

Conferences and Paper Presentations

1. 27th National Conference on Liquid Crystals-2020, **NCLC-2020**, 21st-23rd December 2020, organized by Amity Institute of Applied Sciences, Amity University, Noida (**Poster presentation**)
2. 28th National Conference on Liquid Crystals-2021, **NCLC-2021**, 21st-23rd December 2021, organized by Department of Chemistry, Assam University, Silchar, Assam (**Poster presentation**)
3. 29th National Conference on Liquid Crystals-2022, **NCLC-2022**, 8th-10th December 2022, organized by Christ University, Bengaluru, Karnataka (**Oral presentation**)
4. International Conference on Smart Nanotechnologies, **ICONST-2023**, 6th-8th July 2023, organized by Department of Chemistry, GITAM University, Visakhapatnam (**Oral presentation**)
5. 30th National Conference on Liquid Crystals-2023, **NCLC-2023**, 2nd-4th November 2023, organized by Andhra University, Visakhapatnam (**Oral presentation**)
6. 31st National Conference on Liquid Crystals-2024, **NCLC-2024**, 20th-22nd December 2024, organized by Navyug Science College, Surat (**Oral presentation**)
7. National Conference on Scientific Innovation towards Developed India, 28th February 2024, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat (**Oral presentation**)
8. 8th All Gujarat Research Scholar's Meet, **AGRSM-VIII**, 26th February 2023, organized by Indian Chemical Society, Vadodara Chapter; In association with Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat (**Oral presentation**)
9. Gujarat Research Scholar's Connect, **GRSC-2023**, 7th-8th December 2023, organized by CSIR-Central Salt & Marine Chemicals Research Institute (CSMCRI), Bhavnagar, Gujarat (**Poster presentation**)
10. National Symposium on Recent Trends in Inorganic Chemistry, **RTIC-2023**, Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat (**Poster presentation**)

1. **M. Rabari**, R.S. Kumar CH, A.K. Prajapati, Liquid crystalline naphthyl derivatives with bromoalkoxy tail: Photophysical behavior and DFT studies, *J. Mol. Struct.*, 1293 (2023) 136252. <https://doi.org/https://doi.org/10.1016/j.molstruc.2023.136252>.
2. **M. Rabari**, A.K. Prajapati, Unsymmetrical mesogenic dimers containing azo and azomethine naphthalenes: Synthesis, characterization, mesomorphic properties and DFT studies, *J. Mol. Struct.*, 1308 (2024) 138101. <https://doi.org/10.1016/j.molstruc.2024.138101>.
3. **M. Rabari**, A.K. Prajapati, Naphthalene-based symmetrical liquid crystalline dimers: Synthesis, characterization, mesomorphic behaviour and DFT studies, *J. Mol. Struct.*, 1307 (2024) 137971. <https://doi.org/10.1016/j.molstruc.2024.137971>.
4. **Mahima Rabari**, A. K. Prajapati, Mesogenic cholesterol-naphthalene dimers: Synthesis, characterization, mesogenic properties, photochromic behaviour and theoretical insights, *J. Mol. Liq.*, (2024) 126296. <https://doi.org/https://doi.org/10.1016/j.molliq.2024.126296>.
5. **Mahima Rabari**, A. K. Prajapati, Mahesha S., Akshaya M. K. and Bharat Kumar, A study on the Thermo-photoisomerization of a novel dimer of cyanoazobenzene and naphthalene, *Soft Matter*, 21 (2025) 1395. *J. Mol. Liq.* (2024) 126296. <https://doi.org/https://doi.org/10.1016/j.molliq.2024.126296>.

Other Publications

6. **M. Rabari**, S. Solanki, A.K. Prajapati, “Novel Magneson-I derived λ -shaped tris azo liquid crystalline trimers,” *Dye. Pigment.*, 220 (2023) 111757. <https://doi.org/10.1016/j.dyepig.2023.111757>.
7. **M. Rabari**, Y. Parmar, A.K. Prajapati, Unsymmetrical liquid crystalline dimers containing biphenyl moiety: synthesis, characterisation, mesomorphic study and DFT studies, *Liq. Cryst.*, 50 (2023) 2552–2570. <https://doi.org/10.1080/02678292.2023.2264793>.
8. **M. Rabari**, C. Koli, A.K. Prajapati, Synthesis, characterization, mesogenic properties, and DFT studies of unsymmetrical liquid crystalline dimers of biphenyl, *Soft Materials*, 22 (2023), 1–12. <https://doi.org/10.1080/1539445X.2023.2282495>.
9. **M. Rabari**, M. Bhatt, A.K. Prajapati, Symmetrical liquid crystalline dimers containing azo and azomethine linkages: synthesis, characterisation, mesomorphic study and DFT

studies, *Liq. Cryst.*, 51(7) (2024) 1230–1246. <https://doi.org/10.1080/02678292.2024.2351105>.

- 10. M. Rabari**, V. Patel, A.K. Prajapati, “Liquid crystalline compounds containing lateral thiol group: synthesis, characterisation, its mesomorphic properties and DFT studies,” *Liq. Cryst.*, 12 (2023) 1–15. <https://doi.org/10.1080/02678292.2023.2229784>.
- 11. Mahima Rabari**, Asmita Shah, A.K. Prajapati, Vanishree Bhat S., Sandeep Kumar, François Delattre, Benoit Duponchel, Michael Depriester, Frederic Dubois, and Dharmendra Pratap Singh, Synthesis, characterisation and charge transport properties of λ -shaped trimer nematogen, *New Journal of Chemistry* (RSC). **(Communicated)**

