

Conferences / Symposiums / Quiz / Seminars / Training / Poster / Oral Presentations

1. Poster presented entitled “**Synthesis and study of Benzalazine Derivatives containing Ester Linkages**” in International Seminar on Advanced Materials and Applications organized by Applied Physics and Applied Chemistry Department, Faculty of Technology and Engineering, M. S. University of Baroda, Vadodara – 390001, India and Luminescence Society of India (Regd. No: GUJ/1156)
2. Poster presented entitled “**Synthesis and study of New Schiff-Base Derivatives containing Carbazole moiety**” in National Conference on Current Trends and Advances in Chemical Science Organized by Department of Chemistry, B.K.M. Science College Valsad, Gujarat – 396001
3. Oral Presentation entitled “**Synthesis and study of novel heterocyclic compounds containing oxazolone moiety**” in Virtual International Conference on Chemical Sciences in Sustainable Technology and Development (IC²S²TD-2020) organized by Applied Chemistry Department, S. V. National Institute of Technology, Surat 395007, Gujarat, India in Association with Department of Chemistry, Chung-Ang University, Seoul, South Korea.
4. Attended One Day Seminar on “**Recent Advances in Chemical Science-2023**” organized by the Department of Chemistry, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, Vadodara-390001, India.
5. Attended an Online workshop on “**Challenges and Opportunities in Designing Nanoarchitectonics of Nanoporous Carbon for Industrial Applications**” organized by the Materials and Metallurgical Department of MANIT Bhopal from 16-20th September 2020.
6. Attended Five Day Faculty Development Programme on “**Accelerating Innovations in Material Science – Surface Characterization**” organized by the Department of Chemistry, BMS Institute of Technology and Management, Bengaluru, India from 18-22nd May 2021.
7. Registered Participant in the webinar on “**IPR issues and Patenting**” by Dr. Sunil Kumar Assistant Controller of Patents and Designs, Patent Office, Kolkata, West Bengal, India organized by the Department of Chemical Sciences, Maharaja Ranjit Singh College of Professional Sciences, Indore, MP, India on 24th June 2020.

8. Online Certification Course in “**Patent Searching for Beginners**” jointly organized by IP Moment and Department of Environmental Science and Department of Biotechnology of SRKI College, Surat – 395001.
9. Participation in International E-Quiz titled “**Chemistry Matters: A Novel Fight Against COVID-19**” organized from 13-23rd June 2020 under the aegis of the Department of Chemistry, Bherulal Patidar Govt. P.G. College, MHOW (M.P.), INDIA. CERTIFICATE ID: E0DXP0-CE000886.
10. **State Level Online Chemistry Quiz** organized by Govt. Science College, Gariyadhar, Department of Chemistry. (Passing Score – 56%)
11. **Online Interdisciplinary Quiz (Chemistry)** on 6th October 2020 organized by B N Patel Institute of Paramedical and Science. (Passing Score – 71%)
12. Participation in a One-week Training Program on R&D Equipment on the theme **CHARACTERIZATION OF MATERIALS/COMPOUNDS USING ADVANCED INSTRUMENTS** from 11th-17th April 2023 at IIT Delhi Sonipat Campus jointly organized by CRF IIT Delhi & NIT Warangal.

List of Publications related to the Thesis

1. **Srujal Sonera**, Sagar Bairwa, R. C. Tandel An efficient synthesis of some novel oxazolone derivatives showing cytotoxic activity Journal of the Iranian Chemical Society 2024; **21**(1):201-210
2. **Srujal A. Sonera**, Sagar K. Bairwa & R. C. Tandel Nematogenic Homologous Series of Coumarin Derivatives Containing Azomethine-Ester Linkages: Synthesis, Characterization, Photophysical and Mesomorphic Properties Liquid Crystals <https://doi.org/10.1080/02678292.2024.2324462>
3. **Srujal A. Sonera**, Sagar K. Bairwa & R. C. Tandel Symmetrical homologous series of thiadiazole derivatives containing azomethine linkages: Synthesis, characterization and mesomorphic properties Molecular Crystals and Liquid Crystals (under review). [Submission ID: 238700911]
4. **Srujal A. Sonera**, Sagar K. Bairwa & R. C. Tandel Synthesis, characterization, and study of unsymmetrical homologous series of nematogenic liquid crystal compounds possessing imine linkage (under preparation).

Additional Publications non-related to the Thesis

1. Sagar K. Bairwa, **Srujal A. Sonera** & R. C. Tandel Cholesterol based mesogenic Schiff's base derivatives with carbonate linkage: Synthesis, characterization and photoluminescence study Liquid Crystals 2023; **50**(15):2495-2509
2. Sagar K. Bairwa, **Srujal A. Sonera** & R. C. Tandel Mesomorphic behaviour and photoluminescence study of homologous series of Schiff's based derived from cholesteryl carbonate and thiadiazole moiety Liquid Crystals <https://doi.org/10.1080/02678292.2024.2319631>
3. Manoj J. Patel, **Srujal A Sonera**, Sagar K. Bairwa & R. C. Tandel Monoazo Reactive Dyes: Synthesis and Application on cotton, silk and wool fibers Brazilian Journal of Science 2024; **3**(1):175-182, ISSN: 2764-3417
4. Manoj J. Patel, R. C. Tandel, **Srujal A Sonera** & Sagar K Bairwa Trends in the synthesis and application of some reactive dyes: A review Brazilian Journal of Science 2023; **2**(7):14-29, ISSN: 2764-3417

5. Manoj J. Patel, R. C. Tandel, **Srujal A. Sonera**, Sagar K. Bairwa Bi-functional reactive dyes: A study of their dyeing properties on cotton fabric Eur. Chem. Bull. 2023; **12**(4): 1540-1553 ISSN: 2063-5346
6. Sagar K. Bairwa, **Srujal A. Sonera**, N.D. Chavda & R. C. Tandel Synthesis and characterization of cholesterol-based Schiff's base derivatives containing thiazole moiety: Mesomorphic behaviour, biological evaluation, photoluminescence and DFT studies Journal of Molecular Liquids (Under review). [Submission ID: MOLLIQ-D-24-03746]