis(imino)pyridine ligands: Synthesis and catalysis on azide-alkyne click reactions”
ChemistrySelect, **2023**, 8, e202301452.
11. D. Sahil; R. Thirumoorthi; **C. Dash*** “Multicomponent click reactions catalyzed by copper(I) complex bearing bis(imino)pyridine-phosphine ligands”
Inorg. Chem. Commun. **2023**, 157, 111323.
12. R. R. Lakshkar; A. Agrawal; S. Yadav; **C. Dash*** “Phosphine-free bis(imino)pyridine-based pincer palladium(II) complexes as catalysts for C-H bond arylation of azoles with aryl iodides”
ChemistrySelect, **2023**, 8, e202302755.
13. S. P. Yadav; D. Sahil; **C. Dash***; S. Choudhary; A. R. Choudhary; R. S. Chauhan “Copper(I) complexes derived from 1,1'-bis(diphenylphosphino)ferrocene and their derivatives: Synthesis, structure, and catalytic studies for one-pot synthesis of benzofuran”
Catal. Lett. **2024**, 154, 2080–2089.
14. R. R. Lakshkar; S. Yadav; R. Thirumoorthi; S. Ray; **C. Dash*** “Zinc-bis(imino)pyridine complexes as catalysts for intermolecular amidation of benzylic C(sp³)-H bond”
ChemistrySelect, **2024**, 9, e202302804.
15. S. P. Yadav; D. Sahil; R. S. Chauhan; R. J. Butcher; A. Tyagi; G. Karmakar; **C. Dash*** “N-heterocyclic Thiols based Copper Complexes: Syntheses, Structure and Catalytic Studies for Azide-Alkyne Cycloaddition Reaction”
ChemistrySelect, **2024**, 9, e202303058.

16. J. Dey; D. Sahil; R. R. Lakshkar; O. P. Joshi; S. Yadav; A. Singh; S. Ray; **C. Dash*** “Well-defined Bis (imino) pyridine-Manganese (II) Complexes for Oxidation of Benzylic C-H Bonds”
Z. Anorg. Allg. Chem. **2024**, 650, e202300201.

17. O. P. Joshi; A. K. Dash; R. Thirumoorthi; **C. Dash*** “Iron-catalyzed annulation of 2-aminobenzaldehydes with iodonium ylides: A mild and general route for the synthesis of acridinone derivatives”
Asian J. Chem. **2024**, 36, 1423–1428.

18. O. P. Joshi; R. Thirumoorthi; R. T. Pardasani; S. Ray; **C. Dash*** “Palladium(II) complexes bearing mesoionic carbene ligands: catalytic application in domino Sonogashira coupling/cyclization reactions for one-pot synthesis of benzofuran and indole derivatives”
RSC Adv. **2024**, 14, 27141–27152.

From the University of Texas at Arlington, USA

1. **C. Dash**; P. Kroll; M. Yousufuddin; H. V. R. Dias “Isolable, gold carbonyl complexes supported by N-heterocyclic carbenes”
Chem. Commun. **2011**, 47, 4478–4480

(Highlighted in Chemical and Engineering News, **April 4**, 2011, "Gold carbonyl proliferates" in Science & Technology Concentrates, page 31).

2. H. V. R. Dias; **C. Dash**; M. Yousufuddin; M. A. Celik; G. Frenking, “Cationic gold carbonyl complex on a phosphine support”
Inorg. Chem. **2011**, 50, 4253–4255

3. A. Das; **C. Dash**; M. Yousufuddin; M. A. Celik; G. Frenking; H. V. R. Dias “Isolable tris(alkyne) and bis(alkyne) complexes of gold(I)”
Angew. Chem. Int. Ed. **2012**, 51, 3940–3943

4. M. A. Celik; **C. Dash**; V. A. K. Adiraju; A. Das; M. Yousufuddin; G. Frenking; H. V. R. Dias “End-on and side-on π -acid ligand adducts of gold(I): carbonyl, cyanide, isocyanide and cyclooctyne gold(I) complexes supported by N-heterocyclic carbenes and phosphines”
Inorg. Chem. **2013**, 52, 729–742

5. **C. Dash**; A. Das; M. Yousufuddin; H. V. R. Dias “Isolable, copper(I) dicarbonyl complexes supported by N-heterocyclic carbenes”.
Inorg. Chem. **2013**, 52, 1584–1590

6. A. Das; **C. Dash**; M. Yousufuddin; M. A. Celik; G. Frenking; H. V. R. Dias “Tris(alkyne) and bis(alkyne) complexes of coinage metals: synthesis and characterization of (cyclooctyne)₃M⁺ (M = Cu, Ag) and (cyclooctyne)₂Au⁺ and coinage metal (M = Cu, Ag, Au) family group trends”
Organometallics **2013**, 32, 3135–3144. Highlighted on the **Organometallics** Cover, June 10, 2013

7. **C. Dash**; M. Yousufuddin; T. R. Cundari; H. V. R. Dias “Gold mediated expulsion of dinitrogen from organic azides”
J. Am. Chem. Soc. **2013**, 135, 15479–15488

8. A. Das; **C. Dash**; M. Yousufuddin; H. V. R. Dias “Coordination and ligand substitution chemistry of bis(cyclooctyne)copper(I)”
Organometallics **2014**, 33, 1644–1650
9. N. V. Kulkarni; **C. Dash**; N. B. Jayaratna; S. G. Ridlen; S. K. Khani; A. Das; X. Kou; M. Yousufuddin; T. R. Cundari; H. V. R. Dias “Zinc(II)-mediated carbene insertion into C-H bonds in alkanes”
Inorg. Chem. **2015**, 54, 11043–11045
10. **C. Dash**; G. Wang; A. Munoz-Castro; T. T. Ponduru; A. O. Zacharias; M. Yousufuddin; H. V. R. Dias “Organic azide and auxiliary-ligand-free complexes of coinage metals supported by N-heterocyclic carbenes”
Inorg. Chem. **2020**, 59, 2188–2199

From the Indian Institute of Technology, Bombay, Mumbai

1. **C. Dash**; M. M. Shaikh; P. Ghosh “Fluoride-free Hiyama and copper- and amine-free Sonogashira coupling in air in a mixed aqueous medium by a series of PEPPSI-themed precatalysts”
Eur. J. Inorg. Chem. **2009**, 1608–1618
2. **C. Dash**; M. M. Shaikh; R. J. Butcher; P. Ghosh “A comparison between nickel and palladium precatalysts of 1,2,4-triazole based N-heterocyclic carbenes in hydroamination of activated olefins”
Dalton Trans. **2010**, 39, 2515–2524
3. **C. Dash**; M. M. Shaikh; R. J. Butcher; P. Ghosh, “Highly convenient regioselective intermolecular hydroamination of alkynes yielding ketimines catalyzed by gold(I) complexes of 1,2,4-triazole based N-heterocyclic carbenes”
Inorg. Chem. **2010**, 49, 4972–4983
4. M. K. Samantray; **C. Dash**; M. M. Shaikh; K. Pang; R. J. Butcher; P. Ghosh “Gold(III) N-heterocyclic carbene complexes mediated synthesis of β -enaminones from 1,3-dicarbonyl compounds and aliphatic amines”
Inorg. Chem. **2011**, 50, 1840–1848
5. **C. Dash**; M. M. Shaikh; P. Ghosh “Silver complexes of 1,2,4-triazole derived N-heterocyclic carbenes: synthesis, structure and reactivity studies”
J. Chem. Sci. **2011**, 123, 97–106

Symposia/Conferences

Invited Talks

1. **C. Dash** “Development of Well-defined Transition Metal-based Catalysts for C–C and C–heteroatom Bond Forming Reactions” International conference on Chemical & Biological Sciences in Drug Discovery-2019 (IC-CBSDD-2019), organized by Department of Chemistry, Berhampur University, Odisha, March 08-10, 2019.
2. **C. Dash** “Efficient zinc and copper catalyzed azide-alkyne cycloaddition reaction in aqueous medium” National Conferences on Emerging Trends in Chemical Sciences (ETCS-2019), organized by the Department of Chemistry and Chemical Sciences, Central University of Jammu, Samba (J&K), March 14-15, 2019.
3. **C. Dash** “Recent Advances in Organometallic Chemistry” National Webinar on Supramolecular Chemistry and Organometallic Chemistry, Government Autonomous College, Rourkela, Odisha, April 12, 2023.
4. **C. Dash** “Organometallic Compounds: From discovery to applications” Two-Week Online Faculty Development Programme in Chemistry and Allied Sciences [FDPCAS – 2023], organized by the Department of Chemistry, Central University of Jammu, Jammu, November 04, 2023.
5. **C. Dash** “Palladium-NHC catalyzed domino reactions for the synthesis of biologically relevant heterocycles” International Conference on Advances in Chemical and Applied Sciences for Sustainable Development (ACASSD-2024), organized by the Department of Chemistry, School of Sciences, JECRC University, Jaipur, Rajasthan, March 29-30, 2024.
6. **C. Dash** “Transition metal catalyzed heterocycles synthesis via domino approach” International Symposium on Frontiers in Sustainable Catalysis and Organometallics 2024 (FISCO-2024), organized by Department of Chemistry, MNIT Jaipur, Rajasthan, July 11-12, 2024.
7. **C. Dash** “Domino Cyclization/Sonogashira Coupling Reactions Catalyzed by PEPPSI-themed Palladium-NHC Complexes: An Efficient Synthetic Approach to 2-Alkynyl Benzofurans and Indoles” International Conference on “Sustainable Technologies for Energy, Environment, and Health” (IC-STEEH), organized by VIT Vellore for the Ruby Jubilee celebration, September 17-19, 2025.
8. **C. Dash** “Transition-Metal-Catalyzed Carbazole Synthesis via Intramolecular C-H Amination” International Conference on “National Conference on Organic Synthesis 2025 (N-COS 2025), organized by the Department of Chemistry, Berhampur University, Odisha, December 15-17, 2025.

Oral/Poster Presentation

1. **Poster presentation:** C. Dash; P. Ghosh “Silver(I) and gold(I) complexes of new class of 1,2,4-triazole based N/O-functionalized N-heterocyclic carbenes” 238th ACS National meeting and Exposition at Washington DC, USA, August 16-20, 2009.
2. **Oral presentation:** C. Dash; M. A. Celik; G. Frenking; H. V. R. Dias “Isolation and theoretical studies of N-heterocyclic carbene and phosphine stabilized gold(I) carbonyls” 245th ACS National meeting and Exposition at New Orleans, USA, April 7-11, 2013.

3. **Poster presentation:** C. Dash; H. V. R. Dias “Cationic zinc(II) complexes of fluorinated tris(pyrazolyl)borates: Synthesis and characterization” 245th ACS National meeting and Exposition at New Orleans, USA, April 7-11, 2013.

4. **Poster presentation:** C. Dash; H. V. Rasika Dias “Synthesis and catalytic application of cationic zinc(II) complexes supported by fluorinated tris(pyrazolyl)borates” 18th CRSI National Symposium in Chemistry, Punjab University, Chandigarh, February 5-7, 2016.

5. **Poster presentation:** C. Dash “N-heterocyclic Carbene Ligands: A Pandora’s Box of the Catalysis” National Symposium on Emerging Trends in Applied Chemical Sciences (ETACS), CU Rajasthan, March 18, 2016.

6. **Poster presentation:** C. Dash; S. Yadav; H. V. Rasika Dias “Novel Hg(II) complexes supported by anionic N-heterocyclic carbene ligands: Synthesis and structural studies” 20th CRSI National Symposium in Chemistry, Gauhati University, Guwahati, Assam, February 2-5, 2017.

7. **Poster presentation:** C. Dash; S. Yadav; J. Dey “Synthesis and catalytic application of N-heterocyclic carbene based zinc(II) complexes in hydrohydrazination of alkynes” 3rd International conference on Frontiers at the Chemistry-Allied Sciences Interface (FCASI-2017), Rajasthan University, Jaipur, Rajasthan, July 22-23, 2017.

8. **Poster presentation:** C. Dash; S. Yadav “Bis(pyrrolyl)pyridine based NNN-pincer palladium(II) complexes for catalyzing Suzuki-Miyaura cross-coupling reaction in aqueous medium” 24th ISCB International Conference (ISCBC-2018) on “*Frontier Research in Chemistry & Biology Interface*”, Manipal University, Jaipur, Rajasthan, January 11-13, 2018.

9. **Poster presentation:** C. Dash; S. Yadav “New Bis-N-heterocyclic Carbene based Gold(I) Complexes: Synthesis, Characterization and Catalytic Application” 23rd CRSI National Symposium in Chemistry (CRSI-NSC-23), IISER Bhopal, July 13-15, 2018

10. **Poster presentation:** C. Dash; S. Yadav “Well-defined *bis*(pyrrolyl)pyridine based palladium catalysts for domino Sonogashira coupling/cyclization reaction” 25th CRSI National Symposium in Chemistry (CRSI-NSC-25), IIT Kanpur, July 19-21, 2019.

11. **Poster Presentation:** C. Dash “Well-defined Cu(I)/Cu(II) and Zn(II) complex as catalysts for azide-alkyne Click reactions” 31st CRSI National Symposium (CRSI NSC-31), Department of Chemistry, NIT Rourkela, Odisha, July 06-08, 2023.

12. **Poster Presentation:** C. Dash “Well-defined Cu(I)/Cu(II) and Zn(II) complex as catalysts for azide-alkyne Click reactions” 32nd CRSI National Symposium in Chemistry (CRSI NSC-32) and 17th CRSI-RSC Joint Symposium, Department of Chemistry, BITS Pilani-Pilani Campus, Rajasthan, February 01-04, 2024.

Workshop/Seminar/Training Program

1. Participated in faculty development program on “Frontiers of NMR Spectroscopy: Nucleus to Nucleotides” held at Center of Excellence, NFDD complex, Department of Chemistry, Saurashtra university, Rajkot, Gujrat, during January 15-21, 2016.

2. Participated in GIAN course on “Bioinorganic Chemistry” conducted at Central University of Rajasthan, during December 05-09, 2016.

3. Participated in “Four weeks induction training program” conducted during May 01-26, 2018 by Teaching Learning Center @ Central University of Rajasthan with ‘A’ grade.
 4. Attended 2nd ACS-CRSI meeting at IIT Kanpur on July 18, 2019.
 5. Participated in the “Ten days workshop on teaching-learning & evaluation for faculty members of HEIs” conducted during November 04-14, 2019 by Teaching Learning Center @ Central University of Rajasthan, Ajmer, Rajasthan.
 6. Participated in the “Online refresher course in chemistry for higher education” conducted during 01st Sep 2019-31st Dec 2019 (Exam Date: February 16, 2020) by Sri Guru Tegh Bahadur Khalsa College, University of Delhi with an ‘A’ grade.
 7. Participated in the Faculty Development Program on “Four-quadrant model for development of E-content, MOOCs and Teacher’s e-kit” conducted during 29th September-05th October, 2021 by Sri Guru Tegh Bahadur Khalsa College, University of Delhi with an ‘A’ grade.
 8. Participated in the “National Level Workshop cum discussion meeting on the implementation of NEP 2020 in Higher Education”, NIPEA, New Delhi, December 08, 2022.
 9. Participated in Professional Development Programme on ‘Implementation of NEP-2020 for University and College Teachers’ held from 23 February – 03 March 2023 by IGNOU, New Delhi with an ‘A’ grade.
 10. Participated in an Inter-Disciplinary two-week Refresher Course on ‘Managing Online Classes & Co-creating MOOCs’ by Teaching Learning Center, Ramanujan College, University of Delhi, held from February 07-21, 2024 with an ‘A+’ grade.
 11. Participated in the Five Days Capacity Building Program on ‘Evaluation and Setting of Question Paper’ conducted on August 12-16, 2024, by NITTTR, Bhopal, and CU Rajasthan.
 12. Participated in the Five Days Capacity Building Program on ‘Learner-Centred Teaching Methodology’ conducted on December 02-06, 2024, by NITTTR, Bhopal, and CU Rajasthan.
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