

CURRICULUM-VITAE

1. Name: **Dr. NALINI DWIVEDI**
2. Designation: Assistant Professor
3. Subject: Chemistry
4. Academic Qualifications: M.Phil., DPhil.
5. Areas of interest/Specialization: Synthesis of Metallo-Organic Compounds
6. Date of Birth: 01/02/1984
7. Date of Joining: 15/06/2022
8. Experience: 4 Year, 01 months
9. Official Address: Raghunath Girls' post Graduate College, Meerut
10. Contact no.: 9415865359
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12. Areas of research: Synthesis of Schiff bases ligands containing different donor atoms (O, N & S) and their complexes.



Academic Qualifications:

Examination	Name of Exam	University	Year of Passing	Division/Class/Grade	Main Subjects
Graduation	B.Sc.	C.S.J.M. University, Kanpur	2003	I st	Chemistry, Botany, Zoology
Post-Graduation	M.Sc.	C.S.J.M. University, Kanpur	2005	I st	Chemistry
M.Phil.	M.Phil.	C.S.J.M. University Campus, Kanpur	2008	I st	Chemistry
D.Phil.	D.Phil.	University of Allahabad, Allahabad	2014	-	Chemistry

Research Papers published:-

1. Synthesis and Molecular Docking Studies of 6-{2-(NH/phenyl/tolyl) aminothiazol-4-yl} flavones and 6-{2-(N-H/phenyl/tolyl) aminothiazol-4-yl} flavones, Research Square, 26 March 2026, Under Revision, Nov 2025, <https://doi.org/10.21203/rs.3.rs-8948491/v1>
2. Predictive Modeling of Thermo Physical Properties in Deep Eutectic Solvent Systems Using Jouyban–Acree and Mcallister Correlations (521-529), International Journal of Scientific Research and Technology (*Int. J. Sci. R. Tech.*), **2**(11), [Article Id IJSRT/250311089](#)
3. “Estimation of Transport Properties of Polar Solvents from 298.15-318.15K” International Journal of Science, Engineering and Technology (12(3), 1-4, May 2024, https://www.ijset.in/wp-content/uploads/IJSET_V12_issue3_516.pdf
4. “Theoretical estimation of heat capacity of binary liquid mixtures at different temperatures by associated and non-associated processes” *Research Journal of Chemical Sciences* Vol. 14(1) ,16-25, Feb 2024, <https://www.isca.me/rjcs/Archives/v14/i1/3.ISCA-RJCS-2023-021.pdf>
5. “Intermolecular interactions and excess refractive indices of binary liquid mixture from 298.15-323.15k: correlation and modeling” International Journal of Current Advanced Research, pp **2542**-2546, Oct 2023, <http://dx.doi.org/10.24327/ijcar.2547.1557>
6. Microwave assisted synthesis and biological activities of hetero aryl ketone Schiff base and thorium(IV) complexes of 2-aminobenzothiazole. *International Journal of Novel Research and Development*, **8**(8), **b802**-b814, 2023. <http://doi.one/10.1729/Journal.35880>
7. Synthesis, spectroscopic characterization and antibacterial activity of Ti(IV) and Zr(IV) complexes containing salicylidene-thiosemicarbazone. *Res. J. Chem. Environ.*, **81**(3) 47-55, 2014.
8. Preparation and physic-chemical properties of new dimeric $[(\mu\text{-Cl})_2\text{M}_2(\text{sb})_2.\text{xTHF}]$ and monomeric $[\text{M}_2(\text{sb})_2.\text{xTHF}]$ (M = Co^{II}, Ni^{II}) complexes containing salicylidene-sulphadiazine ligand. *J. Indian Chem. Soc.*, **91**, 1099-1106, 2014.
9. Synthesis, spectroscopic (NMR, ESI-MS & PXRD) characterization and antimicrobial studies of zirconium(IV) complexes containing Schiff bases. *Bulletin Pure and Appl. Sci*, **32C**(2), 97-109, 2013.

10. Synthesis, reactions, physicochemical characterisation and biological studies of titanium(IV) Schiff base complexes. *J. Indian Chem. Soc.*, **90**, 285-294, 2013, <https://doi.org/10.5281/zenodo.5768056>.
11. Triorganotin(IV) derivatives of bidentate Schiff bases: Synthesis and spectral studies. *Phosphorus, Sulfur, and Silicon and the Related Elements*, **187** (9) (1038-1045), 2012, <https://doi.org/10.1080/10426507.2012.664218>
12. Synthesis and physicochemical characterization of some hexacoordinated tin(IV) Schiff base complexes. *Main Group Met. Chem.*, **34**, (3-4) , 77-83, 2011, <https://doi.org/10.1515/MGMC.2011.014>
13. Synthesis, reactions and physicochemical characterization of some new mixed ligand complexes of titanium(IV) containing cyclopentadienyl and Schiff base moieties. *J. Indian Chem. Soc.*, **88**, 1331-1338, 2011
14. Synthesis and characterization by means of IR, ^1H , ^{13}C , ^{119}Sn NMR and FAB-MS spectroscopy of some new organotin(IV) complexes. *J. Indian Chem. Soc.*, **88**, 845-851, 2011, [WOS:000293109500013](https://www.wosid.org/000293109500013).
15. Synthesis, characterization and structure elucidation of mixed ligand complexes of $(\text{cp})_2\text{ZrCl}_2$ and ZrCl_4 . *Vijnana Parishad Anusandhan Patrika*, **55**(3), 15-26, 2012.
16. Synthesis and spectroscopic (IR, NMR and FAB-mass) characterization of mixed ligand complexes of titanium(IV). *Vijnana Parishad Anusandhan Patrika*, **52**(4), 265-278, 2009.

Book Chapters

1. Overview of Green Chemistry, **August 2024**, HSRA Publications, ISBN number 978-93-5506-629-9, pp-521-529, <https://doi.org/10.5281/zenodo.18796894>
https://www.researchgate.net/publication/384191137_CLIMATE_CHANGE,
2. Role of Biodiversity in Ecosystem and Ecosystem Services, **October 2025**, Genic Books Publishers Pvt.Ltd. Agra, 978-81-990617-1-2, pp-90-97.
<https://doi.org/10.5281/zenodo.18797049>
<https://alphinepublication.com/product/Advanced-Inorganic-Chemistry->

3. Book Chapter “Integrating Indian Knowledge Systems with Modern Chemistry for Sustainable Innovation” **May 2026**, Mangalam, 978-81-19681-77-8, pp-53-60.

Publication Delhi, <https://doi.org/10.5281/zenodo.21348426>

Faculty Enrichment Programme Attended:

<i>S.No</i>	<i>Detail of the FDP/FEP</i>	<i>Date(s) of the event</i>	<i>Organizer & Sponsor</i>	<i>International/ National/ State/ University</i>
1.	Two Week Refresher Course in “E-Content Development, MOOCS and Outcome Based Education”	30-10-2025 to 12-11-2025	GAD- MMTC scheme	National
2.	5 Days Workshop “Molecular Docking: Basic to Application in Drug Discovery - A design thinking and Innovation Workshop on Prob	29-11-2024 to 03-12-2024	Raghunath Girs P.G. College, Meerut in association with Awastambh. Kanpur	National
3.	Seven days National level FDP on NAAC Revised Accreditation Framework (Online) Encl 2	17-10-2023 to 25-10-2023	IOT Academy Coimbatore, Tamilnadu India	National
4.	Two Week Refresher Course in “Environmental Science” (Online) Encl 1	29-08-2023 to 12-09-2023	Ramanujan College, under PMMMNMIT	National
5.	FDP on "MOOCS and E-Content Development"	29-04-2023 to 05-05-2023	GAD- TLC under PMMMNMTT scheme	National
6.	Faculty Induction	25-02-2023 to 27-	GAD- TLC under	National

	Programme (FIP)	03-2023	PMMMNMNTT scheme	
7.	FDP on "New Trends in Research Methodology"	11-02-2023 to 17-02-2023	Raghunath Girl's Post Graduate College, Meerut	National

Invited lectures/ Resource person/ Paper Presented in Conferences/ Seminar/ Workshops:

S.No	Title of the Invited Lecture/paper presented	Detail of the Conference/ Seminar (including organizer& Sponsor)	Date(s) of the event	Venue of the event	International/National/ State/ University	Role
1.	Significance of Chemistry in Resolving Climate change and Environmental Inequities	Climate Change and Social Justice: Challenges and Solutions of Environmental Justice (ICCSJ-2026)	27-02-2026 to 28-02-2026	M.M.H. College Ghaziabad with Indian Council of Social Science Research	International Conference	Presented paper
2.	"Interdisciplinary Dimensions of Chemistry"	"Interdisciplinary Dimensions of Chemistry"	28/09/2025	Institute Innovation Cell, C.M.P. Degree College, Prayagraj, 9450840821	As an Invited Speaker in the International Conference	Guest Speaker
3.	International Seminar "Role of Writing Style and Clarity in Publication"	Scientific Writing and Publication: Bridging Research and Readership	22/11/2025	Raghunath Girls P.G. College, Meerut	International Seminar	Presented paper
4.	"Chemical Approaches to resolve Impact of Environmental Crisis"	One day National Seminar "Environmental Crisis and Developing Economies: Challenges, Strategies and Solution" (Encl	19/11/2024	Raghunath Girls P.G. College, Meerut	Plant Conservation Society, Vasudha Eco Club and Department of Economics, Raghunath Girls' Post Graduate College, Meerut, U.P. in Collaboration with Jagruk Nagrik Association.	Presented paper

5.	“Climate Change and Risks of Disasters:”	Two days National Seminar “Climate Change and Natural Disasters: Preparedness, Mitigation & Management Strategies” (Encl 5)	23/11/2024 to 24/11/2024	Department of Geography, Meerut College, Meerut, U.P. (C.C.S.U. Meerut)	Indian Council of Social Science Research, New Delhi (MHRD New Delhi) National	Presented paper
6.	“The Importance and Principles of Ecological Restoration”	Day International Conference on “Restore the Earth: One Planet, One Mission with Sustainable Living” (Encl 7)	05/06/2025	Department of Chemistry, Meerut College, Meerut, U.P.	Uttar Pradesh Higher Education Department (UPHED)	
7.	“Conservation of Biodiversity for Ecological Sustainability through Carbon Sequestration”	One day National Seminar “Sustainable Technologies for Ecological Restoration” (Encl 6)	30/03/2025	Department of Chemistry, Meerut College, Meerut, U.P.	National	
8.	Two days Adulteration workshop in Food Science Department	Two days Adulteration workshop	16-02-2023 to 17-02-2023	Raghunath Girl’s Post Graduate College, Meerut	National	Resource Person
9.	Structural and Chemical Properties: Dyes and Pigments	Two days National Conference “Different Techniques & Trends of Indian Art” Encl 4	21.03.2024 to 22.03.2024	Raghunath Girl’s Post Graduate College, Meerut	National	Presented
10.	Microwave assisted synthesis of various Schiff bases containing O, N & S donor atoms with tetravalent complexes	National Conference on “Recent Trends in Materials and Life Sciences”	29-09-2023	M.D. University Rohtak, Haryana, Department of Chemistry	National	Presented

11.	Preparation and spectroscopic studies of zirconium(IV) Schiff base complexes by means of IR, NMR, MS and TGA with antibacterial activity	“48th Annual Convention of Chemists 2011	Dec. 3-7 (2011).	Department of Chemistry, University of Allahabad, Allahabad	National	Presented
12.	Synthesis, spectral and thermal studies of some titanium(IV) complexes with tridentate Schiff bases ligand	“Interface of Industry, Biology and Chemistry Research in 21st Century	5 Jan.-7 Feb. (2011)	Department of Chemistry, University of Allahabad, Allahabad	National	Presented
13.	Synthesis, reactivity and spectroscopic characterization of new titanium(IV) complexes containing Schiff bases	80 th Annual Session and Symposium on “Climate Change– Research, Awareness and Capacity Building	Dec. 2-4 (2010)	Jaipur National University, Jaipur	National	Presented
14.	Some aspects of microwave assisted synthesis of various Schiff bases containing O, N & S donor atoms alongwith some divalent metals and tetravalent organometallic complexes	“Introduction to Green Chemistry Education : Theory and Practice	Oct. 22-23 (2010)	Department of Chemistry, V.S.S.D. College, Kanpur, UP	National	Presented
15.	Synthesis and spectroscopic studies of titanium(IV) complexes with bidentate Schiff bases ligand derived from salicylaldehyde	“Contemporary Research in Material Science and Chemical Biology”	31 st Jan.-2 nd Feb. (2010)	Department of Chemistry, University of Allahabad, Allahabad	National	Presented

16.	Synthesis and spectroscopic studies (IR, NMR and FAB-mass) of some mixed ligand complexes of titanium(IV) and tin(IV)	<i>“Application of Material Science in Service of the Society-Second Series”</i>	Sep. 12-13 (2009)	Department of Chemistry, C.M.P. Degree College, Allahabad	National	Presented
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Seminar/ Workshop/ Conference Attended:

S.No	Detail of the Conference/ Seminar	Organizer & Sponsor	Date(s) of the event	Venue of the event	International/National/ State/ University
1.	National Conference on "Induction training for teachers at higher education institution (HEIs): Today's need for enhancing quality of higher education"	Raghunath Girl's Post Graduate College, Meerut	21-12-2022 to 22-12-2022	Raghunath Girl's Post Graduate College, Meerut	National
2.	Enterprise Architecture Adoption For Higher Education Institutions	IQAC & Teachers' Re – Skilling Cell	19 -08-2023	R.G.P.G College Meerut	National