

Jigisha K Parikh

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,562
citations

186265

28
h-index

197818

49
g-index

62
all docs

62
docs citations

62
times ranked

2928
citing authors

#	ARTICLE	IF	CITATIONS
1	A correlation for calculating HHV from proximate analysis of solid fuels. <i>Fuel</i> , 2005, 84, 487-494.	6.4	633
2	A correlation for calculating elemental composition from proximate analysis of biomass materials. <i>Fuel</i> , 2007, 86, 1710-1719.	6.4	201
3	Synergism studies on alumina-supported copper-nickel catalysts towards furfural and 5-hydroxymethylfurfural hydrogenation. <i>Journal of Molecular Catalysis A</i> , 2017, 426, 244-256.	4.8	121
4	A versatile bi-metallic copper-cobalt catalyst for liquid phase hydrogenation of furfural to 2-methylfuran. <i>RSC Advances</i> , 2016, 6, 1649-1658.	3.6	94
5	Extraction of Natural Products Using Microwaves as a Heat Source. <i>Separation and Purification Reviews</i> , 2010, 39, 1-32.	5.5	85
6	Cr-free Co-Cu/SBA-15 catalysts for hydrogenation of biomass-derived α , β -unsaturated aldehyde to alcohol. <i>Chinese Journal of Catalysis</i> , 2015, 36, 933-942.	14.0	71
7	Mechanism and in Vitro Release Kinetic Study of Sirolimus from a Biodegradable Polymeric Matrix Coated Cardiovascular Stent. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 9539-9549.	3.7	60
8	Microwave assisted extraction of essential oil from the leaves of Palmarosa: Multi-response optimization and predictive modelling. <i>Industrial Crops and Products</i> , 2016, 86, 311-319.	5.2	59
9	Synthesis of green fuels from biogenic waste through thermochemical route - The role of heterogeneous catalyst: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 38, 131-153.	16.4	56
10	Optimization and Kinetic Studies on Hydrogenation of Furfural to Furfuryl Alcohol over SBA-15 Supported Bimetallic Copper-Cobalt Catalyst. <i>Catalysis Letters</i> , 2015, 145, 816-823.	2.6	55
11	Studies on Surfactant-Ionic Liquid Interaction on Clouding Behaviour and Evaluation of Thermodynamic Parameters. <i>Journal of Surfactants and Detergents</i> , 2013, 16, 547-557.	2.1	53
12	Extraction of Essential Oil from Leaves of Lemongrass Using Microwave Radiation: Optimization, Comparative, Kinetic, and Biological Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 421-431.	6.7	53
13	Copper-cobalt catalyzed liquid phase hydrogenation of furfural to 2-methylfuran: An optimization, kinetics and reaction mechanism study. <i>Chemical Engineering Research and Design</i> , 2018, 132, 313-324.	5.6	47
14	Modelling and optimization studies on extraction of lemongrass oil from <i>Cymbopogon flexuosus</i> (Steud.) Wats. <i>Chemical Engineering Research and Design</i> , 2014, 92, 793-803.	5.6	45
15	Selective Hydrogenation of Furfural to Tetrahydrofurfuryl Alcohol Using Supported Nickel-Cobalt Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 16138-16152.	3.7	45
16	Influence of supports for selective production of 2,5-dimethylfuran via bimetallic copper-cobalt catalyzed 5-hydroxymethylfurfural hydrogenolysis. <i>Chinese Journal of Catalysis</i> , 2017, 38, 699-709.	14.0	44
17	Clouding Behavior and Thermodynamic Study of Nonionic Surfactants in Presence of Additives. <i>Journal of Dispersion Science and Technology</i> , 2013, 34, 1392-1398.	2.4	40
18	A greener approach towards isolating clove oil from buds of <i>Syzygium aromaticum</i> using microwave radiation. <i>Industrial Crops and Products</i> , 2018, 112, 626-632.	5.2	40

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19	Applying HAZAN methodology to hazmat transportation risk assessment. Chemical Engineering Research and Design, 2012, 90, 368-375.	5.6	36
20	Hydrotropic Extraction of Citral from <i>Cymbopogon flexuosus</i> (Steud.) Wats.. Industrial & Engineering Chemistry Research, 2012, 51, 3750-3757.	3.7	36
21	Ultrasound Assisted Hydrotropic Extraction: A Greener Approach for the Isolation of Geraniol from the Leaves of <i>Cymbopogon martinii</i> . ACS Sustainable Chemistry and Engineering, 2018, 6, 3215-3224.	6.7	35
22	Route risk evaluation on class-2 hazmat transportation. Chemical Engineering Research and Design, 2011, 89, 248-260.	5.6	34
23	Sono hydrodistillation for isolation of citronella oil: A symbiotic effect of sonication and hydrodistillation towards energy efficiency and environment friendliness. Ultrasonics Sonochemistry, 2018, 49, 145-153.	8.2	32
24	Effect of copolymer ratio on hydrolytic degradation of poly(lactide-co-glycolide) from drug eluting coronary stents. Chemical Engineering Research and Design, 2011, 89, 328-334.	5.6	31
25	Microwave Assisted Extraction of Essential Oil From <i>Cymbopogon Flexuosus</i> (Steud.) Wats.: A Parametric and Comparative Study. Separation Science and Technology, 2012, 47, 1963-1970.	2.5	30
26	Mixed system of ionic liquid and non-ionic surfactants in aqueous media: Surface and thermodynamic properties. Journal of Chemical Thermodynamics, 2014, 74, 184-192.	2.0	30
27	Route evaluation for hazmat transportation based on total risk – A case of Indian State Highways. Journal of Loss Prevention in the Process Industries, 2011, 24, 524-530.	3.3	29
28	Hydrodistillation of Essential Oil from <i>Cymbopogon flexuosus</i> . International Journal of Food Engineering, 2011, 7, .	1.5	28
29	A societal risk study for transportation of class-3 hazmats – A case of Indian state highways. Chemical Engineering Research and Design, 2013, 91, 275-284.	5.6	28
30	Optimization Studies and Chemical Kinetics of Silica Sulfuric Acid-Catalyzed Biodiesel Synthesis from Waste Cooking Oil. Bioenergy Research, 2014, 7, 206-216.	3.9	26
31	Unravelling synergetic interaction over tandem Cu-ZnO-ZrO ₂ /hierarchical ZSM5 catalyst for CO ₂ hydrogenation to methanol and DME. Fuel, 2022, 318, 123641.	6.4	25
32	Highly efficient micellar extraction of toxic picric acid into novel ionic liquid: Effect of parameters, solubilization isotherm, evaluation of thermodynamics and design parameters. Journal of Hazardous Materials, 2015, 300, 338-346.	12.4	24
33	Biodiesel synthesis from acid oil over large pore sulfonic acid-modified mesostructured SBA-15: Process optimization and reaction kinetics. Catalysis Today, 2014, 237, 29-37.	4.4	23
34	Unraveling the solubilization and cytotoxicity study of poorly water-soluble anti-inflammatory drug in aqueous Gemini surfactants solution with physicochemical characterization and simulation study. Colloids and Surfaces B: Biointerfaces, 2019, 179, 437-444.	5.0	23
35	Sonohydrodistillation: Innovative approach for isolation of essential oil from the bark of cinnamon. Industrial Crops and Products, 2019, 142, 111838.	5.2	21
36	Micellar transition (ellipsoidal to ULV) induced in aqueous Gemini surfactant (12-2-12) solution as a function of additive concentration and temperature using experimental and theoretical study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 227-236.	4.7	18

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37	Microwave intensified extraction: A holistic approach for extraction of citronella oil and phenolic compounds. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 146, 107694.	3.6	18
38	A microwave assisted one pot synthesis of novel ammonium based dicationic ionic liquids. <i>RSC Advances</i> , 2015, 5, 12139-12143.	3.6	17
39	Synergism between ionic liquid and ultrasound for greener extraction of geraniol: Optimization using different statistical tools, comparison and prediction. <i>Chemical Engineering Research and Design</i> , 2018, 134, 162-171.	5.6	17
40	Fatty acid methyl ester production from acid oil using silica sulfuric acid: Process optimization and reaction kinetics. <i>Chemical Papers</i> , 2014, 68, .	2.2	16
41	Isolation of Essential Oil from the Leaves of <i>Cymbopogon martinii</i> using Hydrodistillation: Effect on Yield of Essential Oil, Yield of Geraniol and Antimicrobial Activity. <i>Journal of Essential Oil-bearing Plants: JEOP</i> , 2016, 19, 1943-1956.	1.9	16
42	Dexamethasone eluting biodegradable polymeric matrix coated stent for intravascular drug delivery. <i>Chemical Engineering Research and Design</i> , 2010, 88, 1479-1484.	5.6	14
43	Microstructural micellar transition in bile salt-ionic liquid mixed systems in water: a DLS and SANS study. <i>RSC Advances</i> , 2016, 6, 108488-108497.	3.6	14
44	Class-2 hazmat transportation consequence assessment on surrounding population. <i>Journal of Loss Prevention in the Process Industries</i> , 2011, 24, 758-766.	3.3	13
45	Use of sulfonic acid-functionalized silica as catalyst for esterification of free fatty acids (FFA) in acid oil for biodiesel production: an optimization study. <i>Research on Chemical Intermediates</i> , 2015, 41, 1035-1051.	2.7	13
46	Determination of thermodynamics and design parameters for ionic liquid-induced cloud point extraction of Coralene red dye. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 589-598.	3.5	12
47	Improved hydrodistillation process using amphiphilic compounds for extraction of essential oil from java citronella grass. <i>Chemical Papers</i> , 2020, 74, 145-156.	2.2	12
48	Thermal degradation and kinetic study for different waste/rejected plastic materials. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 626-633.	2.7	10
49	Effect of amphiphilic and non-amphiphilic polymers on micellar behaviour of nonionic surfactant Triton X-100. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 481, 100-107.	4.7	10
50	Crystallization study and morphology behaviour of calcium carbonate crystals in aqueous Surfactant-Pluronics® prototype. <i>Journal of Materials Research and Technology</i> , 2018, 7, 508-514.	5.8	10
51	Clouding Behavior of Ethylene Oxide-Propylene Oxide Block Copolymer P85: The Effect of Additives. <i>Journal of Dispersion Science and Technology</i> , 2006, 27, 259-263.	2.4	8
52	Optimization and Reaction Kinetics Studies on Copper-Cobalt Catalyzed Liquid Phase Hydrogenation of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran. <i>International Journal of Chemical Reactor Engineering</i> , 2018, 16, .	1.1	8
53	Surface activity and antimicrobial performance of synthesized gemini surfactant and silver nanoparticles loaded gemini surfactants integrated with microscopy and scattering investigation. <i>Emergent Materials</i> , 2020, 3, 213-222.	5.7	8
54	Enhanced separation of toxic Blue BG dye by cloud point extraction with IL as an additive: Effect of parameters, solubilization isotherm and evaluation of thermodynamics and design parameters. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 1365-1371.	6.7	7

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55	Intensified approach towards isolation of cinnamon oil using microwave radiation: Parametric, optimization and comparative studies. <i>Industrial Crops and Products</i> , 2021, 173, 114088.	5.2	7
56	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. <i>Journal of Loss Prevention in the Process Industries</i> , 2013, 26, 941-947.	3.3	6
57	Separation of toxic coralene red dye using ionic liquid with triton X-114. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 692-699.	2.3	5
58	Minimum Hydrotrope Concentration Behavior of Aqueous Solution of Sodium Salicylate in Presence of Additives. <i>Journal of Dispersion Science and Technology</i> , 2012, 33, 1746-1751.	2.4	4
59	Influence of Surfynol® 104 on aggregation behaviour of Triton X-100 micelles. <i>Journal of Molecular Liquids</i> , 2021, 332, 115878.	4.9	3
60	A Novel SBA-15/H-ZSM-5 Composite Catalyst for Conversion of Furfuryl Alcohol to Ethyl Levulinate. <i>Waste and Biomass Valorization</i> , 2023, 14, 609-618.	3.4	2
61	Parametric Optimization and Thermo-dynamic Studies on the Influence of Electrolytes on Sodium Salicylate in Aqueous Solution. <i>Tenside, Surfactants, Detergents</i> , 2013, 50, 289-296.	1.2	1
62	Salt additive extraction of cinnamon oil using microwave radiation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1126, 012021.	0.6	0