



Dr. Parin Kanaiya

Senior Assistant Professor, Chemical Science
Office at 1st Floor, SoS,
School of Science

parin.kanaiya@gafcuniversity.ac.in

Phone: 9275025499

Education

PhD – Gujarat University, Ahmadabad

Thesis titled – *“Synthesis and Analytical Applications of Resorcinarenes and its Derivatives”*

MSc – Gujarat University, Ahmadabad

BSc – Saurashtra University, Rajkot

Key Skills

Dr. Parin Kanaiya has a Problem-solving abilities and good experience in industry and academics.

1. Syllabus Designing and Content development for academic institutes. I was Board of Studies (BOS) member(Subject expert) in Sarvajani University, Surat (01/08/2021 to 31/07/2022)
2. Literature search
3. Performing experiments and data collection
4. Documentation: Dossier preparation
5. Technology Transfer & Process scale up
6. Waste water treatment and analysis

Background

Joined GSFC University in May 2017

Scholarship and Accomplishments

Dr. Parin Kanaiya has earned his doctoral degree in the field of chemistry with specialization in calix[4]resorcinarene, The aim of my research work was to synthesize different derivatives of calix[4]resorcinarene, and characterize them using different techniques like FT-IR, Elemental Analysis, ¹H & ¹³C NMR and Mass spectra. Also studied their metal complexes with transition and rare earth metals using liquid-liquid extraction and solid phase extraction techniques, also studied their antimicrobiological activity, further investigated dyeing application on Cotton, Wool and Silk herewith showed good results towards fastness and other parameters. Also carried out interaction study of water soluble calix[4]resorcinarene with different surfactant. I was also appointed as a SENIOR RESEARCH FELLOW (S.R.F.) in CSIR RESEARCH SCHEME under the title of “Calix[4]resorcinarene and its Derivatives: An Emerging Class of Receptors for Ions/Organic analytes in Supramolecular Chemistry”.

Dr. Kanaiya has an experience of more than 13 years wherein he has served as an Assistant manager R&D in Transpek –Silox Industry Limited, Vadodara also worked for SAL Technical Campus: Sal Engineering and Technical Institute, Ahmadabad and then join GSFC University Vadodara.

He has taught organic chemistry, engineering chemistry and Drugs & Dyes to undergraduate and post graduate students. He has guided many students at undergraduate and post graduate level for their research work. Dr. Kanaiya has many publications with most of them being published in international Journals with good impact factor.

Projects Handled in industries:

1. Grignard reaction of p-Cl toluene and p-Br toluene for the preparation of OTBN
2. Emulsion polymerization of Vinyl acetate, Butyl acrylate and Styrene etc.

3. Zinc Pyrithion (ZPT): used in antidandruff shampoo
4. Zinc Carbonate: Used as medicated powder and formulation of skin ointment
5. Zinc Stearate
6. Free Formaldehyde Sulphoxylate(FFS)
7. Zinc Borate
8. Zinc Phosphate
9. Zinc Sulphate from Zinc ash, Zinc hydroxide and Zinc oxide

Most Three Notable Publications

1. Monitoring and studying the effect of aquatic plants on the chemical profile of water sample. Dr. Parin H Kanaiya, Dr. Rajni Pania *Zeichen Journal* 8(9) 78-86, 2022.
2. Chemistry of calix[4]resorcinarene. Vinod K. Jain, Parin H. Kanaiya *Russian Chemical Reviews* 80 (1) 75- 102, 2011.
3. Synthesis, Spectral Characterization of Azo Dyes derived from Calix[4]resorcinarene and their Application in Dyeing of Fibers. Vinod K. Jain, Parin H. Kanaiya and Narendar Bhojak, *Fibers and Polymers*, 9(6): 720-726, 2008.

Book:

1. A Novel supramolecule: Calixresorcinarene Parin Kanaiya Lambert Academic Publishing ISBN No: 978-620-0-07995-4