
List of Publications

- ✚ Hirshfeld Surface Analysis of Phthalyl Sulfacetamide
Kinjal Patel, Sanjay Tailor, Urmila Patel
International Journal of Innovative Research in Science, Engineering and Technology,
5, 4, 4963-4967, 2016.

- ✚ Lattice Energy Calculation and Molecular Docking Studies of 2-([(4
([Acetylamino]sulfonyl)phenyl)amino]carbonyl)benzoic acid
Sanjay Tailor, Kinjal Patel, Urmila Patel
Journal of Chemical and Pharmaceutical Research, 8, 4, 952-957, 2016.

- ✚ Quantitative analysis of weak interactions by lattice energy calculation, Hirshfeld
surface and DFT studies of 4-amino-N-(6-methoxy- 4pyrimidinyl)benzene sulfonamide
Kinjal Patel and Urmila Patel
Journal: Journal of Molecular Structure, 1128, (2017) 127-134 Elsevier Publication

List of the attended seminars/conferences/symposium:

- ❖ One day seminar on Astronomy, Astrophysics and space science held by Department of Physics, Sardar Patel University & C. C. Patel Community Science Centre Vallabh Vidyanagar 22nd December 2008.
- ❖ Frontier of Physics- An Introductory seminar organized by Indian National Science Academy (Gujarat –Rajasthan Chapter) Physical Research Laboratory Ahmedabad and Indian Association of Physics Teacher (IAPTRC-7 Gujarat Region) and Department of Physics Sardar Patel University, Vallabh Vidyanagar.
- ❖ National seminar on “Research in chemistry At the Crossing Edges of Other Sciences” Organized On 8th & 9th November, 2009 At N.V.P.A.S. College, Vallabh Vidyanagar.
- ❖ Vth GSA–VVN CSC Annual Science Meet ‘Sci-Meet: 2010’ Jointly Organized by Gujarat Science Academy – VVNagar Chapter & C.C. Patel Community Science Centre Sardar Patel University.
- ❖ One day seminar on INNOVATIONS IN COLLEGIATE SCIENCE EDUCATION AND RESEARCH organized by Electronics Department, VP & RPTP Science college
- ❖ UGC sponsored National Conference on Recent Trends in Theoretical and Experimental Physics.NCRTTEP-2011, V.P. & R.P.T. P. Science college, Vallabh Vidyanagar, Gujarat.
- ❖ Two Days symposium on INNOVATIONS IN SCIENCE-SPU RESEARCH SCHOLAR MEET, 8th– 9th January-2012.
- ❖ Three days conference on Condensed Matter & Material Physics held by Dept. Of Physics, Sardar Patel University, on 3rd– 5th March 2012.

List of the attended Workshop/School:

- ❖ One Day Workshop on Physics of Hadrons and Nuclei February 12, 2010 held at the Department of Physics, Sardar Patel University Vallabh Vidyanagar.
- ❖ Three Days National Workshop On X- Ray Diffraction Techniques And Its Application On 17th –19th March-2010, held at Saurashtra University, Rajkot, Gujarat
- ❖ Short term Training School on X-ray Diffraction Techniques- during 3rd – 8th March 2014.

List of Research papers presented at National/International Conferences / Symposia:

- ❖ “Synthesis, characterization and biological activity of third polymorph of Sulfamerazine and its transition metal complexes” at National conference on “Recent Trends in Theoretical and Experimental Physics NCRTTEP-2011” on Feb. 18,19, 2011 at V.P. & R.P.T.P. Science college, Vallabh Vidyanagar. ----**Poster Presentation.**
- ❖ “X-Ray crystallographic investigation of sulfasomidine.”at Two Days symposium on INNOVATIONS IN SCIENCE-SPU RESEACH SCHOLAR MEET, 8th -9th January-2012. ----**Poster Presentation.**
- ❖ “Polymorphs of Sulfamonomethoxine – X-Ray Crystallographic Investigation” at National Seminar on Crystallography (NSC-42) Department of Biophysics, All India Institute of Medical Sciences, New Delhi. November 21-23, 2013. ---- **Oral Presentation.**
- ❖ “Ab initio calculations and molecular docking studies of 4 -Amino-N-(6-methoxy-4-pyrimidinyl) benzenesulfonamide (sulfamonomethoxine polymorph-I)” at UGC

sponsored One Day Seminar on Condensed Matter Physics (CMP-2014), 3rd March, 2014. ----**Poster Presentation.**

- ❖ “Silver Complex of Sulfaphenazole Dihydrate: Synthesis, X-Ray crystal Structure and Quantum Calculation using Schrodinger Software” at National Seminar on Crystallography (NSC-43b) Department of Physics, Sardar Patel University, V.V Nagar, September 1-3, 2014. ----**Oral Presentation –secured 2nd position.**
- ❖ “Molecular docking and DFT studies of 4 -Amino-N-(6-methoxy-4-pyrimidinyl) benzenesulfonamide monohydrate (Sulfamonomethoxine Monohydrate)” at National Seminar on Crystallography (NSC-43b) Department of Physics, Sardar Patel University, V.V Nagar, September 1-3, 2014. ----**Poster Presentation.**
- ❖ “Silver complex of Sulfachloropyridazine: Synthesis and X-Ray crystal Structure of $[Ag (C_{10}H_9ClN_4O_2S)(C_5H_5N)(C_4H_4O_2)H_2O]$ ” at National Seminar on Crystallography (NSC-43b) Department of Physics, Sardar Patel University, V.V Nagar, September 1-3, 2014. ----**Poster Presentation.**
- ❖ “Ab initio calculation and molecular docking studies of 1:1 Molecular Complex of Sulfamerazine Piperazine” at National Seminar on Crystallography (NSC-43b) Department of Physics, Sardar Patel University, V.V Nagar, September 1-3, 2014. -
---**Poster Presentation.**
- ❖ “Quantum Chemical Calculations (DFT) and Hirshfeld Surface Analysis of Silver Complex of Sulfachloropyridazine” at International Conference on Recent Trends in Applied Sciences: Building Institutional and Industrial Avenues” held on December 10-12, 2015 at Shri A. N. Patel Post Graduate Institute, Vallabh Vidyanagar. ----**Poster Presentation.**
- ❖ “Hirshfeld Surface Analysis of Polymorph of 4-Amino-N-(2quinoxaliny) benzenesulfonamides (Phthalyl Sulfacetamide)” at International Conference on Recent Trends in Applied Sciences Building Institutional and Industrial Avenues, V.P. & R. P. T. P. Science College. ----**Poster Presentation secured Consolation prize.**