

Dr. Pooja Jain



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Assistant Professor

Department of Chemistry

Govt Kamla Nehru Mahila

Mahavidyalaya, Damoh, India-470661

PhD- IIT Bombay

Email id: poojajainchem02@gmail.com

Contact No.: +919769383877

CURRENT POSITION

Assistant Professor: Department of Chemistry, Govt Kamla Nehru Mahila Mahavidyalaya, Damoh, India-470661 since Dec-2019

Academic Achievements:

- ❖ Qualified **SET (Chemistry)** in June 2017.
- ❖ Qualified **GATE (Chemistry)** in 2015.
- ❖ **PGDCA** from MCNUJC in 2013.

Educational Qualifications:

- ❖ Ph.D in chemistry (16 July 2015 to 19 October 2020) from Indian Institute of Technology Bombay, IIT Area, Powai Mumbai, Maharashtra 400076.
- ❖ M.Sc. in chemistry (2012-2014) from Dr. Hari Singh Gour Central University, Sagar.
- ❖ B.Sc. in Chemistry, industrial chemistry and mathematics (2009-2012) from Dr. Hari Singh Gour Central University, Sagar.
- ❖ Higher education M.P. board 2009 (86%)
- ❖ High School M.P board 2007 (90%)

Experiences:

- ❖ Since 18 December 2019, working as an Assistant Professor (Chemistry) at Govt. Kamla Nehru Girls College, Damoh (Dept. of Higher Education, Govt. of Madhya Pradesh) selected through MPPSC.
- ❖ Worked as a Teaching Assistant in the IIT Bombay Chemistry department.
- ❖ Chemistry teacher and Lab instructor (Undergraduate course-Computational Chemistry) under teaching assistance fellowship during Ph.D. at Department of Chemistry IIT Bombay.

RESEARCH PROFILE

- ❖ Google Scholar citation: 27, H-index: 2 i10index -1)
- ❖ Research Area- Mechanistic Investigation of Metal Catalysed C-X (X=H, C, O) Bond Activation reactions using Density Functional Theory
- ❖ Research Supervisor
 - Prof. Sourav Pal
 - He Received *Shanti Swarup Bhatnagar* from CSIR (2000)
 - Director and Professor, IISER Kolkata
 - Director, CSIR - NCL Pune (2010 - 2015)

Publications:

- **Jain, P.;** Pal, S.; Avasare, V. Ni(COD)₂-Catalyzed *ipso*-Silylation of 2-Methoxynaphthalene: A Density Functional Theory Study. *Organometallics*. **2018**, 37, 1141-1149.
- Das, D.; **Jain, P.;** Pal, S.; Avasare, V. Mechanistic Investigations of Aluminum Nitrite Assisted Aryl Nitrile Synthesis through C(sp³)-C(sp²) Bond Cleavage of Aryl Ketones. *J. Phys. Chem. C*. **2019**, 123, 23439-23445.
- **Jain, P.;** Shukla, R. K.; Pal, S.; Avasare, V. Hydrogen Bonding and Non-Covalent Interactions Assisted Nickel (0) Catalysed Reversible Alkenyl Functional Group Swapping: A Computational Study. *Catal. Sci. Technol.*, **2020**, 10, 1747-1760.
- **Jain, P.;** Kumar, N.; Avasare, V. A Shuttle Catalysis: Elucidating a True Reaction Mechanism Involved in the Palladium Xantphos-Assisted Transposition of Aryl Chloride and Aryl Iodide Functional Groups. *J. Org. Chem.* **2022**, 87, 19, 12547-12557.
- **Jain, P.;** Sunoj, R. B. Mechanistic Investigation on Enantioselective Formation of CF₃-Bearing All-Carbon Quaternary Stereocenters via C-H Functionalization of Methanol: Iridium Catalyzed Allene Hydrohydroxymethylation. *Manuscript under preparation*.
- **Book Review-** BSc. I yr Chemistry, Navbodh Prakashan.

Awards:

“Late Shri Gyan Chandra Shrivastav Memory Award Nyas” for Phd Completed From IIT Bombay on 2 October 2023.

Faculty Developments Programs, Workshops & Conferences

- IGNOU Professional development programme on ‘Implementation of NEP-2020 for University and College Teachers’. From **23 February - 03 March, 2023**.
- One week FDP on NAAC Accreditation Framework on Documentation organized by faculty of science Govt. college Banda, under the Aegis of IQAC and MPHEQIP Bhopal. Held on 1st march to 7th march 2023.
- FDP on E-content development organized by higher education from 19th Dec. to 24th Dec. 2022.
- Has successfully completed two week interdisciplinary Refresher course on “Advanced Research Methodology”. From 22 Jan. -05 feb.
- Has organised and attended online five-day Faculty Development Program from 02nd – 06th February 2021 conducted by Govt. Kamla Nehru Girls College, Damoh, Madhya Pradesh.
- Has successfully completed one month “**Orientation Program**” on 26th June-24st July 2020 organized by Teaching Learning Centre, Ramanujan College, University of Delhi, sponsored by Ministry of Human Resource Development, Govt. of India under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.
- Has attended online “SPARC-INDO-US Immunology workshop” on 12th – 13th June 2020 jointly organized by IIT Ropar, India and The George Washington University, USA.

- Has attended “International Asia-Pacific Conference of Theoretical and Computational Chemistry” (APCTCC 8) IIT Bombay, December, 2017. (of line)
- Has Present Poster “Recent Advance in many-electron Theory Conference” 9th - 12th February 2017 Organized by Indian Association for the Cultivation of science Kolkata and IIT Bombay. (of line)
- Has Present Poster “19th CRSI National Symposium in Chemistry” 14th -16th July 2016, organized by Department of Chemistry University of North Bengal. (of line)
- Has Present Poster “In-House Symposium”, IIT Bombay, 2nd April, 2016. (of line)
- Has participated “The Indian Science Congress Association” 14, Biresh Guha Street, Kolkata, Organized by university Of Jammu from February 3 to 7, 2014. ((of line)
- Has Participated “One day workshop on NMR spectroscopy and its application” held on 19th February 2014, organised by department of Physics and Chemistry Dr. Hari Singh Gour Central University, Sagar. (of line)

International Webinar

- One Day International Webinar On "Role of Psychology to Fight Against Covid-19 Pandemic" jointly organized by Department of Psychology & Internal Quality Assurance Cell, Mahatma Phule Arts, Science & Commerce College, Panvel, Dist-Raigad held on Friday, June 12, 2020.
- Has Participated In International webinar On material Science (IWMS-20202) on 9th June 2020 organised by Association of Chemistry Teachers (ACT).
- *Has attended the FDP Webinar on “Moodle: AQuick Tour” Organised by PG & Research Department of Computer Science on 12/06/2020. CHIKKANNA GOVERNMENT ARTS*
 - COLLEGE, TIRUPUR-02
- Has actively participated in International webinar on “Challenges in Science and Technology for tackling COVID-19” organized by Department of Biochemistry, Govt. Holkar Science College, Indore (M.P.) from 11th -14th June 2020.

National Webinar

- Has Participated “Nanotechnology For Clean Energy Storage and Environmentally Sustainable E-Mobility” Webinar Organised by Barkatullah University, Department of Chemistry On June 06, 2020.
- Has Participated One Day National Webinar on “New API format of UGC 2019 for Professor, Associate Professor and Assistant Professor” held on 29th May 2020, Organised by **Dr. M. K. Umathe College, Nagpur.**
- Has actively participated in *ONE DAY NATIONAL WEBINAR ON POST COVID TEACHING SCENARIO WITH GOOGLE CLASSROOM* on June 7, 2020. Organised by Smt. Narmadabai Nago Chaudhari Arts, Commerce & Science College, Kusumba, Tal. & Dist. Dhule (Maharashtra).
- One Day National Level Webinar on “Documentation for Data Verification & Validation (DVV) and Peer Team Visit (PTV) NAAC Organized by Internal Quality Assurance Cell (IQAC) Mahatma Phule Mahavidyalaya, Kingaon, On 15th june 2020.
- Has participated in the National Webinar on 'Spectroscopy and Solid State Chemistry' held on 17th and 18th July 2020, Organised by School of Studies in Chemistry & Biochemistry, Vikram University, Ujjain, M. P., India.

- Has actively participated in one day National Webinar on “Teacher ,Teaching and Education Under COVID-19: An Action Research” organized by Dewan Institute of Management Studies (College of Education), Meerut, Uttar Pradesh on May, 2020.
- Has participated in National Webinar on “**Impact of COVID-19 Virus on Human Resource Management & Economic Problems**” organized by GNMM Jabalpur, Department of Commerce on 14th June 2020.
- Attended the National Conference (Webinar) on **Impact of Globalization on Technology & Market of India**. One Day National Conference (Webinar) jointly organized by Radiant Group of Institute, Jabalpur (M.P.) India, Social Science & Management Welfare Association & Youth Economics Association.
- Attended successfully two days webinar on *Nanomaterial: Synthesis, Characterisation and Applications* organised by Department of Physics, Govt SGS PG College, Ganj Basoda during 15-16 June 2020.
- Attended the National Webinar On Organic Chemist and Spectroscopy Introduction Of NMR and its application structure Determination” On may 2020, Organised by Prof. Diwan S rawat, FRSC, Chem (London), department of chemistry Dehli University as resource person.

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DECLARATION

I hereby declare that the information given above is true to the best of my knowledge.

Place: Damoh (Madhya Pradesh)

Dr. Pooja Jain