




## SHIVAJI COLLEGE FACULTY DETAILS PROFORMA



<b>Title</b>	Dr.	<b>First Name</b>	SUNIL	<b>Last Name</b>	YADAV	<b>Photograph</b>
<b>Designation</b>	Assistant Professor					
<b>Address</b>	Department of Chemistry, Shivaji College (University of Delhi), Ring Road, Raja Garden, New Delhi-110027, India					
<b>Office Phone No.</b>	-					
<b>Residence</b>	-					
<b>Mobile</b>	9643947478					
<b>Email</b>	sunilgayadin@gmail.com, sunil@shivaji.du.ac.in					
<b>Web-Page</b>	<a href="https://orcid.org/0000-0001-7969-6466">https://orcid.org/0000-0001-7969-6466</a>					
<b>Educational Qualification</b>	Ph.D. (Inorganic Chemistry)					
<b>Degree</b>	<b>University/Institute</b>					<b>Year</b>
<b>Ph.D.</b>	Department of Chemistry, University of Delhi, India (Supervisor: Prof. Rajeev Gupta)					2018
<b>M.Phil./M.Tech</b>	-					-
<b>PG</b>	Kirori Mal College, University of Delhi, India (Specialization: Inorganic Chemistry)					2011
<b>UG</b>	Udai Pratap Autonomous College, Varanasi, UP, India					2008
<b>Any Other Qualifications</b>	CSIR-NET					2011
	GATE					2012
<b>Title of the PhD Thesis:</b> Coordination Complexes of Amide-based Ligands: Synthesis, Characterization, Catalysis and Mechanistic Investigations						
<b>Career Profile</b>						
Started as Assistant Professor in Department of Chemistry, Hans Raj College, University of Delhi from 7 <sup>th</sup> October 2016 to 1 <sup>st</sup> August 2017. Currently (since 2 <sup>nd</sup> August 2017) working as Assistant Professor in Department of Chemistry, Shivaji College, University of Delhi, Raja Garden, New Delhi-110027.						
<b>Administrative Assignment</b>						
-						
<b>Areas of Interest/Specialisation</b>						
<ol style="list-style-type: none"> <li>1. Coordination Chemistry</li> <li>2. Bioinorganic Chemistry</li> <li>3. Organometallic Chemistry</li> <li>4. Electrochemistry/Cyclic Voltametry</li> </ol>						
<b>Courses Taught</b>						
<ol style="list-style-type: none"> <li>1. General Inorganic Chemistry</li> <li>2. Coordination Chemistry</li> <li>3. Organometallic Chemistry</li> <li>4. Bioinorganic Chemistry</li> <li>5. Organic Chemistry</li> <li>6. Quantum Chemistry</li> <li>7. Environmental Chemistry</li> </ol>						

8. Cosmetics and Perfumes 9. Inorganic Materials of Industrial Importance 10. Molecules of Life 11. Analytical Chemistry 12. Industrial Gases and Environment 13. Chemical Energetic & Equilibria
<b>Innovation Project/Research Projects (Major Grants/Research Collaboration)</b>
-
<b>Publications Profile (<i>Research Papers/Books</i>)</b>
1. Pd(II) complexes with amide-based macrocycles: syntheses, properties and applications in cross-coupling reactions. Sushil Kumar, Rajeev Ranjan Jha, <b>Sunil Yadav</b> and Rajeev Gupta, <i>New J. Chem.</i> , 2015, <b>39</b> , 2042-2051, <b>Impact factor:</b> 3.069, <a href="https://doi.org/10.1039/C4NJ01300J">https://doi.org/10.1039/C4NJ01300J</a> 2. Manganese Complexes of Pyrrole- and Indolecarboxamide Based Ligands: Electrochemical Oxidation Studies and Lewis acid Assisted Catalytic Applications: <b>Sunil Yadav</b> , Sushil Kumar and Rajeev Gupta, <i>Eur. J. Inorg. Chem</i> 2015, 5534-5544, <b>Impact factor:</b> 2.578, <a href="https://doi.org/10.1002/ejic.201500773">https://doi.org/10.1002/ejic.201500773</a> 3. Cobalt complexes of pyrrolecarboxamide ligands as catalysts in nitro reduction reactions: Influence of electronic substituents on catalysis and mechanistic insights. <b>Sunil Yadav</b> , Sushil Kumar and Rajeev Gupta, <i>Inorg. Chem. Front.</i> , 2017, <b>4</b> , 324-335, <b>Impact factor:</b> 5.934, <a href="https://doi.org/10.1039/C6QI00389C">https://doi.org/10.1039/C6QI00389C</a> 4. Ruthenium(II) complexes of pyridine-carboxamide ligands bearing appended benzothiazole/benzimidazole rings: Structural diversity and catalysis. Paranthaman Vijayan, Samanta Yadav, <b>Sunil Yadav</b> and Rajeev Gupta, <i>Inorg. Chim. Acta</i> 502 (2020) 119285, <b>Impact factor:</b> 2.433, <a href="https://doi.org/10.1016/j.ica.2019.119285">https://doi.org/10.1016/j.ica.2019.119285</a> 5. Catalytic activity of Bis p-nitro A2B (oxo)Mn(V) Corroles towards Oxygen Transfer reaction to Sulphides. Atul Varshney, <b>Sunil Yadav</b> and Anil Kumar, <i>Inorg. Chim. Acta</i> (Submission no: ICA_2020_651, Revision submitted on 06/06/2020), <b>Impact factor:</b> 2.433 6. Ruthenium complexes of phosphine-amide based ligands as the efficient catalysts for transfer hydrogenation reactions. Samanta Yadav, Paranthaman Vijayan, <b>Sunil Yadav</b> and Rajeev Gupta, Submitted to Dalton transaction (Manuscript ID: DT-ART-03-2020-001197), <b>Impact factor:</b> 4.052
<b>Conference/Seminar/Webinar/Faculty Development Programme/Workshop</b>
1. <b>Sunil Yadav</b> , Sushil Kumar and R. Gupta, "Coordination Chemistry with Pyrrole-Amide & Indole-Amide Ligands" <i>4th National Symposium on Advances in Chemical Sciences</i> from 27- 28 Feb <b>2014</b> at GNDU, Amritsar. 2. <b>Sunil Yadav</b> , Sushil Kumar and R. Gupta, "Coordination Chemistry with Pyrrole-Amide & Indole-Amide Ligands" <i>9th National Conference on Solid State Chemistry and Allied Areas</i> from 8-10 May <b>2015</b> , Bhaskaracharya College of Applied Sciences (University of Delhi). 3. <b>Sunil Yadav</b> "Coordination Chemistry with Pyrrole-Amide & Indole-Amide Ligands" <i>Vth National Conference on Chemical Sciences: Emerging Scenario &amp; Global Challenges (Role of Chemical Sciences to Make in India)</i> 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 17 <sup>th</sup> and 18 <sup>th</sup> 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 13 <sup>th</sup> 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 20 <sup>th</sup> May 2020. 7. Attended National Webinar on the topic "Ecological Revival During Pandemic" organized by Bhaskaracharya College of Applied Sciences, University of Delhi on 21 <sup>st</sup> May 2020. 8. Attended webinar on the topic "ACS Guide for Scholarly Communication Expert Advice for Early Career Researchers" organised by ACS publications on 27 <sup>th</sup> 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 8<sup>th</sup> June 2020.

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

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

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#### **Awards and Distinctions**

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#### **Memberships**

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#### **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 31<sup>st</sup> 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 a Resource Person in the “Summer Training” under DBT Star College Scheme organized by Shivaji College, University of Delhi, from 20-26 May, 2019.
6. Contributed as an Organizer of the RASTANTRAM 2019- The Annual Festival of Department of Chemistry, Shivaji College, University of Delhi on 21<sup>st</sup> October 2019.
7. 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 27<sup>th</sup> November to 3<sup>rd</sup> December, 2019.
8. 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.
9. 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**

Sunil Yadav