


FACULTY PROFILE PROFORMA

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| Title (Ms/Mr/Dr/Prof) | Dr. | First Name | GEETA | Last Name | YADAV | Photograph |
| Designation | Assistant Professor | | | | |  |
| Department | Chemistry | | | | | |
| Address (Official) | Department of Chemistry, Kalindi College (University of Delhi), East Patel Nagar, New Delhi-110008 | | | | | |
| Phone No. | 8010905097 | | | | | |
| Email | geetadevi@kalindi.du.ac.in | | | | | |
| Education | | | | | | |
| Subject | Institution | Year | Details | | | |
| Asymmetric Synthesis | University of Delhi | 2017 | Ph.D. | | | |
| Chemistry (Organic) | University of Rajasthan | 2011 | M.Sc. | | | |
| Chemistry | University of Rajasthan | 2009 | B.Sc. | | | |
| Career Profile | | | | | | |
| Organization/Institution | Designation | Duration | Role | | | |
| Kalindi College | Assistant Professor | 08-01-2024 to Till Date | Teaching & Administrative Duties | | | |
| Swami Shradhhanand College | Assistant Professor | 22-02-2021 to 10-10-22 | Teaching & Administrative Duties | | | |
| University of Delhi | Research Associate | 16-02-2018 to 31-12-2020 | Research work | | | |
| Department of Chemistry, University of Delhi | Assistant Professor | 20-7-2016 to 19-01-2017 | Teaching & Administrative Duties | | | |
| Research Interests/Specialization | | | | | | |
| Asymmetric synthesis and catalysis | | | | | | |
| Administrative Assignments/Contribution to corporate life | | | | | | |
| <ul style="list-style-type: none"> • Convenor of student feedback and student satisfaction survey, 2024-25. • Committee Member of BA program committee, 2024-25. • Committee Member of outstation and foreign student cell, 2024-25. | | | | | | |

- Committee Member of repository committee, 2024-25.

Teaching Experiences (Subject/Courses taught)

- BSc (P) Life Sciences Semester V: Coordination Chemistry and its application in biological systems
- BSc (P) Life Sciences Semester VI: Polynuclear hydrocarbons and UV-IR
- BSc (H) Chemistry Semester I: Atomic Structure & Chemical Bonding
- BSc (H) Chemistry Semester V: Applied Organic Chemistry

Research Guidance

N.A.

Publication (Peer Reviewed/Indexed Journals)

| Year of Publication | Title | Journal (Name of the journal, Vol. Issue ISSN) | Co-Author |
|---------------------|---|---|---|
| 2022 | A simple protocol for determination of enantiopurity of amines using BINOL derivatives as chiral solvating agents via ¹ H- and ¹⁹ F-NMR spectroscopic analysis. | <i>RSC. Advances</i> , 12, 25457, ISSN-2046-2069 | Pooja Chaudhary, Surendra Singh |
| 2022 | Synthesis of new chiral Mn(III)–salen complexes as recoverable and reusable homogeneous catalysts for the asymmetric epoxidation of styrenes and chromenes. | <i>New J. Chem.</i> 46, 1308, ISSN-1144-0546 | Pooja Chaudhary, Krishna K. Damodaran, Surendra Singh |
| 2021 | DABCO Based Chiral Ionic Liquids as Recoverable and Reusable Organocatalyst for Asymmetric Diels-Alder Reaction. | <i>Chirality</i> , 34, 134, ISSN-1520-636X | M. J. Aalam, Deepa, P. Chaudhary, D. R. Meena, S. Singh |
| 2021 | Cellulose sulfate: An Efficient Heterogeneous Catalyst for the Ring Opening of Epoxides with alcohols. | <i>Synthetic Communications</i> , 51, 1834, ISSN- 0039-7911 | P. Chaudhary, Deepa, D. R. Meena, M. J. Aalam, S. Singh |

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| 2020 | Chiral Imidazolidin-4-one with a Catalytic Amount of Dicationic Ionic Liquid act as a Recoverable and Reusable Organocatalyst for Asymmetric Diels-Alder Reaction. | <i>Chirality</i> , 32, 64, ISSN-1520-636X | Deepa, P. Chaudhary, M. J. Aalam, D. R. Meena, S. Singh |
| 2019 | Prolinamide-catalyzed Asymmetric Organic Transformations. | <i>ChemistrySelect</i> 4, 5591-5618, ISSN-2365-6549 | Deepa, S. Singh |
| 2019 | Synthesis of Dihydropyrimidinones (DHPMs) and Hexahydro Xanthene Catalysed by 1,4-Diazabicyclo [2.2.2] Octane Triflate Under Solvent Free Condition. | <i>Current Organic Synthesis</i> , 16, 1-25, ISSN-15701794 | Deepa, P. Chaudhary, M. J. Aalam, S. Singh |
| 2018 | Asymmetric Henry reaction catalyzed by chiral Cu(II) salalen and salan complexes derived from (S)-proline. | <i>Inorganic Chimica Acta</i> , 479, 240-245, ISSN-0020-1693 | A. Dixit, P. Kumar, S. Singh |
| 2017 | 1,4-Diaza-bicyclo[2.2.2]octane trifluoroacetate: A highly efficient organocatalyst for the cyanosilylation of carbonyl compounds under solvent-free condition. | <i>ChemistrySelect</i> , 2, 4830, ISSN-2365-6549 | S. Singh |
| 2016 | <i>N</i> -Arylprolinamide act as an organocatalyst for direct asymmetric aldol reaction of acetone with isatin, | <i>Tetrahedron: Asymmetry</i> , 27, 123, ISSN-0957-4166 | S. Singh |
| 2016 | <i>trans</i> -4-Hydroxy-(<i>L</i>)-prolinamide as an efficient catalyst for direct asymmetric aldol reaction of acetone with isatins. | <i>Tetrahedron: Asymmetry</i> , 27, 463, ISSN-0957-4166 | S. Singh |
| 2016 | (<i>l</i>)-Prolinamide imidazoliumhexafluorophosphate ionic liquid as an efficient reusable organocatalyst for direct asymmetric aldol reaction in solvent-free condition, | <i>RSC Advances</i> , 6, 100459, ISSN-2046-2069 | S. Singh |

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| 2016 | (S)-Pyrrolidine-containing chiral manganese (III)-salalen and salan complexes as catalyst for the asymmetric Henry reaction, | <i>Synlett</i> 27, 267, ISSN- 0939-2661 | P. Kumar, M. S. Chauhan, S. Singh |
| 2016 | Salts of 1-(Chloromethyl)-DABCO: A highly efficient organocatalyst for the alcoholysis of epoxides, | <i>Current catalysis</i> 5, 203, ISSN-2211-5447 | A. Dixit, M. S. Chauhan and S. Singh |
| 2016 | Surfactant-directed Ag ₁ -xNi _x alloy nanoparticle catalyzed synthesis of aromatic azo derivatives from aromatic amines, | <i>Applied Catalysis A General</i> , 525, 50, ISSN-0926-860X | M. Kumar, K. Soni, S. Singh, S. Deka |
| 2015 | Methyloxonium triflate: An efficient catalyst for ring opening of epoxides with alcohols under ambient conditions, | <i>Current Catalysis</i> 4, 133, ISSN-2211-5447 | M. Mishra, S. Singh |
| 2015 | Direct asymmetric aldol reaction catalyzed by <i>trans</i> -4-hydroxy-(S)-prolinamide in solvent-free conditions. | <i>Tetrahedron: Asymmetry</i> , 26, 1156, ISSN-0957-4166 | S. Singh |
| 2014 | Ring-opening of epoxides with alcohols using Fe(Cp) ₂ BF ₄ as catalyst. | <i>Tetrahedron Lett.</i> 55, 3979, ISSN-0040-4039 | S. Singh |
| 2014 | Fe(Cp) ₂ BF ₄ : An efficient Lewis acid catalyst for the aminolysis of epoxides, | <i>Synthesis</i> , 629, ISSN-0039-7881 | M. S. Chauhan and S. Singh |

Seminar/Workshop/Conferences Presentation/Organisation

- Presented an **oral presentation** in the 2nd National Conference on (ETFC-2020), Department of Chemistry, Kirori Mal College, University of Delhi, Delhi, India on **10-11, January 2020**,

entitled “Development of Reusable (*L*)-Prolinamides as organocatalysts in direct asymmetric aldol reaction” **G. D. Yadav** and S. Singh*.

- Presented an **oral presentation** in the national conference on (NFCFA 2019), Department of Chemistry, BITS Pilani, Goa Campus, Goa, India on **20-22, December 2019**, entitled “(*L*)-Prolinamide imidazolium hexafluorophosphate ionic liquid as an efficient reusable organocatalyst for direct asymmetric aldol reaction in solvent-free condition”, **G. D. Yadav** and S. Singh*
- Presented an **oral presentation** in DU-JAIST Symposium 2016, Department of Chemistry, University of Delhi, Delhi, India on **26-27, February 2016**, entitled “Ionic liquid of *trans*-4-hydroxy-(*L*)-prolinamide with imidazole as efficient recoverable organocatalyst for direct asymmetric aldol reaction”, **G. D. Yadav** and S. Singh*
- Presented an **oral presentation** in international conference on FCASI-2016 at Department of Chemistry, University of Rajasthan, Jaipur, Rajasthan on **25-26, April 2016**, entitled “Salts of 1,4-diaza-bicyclo[2.2.2]octane: A highly efficient organocatalyst for the cyanosilylation of carbonyl compounds”, **G. D. Yadav** and S. Singh*
- Presented an **poster presentation** in the national conference on OCS-2016 at Department of Chemistry, BITS, Pilani Rajasthan on **29-30, August 2016**, entitled “Development of Reusable (*L*)-Prolinamides as organocatalysts in direct asymmetric aldol reaction”, **G. D. Yadav** and S. Singh* (**Awarded as Best Poster Presentation**)
- A **poster presentation** in 22nd National Symposium on Catalysis (CATSYMP 22) at CSIR-CSMCRI, Bhavnagar, Gujarat, India on **January 7-9, 2015**, entitled “*Trans*-4-hydroxy-*L*-prolinamide act as an efficient catalyst for asymmetric aldol reaction”, **G. D. Yadav** and S. Singh*
- A **poster presentation** in National Conference on Frontiers at the Chemistry-Allied Science Interface (FCASI) at Rajasthan University, Jaipur, India on **March 13-14, 2015**, entitled “Synthesis of 4-hydroxy-(*L*)-prolinamide as efficient catalyst for the asymmetric direct aldol reaction”, **G. D. Yadav** and S. Singh*
- A **poster presentation** in International Conferences on Current Challenge in Drug Discovery Research. (CCDDR 2015) held at MNIT, Jaipur, India on **November 23-25, 2015**, entitled “Direct asymmetric aldol reaction ketone with isatins catalyzed by (*S*)-prolinamide”, **G. D. Yadav** and S. Singh*
- A **poster presentation** in National Conference on Recent Advancement in Chemical Sciences (RAICS 2015) held at MNIT, Jaipur, **August 21-23, 2015** entitled “*N*-Arylprolinamide act as

an organocatalyst for direct asymmetric aldol reaction of acetone with isatin”, **G. D. Yadav** and S. Singh*

- Presented an **oral presentation** in National Conference on Chirality (NCC)-2013 at Department of Chemistry, M. S. University of Baroda, Vadodara, Gujarat, **18-19, December 2015**, entitled “Prolinamide derived from (S)-□-methylphenyl amine act as an efficient catalyst for asymmetric aldol reaction”, **G. D. Yadav** and S. Singh*
- **Presented a poster** in 20th ISCB conference at University of Delhi, Delhi, India, **1-4 March 2014**, entitled “Ring-opening of epoxides with alcohol using Fe(Cp)₂BF₄ as catalyst”, **G. D. Yadav** and S. Singh*
- **Presented a poster** in One-day Symposium on Emerging trends in translation research in India at Shiv Nadar University, India on **12th April, 2014**, entitled “Highly efficient regio-selective methanolysis of epoxide catalyzed Fe(Cp)₂BF₄”, **G. D. Yadav** and S. Singh*
- A **poster presented** entitled National Conference on Mastering in Molecules and Materials (**M³-2014**) at NIT Krukshetra, Haryana, India on **16-17 Oct 2014**, “Fe(Cp)₂BF₄ as a Lewis acid catalyst for ring opening of epoxides with amines”, **G. D. Yadav** and S. Singh* (**Awarded as Best Poster Presentation**)
- **Presented a poster** in National Conference on Chirality (NCC)-2013 at Department of Chemistry, M. S. University of Baroda, Vadodara, Gujarat, India on **7-8 December 2013**, entitled “Synthesis and Characterization of Chiral Prolinamide modified with ionic liquid for asymmetric Aldol Reaction”, **G. D. Yadav** and S. Singh*
- Attended the Workshop on Electronic Structure, Atomistic and Statistical Modeling in Chemistry, Materials and Life Sciences at Department of Chemistry, University of Delhi, Royal Society of Chemistry London (North India Section) and Schrodinger GmbH, Bangalore, India on **Oct. 8-10, 2014**.
- Participated in the Workshop on Emerging Trends in Development of Drugs and Devices at Department of Chemistry, University of Delhi and three national Science Academies of India on **Jan. 21-23, 2013**.

Awards & Distinctions

- **Best Poster Award in the** national conference on OCS-D-2016 at the Department of Chemistry, BITS, Pilani Rajasthan on **29-30, August 2016**.

- **Best Poster Award in the** National Conference on Mastering in Molecules and Materials (**M³-2014**) at NIT Kurukshetra, Haryana, India on **16-17 Oct 2014**,
- **Senior Research Fellowship 2013**
- **Junior Research Fellowship 2011**

Public Service/University Service/Consulting Activity

Faculty Development Programme (FDP)/FIP/Refresher Course attended:

1. Orientation program on “NEP Orientation & Sensitization Programme” organized by UGC-Malviya Mission Teacher Training Centre, in collaboration with SGTB Khalsa College, University of Delhi from 3rd September- 13th September 2024
2. Refresher Course on Chemistry conducted by the Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi, held from 12th July 2022 – 25th July 2022
3. One Week (Online) Interdisciplinary Faculty Development Programme on ‘Creation and development of MOOCs while managing online classes’ (24th August – 31st August 2021) organised by Keshav Mahavidyalaya, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi

Professional Societies Memberships

NA

Projects (Major Grants/Collaborations)

NA

Other Details



Dr. Geeta Devi Yadav

Department of Chemistry

Kalindi College