

Department of Chemistry

Name	Dr. (Mrs.) Bhavna A. Shah
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Designation and Current Position	Honorary Professor
Email	bhavna.shah@utu.ac.in
Qualification	M.Sc. (1982); Ph.D. (1987) from M. S. University of Baroda, Vadodara.
Area of interest	Analytical and Environmental Chemistry
Teaching Experience	33 years in P.G. Class
Current Position	Honorary Professor
Achievements	<ul style="list-style-type: none"> - Supervised 20 Ph.D. (04 working) & 14 M.Phil. - 1 Minor Project Unassigned Grants and 1 Major UGC Project & 2 GUJCOST Projects - Research Publications 64 - Visited University of Dar-es-Salaam & Institute of Marine Science, Zanzibar East Africa (2004). - Nominated by UGC for HSB Scholarship (2009-2010). - Accepted by Hungary (HSB) for Research Stay (2010-2011). - Visited Debrecen University, Hungary under Eduaction Exchange Programme (2011) - Nominated by UGC as for Major Research Project Evaluation at UGC New Delhi (2014) - Panel Member of paper setting at 13th Gujarat State Eligibility Test (Accredited by UGC) Gujarat (SET-2018)
List of Publications	<ol style="list-style-type: none"> 1. Reduction of Cr (VI) in electroplating wastewater and investigation on the sorptive removal by WBAP, B. A. Shah, A. V. Shah, N. B. Patel, R. R. Singh, <i>Environmental Progress and Sustainable energy</i>, 30(1), 59-69, (2011) ISSN: 1944-7450 IF=0.865 2. Adaptation of bagasse fly ash a sugar industry solid waste into zeolitic material for the uptake of phenol, B. A. Shah, A. V. Shah, R. V. Tailor, <i>Environmental Progress and Sustainable energy</i>, 30(3), 359-367, (2011) ISSN: 1944-7450 IF=0.865 3. Sorptive sequestration of 2-chlorophenol by zeolitic materials derived from bagasse fly ash, B.A. Shah, A.V. Shah, R. V. Tailor, <i>Journal of Chemical Technology and Biotechnology</i>, 86,1265-1275, (2011) ISSN: 1097-4660. ISSN: 0193-2691 (Print), 1532-2351 (Online) IF=2.738 4. Zeolitic bagasse fly ash as a low-cost sorbent for the sequestration of p-nitrophenol: Equilibrium, kinetics and column studies, B.A. Shah, A.V. Shah, Ritesh V. Tailor, <i>Environmental Science and Pollution Research</i>, 19(4), 1171-1186, (2012) DOI 10.1007/s11356-011-0638-6. ISSN:0944-1344 (print 1version),1614-7499 (electronic version) IF=

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	<p>2.760</p> <p>5. Seizure modeling of Pb(II) and Cd(II) from aqueous solution by chemically modified sugarcane bagasse fly ash: Isotherms, Kinetics and Column study. Bhavna A. Shah, Chirag B. Mistry, Ajay V. Shah, <i>Environmental Science and Pollution Research</i>, DOI: 10.1007/s11356-012-1029-3. 20(4) 2193-2209 (2013) ISSN: 0944-1344 (print version),1614-7499 (electronic version) IF=2.760</p> <p>6. Sorptive removal of phenol by Zeolitic bagasse fly ash: Equilibrium, Kinetics, column studies, B.A. Shah, A.V. Shah, Ritesh V. Tailor, <i>Journal of Chemical and Engineering Data</i>, 57, 1437-1448 (2012) DOI:10.1021/jc300399y. ISSN:1899-4741 IF= 1.835</p> <p>7. Assessment of heavy metals in sediments near Hazira industrial zone at Tapti river estuary, Surat, India. Bhavna A. Shah, Ajay V. Shah, Chirag B. Mistry, Alok J. Navik, <i>Environmental Earth Science</i>, 69(7) 2365-2376 (2013) ISSN: 1866-6280 (print version),1866-6299 (electronic version) IF= 1.765</p> <p>8. Solid phase extraction of phenol on zeolitic material: Batch sorption and column dynamics, Bhavna A. Shah, Chirag B. Mistry, <i>Separation Science and technology</i>, 48, 1717-1728 (2013) ISSN: 0149-6395 (Print), 1520-5754 (Online) IF= 1.083</p> <p>9. Extractive Efficacy of Microwave Synthesized Zeolitic Material for Acephate: Equilibrium and Kinetics. B. A. Shah, A. V. Shah, P. Y. Jadav, <i>Journal of Serabian Chemical Society</i>. DOI: 10.2298/JSC120530146S, 77(0),1-30. (2013) ISSN 0352-5139 (Print),1820-7421 (Online) IF= 0.970</p> <p>10. Chemionics Study of newly synthesized Photochromic Schiff base compound. Bhavna A. Shah, Ajay V. Shah and Pratima R. Surati, <i>Molecular crystal and liquid crystal</i>, DOI: 10.1080/15421406.2013.766918, 575 (01) 115-127 (2013) ISSN: 1542-1406 (Print), 1563-5287 (Online) IF= 0.62</p> <p>11. Detoxification of hexavalent chromium using hydrothermally modified agricultural detritus into mesoporous zeolitic materials: Characterization and column dynamics. B. A. Shah, C. B. Mistry. A.V. Shah, <i>Microporous and Mesoporous materials</i>, 196, 223-234, (2014) ISSN: 1387-1811 IF=3.365</p> <p>12. Impounding of Ortho-chlorophenol by zeolitic materials adapted from Bagasse Fly Ash: Four Factor Three Level Box- Behnken Design Modelling and Optimization, Bhavna A. Shah, Darshini D. Pandya, Hirva A. Shah, <i>Arabian Journals for Science and Engineering</i>, DOI: 10.1007/s13369-016-2294-0(2016)ISSN: 2193-567X (print version)ISSN: 2191-4281 (electronic version) IF=0.728</p>										
Seminar/ Conference	<p>National:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 35%;">Name of the Conference</th> <th style="width: 15%;">Place</th> <th style="width: 35%;">Title of the Paper</th> <th style="width: 10%;">Year</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>National</td> <td>Department</td> <td>1. Sorption of Pb (II) and Cd</td> <td style="text-align: center;">2009</td> </tr> </tbody> </table>	No.	Name of the Conference	Place	Title of the Paper	Year	1.	National	Department	1. Sorption of Pb (II) and Cd	2009
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		Conference on Green Chemistry	of Chemistry, VNSGU, Surat	(II) ions by chelating ion exchange resin containing P-Hydroxy benzoic acid functionality: Synthesis, Characterization and Thermodynamics.	
	2.	Liquid crystal	Department of Chemistry, Surat	Organizing Member	15-17 th Nov 2010
	3.	Recent trends in Chemistry	Department of chemistry, VNSGU, Surat	1. Sorptive sequestration of Pb(II) and Cd(II) from aqueous solution by zeolitic materials	31 st Oct 2012
	4.	Indian council of chemists	Department of chemistry Saurashtra University, Rajkot	1. Sorptive removal of Cu(II) and Ni(II) from waste water by synthesized zeolitic materials: Equilibrium, Kinetics and Column dynamics	26-28 th Dec 2012
	5	Innovation and recent trends in drug discovery techniques, radio labeling and applied science research	Uka Tarsadia University, Bardoli.	1.Synthesis, characterization and molecular switching behavior of Schiff base derivative.	23 rd - 24 th Jan 2015
International:					
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	1	International Conference on Water, Environment, Energy and Society, WEES-2009	NASC Complex, Pusa, New Delhi	<ol style="list-style-type: none"> 1. Reduction of Cr(VI) in electroplating Wastewater and Investigation on the Sorptive Removal by WBAP 2. A Novel Green Method to Synthesis Zeolites from the Bagasse Fly Ash (A sugar Industry Waste) and Sorptive Removal of Methylene Blue. 3. Use of Modified Bagasse, an Agriculture Waste for Enhancing Phenol Uptake from the Aqueous Solution. 	12 th - 16 th Jan 2009
	2	International congress of environmental research	SVNIT, Surat.	<ol style="list-style-type: none"> 1. Solid-state photochromic properties of new synthesized Schiff base with pyrazolone-ring. 2. Modified bagasse fly ash as zeolitic material : For removal of toxic metals 3. Pollution load distribution and transportation due to heavy metals in Surat Tapti Estuary Region 4. Kinetics, isotherms and column separation of toxic metal ions using microwave assisted synthesized chelating resin. 	15 th - 17 th Dec 2011