




SHIVAJI COLLEGE FACULTY DETAILS PROFORMA



Title	Dr.	First Name	SUNIL	Last Name	YADAV	Photograph
Designation	Assistant Professor					
Address	Department of Chemistry, Shivaji College (University of Delhi), Ring Road, Raja Garden, New Delhi-110027, India					
Office Phone No.	-					
Residence	-					
Mobile						
Email	sunil@shivaji.du.ac.in					
Web-Page						
Educational Qualification	PhD (Inorganic Chemistry)					
Degree	University/Institute				Year	
Ph.D.	Department of Chemistry, University of Delhi, Delhi				2018	
M.Phil./M.Tech	-				-	
PG	Kirori Mal College, University of Delhi, Delhi				2011	
UG	Udai Pratap Autonomous College, Varanasi, UP				2008	
Any Other Qualifications	CSIR-NET				2011	
	GATE				2012	
Title of the PhD Thesis: Coordination Complexes of Amide-based Ligands: Synthesis, Characterization, Catalysis and Mechanistic Investigations						
Career Profile						
Started as Assistant Professor in Department of Chemistry, Hans Raj College, University of Delhi from 7 th October 2016 to 1 st August 2017. Currently working as Assistant Professor in Department of Chemistry Shivaji College Raja Garden, New Delhi-110027.						
Administrative Assignments						
Member Admission Committee, Shivaji College, University of Delhi (2021-2022, 2022-2023, 2023-2024)						
Member NAAC Committee, Shivaji College, University of Delhi (2022-2023, 2023-2024)						
Member Canteen Committee, Shivaji College, University of Delhi (2020-2021, 2023-2024)						
Member Remedial Cell, Shivaji College, University of Delhi (2021-2022)						
Member Eco club, Shivaji College, University of Delhi (2021-2022)						
Member Website Committee, Shivaji College, University of Delhi (2021-2022)						
Member NSS, Shivaji College, University of Delhi (2022-2023 and 2023-2024)						

Member Instruments and Chemicals Purchase Committee, Department of Chemistry, Shivaji College, University of Delhi (2022-2023, 2023-2024)

Organizer of the ‘**RASTANTRUM 2019**’ Annual Festival of Department of Chemistry, Shivaji College, University of Delhi (21st October 2019)

Resource Person in the National Conference on “Relationship between Chemical Sciences and Society” (RCSS-2020), organized by Department of Chemistry, Shivaji College, University of Delhi on 16 -17 January 2020

Organizer in the National Conference on “Relationship between Chemical Sciences and Society” (RCSS - 2020), organized by Department of Chemistry, Shivaji College, University of Delhi on 16 -17 January 2020

Co-convenor of the ‘**RANTANTRUM 22**’ Annual Festival of Department of Chemistry, Shivaji College, University of Delhi (22nd February 2022)

Areas of Interest/Specialisation

1. Inorganic Chemistry
2. Coordination Chemistry
3. Organometallic Chemistry

Subjects Taught

1. General Inorganic Chemistry
2. Coordination Chemistry
3. Organometallic Chemistry
4. Bioinorganic Chemistry
5. Environmental Chemistry
6. Analytical Methods in Chemistry
7. Nuclear and Environmental Chemistry
8. Inorganic Materials of Industrial Importance
9. Molecules of Life
10. Analytical Chemistry
11. Industrial Gases and Environment

Innovation Project/Research Projects (Major Grants/Research Collaboration)

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Publications Profile (*Research Papers/Books*)

1. Pd(II) complexes with amide-based macrocycles: syntheses, properties and applications in cross-coupling reactions. Sushil Kumar, Rajeev Ranjan Jha, **Sunil Yadav** and Rajeev Gupta, *New J. Chem.*, 2015, **39**, 2042- 2051, **Impact factor:** 3.3, <https://doi.org/10.1039/C4NJ01300J>
2. Manganese Complexes of Pyrrole- and Indolecarboxamide Based Ligands: Electrochemical Oxidation Studies and Lewis acid Assisted Catalytic Applications: **Sunil Yadav**, Sushil Kumar and

Rajeev Gupta, *Eur. J. Inorg. Chem* 2015, 5534-5544, **Impact factor:** 2.578, <https://doi.org/10.1002/ejic.201500773>

3. Cobalt complexes of pyrrolicarboxamide ligands as catalysts in nitro reduction reactions: Influence of electronic substituents on catalysis and mechanistic insights. **Sunil Yadav**, Sushil Kumar and Rajeev Gupta, *Inorg. Chem. Front.*, 2017, **4**, 324-335, **Impact factor:** 7.8, <https://doi.org/10.1039/C6QI00389C>

4. Ruthenium(II) complexes of pyridine-carboxamide ligands bearing appended benzothiazole/benzimidazole rings: Structural diversity and catalysis. Paranthaman Vijayan, Samanta Yadav, **Sunil Yadav** and Rajeev Gupta, *Inorg. Chim. Acta* 502 (2020) 119285, **Impact factor:** 2.8, <https://doi.org/10.1016/j.ica.2019.119285>

5. Catalytic activity of Bis p-nitro A₂B (oxo)Mn (V) Corroles towards Oxygen Transfer reaction to Sulphides Atul Varshney, **Sunil Yadav** and Anil Kumar, *Inorganica Chimica Acta*, **2021**, 514, 120013, **Impact factor:** 2.8, <https://doi.org/10.1016/j.ica.2020.120013>

6. Ruthenium complexes of phosphine-amide based ligands as efficient catalysts for transfer hydrogenation reactions. Samanta Yadav, Paranthaman Vijayan, **Sunil Yadav** and Rajeev Gupta *Dalton Trans.*, 2021, 50, 3269 – 3279. **Impact factor:** 4.5, <https://doi.org/10.1039/D0DT04401F>

7. Effect of B N substitution on structure, reactivity and spectroscopic properties of polyarylenevinylene systems: A computational insight Krishna Adhaduk, **Sunil Yadav** and Deepak Kumar, **Impact factor:** 4.5, <https://onlinelibrary.wiley.com/doi/abs/10.1002/qua.27304>

8. A solvatochromic α -Alkylidene Succinimides based fluorescent sensor for water in organic solvents and differentiation between chloroform and dichloromethane solvent", *Journal of Fluorescence*, Shuvankar Dey, **Sunil Yadav**, Shyam Bharat Yadav, Umesh Kumar, Atul Kumar Sharma and Anshu Kumar (Under Revision)

Conference/Seminar/Webinar/Faculty Development Programme/Workshop

1. **Sunil Yadav**, Sushil Kumar and R. Gupta, "Coordination Chemistry with Pyrrole-Amide & Indole-Amide Ligands" *4th National Symposium on Advances in Chemical Sciences* from 27- 28 Feb **2014** at GNDU, Amritsar.

2. **Sunil Yadav**, Sushil Kumar and R. Gupta, "Coordination Chemistry with Pyrrole-Amide & Indole-Amide Ligands" *9th National Conference on Solid State Chemistry and Allied Areas* from 8-10 May **2015**, Bhaskaracharya College of Applied Sciences (University of Delhi).

3. **Sunil Yadav** "Coordination Chemistry with Pyrrole-Amide & Indole-Amide Ligands" *Vth National Conference on Chemical Sciences: Emerging Scenario & Global Challenges (Role of Chemical Sciences to Make in India)* 26 March 2016, Arya Post Graduate College Panipat

Haryana.(Oral Presentation)

4. Attended Workshop on Spectro-Electrochemistry held at Department of Chemistry University of Delhi, Delhi on 17th and 18th June 2015.

5. Attended Webinar on the topic “*ICT Enabled Higher Education in India: Challenges and Opportunities*” organized by Guru Angad Dev Teaching and Learning Centre SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD, held on 13th April 2020.

6. Attended National Webinar on the topic “*Biodiversity and Environmental Health*” (IWBEH 2020) organized by Department of Environmental Studies, Shivaji College, University of Delhi on 20th May 2020.

7. Attended National Webinar on the topic “*Ecological Revival During Pandemic*” organized by Bhaskaracharya College of Applied Sciences, University of Delhi on 21st May 2020.

8. Attended webinar on the topic “*ACS Guide for Scholarly Communication Expert Advice for Early Career Researchers*” organised by ACS publications on 27th May 2020.

9. Attended National Webinar on the topic “*Synergistic efforts of Academicians and Industrialists in combating Covid-19 using Luminescence*” organised by Department of Physics ST. Pious Degree & PG College for Women, Hyderabad in association with Luminescence Society of India and Sinsil International.

10. Attended National Webinar on the topic “*Endofullerenes: Nano-scale test tubes for single molecules and atoms*”(prof. Macolm Levitt, School of Chemistry, University of Southampton) organised by DDU college, University of Delhi on 8th June 2020.

11. Attended National Webinar on the topic “*Cyber Security Awareness*” organised by Bhaskaracharya College of Applied Sciences, University of Delhi on 23rd June 2020.

Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)

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Awards and Distinctions

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Memberships

Other Academic Activities

Worked as the JRF and SRF fellow in CSIR sponsored project entitled “*Studies on Coordination Complexes of Macrocyclic Ligands and their Open-Chain Analogues: Coordination and Bioinorganic Perspectives*”.

Cultural/Extracurricular Activities

1. Participated in Antardhvani from 14 - 16 February, 2014.

2. Participated in quiz competition organized Department of Chemistry, University of Delhi on 31st March 2011, as a part of celebration of the International year of chemistry.
3. Contributed as a Resource Person in Inspire Science Camp 2018, held from July 16-20, 2018 at Shivaji College, University of Delhi.
4. Contributed as a Resource Person in the Intra-College Laboratory Skill Training Programme for Assistants/Attendants in the Chemical and Life Science Laboratories organized by Shivaji College, University of Delhi from 20-24 May, 2019.
5. Contributed as an Organizer of the RASTANTRAM 2019- The Annual Festival of Department of Chemistry, Shivaji College, University of Delhi on 21st October 2019.
6. Contributed as a Resource Person in the Inter-College Laboratory Skill Training Programme for Assistants/Attendants in the Chemical and Life Science Laboratories organized by Shivaji College, University of Delhi from 27th November to 3rd December, 2019.
7. Contributed as an Organizer in the National Conference on “Relationship between Chemical Sciences and Society” (RCSS-2020), organized by Department of Chemistry, Shivaji College, University of Delhi on 16-17 January 2020.
8. Contributed as a Resource Person in the National Conference on “Relationship between Chemical Sciences and Society” (RCSS-2020), organized by Department of Chemistry, Shivaji College, University of Delhi on 16-17 January 2020.

Signature of Faculty Member