

## CURRICULUM VITAE

<b>Full Name</b>	<b>Dr. SARITA GOND</b>			
<b>Designation</b>	Assistant Professor			
<b>Department</b>	Chemistry			
<b>Campus</b>	Dr. BGR Campus, Pauri			
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<b>Educational Qualification</b>	B.Sc. 2014, BHU, Varanasi M.Sc. 2016, BHU, Varanasi Ph.D. 2023, BHU, Varanasi			
<b>Other Achievements</b>	CSIR-NET+JRF, GATE			
<b>Teaching Experience</b>	04 Years	<b>Research Experience</b>	08 Years	
<b>Area of Interest/ Specialization:</b> <ol style="list-style-type: none"><li>1. Molecular Sensor</li><li>2. Coordination Chemistry</li><li>3. Bioinorganic Chemistry</li><li>4. Catalysis</li></ol>				
<b>Membership of Academic Institutions/Scientific Organizations:</b> <ol style="list-style-type: none"><li>1. Member ..... American Chemical Society</li><li>2. Life member... Chemical Research Society of India</li><li>3. Member..... Royal Society of Chemistry</li></ol>				
<b>Administrative Experience:</b> <ol style="list-style-type: none"><li>1. Astd. Proctor, Dr. BGR Campus Pauri</li><li>2. Member Internal Complaint Committee/ Special Women Cell</li><li>3. Hostel Warden Girls Hostel, Dr. BGR Campus Pauri</li><li>4. Member UG Admission Committee</li><li>5. Member PG Admission Committee</li></ol>				
<b>Chapter in edited Book</b> <ol style="list-style-type: none"><li>1. Gond S., Kumar G., "Schiff Base Metal Complexes: As Catalyst" Emerging Trends in Catalysis, Natural Products, and Polymers, Professional Prints, New York, USA, 2025, Pages 89-100, Print ISBN: 978-19-66695-46-2, eISBN: 978-19-66695-47-9.</li><li>2. Gond S., Singh A., "Revolution in Chemistry Education via National Education Policy (NEP): A Path to Sustainability and Innovation" IN: REIMAGINING SCHOOL EDUCATION IN</li></ol>				

THE 21<sup>st</sup> CENTURY POLICIES TO PRACTICES. Book Rivers, 2025, Pages 126-136, ISBN: 978-93-6884-495-2.

### Research Guidance

M.Sc. (Dissertation): Thesis awarded 06; Enrolled 03

### Reviewer of International Journals

1. International Journal of Creative Research Thoughts - IJCRT

### List of Publications

1. A coumarin-derived turn 'off-on-off' probe for selective sequential monitoring of Al<sup>3+</sup> and Cu<sup>2+</sup> ions with bio-imaging application, **Sarita Gond**, Avanish Kumar Singh, Pranjalee Yadav, Pradeep Kumar, S. Srikrishna, Vinod P. Singh, Journal of Photochemistry & Photobiology, A: Chemistry 454 (2024) 115744.
2. Design and development of a highly efficient hydrazone-based sensing material for selective detection of F<sup>-</sup> ions, **Sarita Gond**, Pranjalee Yadav, Vinod P. Singh, Materials Letters 351 (2023) 135003.
3. A colorimetric and 'OFF-ON' fluorometric chemosensor based on Rhodamine-pyrazole derivative for the detection of Al<sup>3+</sup>, Fe<sup>3+</sup> and Cr<sup>3+</sup> metal ions, and its intracellular application, **Sarita Gond**, Pranjalee Yadav, Aayoosh Singh, Somenath Garai, Anusmita Shekher, Subash Chandra Gupta and Vinod P. Singh, Organic & Biomolecular Chemistry, 21 (2023) 4482-4490.
4. A reversible and selective chromogenic thiazole-tagged chemosensor for Hg<sup>2+</sup> in aqueous medium: Crystal structure, theoretical investigations and real sample analysis, Gautam Kumar, Ananya Srivastava, **Sarita Gond**, Pranjalee Yadav, Aayoosh Singh, Vinod P. Singh, Journal of Molecular Structure, 1283 (2023) 135281.
5. A novel 3-acetyl coumarin-based AIE luminophore for colorimetric recognition of Cu<sup>2+</sup> and F<sup>-</sup> ions, **Sarita Gond**, Pranjalee Yadav, Avanish Kumar Singh, Vinod P. Singh, Journal of Molecular Structure 1273 (2023) 134317.
6. A multifunctional basic pH indicator probe for distinguishable detection of Co<sup>2+</sup>, Cu<sup>2+</sup> and Zn<sup>2+</sup> with its utility in mitotracking and monitoring cytoplasmic viscosity in apoptotic cells, Pranjalee Yadav, **Sarita Gond**, Anusmita Shekher, Subash Chandra Gupta, Udai P. Singh and Vinod P. Singh, Dalton Transactions, 51 (2022) 6927-6935.
7. Development of an 'OFF-ON-OFF' colorimetric and fluorometric pH sensor for the study of physiological pH and its bioimaging application, **Sarita Gond**, Pranjalee Yadav, Brijesh Singh Chauhan, S. Srikrishna, Vinod P. Singh, Journal of Molecular Structure, 1252 (2022) 132147.
8. Development of a reversible chromogenic sensor for Cu<sup>2+</sup> in aqueous ethanol, Pranjalee Yadav,

**Sarita Gond**, Aayoosh Singh, Vinod P. Singh, Materials Letters, 295 (2021) 129869.

9. A pyrene thiophene-based probe for aggregation-induced emission enhancement (AIEE) and naked-eye detection of fluoride ions, Pranjalee Yadav, **Sarita Gond**, Ashish Kumar Singh, Vinod P. Singh, Journal of Luminescence, 215 (2019) 116704.

### **Events Organized**

1. Part of the organizing Committee of the 'Science Popularization Lecture, Quiz & Debate Competition' on the occasion of 'World Ozone Day' organized by the Chemistry Department, Dr. BGR Campus, Pauri on 16 September 2025.
2. Organized an invited talk on the topic "NEP 2020 with reference to Formal and Informal Education" at the Department of Chemistry, Dr. BGR Campus, Pauri, on 23 August 2025. The programme aimed to create awareness about the objectives and implementation of NEP 2020 among faculty and students.
3. Organized a seminar on the occasion of World Earth Day-2025 at the Department of Chemistry, Dr. BGR Campus, Pauri, on 22 April 2025, focusing on environmental awareness and sustainable practices among students and faculty.
4. Member of organizing team in "Career Prospects in Chemistry" organized by Hemvati Nandan Bahuguna Garhwal University (Department of Chemistry) held on 24th April 2023.

### **Conference/ Seminar/ Workshop**

#### **International**

1. Presented a paper on "A coumarin appended probe for the sequential determination of  $Al^{3+}$  and  $Cu^{2+}$  and its application in cell imaging" organized by the Department of Chemistry & International Student Affairs, Harcourt Butler Technical University (HBTU), Kanpur, UP in association with Department of Biotechnology, School of Biosciences and Technology, & Institute's Innovation Council (IIC), Galgotias University, Greater Noida, UP during 6-7 December 2024.
2. Presented a paper on "A novel AIE luminophore based unsymmetrical azine as dual responsive chemosensors for anion and cation: synthesis and studies of selective chemosensor for  $F^-$  and  $Cu^{2+}$  ions" organized by the Department of Chemistry, Banaras Hindu University, Varanasi, 15-17 December 2022.

#### **National**

1. Presented a paper on "A Photoinduced Electron Transfer Mechanism Based 'OFF-ON-OFF' Colorimetric and Fluorometric pH Chemosensor for the Study of Physiological pH and Its Application in Intracellular Bioimaging," organized by the Department of Chemistry, Banaras

Hindu University (BHU), Varanasi, during 26–27 December 2022.

2. Presented a paper on “Synthesis and characterization of a turn OFF-ON-OFF pH responsive sensor” organized by the Department of Chemistry, Banaras Hindu University (BHU), Varanasi, during 29-30 November 2019.
3. Presented a paper on “Photoluminescence studies on naphthaldehyde-based Schiff base” organized by the Department of Chemistry, Banaras Hindu University, Varanasi, during 17-18 November 2018.

### **Participations**

1. Participated in the Periodic Lecture titled as पर्यावरणीय संकट के निराकरण में दर्शन की भूमिका organized by Department of Sanskrit, Dr. B.G.R. Campus, Pauri Garhwal, H.N.B. Garhwal University held on 23/12/2025.
2. Participated in “International Symposium on Frontier Technologies: From AI and Biomedical Innovation to Indian Space Exploration” organized by the Department of Computer Science and Engineering, HNB Garhwal University, Srinagar Garhwal, India, held on 18 Aug 2025.
3. Participated in an online expert talk on “Polymer-based haemostatic dressings” by Dr. Vivek Verma, Professor, IIT Kanpur, organized by the Department of Chemistry, HBTU, Kanpur, held on 28 April 2025.
4. Participated in “Recent advances in sustainable oleo polymer and their nanocomposite-based anti-corrosive coatings” organized by the Department of Chemistry, HBTU, Kanpur, held on 16 November 2024.
5. Participated in “Future trends in catalytic organic synthesis” organized by MDPI AG -BKK held on 4<sup>th</sup> June 2024.
6. SERB-sponsored karyashala on analytical instrumentation for applied research organized by the Department of Chemistry, HNB Garhwal University, Srinagar (Garhwal) Uttarakhand, during 17-23 May 2024.
7. Participated in the Regional water quality monitoring and management training workshop organized by the Department of Chemistry, BGR Campus, Pauri on 23 March, 2023.
8. Participated in ChemSci2021: Leaders in the Field Symposium organized by RSC Publishing, webinar on 15 Dec 2021.
9. Participated in Indira Gandhi Institute of Paramedical Sciences, Munshiganj, Amethi, Uttar Pradesh. (A Unit of Sanjay Gandhi Memorial Trust), Webinar TOPIC “Impact of Covid -19 on Dialysis Patients” held on 01 July 2021.

10. Participated in Instrumentation Techniques in Chemical Sciences organized by Veer Bahadur Singh Purvanchal University Jaunpur, Uttar Pradesh during 25-29 June 2021.

### **Courses**

1. NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by UGC-Malaviya Mission Teacher Training Centre (MMTTC), (Formerly UGC-HRDC) Maulana Azad National Urdu University, Hyderabad, from 1<sup>st</sup> - 11<sup>th</sup> September, 2025.
2. NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC), organized by UGC-Malaviya Mission Teacher Training Centre (MMTTC), (Formerly UGC-HRDC) Maulana Azad National Urdu University, Hyderabad, from 2<sup>nd</sup> to 11<sup>th</sup> June, 2025
3. Online Faculty Induction Programme (Orientation Programme) organized by UGC- Malaviya Mission Teacher Training Centre (MMTTC), (Formerly UGC-HRDC) Maulana Azad National Urdu University, Hyderabad, from 18<sup>th</sup> November to 14<sup>th</sup> December, 2024 and obtained Grade “A+”
4. 15 Days Online Faculty Development Programme on “Fundamentals of Research” by Dr. D.N. Sansanwal from 29 April to 13 May 2023, organized by the Indian Teacher Education Community, Indore (M.P.).