

CURRICULUM VITAE

1. Name : **Dr. Jyoti Tiwari**
2. Father's Name : Mr. Ravi Prakash Tiwari
3. Husband's Name : Dr. Rahul Mishra
4. Gender : Female
5. Date of Birth : 30th December, 1991
6. Residence : 343, Chakiya Gharahara, Sahson Prayagraj- 221507
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9. Educational Qualification:

SN	Class /Degree	Board/University	Year	Division
1	High School	UP Board	2007	First
2	Intermediate	UP Board	2009	First
3	B. Sc.	University of Allahabad	2012	First
4	M. Sc.	University of Allahabad	2014	First
5	D. Phil.	University of Allahabad	2019	Awarded

Teaching Experience: Worked as **Asst. Prof. (Guest Faculty)** in the **department of Chemistry**, University of Allahabad in the session 2019-2020.

Previous work: Worked as Chemist in Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited (**UPRVUNL**) in Sonbhadra, U. P.

Present Work: Working as Assistant Professor at Department of Chemistry, K. N. Govt. P. G. College, Gyanpur, Bhadohi since 10 August, 2021.

List of Publications:

1. S. Singh, **J. Tiwari**, D. Jaiswal, A. K. Sharma, J. Singh, V. Singh, J. Singh, (2018) "Organocatalyst Mediated One Pot Synthesis of 4H-furo[3,4-b]pyran, 4Hbenzo[g]chromene and 1H-benzo[b]xanthene Derivatives in Aqueous Medium: A Green Approach" *Current Organocatalysis*, 5, 51-57.
2. D. Jaiswal, **J. Tiwari**, S. Singh, A. K. Sharma, J. Singh & J. Singh, (2018) "Sarcosine as a Novel and Recyclable Organocatalyst: A Greener Approach Towards the Synthesis of multi-substituted Pyrazole Derivatives" *Current Organocatalysis*, 5, 229-238.
3. **J. Tiwari**, S. Singh, D. Jaiswal, A. K. Sharma, S. Singh, J. Singh, J. Singh, (2020) "Supramolecular Catalysis: An Efficient and Sustainable Multicomponent Approach to the Synthesis of Novel Hexahydro-4H-indazol-4-one Derivatives" *Current Catalysis*, 9, 1-10.
4. S. Singh, **J. Tiwari**, D. Jaiswal, A. K. Sharma, J. Singh, V. Singh, J. Singh, (2020) "Nucleophilic Acylation with Aromatic Aldehydes to 2 Bromoacetonitrile: An Umpolung Strategy for the Synthesis of Active Methylene Compounds" *Current Organic Synthesis*, 2020, 17, 1-7.
5. A. K. Sharma, A. Jaiswal, A. Mishra, **J. Tiwari**, D. Jaiswal, S. Singh, J. Singh and J. Singh, (2020) "Visible-Light-Induced Radical Cascade Cyclization of Pyrazoles bearing a coumarin unit." *New Journal of Chemistry*, 44, 13350-13356.
6. **J. Tiwari**, S. Singh, D. Jaiswal, A. K. Sharma, S. Singh, J. Singh, J. Singh, (2018) "An Efficient, Convenient and One-pot Synthesis of Diversified Benzochromenes Using L-valine as an Organocatalyst: A Green Protocol" *Current Catalysis*, 7, 202-208.
7. **J. Tiwari**, S. Singh, F. Tufail, D. Jaiswal, J. Singh, and J. Singh, (2018) "Glycerol Micellar Catalysis: An Efficient Multicomponent-Tandem Green Synthetic Approach to Biologically Important 2, 4-Disubstituted Thiazole Derivatives, *ChemistrySelect*, 3, 11634-11642.
8. D. Jaiswal, **J. Tiwari**, S. Singh, A. K. Sharma, J. Singh, J. Singh (2019) "Rose bengal catalyzed coupling of 1, 2 - dicarbonyls and phenylene 1, 2 -diamines: Visible-light mediated synthesis of quinoxalines". *ChemistrySelect*, 4, 8713 –8718 .
9. A. K. Sharma, **J. Tiwari**, D. Jaiswal, S. Singh, J. Singh, J. Singh (2019) Organophotoredox catalysis: visible-light-induced multicomponent synthesis of chromeno[4, 3-b]chromene and hexahydro-1H-xanthene derivatives. *Current Organocataysis*, 6, 1-9.

10. F. Tufail, M. Saquib, S. Singh, **J. Tiwari**, M. Singh, J. Singh, and J. Singh, (2018) "A Practical Green Approach to Diversified Spirochromene/Spiropyran Scaffolds via a Glucose-Water Synergy Driven Organocatalytic System," *New Journal of Chemistry*, 42, 17279-17290.
11. F. Tufail, M. Saquib, S. Singh, **J. Tiwari**, J. Singh, and J. Singh, (2017) "Catalyst-Free, Glycerol-Assisted Facile Approach to Imidazole-Fused Nitrogen-Bridgehead Heterocycles," *ChemistrySelect*, 2, 6082-6089.
12. **J. Tiwari**, S. Singh, M. Saquib, F. Tufail, J. Singh, and J. Singh, "Organocatalytic Mediated Green Approach: A Versatile New L-Valine Promoted Synthesis of Diverse and Densely Functionalized 2-Amino-3-Cyano-4H Pyrans," *Synthetic Communications*, 48 (2018): 188-196.
13. **J. Tiwari**, M. Saquib, S. Singh, F. Tufail, J. Singh, and J. Singh, (2017) "Catalyst free glycerol mediated green synthesis of 5'-thioxospiro[indoline-3,3'-[1,2,4]triazolidin]-2-ones/spiro[indoline-3,3'-[1,2,4]triazolidine]-2,5'-diones," *Synthetic Communications*, 47, 1999-2006;
14. F. Tufail, M. Saquib, S. Singh, **J. Tiwari**, M. Singh, J. Singh, and J. Singh, (2017) "Bioorganopromoted Green Friedländer Synthesis: A Versatile New Malic Acid Promoted Solvent Free Approach to Multisubstituted Quinolines," *New Journal of Chemistry*, 41, 1618-1624.
15. **J. Tiwari**, M. Saquib, S. Singh, F. Tufail, M. Singh, J. Singh, and J. Singh, (2016) "Visible Light Promoted Synthesis of Dihydropyrano[2,3-c]chromenes via a Multicomponent-Tandem Strategy under Solvent and Catalyst Free Conditions," *Green Chemistry*, 18, 3221-3231.
16. S. Singh, M. Saquib, M. Singh, **J. Tiwari**, F. Tufail, J. Singh, and J. Singh, (2016) "A Catalyst Free, Multicomponent-Tandem, Facile Synthesis of Pyrido[2,3-d]pyrimidines Using Glycerol as a Recyclable Promoting Medium," *New Journal of Chemistry*, 40, 63-67.
17. S. Singh, M. Saquib, **J. Tiwari**, F. Tufail, J. Singh, and J. Singh (2017) "Glycerol as an efficient recyclable green promoting media for catalyst free single- pot synthesis of densely functionalized 4H-Chromenes" *Heterocyclic letters*, 7, 705-720.
18. S. Singh, M. Saquib, **J. Tiwari**, F. Tufail, J. Singh, and J. Singh, (2017) "Glycerol Promoted Synthesis of Tetrahydrocyclopenta [b]pyran via a Multicomponent-Tandem Strategy Under Catalyst free Conditions" *Heterocyclic letters*, 7, 907-917.
19. F. Tufail, M. Saquib, A. Mishra, **J. Tiwari**, S. P. Verma, P. Dixit, J. Singh & J. Singh, (2020) "Potash Alum as a Sustainable Heterogeneous Catalyst: A One-Pot Efficient Synthesis

of Highly Functionalized Pyrrol-2-ones and Furan-2-ones” *Polycyclic Aromatic Compounds*, DOI: 10.1080/10406638.2020.1768415. vol. 42, 1130-1140

20. D. Jaiswal, **J. Tiwari**, S. Singh, Kartikey, J. Singh, J. Singh (2021) Visible-Light-Mediated Decarboxylative Thiocyanation of Cinnamic acids: An Efficient Photocatalytic Approach to the Synthesis of (E)-Vinyl Thiocyanates“ *Catalysis Letters*, 151, 19. DOI:10.1007/s10562-020-03414-6, pages, 1738–1744.

21. **J. Tiwari**, S. Mehta (2025) Environmentally benign chemistry: Synthesis of bioactive heterocycles, *Int. J. Adv. Res. Multidisc.Sci.* 08, Issue 01, 144-156.eISSN:2581-8996

Book Chapter Published:

Chapter in book (National Publisher) Chapter Title: *Recycling of Polymer Composites and its Environmental aspects*, A. Yadav, **J. Tiwari**

Book Name: Emerging frontiers in polymer composites (2025) ISBN: 9789364526326, Bluerose Publishers, Chapter 11 Page no. 159-169.

➤ **List of Conferences/Seminars/Workshops Attended and Presentations**

1. A national conference attended on “**Chemistry at the Interface Of Innovative Researches in Science and Technology**” organized by Department of Chemistry, University of Allahabad, Allahabad, India, Feb 27-28, 2014.
2. An Author Workshop Attended which is organized by Springer and University of Allahabad, Allahabad, India, 30th October, 2015.
3. A paper presented on “*Construction of five membered heterocyclic Scaffold via [3+2] cycloaddition reaction in aqueous micellar system*” in a National symposium on “**Science and Technology for Human Development**” organized by Indian Science Congress Association, Department of Chemistry, University of Allahabad, Allahabad, India 14-15 March 2015.
4. A paper presented on “*Catalyst free, multicomponent-tandem facile synthesis of pyrido[2,3-d]pyrimidines using glycerol as a recyclable promoting medium*” in a National symposium on “**Science and Technology for National Development**” organized by Indian Science Congress Association, Department of Chemistry, University of Allahabad, Allahabad, India February 19-21, 2016.
5. A paper presented on “*Visible Light Driven Synthesis of Functionalized, Dihydropyrano[2,3c]chromenes via a Multicomponent-Tandem Strategy under Solvent and Catalyst Free Conditions*” in a National Symposium on “**Chitin & Chitosan Science: A Research Gateway**” organized by Department of Chemistry,

Motilal Nehru National Institute of Technology, Allahabad, India, December 14-20, 2016.

6. A paper presented on “*Visible Light Promoted Synthesis of Dihydropyrano[2,3-*c*]chromenes under Solvent and Catalyst Free Conditions and its spectroscopy characterization*” in International Symposium-cum-workshop on “**Laser Induced Breakdown Spectroscopy**” organized by Department of Physics, University of Allahabad, Allahabad, India, February 19-21, 2018.
7. A paper presented on “*Catalyst free glycerol mediated green synthesis of 5'-thioxospiro[indoline-3,3'-[1,2,4]triazolidin]-2-ones/spiro[indoline-3,3'-[1,2,4]triazolidine]-2,5'-diones*” in National Seminar on “**Reaching the Unreached through Science and Technology**” organized by Indian Science Congress Association, Department of Chemistry, University of Allahabad, Allahabad, India, February 24-25, 2018.
8. A paper presented on “*Supramolecular Catalysis: An Efficient Sustainable Multicomponent Approach to Novel Diversified Pyrazoline Derivatives*” in National Seminar on “**Sustainable Development in India: Issues and Challenges**” organized by Saroj Lal Ji Mehrotra Science Faculty S. S. Khanna Girls Degree College Allahabad, India, November 27-28, 2018.
9. A paper presented on “*Organocatalytic mediated green approach: A versatile new L-valine promoted synthesis of diverse and densely functionalized 2-amino-3-cyano-4H-pyrans*” in National Seminar on “**Future India: Science and Technology**” organized by Indian Science Congress Association, Department of Chemistry, University of Allahabad, Allahabad, India, February 22-24, 2019.
10. A National Workshop Attended on the topic “**Green Chemistry and Good Laboratory Practices**” which is organized by Department of Chemistry of S. S. Khanna Girls' Degree College, Prayagraj held on 27th January, 2022.
11. One Day Lecture – Workshop participated on “**Recent Innovations and Opportunities in Chemical Sciences**” held at Kashi Naresh Govt. P. G. College Gyanpur Bhadohi, February 22, 2022.
12. A paper presented on “*Organocatalytic mediated green approach: A versatile new L-valine promoted synthesis of diverse and densely functionalized 2-amino-3-cyano-4H-pyrans*” in National Conference on “**Biological Diversity & Environmental**

Sustainability” organized by Department of Botany, Kashi Naresh Govt. P. G. College Gyanpur Bhadohi, India, March 25-26, 2022.

13. A paper presented on “*Environmentaly benign chemistry: Synthesis of bioactive heterocycles*” in International Conference on “**Climate Change & Environmental Issues**” organized by Department of Political Science, Government. P. G. College Bindki, Fatehpur, India, October 23-24, 2024.
14. A paper presented on “*Training in India*” in National Conference on “**Sociological Approaches to National Education Policy (NEP) 2020: Shaping Viksit Bharat 2047**” organized by Department Of Sociology, KPM Rajkiya Mahila Mahavidyalaya, Aurai, Bhadohi, India, February 21-22, 2025.
15. A paper presented on “*Revolutionary Movements in Indian History: Political Diversity & Cooperative Struggle*” in National Conference on “**Martyrdom and Legacy: Role of Revolutionary Movement in Indian Freedom Struggle**” organized by Department of History, GD Binani PG College Mirzapur, India, April 11-12, 2025.
16. A paper presented on “*Difference between Sanatana Dharma and Hindutva*” in National Conference on “**Exploring Sanatana Culture and Hinduism:Emerging Cultural Discoursein India**” organized by Department of Sociology, Pt. Deen Dayal Upadhyay Rajkiya Mahila Mahavidyalay Sewapuri, Varansi, India, September 26-27, 2025.
17. A paper presented on “*Malic acid a Sustainable Future: An Emerging Green and Powerful Strategy to multisubstituted quinolones*” in International Conference on “**Bridging Disciplines Through Chemical Sciences for a Sustainable Future**” organized by Department of Chemistry, IQAC, R&D Cell, Navyug Kanya Mahavidyalaya, Lucknow,in collaboration with Association of Chemistry Teachers, India, February13-14, 2026.

Awards and Honours:

- Qualified National Eligibility test (CSIR-JRF/NET) conducted by CSIR in December, 2013 and obtained 38 ranks in all over India.
- Qualified Graduate Aptitude Test in Engineering (**GATE**) in **2014**.
- Awarded Junior Research Fellowship (**CSIR-JRF**) from 22-09-2014 to 30-09-2016.
- Awarded Senior Research Fellowship (**CSIR-SRF**) from 01-10-2016 to 30-06-2019.

Other activities/responsibilities: (academic/administrative):

Session	Nature of Participation (Convener/ Coordinator/ Head/Chairperson/ organizing committee member etc.)	Activity
2022-23	Member Member	UG Admission Committee PG Admission Committee
2023-24	Member	College Development Committee
	Active Member	All India Survey on Higher Education
	Member	Fee Committee
	Member	PG Admission Committee
	Member	PG Admission Committee
2024-25	Member	UG Admission Committee
	Member	College Development Committee
	Active Member	Fee Committee
	Member	PG Admission Committee
2025-26	Member	Fee Committee
	Member	College Development Committee
	Member	Admission Committee
	Member	All India Survey on Higher Education
	Member	Environment Conservation Committee
	Member	Women's Grievance Redressal Committee
	Member	Sports Committee
	Member	Staff Club Committee

Session	Examination duties in UG and PG exam Each meeting of annual and semester examinations ~ 4 hours	Question paper setting (no.)	Evaluation of answer script of university exams (no.)	Act as internal examiner of university exams	Act as external examiner of university exams
2022-23	17 meetings	02	750	yes	yes
2023-24	27 meetings	03	1100	yes	yes
2024-25	36 meetings	04	1350	yes	yes
2025-26	40 meetings	01	700	Yes	Yes