

CURRICULUM VITAE

Dr. Shweta Chaudhary

Assistant Professor
Under Self Finance Scheme
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OBJECTIVE

To associate myself with multi-dynamic organization which may provide a good platform to explore and update my knowledge & skills with latest teaching methods along with research and to get the opportunity of working with a dynamic team.

ACADEMIC QUALIFICATION

S.no.	Examination	Year	College/School's name	Board/University	Percentage (%)
1.	Ph.D. (Organic Chemistry)	2013-2018	Department of Chemistry	University of Delhi	Degree awarded
2.	NET-JRF	2012		CSIR-NET JRF (Chemical Sciences)	Rank- 57
3.	M.Sc. (Organic Chemistry)	2010-2012	Hindu College	University of Delhi	77.00
4.	B.Sc. (Hons) Chemistry	2007-2010	Hindu College	University of Delhi	74.80
5.	Class XII	2007	CCDPS, Ghaziabad	CBSE	87.40

6.	Class X	2005	Ingraham Institute English School, Ghaziabad	ICSE	76.20

Ph.D. Research Topic

Design, Synthesis and Characterization of some novelazole and phenothiazine functionalized compounds and their applications.

Salient features of Ph.D. research work

This thesis describes some new synthetic methodologies for the development of some novelazole functionalized compounds such as 2-aryl/heteroarylthiazolines, 2-aryloxazolines, 2-aryl/heteroarylbenzothiazoles and unsymmetrically N, N'-disubstituted imidazolium salts under base- and metal-free strategy for their application as fluorescent probe for picric acid and metal ion sensing. It also describes the design, synthesis and characterization of some novel phenothiazine-based *acceptor-donor-acceptor* (A-D-A) molecules and their photophysical, thermal and computational studies. These compounds were also explored as probes for volatile acids (TFA and HCl) and metal ions sensing.

Teaching Experience

1. **Lecturer** - Department of Science at Institute for Education & Technical-Sciences, NH-58, Abupur, Muradnagar, Ghaziabad, U.P. (16/03/2018-30/06/2019)
 - B.Sc. Home Science- Applied Chemistry
2. **Assistant Professor** – Department of Chemistry, Keral Verma Subharti College of Science, Swami Vivekananda Subharti University, Meerut (10/07/2019-05/03/2021)
 - B.Sc. Chemistry- Inorganic Chemistry
 - B.Sc. PCM/ B.Sc. CBZ
 - M.Sc. Chemistry- Physical Chemistry, Organic Chemistry
3. **Visiting Faculty** - Department of Science at Institute for Education & Technical-Sciences, NH-58, Abupur, Muradnagar, Ghaziabad, U.P. (20/04/2020-30/09/2021)

- B.Sc. Home Science- Applied Chemistry

Present Position

Assistant Professor (Under Self Finance Scheme) - Department of Chemistry at Ch. Chhotu Ram PG College, Muzaffarnagar, U.P. (25/10/2021-Present)

- M.Sc. Chemistry – Inorganic Chemistry, Physical Chemistry & Organic Chemistry

Academic Distinctions

- Cleared NET-JRF with CSIR rank-57 (2012)
- Secured 5th rank in M.Sc.(Chemistry) at University level (2012)
- Got scholarship for scoring high marks (was amongst top 20) at university level (2007)
- Subject topper in Class XII (2007)

Field of Interest

Novel Synthesis of small organic molecules and to study their application in the field of organic chemical sensors. The use of organic sensors is continuously growing all over fields of science and technology. They have been found very useful for environmental and biological sample analysis. They can be functionalized with different groups for optical, biological and bio-imaging applications.

List of Publications

1. Himshikha Sharma, **Shweta Chaudhary**, Sonam Nirwan, Rita Kakkar, Hui-Shan Liew, May Lee Low, Chun Wai Mai, Ling-wei Hii, Chee Onn Leong and Marilyn D. Milton*. N, N'-disubstituted benzimidazolium salts: Synthesis, Characterization, micromolar detection of Fe(III) in aqueous system, biological evaluation and molecular docking studies. *Chemistry Select*, **2022**, 7, e202203239.
2. **Shweta Chaudhary**, Madhubani Mukherjee, Tanmoy K. Paul, Srabani Taraphder,* and Marilyn D. Milton*. Novel thiazoline-phenothiazine based “push-pull” molecules as fluorescent probes for volatile acids detection. *Journal of Photochemistry & Photobiology A: Chemistry*, **2020**, 397, 112509.
3. **Shweta Chaudhary**, Himshikha Sharma and Marilyn D. Milton*. Novel 2-Arylbenzothiazoles: Selective Chromogenic and Fluorescent Probes for the Detection of Picric Acid. *Chemistry Select*, **2018**, 3, 4598-4608.
4. **Shweta Chaudhary**, Madhubani Mukherjee, Tanmoy K. Paul, Swati Bishnoi, Srabani Taraphder,* and Marilyn D. Milton*. Novel Phenothiazine-5-oxide Based Push-Pull Molecules: Synthesis and Fine-Tuning of Electronic, Optical and Thermal Properties. *Chemistry Select*, **2018**, 3, 5073-5081.
5. **Shweta Chaudhary**, and Marilyn D. Milton*. Dicationic imidazolium salts as fluorescent probes for selective detection of Fe³⁺ ion in pure aqueous media. *Journal of Photochemistry & Photobiology A: Chemistry*, **2018**, 356, 595-602.
6. **Shweta Chaudhary**, Marilyn D. Milton* and Parul Garg. A Base- and Metal-free Protocol for the Synthesis of 2-Aryl/heteroaryl Thiazolines. *Chemistry Select*, **2017**, 2, 650-654.
7. Parul Garg, **Shweta Chaudhary**, and Marilyn D. Milton*. Synthesis of 2-Aryl/Heteroaryloxazolines from Nitriles under Metal and Catalyst-Free Conditions and Evaluation of Their Antioxidant Activities. *Journal of Organic Chemistry*, **2014**, 79, 18, 8668-8677.

Poster Presentation and Conferences, Seminars/Webinars Attended

- Participated in International Symposium “Chemical Wisdom by Her” organized by Department of Chemistry, Deshbandhu College, Delhi University held on 31st January, 2022.
- Successfully participated and completed the “Online Certificate Course on Smokeless Tobacco Cessation” organized by WHO FCTC Global Knowledge Hub on Smokeless Tobacco at ICMR-National Institute of Cancer Prevention and Research, Noida, India in collaboration with Department of Health Sciences, University of York, UK from 10th July - 28th August, 2020.

- Participated in a webinar on “Recent advancements in highly fluorescent carbon quantum dots for multi-potential application” held on 26th June, 2020 organized by Christian College of Engineering and Technology, Anna University, Chennai.
- Participated in a webinar Lecture Series on “Mass Spectrometry based Metabolomics” held on 25th June, 2020 organized by Amity International society of natural products, Health and allied sciences domain, Amity University, Noida, UP.
- Participated in a webinar on “MEMS Technology: A driver for IoT Applications” held on 24th June, 2020 organized by Amity School of Engineering and Technology, Amity University, Gwalior, MP.
- Participated in a webinar on “Skill Development for a self reliant India” held on 24th June, 2020 organized by Entrepreneurship Development Cell, M M School of Pharmacy, MMU, Sadopar, Ambala.
- Participated in a National webinar on “COVID-19: Impact on Environment and Social Change” held on 5th June, 2020 organized by Pranahi, the Eco club of Bhaskaracharya College of applied sciences, Delhi University.
- Participated in a webinar on “Mastering complex processes with Design of Experiments” held on 2nd June, 2020 organized by Chemistry World Webinars, Merck.
- Participated in an International webinar on “Biodiversity and Environmental Health” held on 20th May, 2020 organized by Department of Environmental Studies, Shivaji College, Delhi University.
- Participated in a Two day International webinar on “Prevalent crisis triggered by the COVID 19 Pandemic and its Appraisal” held on 18th -19th May, 2020 organized by Department of Chemistry & Biomedical Science, Bhaskaracharya College of applied sciences, Delhi University.
- Participated in a SVSU-webinar on “Google classroom as an ICT tool” on 16th May, 2020 organized by Swami Vivekanand Subharti University, Meerut.
- Participated in a National webinar on “Economic Crisis and its Redressal during Pandemic” held on 15th May, 2020 organized by Department of Chemistry, Bhaskaracharya College of applied sciences, Delhi University.
- Participated in a webinar on “DOZN 2.0 – a quantitative green chemistry evaluator” on 15th May, 2020 organized by Chemistry World Webinars, Merck.

- Participated in a webinar on “How to access Taylor & Francis Journals” on 14th May, 2020 organized by Taylor & Francis Group.
- Participated in the webinar on “Development of Micro-sensors and their Applications using Artificial Intelligence” held on 8th May, 2020 organized by Amity School of Engineering and Technology, Amity University, Gwalior, MP.
- Participated in the webinar on “How to build skills for 21st Century Jobs?” on 2nd May, 2020 organized by Anavi Learning, Acadru.
- Participated in National Conference on “Smart innovations in science, communication and computing technology” (SISCT-2020) organized by Keral verma subharti college of science, SVSU, Meerut held on 14th -15th Feb, 2020.
- Poster presentation in National Seminar on “Recent trends in Interdisciplinary Research” organized by IQAC, Multanimal Modi College, Modinagar, Ghaziabad, U.P. held on 31st Jan, 2020.
- Poster presentation in 22nd ISCB International Conference (ISCBC-2016) organized by Uka Tarsadia University, Surat, Gujarat (2016)
- Poster presentation in Lecture Workshop / Conference on Emerging Trends in Development of Drugs and Devices by Department of Chemistry, University of Delhi and The National Science Academies of India, New Delhi (2013)

Workshops Attended

- Successfully participated in IP Awareness/ Training Program under National Intellectual Property Awareness Mission organized by Intellectual Property Office, India on 29th July, 2022.
- Member of Co-organizing committee of one week workshop on “Antioxidant Response of Plants Under Abiotic Stress” conducted from 24th February to 29th February 2020 organized by Keral Verma Subharti College of Science, SVSU, Meerut.
- Participated in Workshop on “Introduction to MATLAB” organized by Department of Mathematics, KVSCOS, SVSU, Meerut (2019)

- Participated in academic and cultural festival ‘Antardhwani’ organized by University of Delhi (2014, 2015)
- Workshop on Information, literacy and Competency organized by Delhi University Library System, University of Delhi (2014)
- Workshop on IPR, Patenting and Patentability Assessment organized by CIC, University of Delhi (2014)

Extra-Curricular Activities

- Participated in an online quiz on Research Methodology organized by Department of Mathematics, Keral Verma Subharti College of Science, SVSU, Meerut. **2020**
- Participated in an online quiz on COVID-19 organized by Department of Computer Application, Keral Verma Subharti College of Science, SVSU, Meerut. **2020**
- Member of Co-organizing committee of one week workshop on “Antioxidant Response of Plants Under Abiotic Stress” conducted from 24th February to 29th February 2020 organized by Keral Verma Subharti College of Science, SVSU, Meerut. **2020**
- In-charge of Career Counselling Committee at KVSCOS, SVSU, Meerut **Present**
- Got Distinction in Senior GK test held by United Schools Organisation of India **2005**
- Got Distinction in Pre-Senior GK test held by United Schools Organisation of India **2003**
- Participated in Art competition held by Jagriti Samudayik Vikas Samiti **2003**
- Won Second Class at National Level in IGSC Scholarship examination **2003**
- Participated in Sudoku Competition at College Level
- Participated in sports and other activities at school level

Instrumental Skills

- UV- Vis Spectrometer (UV)
- Flourimeter
- Familiar with IR and Mass Spectrometry Instruments
- Expert in Column Chromatography and all Laboratory handling.

Computer Skills

- Proficient with MS-Word, Excel and PowerPoint.
- Expert in Origin Software for data analysis and graphing.
- Expert in Delta Software for NMR data analysis.
- Expert in Chemdraw Software.
- Expert in Wingx and Encifer Software for Single crystal data analysis.
- Expert in Mercury and Ortep Software for Single crystal X-ray plot.

PERSONAL INFORMATION

Name: Shweta Chaudhary

Father's Name: Mr. Rajesh Chaudhary

DOB: 13/09/89

Marital Status: Married

Language Known: Hindi & English

