

Dr. Chiragkumar Bharatbhai Mistry

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Objective:

Obtain a challenging position and my academic skills in chemistry will add value to organization progress.

Education Qualification:

Degree	Year	Board/University	Percentage	Subject
B.Sc.	2006	Sir. P.T. Science College.	67.00 %	Chemistry
M.Sc.	2008	Dept. of Chemistry, VNSGU, Surat.	69.90 %	Analytical Chemistry
M.Phil.	2010	Dept. of Chemistry, VNSGU, Surat.	-	Analytical and Environmental Chemistry
Ph.D.	2014	Dept. of Chemistry, VNSGU, Surat.	76.7 %	Analytical and Environmental Chemistry

✚ M.Phil. Dissertation entitle: *“Microwave assisted zeolite synthesis from bagasse fly ash in an electrolyte media: It’s utilization in dye removal”*.

✚ Ph.D. Thesis entitle: *“Hydrothermally modified agricultural detritus into zeolitic materials with and without electrolyte media: Potential sorbents for uptake of metal ions”*.

Teaching Experience: (Total Exp = 8 Year 5 month)

12th June 2019 to at present (19.10.2022 to Present)

- Currently I am working as an Assistant Professor in Department of Chemistry, Sir P. T. Sarvajani College of Science, MTB College Campus, Jawaharlal Nehru Marg, opposite Chaupati, Athwalines, Surat, Gujarat 395007.
- Topic taught: Analytical Chemistry, Physical Chemistry, Instrumental methods of analysis, Community & social work program.

12th June 2019 to at present (12.06.2019 to 18.10.2022 = 3 Year 4 month)

- I worked as an Assistant Professor in Department of Chemistry, Naran Lala College of Professional & Applied Sciences (NLCPAS), Bhagwati sankul, Sitaram nagar society, Near Eru char rasta, Vijalpore, Navsari-396450.
Topics: Analytical Chemistry, Physical Chemistry, Instrumental methods of analysis, Community & social work program.

22nd June 2015 to 11th June 2019 (3 Year 11 month = 4 year)

- I worked as an Assistant Professor in Department of Chemistry, Bhagwan Mahavir College of Science and Technology, BMEF, Vesu, surat-7.
Key words: Analytical Chemistry, Physical Chemistry, Inorganic Chemistry, Instrumental methods of analysis, Community & social work program.
- Visiting lecturer in Analytical Chemistry in Dept. of chemistry, VNSGU, Surat during the tenure of M.Phil and Ph.D. work.

Industrial Experience: (Total work experience: 2.8 Year)

21st July 2014 to 12th June 2015 (11 month)

- Cadila Healthcare Ltd., Ahmedabad in ADL-FTF-API section as Research Associates. It is a R&D-API division.
- Job responsibilities: Method development of API and intermediate, routine analysis, In-process analysis, Method transfer, Mini validation and validation, daily reporting of work.

30th March 2013 to 19th July 2014 (1 year 4 month)

- Rusan Pharma Ltd., Ankleshwar in ADL/Q.C. section as ADL chemist. Rusan pharma ltd is a narcotic API division.
- Job responsibilities: Calibration of instruments viz. HPLC, GC, analysis of raw materials, intermediates, and finish products, daily reporting of work.

15th May 2008 to 30th October 2008 (5 month)

- Atul Ltd. Valsad as Executive Chemist in ADL.
- Job responsibilities: Calibration of instruments viz. pH, Karl-Fisher, wet analysis of raw materials, intermediates, and finish products, Method development on TLC, daily reporting of work.

Core competencies:

- Knowledge and operating of modern analytical instruments like UV-Vis, FTIR,

AAS, HPLC, GC, TGA and its trouble shooting.

- Having good communication, teaching and organizational skills.

UGC Major Research Project:

- Working as a Project fellow under the supervision of principle investigator Dr. B.A.Shah. Title: ***“Heavy metal budget and transport in the costal water system on the estuary of Tapti by open focused microwave assisted extraction and its determination by atomic absorption spectroscopy”***
- File No: F. No. 37-474/2009(SR), 3 years, Completed

List of publications:

- 1) Chirag B. Mistry, Bhavna A. Shah, Ajay V. Shah, Ritesh V. Tailor and Harendra D. Patel, ***“Surface Modified Bagasse Fly Ash Zeolites for Removal of Reactive Black-5”***, Journal of Dispersion Science and Technology, 32 (2011) 1247-1255.
- 2) Chirag B. Mistry, Bhavna A. Shah, Ajay V. Shah, ***“Seizure modeling of Pb(II) and Cd(II) from aqueous solution by chemically modified sugarcane bagasse fly ash: isotherms, kinetics, and column study”***, Environmental Science and Pollution Research, 20 (2013) 2193-2209.
- 3) Chirag B. Mistry, Bhavna A. Shah, Alok J. Navik, Ajay V. Shah, ***“Assessment of heavy metals in sediments near Hazira industrial zone at Tapti river estuary, Surat, India.”*** Environmental Earth Science, DOI: 10.1007/s12665-012-2066-4.
- 4) Bhavna A. Shah, Chirag B. Mistry, Harendra D. Patel, Ajay V. Shah, ***“High value zeolitic material from bagasse fly ash: Utilization for dye elimination”***, Water Environment Research, 85 (2013) 558-567.
- 5) Bhavna A. Shah, Chirag B. Mistry, ***“Solid phase extraction of phenol on zeolitic material: Batch sorption and column dynamics”***. Separation Science and Technology, 48 (2013) 1717-1728.
- 6) Chirag B. Mistry, Bhavna A. Shah, Ajay V. Shah, ***“Sequestration of Cu(II) and Ni(II) from wastewater by synthesized zeolitic materials: equilibrium, kinetics and column dynamics”***. Chemical Engineering Journal, 220, (2013) 172-184.
- 7) Chirag B. Mistry, Bhavna A. Shah, Ajay V. Shah, ***“Detoxification of hexavalent chromium using hydrothermally modified agricultural detritus into mesoporous zeolitic materials: Characterization and column dynamics”***. Journal of Microporous and Mesoporous Materials, 196, (2014) 223-234.

List of Teacher Training program:

1. 1st online Guru-Dakshata, Faculty induction programmes (FIP)/Orientation Programme held at UGC-HRDC centre, Gujarat University, Ahmedabad-380009 period from 27.07.2020 to 25.08.2020 (30 days).
2. 1st online Refresher course in Chemistry held at UGC-HRDC centre, Gujarat University, Ahmedabad-380009 period from 28.09.2020 to 11.10.2020 (13 days).

Details of Membership:

1. Life membership of Society for Materials Chemistry (SMC), (Reg. No. Maharashtra, Mumbai/1229/2008/GBBSD) c/o Chemistry Division, Bhabha Atomic Research Centre, Mumbai-400085, India, Membership No. 546.
2. Life membership of Indian Liquid Crystal Society, (Reg. No. 219/92-93) Membership No. L-399 date: 22nd November 2010.

Personal Details:

- Date of Birth : 6th May, 1986
- Nationality : Indian
- Languages Known : English, Hindi and Gujarati
- Marital Status : Married
- Address : 21, Dattatry Society, Morabhagal, Rander road,
Surat-395005

Dr. Chirag Mistry