
Research publications

1. S. Barad, K. Chaudhari, R.N. Jadeja, H. Roy, D. Choquesillo-Lazarte, Square pyramidal Cu(II) acylpyrazolone complex: Synthesis, characterization, crystal structure, DFT and Hirshfeld analysis, in-vitro anti-cancer evaluation, J. Mol. Struct. 1294 (2023) 136345. <https://doi.org/10.1016/j.molstruc.2023.136345>.
2. S. Barad, K. Chaudhari, R.N. Jadeja, H. Roy, R.J. Butcher, Cytotoxicity assay and gene expression studies of acylpyrazolone-based square planar Cu(II) complexes: synthesis, characterization and computations, J. Coord. Chem. 76 (2023) 1955–1983. <https://doi.org/10.1080/00958972.2023.2289004>.
3. S. Barad, K. Chaudhari, H. Roy, R.J. Butcher, R.N. Jadeja, Acylpyrazolone based square pyramidal Cu(II) complexes: Synthesis, structural characterization, DFT and antiproliferative properties, Inorganica Chim. Acta. 559 (2024) 121794. <https://doi.org/10.1016/j.ica.2023.121794>.
4. S. Barad, K. Chaudhari, H. Roy, R.J. Butcher, R.N. Jadeja, Crystal structure, DFT and Hirshfeld surface analysis of acylpyrazolone based square pyramidal Cu(II) complex: *In-vitro* anticancer activity, Inorganica Chim. Acta. 576 (2024) 122467. <https://doi.org/10.1016/j.ica.2024.122467>.
5. S. V. Barad, S. Saurabh, D. Choquesillo-Lazarte, R.N. Jadeja, Chemical assessment of three octahedral Ni(II) complexes with heterocyclic acylpyrazolone ligand: Crystal structure, DFT-NBO analysis, Hirshfeld and Magnetic study J. Mol. Struct. 1321 (2025) 140213. <https://doi.org/10.1016/j.molstruc.2024.140213>.
6. S.V. Barad, R.N. Jadeja, R.J. Butcher, Two New Square Planar Cu(II) complexes derived from a heterocyclic Pyrazolone ligand: Synthesis, *in vitro* anticancer activity, DFT and Hirshfeld analysis (Under review=MS: 9c55940f-7e33-45b3-bc2d-ab20b539b8ed v1.0).

Details of seminars/conferences participated/presented

- 1. Awarded** the ‘**Chittaranjan Roy & Manju Roy Chowdhury award**’ for **Best Poster Presentation** at 59th Annual Convention of Chemists 2022 (ACC-2022) & International Conference on Recent Trends in Chemical Science 2022 (RTCS-2022) organized by Indian Chemical Society, Kolkata and hosted by Indian Institute of Technology (ISM) Dhanbad, Jharkhand, India on December 16-18, 2022.
- 2. Participated** in “National Conference on Futuristic Exploration in Chemical Science (NCFECS-2023)” organized by the Department of Chemistry, Veer Narmad South Gujarat University, Surat, India held on 9th December 2023.
- 3. Awarded** a ‘**Best Poster Award**’ for poster presentation at the 35th Gujarat Science Congress held in Shri Govind Guru University, sponsored by GUJCOST, DST, Govt. of Gujarat Gandhinagar at Vinzol Godhra, Gujarat on February 3-4, 2024.