Research Publication

1. **Irfan Shaikh,** R. N. Jadeja and Rajesh Patel "Three Mixed Ligand Mononuclear Zn(II) Complexes of 4-Acyl Pyrazolones: Synthesis, Characterization, Crystal Study and Anti-Malarial Activity" Polyhedron (2020) 183, 114528. (https://doi.org/10.1016/j.poly.2020.114528)

2. **Irfan Shaikh**, A. Vohra, R. Devkar and R. N. Jadeja "Synthesis, characterization, structural features and cytotoxicity of innovative zinc(II) complex derived from ONS-donor thio-Schiff base of acyl pyrazolone", Euro. J. Chem. (2019) *10*(2), 131-138. (https://doi.org/10.5155/eurjchem.10.2.131-138.1858)

3. **Irfan Shaikh,** Prof. Rajesh K. Patel, Dr. Vishal A. Mevada, Prof. Vivek K. Gupta and Dr. Rajendrasinh N. Jadeja "Binary and Ternary Zinc(II) Complexes of Acyl Pyrazolones: Synthesis, Spectroscopic Analysis, Crystal Structure and Antimalarial Activity" ChemistrySelect (2019) 4(28), 8286-8294. (https://doi.org/10.1002/slct.201901058)

4. M. Lawal, J.A. Obaleye, R.N. Jadeja, M.O. Bamigboye, V.K. Gupta, H. Roy, **Irfan Shaikh,** "Copper(II) mixed-ligand complexes with fluoroquinolones and an N-donor co-ligand: Structures and biological application", Polyhedron (2020) 190, 114753. (https://doi.org/10.1016/j.poly.2020.114753) (Additional paper)

5. **Irfan Shaikh**, R. N. Jadeja, Vishal Mevada, Rajesh Patel, V. K. Gupta "4-Acylhydrazone-5-pyrazolones and their zinc(II) complexes: Synthesis, Characterization, Crystal features and Antimalarial activity", J. Mol. Struct, Submitted 1st Dec 2020. (*Under Review*)

Paper Presented in Conferences

1. "Synthesis, Characterization and Crystal Study of Zinc(II) Complex of 4-Acylpyrazolone" paper presented at "7th All Gujarat Research Scholar's Meet (AGRSM-VII)" organized by Indian Chemical Society, Vadodara Chapter and Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara on 25th Feb. 2018

2. "Synthesis, Characterization, Crystal feature and Antimalarial Activity of acyl pyrazolone and its zinc(II) metal complexes" Oral paper presented at ACC-2019 & International Conference on Recent Trends in Chemical Sciences organized by Indian Chemical Society, Hosted by SOS, Pt. Ravishankar Shukla University, Raipur on-14-16th Nov. 2019. (**Note: 1st prize in Oral Presentation and won young scientist award**)

Seminars and Workshops

1. Nuclear Magnetic Resonance (NMR) Spectroscopy: Concepts and Applications, Organized by Department of Chemistry, Gujarat University Ahmedabad on 24th and 25th August 2018
2. National Symposium on advances in chemical research (ACR-2019), Department of Chemistry, The Maharaja Sayajirao University of Baroda, Vadodara on 24th Feb. 2019
3. 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
4. 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
5. National Workshop on "Computer Aided Drug Discovery and Microbiome Analysis" organized by Bioinformatics and Supercomputer Facility, Department of Biosciences (UGC-SAP-DRS-II & DST-FIST-I), VNSGU, Surat-395007, India on 31st March 2019