

Dr. Parin H. Kanaiya

OBJECTIVE

I would like to pursue career, which offers intellectual development, an avenue for personal growth, long-term satisfaction and high learning process. To do the best and to excel in whatever work I undertake. To work in a team and render my best service to the organization for its effective growth and advancement.

Work Experience:

(1) GSFC University Vadodara: 26/05/2017-Continue

Presently working with GSFC University, Vadodara as an Assistant Professor and Course coordinator for Chemistry.

Syllabus Designing /Approval

Industrial Internship

Industrial Research

Teaching

(2) SAL Technical Campus: Sal Engineering and Technical Institute, Ahmadabad: 15/09/2014 to 25/05/2017

Worked with **Sal Engineering and Technical Institute, Ahmadabad** as an Assistant Professor for Chemistry and I/C HOD of chemical Engineering Department, from September 15, 2014 to June 4, 2015.

Subject:

Physical and inorganic chemistry

Organic Chemistry and Unit Processes

Chemistry

Environmental Studies

(3) Transpek –Silox industry limited, Vadodara -25/1/2010 to 12/09/2014:

Assistant manager R&D

TRANSPEK-SILOX is an ISO-9001-2000 certified manufacturing and processing facility for Zinc dust and Zinc derivatives for Pharmaceuticals, Cosmetics, Rubber industries, Paint and oil refining.

TRANSPEK-SILOX is largest manufacturer of Zinc dust & Sodium hydrosulphite in India, world's no-1 produce of Sodium formaldehyde sulfoxylate (SAFOLITE™) and Zinc formaldehyde sulfoxylate (SAFOLINE™) which is used for Textile, Paper, Polymer and paint industries.

Project Handle:

- Grignard reaction of p-Cl toluene and p-Br toluene for the preparation of OTBN

- Emulsion polymerization of Vinyl Acetate, Butyl acrylate and styrene etc.
- Zinc Pyrithion (ZPT): Used in antidandruff shampoo
- Zinc Carbonate: Used as medicated powder and formulation of skin ointment
- Zinc Stearate
- Free Formaldehyde Sulphoxylate(FFS)
- Zinc Borate
- Zinc Phosphate
- Zinc Sulphate from Zinc Ash, Zinc hydroxide and Zinc oxide

ACADEMIC CREDENTIALS:

- **Ph.D. . 2010 Title: “Synthesis and Analytical Applications of Resorcinarenes and its Derivatives”.** School of Sciences, Gujarat University, Ahmedabad-09, Gujarat.
- **M.Sc. – 2003 (Second Class, 55.40%), Organic Chemistry,** M. G. Sciences college, Gujarat University, Ahmedabad-09, Gujarat.
- **B.Sc. – 2001 (First Class, 64.14%), Chemistry,** M. P. Shah Arts and Science College, Surendranagar, Saurashtra University, Gujarat.

SCHOLARSHIP AWAD

- In **July 2006**, I was 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”*.

INSTRUMENTS USED

- UV-visible spectrophotometer, FT-IR, AAS, Florescence Spectrophotometer, pH meter, Auto titretor (Mettler), Melting point apparatus (Veego)

RESEARCH WORK

The title of my Ph.D. thesis is **“Synthesis and Analytical Applications of Resorcinarenes and its Derivatives”** The aim of my research was to synthesized

different derivative of calix[4]resorcinarene, and fully characterized using different techniques like FT-IR, elemental analysis, ^1H & ^{13}C NMR and Mass.

After characterization, studying their metal complexes with transition and rare earth metals using liquid-liquid extraction and solid phase extraction technique. And also studied their antimicrobiological activity, also studied dyeing application on Cotton, Wool and Silk and the dyes show good results towards fastness and other parameters. Also carried out interaction study of water soluble calix[4]resorcinarene with different surfactant.

BOOK PUBLISHED

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

RESEARCH PAPERS PUBLISHED

1. Chemistry of calix[4]resorcinarene Vinod K. Jain, **Parin H. Kanaiya** Russian chemical reviews 80 (1) 75- 102, 2011. **Impact-factor: 2.346**
2. 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. **Impact-factor: 1.022**
3. Diazo reductive: a new approach to the synthesis of novel upper rim functionalized resorcin[4]arene Schiff-bases, V. K. Jain and **Parin. H. Kanaiya**, *J Incl Phenom Macrocycl Chem*, 62(1-2):111. 115, 2008. **Impact-factor: 1.253**
4. Synthesis of Calix[4]resorcinarene Based Dyes and its Application in Dyeing of Fibres, Vinod K. Jain, Shibu G. Pillai and **Parin H. Kanaiya**, *E-Journal of Chemistry*, 5(5): 1037-1047, 2008. **Impact-factor: 0.716**
5. *Solid Phase Extractive Preconcentration and Separation of Lanthanum(III) and Cerium (III) Using a Polymer Supported Chelating Calix[4]arene Resin*, V. K. Jain, R. A. Pandya, S. G. Pillai, Y. K. Agrawal and **Parin. H. Kanaiya**, *Journal of Analytical Chemistry*, 62(2): 104-112, 2007. **Impact-factor: 0.694**
6. *Octafunctionalized Calix[4]resorcinarene-N-phenyl-acetohydroxamic acid for the Separation, Preconcentration and Transport Studies of Cerium (IV)*, Vinod K.

Jain, Shibu G. Pillai and **Parin H. Kanaiya**, J. Braz. Chem. Soc., 17(7): 1316-1322, 2006. **Impact-factor: 1.096**

PRESENTATIONS / CONFERENCES / SEMINARS

Oral Presentation:

1. Presented a paper (Oral) entitled "Liquid-liquid extraction and spectrophotometric determination of Cadmium (Cd) using novel Calix[4]resorcinarene Schiff-base" in the National Seminar on Emerging Trends in Supramolecular Research held at Chemistry Department, Gujarat University, Ahmedabad on 30th- 31st March, 2007.

Poster Presentation:

1. Presented a paper (poster) entitled "Calix[4]resorcinarene Schiff-base[C4RSB] : a novel reagent for the liquid-liquid extraction and spectrophotometric determination of copper (Cu)" in the National Seminar on Emerging Trends in Supramolecular Research held at Chemistry Department, Gujarat University, Ahmedabad on 30th- 31st March, 2007.
2. Presented a paper (poster) as a co-authored entitled "Interaction between cationic surfactants and anionic water soluble tetrasulfonatomethyl calix[4]resorcinarene in aqueous solution" in the National Seminar on Emerging Trends in Supramolecular Research held at Chemistry Department, Gujarat University, Ahmedabad on 30th- 31st March, 2007.
3. Presented a paper (poster) entitled "A New Approach to the Synthesis of Novel %Upper Rim+ Functionalized Calix [4] Resorcinarene Schiff-Bases" in national Seminar on Modern Trends in Supramolecular nanotechnology & Nanomedicine held at Institute of pharmacy, Nirma University of Science and Technology, Ahmedabad on 16th - 17th March, 2007.
4. Presented a paper (poster) as a co-authored entitled "Synthesis, Characterization, Investigation of Absorption Spectra of various Dyes

derived from Calix[4]Resorcinarene and their Application in Dyeing of Fibers” in national Seminar on Modern Trends in Supramolecular nanotechnology & Nanomedicine held at Institute of pharmacy, Nirma University of Science and Technology, Ahmedabad on 16th-17th March, 2007.

Conferences, Seminars and Training:

1. Attended National conference on recent trends in materials sciences (RMTS-2018) held at Department of physics, faculty of sciences, the Maharaja sayajirao University of Baroda, 24-25 March, 2018.
2. Successfully completed National Himalayan winter Trekking cum Training Expedition Dalhousie 2017-18, Himachal Pradesh during Dec-Jan-2017-18 organized by Youth Hostels Association of India.
3. Attended the all India Seminar on Polymer processing, Reclamation and its end of life impact on environment+ organized by The Institution of Engineers (India), Gujarat State Centre. And abstract Titled Environmental Issue Associated with Polymer Industry, dated 21-22nd August -2015.
4. Participated in the two days Workshop on Understanding International perspective and Methodologies used in Delivering Design Engineering Courses. Organized by Gujarat Technological University, Ahmadabad During 22-23rd April 2015.
5. Participated in the National Seminar on Confluence of Supramolecular Chemistry & Nanoscience organized by Department of Chemistry, Gujarat University, Ahmedabad-380009, India on March 27-28th March 2015.
6. Participated in Faculty Development Program at OAKBROOK BUSINESS SCHOOL on 28th February-2015 at adalaj, Gandhinagar.
7. Participated in Faculty Development Program for Design Engineering from 6-8th November 2014 at GIC-Co Creation Center, Gujarat Technological University, Ahmedabad.
8. Attended the 4 days training program on INTEGRATED MANAGEMENT SYSTEM IMS (ISO 9001:2008, ISO 14001 -2004 & OHSAS 18001-2007) Internal auditor by thakral management at Trnaspek-Silox Industry Limited, atladara, vadodara, 9-12th June-2014. And successfully qualified as internal auditor.

- 9.** Attended the 4 days training program on ISO 9001:2008 Internal auditor by thakral management at Trnaspek-Silox Industry Limited,atladara, vadodara,18-21st June-2013. And Qualified as internal auditor.
- 10.** Attended the 4 days training program on ISO 14001:2004 Internal auditor by thakral management at Trnaspek-Silox Industry Limited,atladara, vadodara,16-19th July-2013. And Qualified as internal auditor.
- 11.** Attended 1 day Course and workshop on IR and Raman Spectroscopy held at Ahmedabad Management Association (AMA) 4th February, 2008. Organized by JASCO & Swapna research Center, Ahmedabad.
- 12.** Attended 1 day Course and workshop on Surfactants & polymers held at Department of Chemistry, S. G. University, Surat on 23rd November, 2007.
- 13.** Attended 9th National Symposium in Chemistry organized by the Department of Chemistry, University of Delhi, during February 1-4, 2007.
- 14.** Attended seminars on ~~%~~Recent Development in Chemical Technologies+ held at Bhaikaka Bhava n, Ellisbridge, Ahmedabad, organized by The Association of Chemical Technologists (India), Ahmedabad on 7th October, 2006.
- 15.** Attended seminars on ~~%~~National Symposium on Recent Trends in Nanomaterials and Photochemistry+ organized by the Chemistry Department, Gujarat University, Ahmedabad on 23rd and 24th December, 2005.
- 16.** Attended seminars on ~~%~~Polymer Materials : Present And Future Prospects And Fourth Polymer Foundation Award Function+ Jointly Organized by Professor Sukumar Maiti Polymer Award Foundation (PSMPAF), Kolkata & Ahmedabad Textile Industry~~ç~~ Research Association (ATIRA) Ahmedabad on 10th and 11th December, 2005.
- 17.** Attended seminars on ~~%~~DST Workshop on Green Chemistry+ organized by Institute of pharmacy, Nirma University of Science and Technology, Ahmedabad on 25th and 26th November, 2005.
- 18.** Attended 92nd Indian Science Congress held at Nirma University of Science & Technology, Ahmedabad during January 3-7, 2005
- 19.** Attended seminars on ~~%~~Access to Scholarly Electronic Journals/Databases under UGC-Infonet+ held at The Maharaja Sayajirao University of Baroda during 25-26 October, 2004, organized by Information and Library Network (INFLIBNET) Centre, Ahmedabad.

20. Attended seminars on National Seminar on Modern Trends in Fullerene, Calixarene and Crown Ethers+ organized by the Chemistry Department, Gujarat University, Ahmedabad on 27th & 28th February, 2004.

MEMBERSHIP: LM-396

Life time member of Vigyan Gurjari, Vijnana Bharati-Gujarat Unit.
Swadeshi Science Movement of Gujarat.

SKILLS, KNOWLEDGE AND ATTRIBUTES:

- Literature search
- Performing experiments and data collection
- Documentation: Dossier preparation
- Technology transfer & process scale up

PROFFESIONAL REFERENCES

Prof. Dr. V. K. Jain

HOD of Chemistry department

School of sciences

Gujarat University

Ahmedabad-380009.

(M). 09327013263

e-mail:drvkjain@hotmail.com

PERSONAL DETAILS

Address: 525/A, Fertilizer Nagar, GSFC, Vadodara-391750, Gujarat

Date of Birth: 02nd December, 1980, **Gender:** Male

Marital status: Married **Citizenship:** Indian

Languages Known: English, Gujarati (Mother tongue) and Hindi

Hobbies: Reading, Trekking, Playing cricket and Travelling

Yours Truly

Dr. Parin H Kanaiya