
Research publications (From this work)

1. M. Travadi, R.N. Jadeja, R.J. Butcher, Fluorescent and electronic properties of Dysprosium acylpyrazolone complexes along with their synthesis and structural features, *Polyhedron*. 247 (2024) 116701. <https://doi.org/10.1016/j.poly.2023.116701>.
2. M. Travadi, R.N. Jadeja, R.J. Butcher, M.S. Shekhawat, Neodymium based acylpyrazolone complexes: Synthesis and physicochemical characterizations, *Inorganica Chim Acta*. 559 (2024) 121766. <https://doi.org/10.1016/j.ica.2023.121766>.
3. M. Travadi, R.N. Jadeja, R.J. Butcher, Structural Features, Emission Analysis, and Covalency Comparison of Neodymium Acylpyrazolone Complexes using Oscillator Strengths, Covalency and Judd-Ofelt Parameters**, *ChemistrySelect*. 8 (2023) e202302438. <https://doi.org/10.2139/ssrn.4425346>.
4. M. Travadi, R.N. Jadeja, R.J. Butcher, Uranyl(VI) Mixed-ligand complex synthesis and characterization using 4-acylhydrazone-5-pyrazolone and 4-acylpyrazolone: Covalency, crystal assay, DFT study and Hirshfeld analysis, *J Mol Struct*. 1281 (2023) 135137. <https://doi.org/10.1016/j.molstruc.2023.135137>.
5. M. Travadi, R.N. Jadeja, R.J. Butcher, Synthesis, Covalency Sequence, and Crystal Features of Pentagonal Uranyl Acylpyrazolone Complexes along with DFT Calculation and Hirshfeld Analysis, *ACS Omega*. 7 (2022) 34359–34369. <https://doi.org/10.1021/acsomega.2c03923>.
6. M. Travadi, R.N. Jadeja, R.J. Butcher, Synthesis, covalency parameters, energy calculations and crystal features of acylpyrazolone derived pentavalent Uranyl complex along with DFT and Hirshfeld analysis, *Polyhedron*. 223 (2022) 115956. <https://doi.org/10.1016/j.poly.2022.115956>.
7. M. Travadi, R.N. Jadeja, R.J. Butcher, Covalency parameters for nine-coordinated thorium acylpyrazolone complexes along with their synthesis and crystal features, *J Mol Struct*. 1318 (2024) 139295. <https://doi.org/10.1016/j.molstruc.2024.139295>.
8. M. Travadi, R.N. Jadeja, R.J. Butcher, Synthesis, Structural Features and Fluorescent properties of Terbium Acylpyrazolone Complexes. (communicated).

Research publications (From other work)

1. N. Patel, A.K. Patel, M. Travadi, R.N. Jadeja, R.J. Butcher, M. Muddassir, S. Kumar, R. Kapavarapu, Metal-organic hybrids based on $[\text{VO}_2(\text{L})]^-$ tecton with cations of imidazole and its derivative: Synthesis, single-crystal structures and molecular docking studies, *Polyhedron*. 227 (2022) 116125. <https://doi.org/10.1016/j.poly.2022.116125>.
2. I. Shaikh, M. Travadi, R.N. Jadeja, R.J. Butcher, J.H. Pandya, Crystal feature and spectral characterization of Zn(II) complexes containing Schiff base of Acylpyrazolone ligand with antimalarial action, *Journal of the Indian Chemical Society*. 99 (2022) 100428. <https://doi.org/10.1016/j.jics.2022.100428>.
3. J.H. Pandya, M. Travadi, R.N. Jadeja, R.N. Patel, V.K. Gupta, Synthesis, crystal feature and spectral characterization of paeonol derived Schiff base ligands and their Cu(II) complexes with antimicrobial activity, *Journal of the Indian Chemical Society*. 99 (2022) 100403. <https://doi.org/10.1016/j.jics.2022.100403>.
4. M. Patel, M. Travadi, R.N. Jadeja, Synthesis, crystal structure and spectral characterization of Co(II) complexes with acylpyrazolone ligands, *Journal of the Indian Chemical Society*. 98 (2021) 100168. <https://doi.org/10.1016/j.jics.2021.100168>.

Details of seminars/conferences participated/presented.

1. **Awarded** for best **Oral presentation** in National Conference on Scientific Innovation Towards Developed India held on 28th February 2024 in the Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara.
2. **Participated** in the “Recent Trends In Inorganic Chemistry (RTIC-2023)” held on October 28th, 2023 in the Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara.
3. **Awarded** for “**Best Poster Award**” for poster presentation at the 4th International Conference on Condensed Matter & Applied Physics (ICC 2023) organized by Govt. Engineering College, Bikaner, in joint auspicious of Condensed Matter Research Society (CMRS) during Oct. 09–10, 2023.
4. **Awarded 2nd** for the **presentation** of the research paper in **Oral session** at the eighth All Gujarat Research Scholars’ Meet (AGRSM-VIII) organized by Indian Chemical Society, Vadodara Chapter & Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara - 390002 on 26th February 2023.
5. **Participated** in “National Symposium on Frontiers in Chemistry (NFSC-2022)” held on 25th June 2022, at the Department of Chemistry, The Maharaja Sayajirao University of Baroda, Vadodara.
6. **Awarded** Sri B.M.L. Bhasin Memorial Award for Outstanding **Oral 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, India on December 16–18, 2022.
7. **Awarded** Indian Chemical Society Research Excellence Award for the **poster presentation** at the 58th Annual Convention of Chemists, 2021 & International Conference on “Recent Trends in Chemical Sciences (ACC-RTCS-2021) organized by the Indian Chemical Society, Kolkata, during December 21–24, 2021.
8. **Participated** in a **Poster presentation** at the 39th Annual National Conference of Indian Council of Chemists held at the Department of Chemistry, Veer Narmad South Gujarat University, Udhana - Magdalla Road, Surat, Gujarat-395007 on 11th April 2021 in Virtual Mode.