

### Areas of Interest/Specialisation

1. Organic Synthesis
2. Porphyrinoid Chemistry
3. Nano architectures
4. Catalysis
5. Spectroscopic techniques for compound analysis\_

### Research Publications:-

1. Ahmad, S.; Yadav, K.K.; Narang, U.; Chauhan, S.M.S, **Synthesis, properties and singlet oxygen generation of thiazolidinone double bond linked porphyrin at meso and  $\beta$ - position**, *RSC Advances*, **2016**, 6, 36090-36095.
2. Ahmad, S.; Yadav, K.K.; Narang, U.; Chauhan, S.M.S, **Xanthenedione Substituted Metallophthalocyanines as an Efficient and Recyclable Catalyst for One-pot Three Component Synthesis of 3-Substituted Indoles**, *ChemistrySelect*, **2016**, 1, 3635-3639.
3. Narang, U.;Yadav, K.K.; Bhattacharya, S.; Chauhan, S.M.S. **Synthesis of conformationally flexible porphyrin tweezers and their application in generation of singlet oxygen**, *Advanced Materials Proceedings*, **2017**,2(9), 602-607.
4. Yadav, K.K.; Narang, U.; Bhattacharya, S.; Chauhan, S.M.S. **Copper II phthalocyanine as an efficient and reusable catalyst for the N-arylation of nitrogen containing heterocycles**, *Tetrahedron Letters*, **2017**, 58, 3044-3048.
5. Narang, U.; Yadav, K.K.; Bhattacharya, S.; Chauhan, S.M.S, **Cobalt(II) Phthalocyanine Catalyzed One-Pot Synthesis of 2-Substituted Benzimidazoles, Benzothiazoles andBenzoxazoles from Substituted Benzyl Alcohols**, *ChemistrySelect*,**2017**, 2,7135-7140.
6. Kumar, S.; Singhal, A.; Narang, U.; Mishra, S.; Kumari, P, **Recent progresses in organic- inorganic technological platforms for cancer therapeutics**, *Current Medicinal Chemistry*,DOI : [10.2174/0929867326666181224143734](https://doi.org/10.2174/0929867326666181224143734), **2018**.
7. Bhattacharya, S.; Narang, U.; Yadav, K. K.; Dandia, A.; Chauhan, S.M.S. **Synthesis of Newer Mercury(II) Complexes of Meso-Tetraaryl-21,23-Dithiaporphyrins**, *Advanced Science, Engineering and Medicine*, **2020**, 12, 416-421.

### Book authored:

1. Yadav, K.K.; Narang, U. (2019). *Organic Chemistry*. New Delhi: Delhi, Viva Books (ISBN:978-93-89401-53-0).

### **Conferences / Seminars and workshops:**

1. Participated in Indo-German Workshop on New Perspectives for Nano- Carriers in Biomedical Applications in 2013.
2. Presented poster in National Fluorescence Workshop meeting (FCS), organized by TIFR and JNC SR, in 2013.
3. Participated in Author Workshop Conducted By Elsevier conducted by Elsevier in association with University of Delhi in 2014.
4. Presented poster in National Symposium on Transcending Frontiers in Organic Chemistry held at CSIR-National Institute Science and Technology, Trivandrum in 2014.
5. Participated in Two Days CME on Radiation Safety in Practice of Nuclear Medicine, Radiopharmacy and Radionuclide Therapy and Disaster Management organized by The Institute of Nuclear Medicine and Allied Sciences (INMAS), DRDO, Delhi in 2014.
6. Participated in Workshop on IPR, Patenting and Patentability Assessment organized by University of Delhi in 2014.
7. Presented poster in international conference ISCBC on Chemistry and Medicinal Plants in Translational Medicine for Healthcare organized by Department of Chemistry, University of Delhi in 2014.
8. Presented poster in National Conference on Recent Advancements in Chemical Sciences- RAICS Organized by Malviya Institute of Technology Jaipur in 2015.
9. Presented poster in international conference, ICM Tech organized by University of Delhi in 2016.
10. Presented Poster in International conference ISCBC on Recent Trends in Affordable and Sustainable Drug Discovery and Developments organized by Uka Tarsadia University, Gujarat in 2016.
11. Participated in National Seminar on Sustainability in The Third World organized by Hans Raj College, University of Delhi, on 28<sup>th</sup> February, 2020.

### **FDP:**

1. Two week long Induction Programme organized by Netaji Subhas University of Technology for newly recruited faculty in July 2021.
2. Online AICTE Recognized Faculty Development Programme on Induction Training Programme for Newly Recruited Teachers from 19/07/2021 to 30/07/2021 (One week (+7 days)) organized by NITTTR, Chandigarh, MHRD, Govt. of India.

### **Webinars:**

1. Participated in the webinar on "DNA Repair" Organized by the Department of Biochemistry, Shivaji College, University of Delhi on April 30, 2020.
2. Participated the WEBINAR on topic "Covid-19 Pandemic and Immunity & Socio Psychological Issues and Covid-19" organized by Department of Zoology, Deshbandhu College, University of Delhi & Delhi Pharmaceutical Sciences and Research University on 6<sup>th</sup> May 2020.
3. Participated in the webinar on "Zebrafish Model System" organized by the Department of Biochemistry, Shivaji College, University of Delhi under the aegis of DBT sponsored Star College Scheme held on May 8, 2020.
4. Participated in Webinar on Development of microsensors and their applications using Artificial

Intelligence organized by Amity School of Engineering and Technology, Amity University Madhya Pradesh, Gwalior on 8<sup>th</sup> May, 2020.

5. Participated in Webinar (Under the Aegis of IQAC) on Mind Matters: Coping with Stress, organized by Women Development Cell, Shivaji College, University of Delhi on May 11, 2020.
6. Participated and Qualified Quiz on Research Methodology organized by Department of Mathematics, Keral Subartha College, of Science, Swami Vivekanand Subharti College, Meerut on 16<sup>th</sup> May, 2020 with 83% score.
7. Participated in Webinar on '*Building Self Reliant India in Post Covid Regime*' organized by Department of Commerce, Shivaji College, University of Delhi held on May 19, 2020.
8. International Webinar on Biodiversity and Environmental Health organised by the Department of Environmental Studies, Shivaji College, University of Delhi held on 20<sup>th</sup> May, 2020.
9. Participated in the National webinar on "Ecological Revival During Pandemic" organized by Department of Chemistry of BCAS on 21<sup>st</sup> May 2020.
10. Participated in National Chem Webinar Series organized by Shyam Lal College, University of Delhi, Delhi from 26<sup>th</sup> May 2020 to 28<sup>th</sup> May 2020.
11. Participated in the National Webinar on "Preventative healthcare diagnostic platforms based on Micro-Nanotechnologies" Organised by Department of Science, Lady Irwin College on 30<sup>th</sup> May, 2020.
12. Participated in National Webinar on Role of Media and Technology during COVID 19: Issues, Prospects and Challenges organized by Alumni Relations Cell, Shivaji College on 9<sup>th</sup> June, 2020.
13. Participated in Webinar on Environmental issues and opportunities after COVID 19 organized by Department of Chemistry and Geography, Govt. College Rajgarh (Alwar) on June 14, 2020.
14. Participated in the National webinar on "Cyber Security Awareness" organized by Department of Chemistry of BCAS on 23<sup>rd</sup> June, 2020.
15. Participated in Online International Seminar on Organic Optoelectronic Sensors for Biomedical Applications organized by Mangalam university Itanagar on 24<sup>th</sup> June, 2020.

#### **Awards and Distinctions**

1. CSIR-JRF (AIR 63)
2. CSIR-SRF 3. GATE-2012
3. Science Meritorious (M.Sc. Chemistry, 2011)
4. Young Scientist Award (12<sup>th</sup> Standard, 2007)

**Other Academic Activities****Served as:**

1. Resource person in Intra-College Laboratory Skill Training Programme for Assistants/Attendants in the Chemical and Life Science Laboratories on 20th-24th May, 2019, Shivaji College, University of Delhi.
2. Resource person in Summer Training Project on the topic “Solvent Free synthesis of Azomethines and their characterization” in June 2019, Shivaji College, University of Delhi.
3. Resource Person in Summer Training on the topic “Distillation, Solvent Extraction and Columns Chromatography from 17th June to 17th July, 2019, Shivaji College, University of Delhi.
4. Resource person in Inter College Laboratory Skill Training Programme for Assistants/Attendants in the Chemical and Life Science Laboratories on 29th November, 2019, Shivaji College, University of Delhi.
5. Resource person in National Conference on “Relationship between chemical Science and Society”- RCSS 2020 on 16th- 17th January, 2020, Shivaji College, University of Delhi.
6. An admission coordinator for M.Sc. Chemistry admissions in NSUT for academic session 2021-2022.

**Cultural/Extracurricular Activities**

1. Secured second Position in “On the spot drawing and painting competition” held on 22nd April, 2006
2. Secured second Position in Poster Making Competition in Chemistry Symposium organized by Hindu College, 2008.
3. Secured First Position in Inter college Poster Making Competition organized by St. Stephens College, 2009.
4. Participated in Antardhvani (Academic and Cultural Festival) organized by University of Delhi, Delhi in 2015.
5. Served as organizer of in Annual Fest “KHROUSOS-2018” held in Department of Chemistry, Kirori Mal College, University of Delhi, Delhi in 2018.
6. Served as organizer in Annual Fest “RASTANTRUM 2020” on the theme “Climate Change 2.0: It’s impact on Earth and Society” on 21st October, 2019, Shivaji College, University of Delhi.