

# CURRICULUM VITAE



## Dr-ASHVANI YADAV

Department of chemistry, Institute of Science,  
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ORCID ID: 0009-0002-5961-3816 Research Gate: <https://www.researchgate.net/profile/Ashvani-Yadav-2>

### PERSONAL PROFILE

Mother's Name : Smt. Nirmala Devi  
Father's Name : Shri Sheetala Prasad Yadav  
Date of Birth : 10-12-1994  
Language Proficiency : Hindi & English

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### CARRER OBJECTIVE

To pursue a fulfilling career in research and education, utilizing my love of knowledge discovery, my creativity in problem-solving, and my drive to motivate and inspire future generations of learners. I aim to contribute to the field of organic chemistry through rigorous inquiry, experimentation, and collaboration with fellow researchers. Overall, my objective is to contribute to the academic community as a dynamic researcher and educator, and make meaningful contributions to society.

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### ACADEMIC QUALIFICATION

Degree	Board/University	Subject	Year of Passing
B. Sc.	University of Allahabad	PCM group	2015
M. Sc.	University of Allahabad	Chemistry	2017
Ph. D.	Banaras Hindu University	Organic Chemistry	2024

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### RESEARCH FELLOWSHIPS

- Qualified CSIR-UGC NET (JRF) in 2017 conducted by CSIR with AIR-84.
- Qualified GATE in 2018 conducted by IIT Guwahati.

**RESEARCH INTEREST:** Organic synthesis ,New synthetic methodology in organic chemistry for useful molecules, Sulfur-Sulfur (S-S) bond formation ,Carbon-Sulfur (C-S) bond formation

**Ph.D. TOPIC:** "Exploring the Potential of Sulfonyl Hydrazides in Innovative Organic Synthesis"

**Supervisor:** Prof. Virendra Prasad

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**Technical Skills:** Sound knowledge of molecules characterization by NMR, HRMS, IR, UV, XRD, HPLC

**Computer Skills:** Well versed with window-based operations MS-word, MS-excel, PowerPoint Presentation, Scifinder and chemistry related softwares: CHEMDRAW, MESTRENOVA.

**RESEARCH EXPERIENCE:**

Positions	University/ Institute	From	To	Duration
Junior Research Fellow (UGC-CSIR)	Banaras Hindu University	1 <sup>th</sup> January 2019	31 <sup>st</sup> December 2020	2 Years
Senior Research Fellow (UGC-CSIR)	Banaras Hindu University	1 <sup>st</sup> January 2021	27 <sup>st</sup> May 2024	3.5 Years

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**Publications:**

[1] **Ashvani Yadav**, Amrit Gond, Virendra Prasad. Synthesis of Symmetrical Disulfides by an NIS/PPh<sub>3</sub>-Mediated Reductive Self-Coupling of Sulfonyl Hydrazides. *Synlett*, **2024**; **35(12): 1453-1457**. <https://doi.org/10.1055/s-0041-1738457>.

[2] **Ashvani Yadav**, Rohit Kumar, Virendra Prasad. Hypervalent Iodine Mediated Synthesis of Thiosulfonates from Sulfonyl Hydrazides and Their Transformation into Symmetrical Disulfides. *Synthesis*, **2024**; **56(12):1923-1931**. <https://doi.org/10.1055/a-2260-0346>.

[3] Amrit Gond, Subhash Chandra, **Ashvani Yadav**, Vijay Shankar, Allan Prasad, Rajesh Ram, Virendra Prasad. Synthesis of novel NHC-based transition metal complexes of Pd(II), Au(I), Cu(I) and Ir(III) with pendant 1,2,3-triazole group for remediation of rhodamine. *Inorganica Chimica Acta*, **556**, **2023**,121617. <https://doi.org/10.1016/j.ica.2023.121617>.

[4] Vikas Yadav, Rohit Kumar, Amrit Gond, **Ashvani Yadav**, Mitushree Ghosh, Ram Singh Kuri, Virendra Prasad. New Trends in Asymmetric Catalysis: Chiral Hypervalent Iodine Compounds as Green and Sustainable Catalysts. *Sustainable Green Catalytic Processes*, **2024**, **383-432**. <https://doi.org/10.1002/9781394212767.ch17>

[5] **Ashvani Yadav**, Rohit Kumar, Vikas Yadav, Mitushree Ghosh, Virendra Prasad. Regioselective Thiolation of Indole to Construct 3-Arylthioindoles. *Current Organic Chemistry* **2024**; **29(2):108-118**. <https://doi.org/10.2174/0113852728313866240807175713>.

[6] **Ashvani Yadav**, Vishal Kumar Singh, Rohit Kumar, Vikas Yadav, Vikas Kumar, Ashish Kumar Kushwaha, Ajay Kumar, Virendra Prasad. Regioselective Sulfenylation of Indoles via Sulfonyl Hydrazides: In Silico Design, Synthesis, DFT Calculation, Hirshfeld Surface Analysis, ADMET Study, Molecular Docking, and Anticancer Activity of Some Novel Indole Thioethers. **(Manuscript Under Revision in Journal of Molecular Structure)**

[7] **Ashvani Yadav**, Vikas Yadav, Vikas Kumar, Virendra Prasad. *N*-Chlorosuccinimide Mediated Synthesis of Sulfonyl Azides and *N*-Sulfonyl Heterocycles from Sulfonyl Hydrazides. **(Manuscript Under Revision in Monatshefte für "Chemie)**

[8] Vikas Yadav, Rohit Kumar, Mitushree Ghosh, **Ashvani Yadav**, Virendra Prasad. Metal-Free Desulfonylative and C-H Halogenation of Arenes: A Novel Approach for Haloarene Synthesis. **(Manuscript under Revision in Chemistry Select)**

[9] **Ashvani Yadav**, Amrit Gond. Transition Metal-Free Sulfenylation of Indole with Sulfonyl Chlorides Mediated by KSCN. **(Manuscript Submitted in Chemistry Select)**

[10] Amrit Gond, Devendra Kumar, **Ashvani Yadav**. Synthesis of Symmetrical Thiosulfonates by NH<sub>4</sub>SCN by Reductive Homocoupling of Sulfonyl Chlorides. **(Manuscript Submitted in Tetrahedron)**

### **Conferences:**

- **Participated in International E-Conference on “Recent Trends in Drug Discovery and Development”** during 08-09, October 2021 organized by Department of Chemistry under Internal Quality Assurance Cell, Maitreyi College, University of Delhi, India and given oral presentation entitled **“Synthesis of 3-arylthioindoles via NIS catalysed Regioselective Sulfenylation Reaction.”**
- **Participated in 27<sup>th</sup> International Conference of International Academy of Physical Sciences On “Sustainable Chemistry for Future Technologies”** during 26-28 October 2021, organized by Institute of Chemical Technology and given oral presentation entitled **“NIS catalyzed regioselective sulfenylation reaction of indole: A facile protocol to construct 3-arylthioindoles”.**
- **Participated in “National symposium on Brainstorming meeting on Chemistry at the Interface (BSCI-2022)”** during 26-27, December 2022 organized by the Department of Chemistry, Institute of Science, Banaras Hindu University, India.
- **Participated in “National symposium on Emerging Trends in Chemical Sciences (ETCS-2023)”** during 15-16, December 2023 organized by the Department of Chemistry,

Institute of Science, Banaras Hindu University, India and presented paper entitled  
“Synthesis of Symmetrical Disulfides by an NIS/PPh<sub>3</sub>-Mediated Reductive Self-  
Coupling of Sulfonyl Hydrazides”

**References:**

**Prof. Virendra Prasad**  
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**Declaration:**

I confirm that all the above stated particulars in this resume are true to the best of my knowledge and that I can provide documentary evidence to verify all the given information.

Date: 10-12-2024  
Place: Varanasi

(Dr-Ashvani Yadav)