
Published Papers

1. Model investigations for vanadium-protein interactions: Synthesis, characterization and antidiabetic properties

Neetu Patel, A.K. Prajapati, R.N. Jadeja, R.N. Patel, S.K. Patel, V.K. Gupta, I.P. Tripathi, N. Dwivedi, *Inorganic Chimica Acta* 493 (2019) 20-28.

2. Dioxidovanadium(V) complexes of a tridentate ONO Schiff base ligand: Structural characterization, quantum chemical calculations and in-vitro antidiabetic activity

Neetu Patel, A.K. Prajapati, R.N. Jadeja, R.N. Patel, S.K. Patel, I.P. Tripathi, N. Dwivedi, V.K. Gupta, R.J. Butcher, *Polyhedron* 180 (2020) 114434.

3. Experimental, quantum computational study and *in vitro* antidiabetic activity of oxidovanadium(IV) complexes incorporating 2,2'-bis(pyridylmethyl)amine and polypyridyl ligands

Neetu Patel, A.K. Prajapati, R.N. Jadeja, I.P. Tripathi & N. Dwivedi, *Journal of Coordination Chemistry* 73 (2020) 1131-1146.

4. Synthesis, characterization and in vitro antidiabetic activity of anionic dioxidovanadium(V) complexes

Neetu Patel, A.K. Prajapati, R.N. Jadeja, I.P. Tripathi & N. Dwivedi, *Journal of the Indian Chemical Society* 98 (2021) 100047.

Paper Presented in Conferences

- 1 38th Annual Conference of Indian Council of Chemists at Department of Chemistry, VNSG University, Surat and Dr. B.R. Ambedkar University, Agra in 11 April, 2021 (Online Mode).
- 2 International Conference on Recent Trends in Chemical Sciences organized by Indian Chemical Society, Hosted by SOS, Pt. Ravishankar Shukla University, Raipur on-14-16th November 2019. (**Note: 1st prize in Oral Presentation and won young scientist award**)
- 3 Indian Council of Chemists 37th annual national conference at National Institute of Technology Karnataka (NITK) Surathkal, Mangalore 12-14th December 2018 (Poster Presentation).
- 4 Indian Council of Chemists 6th International Conference at Penta hotel, Roissy-en-France (Paris) and Courtyard by Marriot- avenue des Olympiads (Brussels) 6-8th June 2019 (Oral Presentation).
- 5 National Symposium on advances in chemical research (ACR-2019), Department of Chemistry, The Maharaja Sayajirao University of Baroda, Vadodara on 24th February. 2019 Poster Presentation
- 6 National conferences on recent advances in material sciences, (NCRAMS-18) Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara (23-24th November 2018).

Participated in workshop and seminar

- 1 Online international seminar on current trends in chemical and pharmaceutical sciences (CTCPS-2021) department of chemistry Dr. Harisingh Gour Vishwavidyalaya, Sagar (M.P.) 20-22 January 2021. Oral Presentation.
- 2 Webinar on emerging trends in heterogenous catalysis & new challenges, organized by Catalysis Society of India, Baroda chapter, Navrachana University & MS University of Baroda, Vadodara 28th November 2020.
- 3 Workshop on Computational Chemistry Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara 3-7 March 2020.
- 4 UGC-DAE Consortium for Scientific Research annual science day celebrations CRS research scholar workshop 8-9 January 2019. Oral Presentation.
- 5 Seminar on nuclear magnetic resonance (NMR) spectroscopy: Concepts and applications, Department of chemistry Gujarat University Ahmadabad, 24-25 August 2018.

- 6 One day seminar on, “Analytical Instrumental Techniques” organized by Department of Environmental Studies, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara on 9th April 2019.
- 7 Decadal trends in chemistry research: The perspective of women scientists (W-CHEM 2020) 8th March 2020. Poster presented
- 8 One-day seminar on “Applications of X-Ray techniques- XRF, XPS, Auger” organized by Indian Society of Analytical Scientists, Baroda chapter and Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara on 9th March 2019.
- 9 Webinar on “Practical aspects of patents and IPR” Organized by Vikram Sarabhai Institute of Cell and Molecular Biology, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara on 9th September 2020.