Published papers

1. Low temperature synthesis of bio-fuel additives via valorisation of glycerol with benzaldehyde as well as furfural over a novel sustainable catalyst, 12-tungstosilicic acid anchored to ordered cubic nano-porous MCM-48, Anjali Patel and **Dhruvi Pithadia**, *Appl. Catal. A-Gen*, 602, 117729, (2020). (IF= 5.723)

2. Conversion of bioplatform molecule, succinic acid to value-added products via esterification over 12-tungstosilicic acid anchored to MCM-22, **Dhruvi Pithadia** and Anjali Patel, *Biomass Bioenergy*, 151, 106178, (2021). (IF= 5.774)

3. New catalyst comprising Silicotungstic acid and MCM-22 for degradation of some organic dyes. **Dhruvi Pithadia**, Vinayak Hegde, Varsha P. Brahmkhatri and Anjali Patel, *Environ. Sci. Pollut. Res.*, 28, 10633, (2021). (IF= 5.190)

Additional published paper

1. 12-Tungstophosphoric acid anchored to MCM-22, as a novel sustainable catalyst for the synthesis of potential biodiesel blend, levulinate ester, **Dhruvi Pithadia**, Anjali Patel and Vijay Hatiya, *Renew. Energ.*, 187, 933, (2022). (IF= 8.634)

Papers in revision

1. Mono lacunary silicotungstate anchored to nano-porous MCM-48: synthesis, characterization and esterification of bioplatform molecules to fuel additives, **Dhruvi Pithadia** and Anjali Patel, *J Ind Eng Chem* (IF= 6.760)

2. 12-tungstosilicic acid anchored to nano-porous MCM-48: A sustainable catalyst for the valorization of bioplatform molecules to value added products, **Dhruvi Pithadia** and Anjali Patel, *Waste Biomass Valorization* (IF= 3.449)

Papers presented

1. "Anchored 12-tungstosilicic acid: Synthesis, Characterization and Valorization of Glycerol" - **Oral presentation** at "4th Kathmandu Symposia on Advanced Materials-2018 (KaSAM-2018)" Kathmandu, Nepal. (Oct. 26-29, 2018)
2. "Biomass conversion to value added products over anchored 12-tungstosilicic acid" - **Poster Presentation** at National seminar, "Frontiers in Heterogeneous Catalysis" (HETCAT-2018), The Maharaja Sayajirao University of Baroda, Gujarat, India. (Dec. 8-9, 2018) **(Awarded 2nd best poster)**
3. "Oxygenated bio fuel additives from glycerol via esterification over anchored 12-tungstosilicic acid" - **Poster presentation** at International Conference, "Advances in Catalysis: Industrial Outlook" (ACIO-2019), CSIR-IICT Hyderabad, India. (Aug. 1-2, 2019)
4. "Synthesis of biofuel additives from biodiesel waste over supported heteropoly acid" - **Poster presentation** at One Day Workshop, "Industrial Catalysis ICAT 2019: Solutions to Problems" The Maharaja Sayajirao University of Baroda, Gujarat, India. (Nov. 23, 2019) **(Awarded best poster)**
5. "Bio-additive fuels from glycerol acetalization over anchored 12-tungstosilicic acid" **- Poster presentation** at One Day National Seminar, "Decadal Trends in Chemistry Research: The Perspective of Women Scientists, (W-CHEM 2020)" The Maharaja Sayajirao University of Baroda, Gujarat, India. (March 8, 2020) **(Awarded 3rd best poster)**
6. "Potential biodiesel blend from sustainable esterification of levulinic acid over anchored 12-tungstophosphoric acid" - **Virtual Oral presentation** at "Catalysis for Sustainable Development, CATSCHOL, 2020" organised jointly by The Catalysis Society of India and ICT mumbai, India. (Dec. 19th & 20th, 2020)

7. "Synthesis of biofuel additives from biodiesel waste using furfural over anchored 12- tungstosilicic acid" - **Virtual Oral presentation** at International Seminar, "Recent Advances in Chemistry & Material Sciences" Indian Chemical Society, Kolkata, West Bengal, India. (Aug. 2020) **(Recipient of S. S. Bhatnagar Young Scientist Award)**
8. "Synthesis of fuel additive, butyl levulinate, over silicotungstic acid anchored to nano-porous MCM-48"- **Virtual Oral presentation** at "99th Foundation Day celebration & International Research Scholars' meet", Indian Chemical Society, & Department of Chemistry, University of Calcutta, Kolkata, India (May 9th, 2022)

Seminars/Workshops attended

1. 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 March 9, 2019
2. One day seminar on, "Analytical Instrumental Techniques" organized by Department of Environmental Studies, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara on April 9, 2019
3. Webinar on, "Infrared Spectroscopy with evolved gas analyzer" organized by Perkin Elmer, India on May 15, 2020
4. 57th Annual Convention of Chemists, 2020 & International Conference on "Recent Trends in Chemical Sciences (RTCS-2020)" organized by the Indian Chemical Society, Kolkata on December 26 –29, 2020
5. e-Workshop on "Recent Advances in Inorganic Chemistry (RAIC-2022)" organized by the School of Basic Sciences (Chemistry & Bioscience), IIT Bhubaneswar, Odisha on March 25-26, 2022.