

## RESUME

- 1 Name **Dr. Jigisha K Parikh**
- 2 Highest Qualification Ph D Chemical Engineering
- 3 Designation, **Head & Associate Professor**
- Department and Institution Chemical Engineering Department  
Sardar Vallabhbhai National Institute of  
Technology, Surat-395007, Gujarat, INDIA.
- E-mail: [jk\\_parikh@yahoo.co.in](mailto:jk_parikh@yahoo.co.in), [jkp@ched.svnit.ac.in](mailto:jkp@ched.svnit.ac.in)
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- 4 Experience
- a) Industrial experience (4 years) Refer **Annexure-I**
- b) Academic Experience (18 years) Refer **Annexure-II**
- 5 Publications Refer **Annexure-III**
- a) Number of Research Papers published in International Journals - **45**
- b) Number of Research Papers published in National Journals - **03**
- c) Number of Papers published/presented in International Conference/Conference proceedings - **21**
- d) Number of Papers published/presented in National Conference/Conference proceedings - **16**
- 6 **AREAS OF INTEREST**
- ❖ Biofuels and Energy from renewable/waste materials, Energy Conservation in Chemical Process Industries, Process Design & Evaluation, Chemical Reaction Kinetics & Engineering, Environmental Technology & Engineering, Extraction of various components using novel techniques, Studies on micellar systems and its applications, Green Chemistry & Engineering.
- 7 Reviewer in International Journal:
- FUEL, Biomass & Bioenergy, Transportation Research Part C, Journal of Loss Prevention in the Process Industries, Chemical Engineering Research & Design,**

**Process Safety and Environmental Protection, Journal of Hazardous Materials,**  
**Thermochimica Acta** – Elsevier Publication

**Natural Product Research, Separation Science and Technology, Chemical**  
**Engineering Communications**

– Taylor & Francis Publication

**Industrial and Engineering Chemistry Research** – ACS Publication

**Journal of Renewable and Sustainable Energy** - American Institute of Physics

**Asia-Pacific Journal of Chemical Engineering** - WILEY

**Colloid and Polymer Science, Research on Chemical Intermediates**

- Springer

**Polish Journal of Chemical Technology** -De Gruyter

**BioResources** -NC State University

**8** No. of projects completed/ongoing as Principal Investigator/Coordinator

Sr. No.	Name of the funding agency	Name of the Scheme	Project Title	Year of Sanction of Grant	Durati on	Amount Sanction ed	Status: Completed/ Ongoing
01	Gujarat Energy Development Agency, Baroda	R & D Project	Energy Recovery from Waste	2004	3 years	5.25 Lacs	Completed*
02	TIFAC, Mission REACH, GOI, New Delhi.	Center of Relevance & Excellence	Environmental Engineering	2002	3-5 Years	4.2 Crore	Completed*
03	The Institution Of Engineers (India)	Research & Development	A Study on Behavior of Drug Release Kinetics	2008	2 Years	0.27 Lacs	Completed
04	Gujarat Council on Science and technology, Gandhinagar	Research & Development	Characterization & Performance Assessment of Some Novel Mixed Surfactant Systems	2008	3 Years	3.4 Lacs	Completed
05	Council of Scientific and Industrial Research, New Delhi.	Research & Development	Studies on Novel Techniques for Extraction of Essential oil from Patchouli	2013	2 Years	10.8 Lacs	Ongoing

\* at previous institute ( Sarvajanic College of Engineering & Technology, Surat)

## 9 Professional Membership:

Chartered Engineer & Member	– Institute of Engineers (India),
Associate Member	– Indian Institute of Chemical Engineers,
Life Member	– Institute of Scientific Technical Education,
Life Member	– South Gujarat Productivity Council, Surat
Fellow Member	– International Congress of Environmental Research
Fellow Member	– Research Journal of Chemistry & Environment

## 10 AWARDS

- Visiting Faculty - University of Saskatchewan, Canada during May-June 2014.
- Summer Faculty Research Fellow - IIT Delhi during May-July 2012.
- Best Paper Award at Chemcon-2001 (National Conference of Indian Institute of Chemical Engineers), Chennai, India.

**Annexure - I**

## INDUSTRIAL EXPERIENCE

(4 Years)

- Served as **Process Design Engineer** for 4 years in chemical process industry and consultancy services. Involved in the design and detailed engineering of chemical process equipments along with **trouble shooting, monitoring and debottle-necking** activities for various process plants.
  - Basic and detail Engineering-Mass & Energy balance for new/improved capacity plants, equipment design and preparation of specifications.
  - P & I D, Equipment lay out, Equipment selection, Preparation of specifications and Procurement for expansion of projects.
  - Process Equipment design- Heat exchanger, Fired heater, Fuel handling system, Stirred reactor, Storage tank, Hot air generator etc.
  - Monitoring & Implementation of energy conservation schemes.

**ACADEMIC EXPERIENCE:**

(@16 Years till date)

1. Sarvajani College of Engineering & Technology, Surat (**SCET**)  
(11 years & 8 months)
2. Sardar Vallabhbhai National Institute of Technology, Surat - since 20/11/07 as  
**Associate Professor & Head** (08/01/2014 onwards)

***Activities at a Glance***

- Courses taught – Energy Conservation in Chemical Process Industries, Energy Technology, Non-conventional Energy, Safety-Health & Environment, Chemical Engineering Thermodynamics, Chemical Reaction Engineering, Process Equipment Design, Safety & Waste Management, etc.
- Worked as **Deptt.-In-Charge** at SCET, Surat and involved fully in the development of Chemical Engineering Department from the date of joining (Being a first member).
- Worked as Schedule I Environmental Auditor as per GPCB norms (Carried out Environmental audit work for various Industries)
- Training provided to **Reliance** Employees (**Chemical Engineering for Non-chemical Engineers**) for different process modules like Mass transfer, Heat Transfer, Chemical Reaction Engg., Process Equipment Design, Fluid Flow Operations etc.

➤ **Selected List of Projects (experimental) - Completed**

- Ground Water Pollution : Detailed study of Hazira Industrial belt
- Noise Pollution : Detailed study covering residential and industrial area
- Lab scale model of Common effluent treatment plant
- Lab scale manufacturing of brick from fly-ash
- Removal of color impurities from textile industry effluent using low cost adsorbents
- Data base software for Hazardous Chemicals
- Effect of different parameters on surfactant properties
- Development and Feasibility studies on Pilot scale Reed Bed System for removal of contaminants from effluent of Textile, Dye & Intermediate industries

➤ **List of M Tech (by Research) Completed (5 nos.):**

- Industrial (Textile) waste water treatment using membrane bioreactor
- Development of Controlled Drug Delivery System using Biodegradable Polymers
- A Study on Behavior of Drug Release Kinetics
- Process improvisation with Reactive Distillation
- Process Intensification in Hydrolysis reaction by Converting Batch to continuous Process

➤ **List of M Tech (Regular) Completed (11 nos.):**

- Studies on Solubilization phenomena and its application for extraction of dyes
- Studies on the effect of parameters and kinetics for catalytic hydrogenation of furfural
- Synthesis of Higher Hydrocarbons by CO-Hydrogenation using Bi-functional catalyst
- Micellar mediated extraction of organic pollutants
- Thermodynamics of hydrotropic system
- Studies on Thermal Pyrolysis and Kinetic Analysis for Sewage sludge and Plastic waste Materials
- Thermodynamics of Solubilization and its application for Extraction of selective components
- Modeling and Optimization studies on Extraction of Lemongrass oil
- Extraction of natural dye from beetroot using novel techniques
- Synthesis of delaminated LDHs and their polymer composites for water remediation
- Synthesis and characterization of bimetal catalyst and its application in biofuels

➤ **Under progress (1no.)**

- Novel supported bimetallic catalyst development and application for upgradation of biooil

➤ **List of (Ph D) – Completed (3 nos.)**

- Extraction of essential oil from Lemongrass using novel extraction techniques

- Highway Hazmat Transportation: A Comprehensive Risk Assessment and Route Evaluation

- Silica based Solid acid Catalysts for Biodiesel Synthesis from various oil feedstocks

➤ **List of (Ph D) – under progress (6 nos.)**

- Ionic Liquids and surfactants role in separation processes and energy recovery(Thesis submitted)
- Studies on extraction of essential oil from Palmarosa using novel techniques
- Application of novel extraction techniques for selective/enhanced separation of useful components
- Catalytic upgradation of bio-oil model components towards transportation fuels and chemicals
- Studies on surfactant systems and its application
- Synthesis and characterization of novel/modified catalyst and its application in biofuels

➤ **Consultation/Testing Jobs**

- Technical Evaluation of selective treatment of wastewater having high TDS, Ammoniacal nitrogen and organic components etc.
- Preparation of Adequacy Certificate for 84 MLD Sewage Treatment Plant
- Third party design evaluation for 1000 m<sup>3</sup>/day Sewage Treatment Plant
- Third party design evaluation for 500 m<sup>3</sup>/day Sewage Treatment Plant
- Gulbrandsen Chemicals, Vadodara –Catalyst performance for hydrogenation reaction
- Various testing jobs for identifying different characteristics of chemicals
- Established Audit Cell and worked as Coordinator for Schedule I Environmental Auditor as per GPCB norms at **Chemical Engineering Department, SVNIT-Surat** (to carry out Environmental audit work for various Industries)

- Working as **Institute Co-coordinator** for Main Phase of the National Mission Project on Education through ICT "Developing suitable pedagogical methods for various classes, intellectual calibers and research in e-learning." funded under the NMEICT scheme approved

by the MHRD, Govt. of India with IIT Kharagpur as the Anchor Institution. **13 Nos. Courses for various branches have been allotted to SVNIT-Surat. (Project cost – 91 Lac)**

- Two courses “**Chemical Reaction Engineering I**” and “**Process Plant Safety**” are being developed as Principal Developer and Co-Developer respectively.
  
- Involved in various department and institute level activities like
  - Member Secretary - Incubation Centre-SVNIT, Chairman - Institute profile, Chairman-RENESA, Member - Convocation committee, Member - Antiragging committee, Member - ED Cell, Maintenance (ChED), Member- Academic excellence (ChED), Member - Ph D Selection committee (ChED), Coordinator- Examination (ChED), etc. Chairman- Selection of candidates for Ph D/M Tech (Research)
  - P.G. In-Charge (M. Tech. Research)
  - Coordinator - Teachers Evaluation
  - Coordinator – Consultancy & Testing
  - Coordinator – Academic Excellence Committee
  - Coordinator: Finance (DOC & Annual Plan Grant)
  - Coordinator: Industry Institute Interaction
  
- **Examiner - M Tech & Ph D students (including outside Institutions)**
  
- Served as an expert for the selection of Assistant Professor at various colleges/institutes
- Served as an expert for the selection of Research Fellow/Associate
- Delivered lectures as Visiting Faculty for South Gujarat University, Surat.
- Conducted extra credit course (Value added Course) “**Energy conservation, Management and Audit**” for institute students (11-12, 12-13, 13-14)
- Arranged lectures by the industrial experts and industrial visit for the students of the institute
  
- **Expert Lectures delivered**
  1. Delivered **expert lecture** on “**Green Chemistry and Engineering - Towards a Sustainable Future**” at A Short Term Training Programme during Nov 18-22, 2013 Sponsored by TEQIP-II organized by ChED, SVNIT, Surat.
  2. Delivered **expert lecture** on “**Green Chemistry and Engineering - Case Studies**” at A Short Term Training Programme during Nov 18-22, 2013 Sponsored by TEQIP-II organized by ChED, SVNIT, Surat.
  3. Delivered “Invited talk- Keynote speech” on “**Clean Coal Technology**” at “National Seminar on Role of Chemistry for Improvement in Quality of Human Life” organized by

**The Ujjain Engineering College, Ujjain**, which will be conducted on 17-18 March 2012 at Ujjain.

4. Delivered **expert lecture** on “**Environmental Audit Case study – Iron Industry**” at “Training Programme on Environment Audit” organized by Co-Anchor Institute, Chemicals & Petrochemicals, L. D. College of Engineering, Ahmedabad - 380 015, sponsored by Forests & Environment Department, Government of Gujarat on 02/03/2012 at Ankleshwar.
5. Delivered **expert lecture** on “**Heat Exchanger Design**” at A Short Term Training Programme prompted by **Nodal Institute - Chemicals & Petrochemicals Sectors** and organized by Sarvajanik College of Engineering & Technology, Surat and N. G. Patel Polytechnic, Bardoli on 11<sup>th</sup> February 2012 at SCET-Surat.
6. Delivered **expert lecture** on “**Fuels & Combustion**” at A Short Term Training Programme on “**Energy Conservation & Audit Methodology for Industrial Equipments**” prompted by **Nodal Institute - Chemicals & Petrochemicals Sectors** and organized by N. G. Patel Polytechnic, Bardoli on 10<sup>th</sup> April 2011.
7. Delivered **expert lecture** on “**Energy Scenario**” organized by South Gujarat Chamber of Commerce and Industries, Surat at Energy Expo 2010 on 20<sup>th</sup> November 2010.
8. Delivered **expert lecture** on “**Introduction & Classification of the Instrumental Methods of Analysis**” at A Short Term Training Programme during Aug 24-28, 2009 Sponsored by AICTE organized by ChED, SVNIT, Surat.
9. Delivered **expert lecture** on “**Gas Chromatography**” at A Short Term Training Programme during Aug 24-28, 2009 Sponsored by AICTE organized by ChED, SVNIT, Surat.
10. Delivered **expert lecture** on “**Nanocatalysis**” at A Short Term Training Programme during July 10-14, 2009 Sponsored by AICTE organized by EED, SVNIT, Surat.
11. Delivered **expert lecture** on “**Energy Conservation – Case Studies**” organized by Laghu Udyog Bharti, Gujarat-Surat Region, on 25<sup>th</sup> Feb, 2009.
12. Delivered **expert lecture** on “**Preparation of Research Report**” at A Short Term Training Programme Sponsored by AICTE organized by MED & ChED “Pedagogy-Teaching methodology and Research Methodology” during Jan 19-23, 2009.
13. Delivered **expert lectures** on “**Energy Conservation and Recycling**” at A Short Term Training Programme during July 07-11, 2008 Sponsored by AICTE.
14. Delivered **expert lecture** on “**Environmental Audit Case study – Iron & Steel Industry**” organized by Gujarat Pollution Control Board, Gandhinagar for Residential

Training Programme on “Environmental Audit and Statement” on 18-19<sup>th</sup> April 2008 at Ahmedabad.

15. Delivered **expert lecture** on “**Energy Conservation – Boilers and Furnaces**” organized by CKPCT, Surat under Energy Awareness Programme of Gujarat Development Agency on 15<sup>th</sup> Mar 2008.
  16. Delivered **expert lecture** on “**Energy Conservation – Case Studies**” organized by Institute of Engineers (I) , South Gujarat local Centre, Surat and Surat Management Association on 24<sup>th</sup> January 2008.
  17. Delivered **expert lecture** on “**Energy Conservation - Need and Opportunities**” at Silvassa on 14<sup>th</sup> December 2007 on the occasion of Energy Day Celebration organized by Electricity Department of the U.T. Administration of Dadra & Nagar Haveli.
  18. Delivered **expert lecture** on “**Gas Chromatography**” at an international workshop on “**Advanced Analytical Techniques for Material Characterization**” during 8-10 June, 2006.
  19. Delivered **expert lectures on Energy Conservation and Recycling** at various organizations.
- (i) *No. of Short term courses Organized (Summer/winter schools/Trg. Programme)*  
**: 06**
1. STTP organized on “**Green Chemistry and Engineering - Towards a Sustainable Future**” during Nov 18-22, 2013 Sponsored by TEQIP-II
  2. STTP organized on “**Advanced Instrumental Methods of Analysis**” during Aug 24-28, 2009 Sponsored by AICTE.
  3. STTP organized on “**Pedagogy- Teaching methodology and Research Methodology**” during Aug 3-7, 2009 Sponsored by AICTE.
  4. STTP organized on “**Pedagogy- Teaching methodology and Research Methodology**” during Jan 19-23, 2009 Sponsored by AICTE.
  5. STTP organized on “**Energy Conservation and Recycling**” during July 07-11, 2008 Sponsored by AICTE.
  6. Training Programme organized on “**Pedagogy- Teaching methodology and Research Methodology**” during May 12-17, 2008 Sponsored by TEQIP.
  7. A short term Professional training programme organized on “**Energy Conservation in Various Industrial Sectors**” during December 26-30, 2005.

❖ *University level activity*

- Involved in **Board of studies in Chemical Engineering** as a member and chairman of various committees at South Gujarat University, Surat.
- Worked as a paper setter and examiner for Gujarat University (LDCE, NIT-Ahmedabad and GEC-Gandhinagar), DDIT, Nadiad and Saurashtra University other than South Gujarat University.
- Worked as Exam Superintendent, External Superintendent, Coordinator for Central Assessment work etc.

**Annexure – III**

**PUBLICATIONS**

**Book Chapter:**

P. Mondal, **J. Parikh**, and D.V. Naik. “Sustainable Development: Pyrolysis and Gasification of Biomass and Wastes” In *Encyclopedia of Environmental Management*; S.E. Jorgensen, ed. Taylor & Francis: New York, **2013**; Vol. IV, 2509–2525.

**International Journal: 45**

**2014-15**

1. Meghal A. Desai, Jigisha Parikh (2015) Extraction of Essential Oil from the Leaves of Lemongrass using Microwave Radiation: Optimization, Comparative, Kinetic and Biological Studies, accepted for publication in **ACS Sustainable Chemistry & Engineering**.
2. Sanjay Srivastava, Naveen Solanki, Pravakar Mohanty, Krunal A. Shah, Jigisha K.Parikh, Ajay K. Dalai (2015) Optimization and kinetic studies on hydrogenation of furfural to furfuryl alcohol over SBA-15 supported bimetallic copper-cobalt catalyst, accepted for publication in **Catalysis Letters**. DOI :10.1007/s10562-015-1488-5. **IF: 2.291(2013)**
3. Darshak Bhatt, Kalpana Maheria, Jigisha Parikh (2015) A microwave assisted one pot synthesis of novel ammonium based dicationic ionic liquids, **RSC Adv.**, 2015, 5, 12139–12143. DOI: 10.1039/c4ra16251j **IF:3.708**

4. Darshak Bhatt, Kalpana Maheria, Jigisha Parikh (2015) Enhanced separation of toxic Blue BG dye by cloud point extraction with IL as an additive: effect of parameters, solubilisation isotherm and evaluation of thermodynamics and design parameters, **Journal of Environmental Chemical Engineering**, ISSN: 2213-3437  
DOI: 10.1016/j.jece.2014.11.031
5. Krunal A. Shah, Jigisha K. Parikh, Kalpana C. Maheria (2014) Biodiesel synthesis from acid oil over large pore sulfonic acid-modified mesostructured SBA-15: Process optimization and reaction kinetics, **Catalysis Today**, 237, 29-37. **IF: 2.98**

#### **2013-14**

6. Pravakar Mohanty, Kamal K. Pant, Satya Narayan Naik, Jigisha Parikh, Andreas Hornung, J.N. Sahu (2014) Synthesis of green fuels from biogenic waste through thermochemical route – The role of heterogeneous catalyst: A review, **Renewable and Sustainable Energy Reviews**, 38, 131-153. **IF: 5.627**
7. Darshak Bhatt, Kalpana Maheria, Jigisha Parikh (2014) Mixed System of Ionic Liquid and Non-ionic Surfactants in Aqueous Media: Surface and Thermodynamic Properties, **Journal of Chemical Thermodynamics**, 74, 184- 192.  
ISSN No.: 0021-9614 **IF: 2.297**
8. Meghal A. Desai, Jigisha Parikh, Achyut Kumar De (2014) Modelling and Optimization Studies on Extraction of Lemongrass Oil from *Cymbopogon flexuosus* (Steud.) Wats., **Chemical Engineering Research and Design**, 92, 793-803.  
ISSN No.: 0263-8762 **IF: 1.927**
9. Krunal Shah, Jigisha Parikh and Kalpana Maheria (2014) Optimization studies and chemical kinetics of silica sulfuric acid catalyzed biodiesel synthesis from waste cooking oil, **BioEnergy Research**. 7, 206-216. ISSN No.:1939-1234 **IF: 4.25**
10. Krunal Shah, Jigisha Parikh and Kalpana Maheria (2014) Fatty acid methyl ester production from acid oil using silica sulfuric acid: Optimization and reaction kinetic studies, **Chemical Papers**. 68(4), 472-483. ISSN No.: 0366-6352 **IF: 0.879**

#### **2012-13**

11. Kiran Pawar, Meghal A. Desai, Jigisha Parikh (2013) Parametric, optimization and thermodynamic studies on the influence of electrolytes on sodium salicylate in aqueous solution, **Tenside Surfactants Detergents**, 4, 289-296.

ISSN No.: 0932-3414

**IF: 0.98 (2012)**

12. U K Chakrabarti, Jigisha Parikh (2013) Using consequence-based hazard zone assessment for effective evacuation planning of vulnerable settlements along hazmat transport corridors through industrial city of Surat in western India, **Journal of Loss Prevention in the Process Industries**, 26, 941-947.

ISSN No.: 0950-4230

**IF: 1.15(2012)**

13. Krunal Shah, Jigisha Parikh and Kalpana Maheria (2013) Use of sulfonic acid-functionalized silica as catalyst for esterification of free fatty acids (FFA) in acid oil for biodiesel production: An optimization study, **Research on Chemical Intermediates** (Published online). DOI: 10.1007/s11164-013-1253-6.

ISSN No.: 0922-6168

**IF-0.88 (2012)**

14. U K Chakrabarti, Jigisha Parikh (2013) Risk-based Route Evaluation against Country-specific Criteria of Risk Tolerability for Hazmat Transportation through Indian State Highways, **Journal of Loss Prevention in the Process Industries**, 26, 723-36.

ISSN No.: 0950-4230

**IF-1.15 (2012)**

15. Darshak Bhatt, Kalpana C. Maheria, Jigisha Parikh (2013) Studies on Surfactant–Ionic Liquid Interaction on Clouding Behaviour and Evaluation of Thermodynamic Parameters, **J. Surfact. Deterg**, 16(4):547–557.

**ISSN No.:1097-3958**

**IF-1.515 (2012)**

16. Jigisha Parikh, Jitendra Rathore, Darshak Bhatt & Meghal Desai (2013), Clouding Behaviour and Thermodynamic Study of Non-Ionic Surfactants in Presence of Additives, **Journal of Dispersion Science and Technology**, 34 (10): 1392-1398.

ISSN No.: 0193-2691

**IF-0.6 (2012)**

17. Shah Krunal, Maheria Kalpana, Parikh Jigisha, “Studies on effect of reaction parameters for the catalytic transesterification of cottonseed oil using silica sulfuric acid” Accepted for publication in the **Energy Sources, Part A: Recovery, Utilization, and Environmental Effects**, (Article in press) DOI: 10.1080/15567036.2011.636141

ISSN No. : 1556-7036

**IF-0.66 (2012)**

18. Srujal Rana, Jigisha Parikh, Pravakar Mohanty, Thermal degradation and Kinetic study for different waste/ rejected plastic materials, **Korean Journal of Chemical Engineering**, 30(3), 626-633, 2013.

ISSN No.: 0256-1115

**IF-1.059 (2012)**

19. Chakrabarti, U.K., Parikh, Jigisha K., A societal risk study for transportation of class-3 hazmats -- A case of Indian state highways. **Process Safety and Environmental Protection**, 91(4), 275-284, 2013.

ISSN No.: 0957-5820

**IF-1.495 (2012)**

20. Chakrabarti, U. K., Parikh, Jigisha K., Applying HAZAN methodology to hazmat transportation risk assessment. **Process Safety and Environmental Protection**, 90, 368-375, 2012. ISSN No.: 0957-5820

**IF-1.495 (2012)**

### **2011-12**

21. Namjoshi S. A, Rao V. J, Parikh J. K and Channiwala S.A., Micro and Macro Level Thermal Decomposition Studies of Newspaper Waste, **International Journal of Emerging Technology and Advanced Engineering**, 2(7), 313-320, 2012.

ISSN No. 2250-2459

IF-NA

22. Meghal A. Desai, Jigisha Parikh, Microwave assisted extraction of essential oil from *Cymbopogon flexuosus* (Steud.) Wats.: A parametric and comparative study, **Separation Science and Technology**, 47, 1963–1970, 2012.

ISSN No.: 0149-6395

**IF-1.088 (2011)**

23. Meghal A. Desai, Jigisha K. Parikh, Hydrotropic extraction of citral from *Cymbopogon flexuosus* (Steud.) Wats., **Industrial & Engineering Chemistry Research**, 51, 3750–3757, 2012. ISSN No.: 0888-5885

**IF-2.237 (2011)**

24. Kiran Pawar, Meghal A. Desai, Jigisha Parikh, Minimum Hydrotrope Concentration Behavior of Aqueous Solution of Sodium Salicylate in Presence of Additives, **Journal of Dispersion Science and Technology**, 33, 1746–1751, 2012.

ISSN No.: 0193-2691

**IF-0.56 (2011)**

25. Raj Arora, Jigisha Parikh, Kiran Prajapati, Kinetic study of Hydrolysis Reaction for Meta phenoxy benzyl acetal, **International Journal of Chemical and Environmental Engineering Systems (IJCEES)**, 2 (1), 1-7, 2011.

ISSN No.: 0976-3716

IF: NA

26. U K Chakrabarti, Jigisha Parikh, Class-2 Hazmat Transportation Consequence Assessment on Surrounding Population, **Journal of Loss Prevention in the Process Industries**, 24(6), 758-766, 2011. ISSN No.: 0950-4230

**IF-1.15 (2012)**

27. U K Chakrabarti, Jigisha Parikh, Route Evaluation for Hazmat Transportation based on Total Risk –a case of Indian State Highways, **Journal of Loss Prevention in the Process Industries**, 24 (5), 524-530, 2011. ISSN No.: 0950-4230 **IF-1.15 (2012)**

**2010-11**

28. Parekh Paresh, Varade Dharmesh, Bahadur Pratap, Parikh Jigisha, Anionic - Cationic Mixed Surfactant Systems: Micellar interaction of sodium dodecyl trioxyethylene sulfate with cationic gemini surfactants, **Colloids and Surfaces A: Physicochemical and Engineering Aspects**, 385, 111-120, 2011.  
ISSN No.: 0927-7757 **IF-2.24 (2011)**
29. Ankur Raval, Jigisha Parikh, Chhaya Engineer, Mechanism and in-vitro release kinetic study of Sirolimus from Biodegradable Polymeric Matrix Coated Cardiovascular Stent, **Industrial & Engineering Chemistry Research**, 50 (16), pp 9539–9549, 2011.  
ISSN No.: 0888-5885 **IF: 2.46 (2011)**
30. U K Chakrabarti, Jigisha Parikh, Route Risk Evaluation on Class-2 Hazmat Transportation, **Process Safety and Environmental Protection**, 89 (4), 248-260, 2011.  
ISSN No.: 0957-5820 **IF-1.495 (2012)**
31. Prajapati Dhiren P., Desai Meghal A., Parikh Jigisha K., Fractional Factorial Design for Optimization of Extraction of Essential Oil from *Cymbopogon winterianus* by Hydrodistillation, **Res. J. Chem. Environ.**, 15 (2), 903-908, 2011.  
ISSN No.:2278-4527 **IF: 0.379 (2011)**
32. Parikh, J. K. and Desai, M.A., Hydrodistillation of Essential Oil from *Cymbopogon flexuosus*, **International Journal of Food Engineering**, 7, No. 1, 2011.  
ISSN No.: 1556-3758 **IF: 0.463 (2011)**
33. Niren Pathak, Jigisha Parikh, Textile Wastewater Treatment Using UF Hollow Fiber Based Submerged Membrane Bioreactor (SMBR), **Environment Technology**, 32 (11), 1247-1257, 2011. ISSN No.: 0959-3330 **IF: 1.6 (2012)**
34. Pravakar Mohanty, Jigisha Parikh, Pant K. K., Sharma D. K., Liquid fuel production from syngas using bifunctional CuO-CoO-Cr<sub>2</sub>O<sub>3</sub> catalyst mixed with MFI zeolite, **Fuel Processing Technology**, 92, 600-608, 2011.  
ISSN No. 0378-3820 **IF: 2.816 (2012)**

35. Chhaya Engineer, Jigisha Parikh, Ankur Raval, Effect of Copolymer Ratio on Hydrolytic Degradation of Poly Lactide-co-Glycolide from Drug Eluting Coronary Stents, **Chemical Engineering Research and Design**, 89, 328-334, 2011.

ISSN No.: 0263-8762

IF: 1.927 (2012)

36. Meghal A. Desai and Jigisha Parikh, Extraction of Natural Products using Microwave as a Heat Source: A Review, **Separation and Purification Reviews**, 39:1-32, 2010.

ISSN No.: 1542-2119

IF: 3.154 (2012)

37. Ankur Raval, Jigisha Parikh, Chhaya Engineer, Dexamethasone Eluting Biodegradable Polymeric Matrix Coated Stent for Intravascular Drug Delivery, **Chemical Engineering Research and Design**, 88, 1479-84, 2010.

ISSN No.: 0263-8762

IF: 1.927 (2012)

#### 2009-10

38. Kiran Prajapati, Raj Arora, Jigisha Parikh, Reaction Kinetics and Operation in a Packed Bed Reactive Distillation Column - Condensation Reaction of 3-Bromo Benzaldehyde, **International Review of Chemical Engineering**, 2 (4), 2010.

ISSN No. 2035-1755

IF: NA

39. Niren Pathak, Jigisha Parikh, Performance evaluation of UF hollow fibre based submerged membrane bioreactor (SMBR) treating textile wastewater, **International Journal of Chemical and Environmental Engineering**, 1(1), 22-31, 2010.

ISSN No.: 0976-3716

IF: NA

40. Ankur Raval, Jigisha Parikh, Chhaya Engineer, Mechanism of Controlled Release Kinetics from Medical Devices, **Brazilian Journal of Chemical Engineering**, 27(02), 211 - 225, 2010. ISSN No.: 0104-6632

IF: 0.64 (2011)

41. U K Chakrabarti, Jigisha Parikh, Capacity Building for Hazmat Transport Emergency Preparedness: 'Hotspot Impact Zone' Mapping from Flammable and Toxic Releases, **International Journal of Environmental Science and Engineering**, 2:1, 2010.

#### Upto 2008-09

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