

Amarshinh Jadhav

List of Publications by Year in descending order

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149
papers

4,405
citations

126907

33
h-index

128289

60
g-index

156
all docs

156
docs citations

156
times ranked

4978
citing authors

#	ARTICLE	IF	CITATIONS
1	Pharmaceutical Industry Wastewater: Review of the Technologies for Water Treatment and Reuse. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 11571-11592.	3.7	586
2	Arsenic and fluoride contaminated groundwaters: A review of current technologies for contaminants removal. <i>Journal of Environmental Management</i> , 2015, 162, 306-325.	7.8	427
3	Biomass derived chemicals: Environmentally benign process for oxidation of 5-hydroxymethylfurfural to 2,5-diformylfuran by using nano-fibrous Ag-OMS-2-catalyst. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 293-301.	20.2	146
4	Synergism of Clay and Heteropoly Acids as Nano-Catalysts for the Development of Green Processes with Potential Industrial Applications. <i>Catalysis Surveys From Asia</i> , 2005, 9, 117-137.	2.6	126
5	Biobased Green Process: Selective Hydrogenation of 5-Hydroxymethylfurfural to 2,5-Dimethyl Furan under Mild Conditions Using Pd-Cs _{2.5} H _{0.5} PW ₁₂ O ₄₀ /K-10 Clay. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4113-4123.	6.7	105
6	Magnetically separable sulfated zirconia as highly active acidic catalysts for selective synthesis of ethyl levulinate from furfuryl alcohol. <i>Green Chemistry</i> , 2017, 19, 963-976.	9.0	87
7	The production of fuels and chemicals in the new world: critical analysis of the choice between crude oil and biomass vis-à-vis sustainability and the environment. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 1757-1774.	4.1	86
8	Synthesis and Characterization of Sulfonated Carbon-Based Graphene Oxide Monolith by Solvothermal Carbonization for Esterification and Unsymmetrical Ether Formation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1963-1973.	6.7	84
9	Development of a green process for poly- α -olefin based lubricants. <i>Green Chemistry</i> , 2002, 4, 528-540.	9.0	76
10	Kinetics of the n-Butoxylation of p-Chloronitrobenzene under Liquid-Liquid Phase Transfer Catalysis. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 2245-2253.	3.7	73
11	A green process for glycerol valorization to glycerol carbonate over heterogeneous hydrotalcite catalyst. <i>Catalysis Today</i> , 2014, 237, 47-53.	4.4	73
12	Hydrogenolysis of Glycerol to 1,2-Propanediol over Nano-Fibrous Ag-OMS-2 Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 1549-1562.	3.7	66
13	Selective Hydrogenation of α,β -Unsaturated Aldehydes and Ketones using Novel Manganese Oxide and Platinum Supported on Manganese Oxide Octahedral Molecular Sieves as Catalysts. <i>ChemCatChem</i> , 2013, 5, 506-512.	3.7	62
14	Cascade Engineered Synthesis of γ -Valerolactone, 1,4-Pentanediol, and 2-Methyltetrahydrofuran from Levulinic Acid Using Pd-Cu/ZrO ₂ Catalyst in Water as Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2619-2630.	6.7	61
15	Synergism between microwave irradiation and enzyme catalysis in transesterification of ethyl-3-phenylpropanoate with n-butanol. <i>Bioresource Technology</i> , 2012, 109, 1-6.	9.6	57
16	Isomerization of Citronellal to Isopulegol Using Eclectically Engineered Sulfated Zirconia-Carbon Molecular Sieve Composite Catalysts, UDCaT-2. <i>Langmuir</i> , 2000, 16, 4072-4079.	3.5	55
17	Novel Efficient Mesoporous Solid Acid Catalyst UDCaT-4: γ -Dehydration of 2-Propanol and Alkylation of Mesitylene. <i>Langmuir</i> , 2004, 20, 11607-11619.	3.5	55
18	Aldol condensation of benzaldehyde with heptanal to jasminaldehyde over novel Mg-Al mixed oxide on hexagonal mesoporous silica. <i>Journal of Molecular Catalysis A</i> , 2012, 355, 142-154.	4.8	55

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19	Graphene oxide and functionalized multi walled carbon nanotubes as epoxy curing agents: a novel synthetic approach to nanocomposites containing active nanostructured fillers. <i>RSC Advances</i> , 2014, 4, 49264-49272.	3.6	51
20	Arsenic Removal from Natural Waters by Adsorption or Ion Exchange: An Environmental Sustainability Assessment. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 18920-18927.	3.7	50
21	Ni ²⁺ -Cu and Ni ²⁺ -Co Supported on La ³⁺ -Mg Based Metal Oxides Prepared by Coprecipitation and Impregnation for Superior Hydrogen Production via Steam Reforming of Glycerol. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4785-4797.	3.7	49
22	Rapid In Situ Encapsulation of Laccase into Metal-Organic Framework Support (ZIF-8) under Biocompatible Conditions. <i>ChemistrySelect</i> , 2018, 3, 4669-4675.	1.5	46
23	Transesterification of Edible and Nonedible Vegetable Oils with Alcohols over Heteropolyacids Supported on Acid-Treated Clay. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 9408-9415.	3.7	45
24	Kinetics and Mechanism of Selective Monoacylation of Mesitylene. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 5565-5575.	3.7	42
25	Insight into microwave irradiation and enzyme catalysis in enantioselective resolution of RS ₂ (±) Tj ETQq1 1 0.784314 rgBT /Overlock	3.2	42
26	Selective glycerolysis of urea to glycerol carbonate using combustion synthesized magnesium oxide as catalyst. <i>Catalysis Today</i> , 2018, 309, 153-160.	4.4	40
27	Claisen-Schmidt Condensation using Green Catalytic Processes: A Critical Review. <i>ChemistrySelect</i> , 2020, 5, 9059-9085.	1.5	40
28	Title is missing!. <i>Catalysis Letters</i> , 1999, 62, 49-52.	2.6	39
29	Prediction of Liquid-Liquid Equilibria for Biofuel Applications by Quantum Chemical Calculations Using the Cosmo-SAC Method. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 13066-13075.	3.7	39
30	Green Synthesis of Furfural Acetone by Solvent-Free Aldol Condensation of Furfural with Acetone over La ₂ O ₃ -MgO Mixed Oxide Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 16096-16105.	3.7	38
31	Novel aluminium exchanged dodecatungstophosphoric acid supported on K-10 clay as catalyst: benzoylation of diphenyl oxide with benzoic anhydride. <i>RSC Advances</i> , 2016, 6, 49091-49100.	3.6	37
32	Aldol Condensation of 5-Hydroxymethylfurfural to Fuel Precursor over Novel Aluminum Exchanged-DTP@ZIF-8. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16215-16224.	6.7	37
33	Synergism of microwave irradiation and enzyme catalysis in synthesis of isoniazid. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 964-970.	3.2	34
34	Selective synthesis of natural benzaldehyde by hydrolysis of cinnamaldehyde using novel hydrotalcite catalyst. <i>Catalysis Today</i> , 2013, 207, 162-169.	4.4	33
35	Selective Synthesis of Hydrocinnamaldehyde over Bimetallic Ni-Cu Nanocatalyst Supported on Graphene Oxide. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 9083-9093.	3.7	31
36	Methanol economy and net zero emissions: critical analysis of catalytic processes, reactors and technologies. <i>Green Chemistry</i> , 2021, 23, 8361-8405.	9.0	31

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37	Synthesis of Geraniol Esters in a Continuous-Flow Packed-Bed Reactor of Immobilized Lipase: Optimization of Process Parameters and Kinetic Modeling. <i>Applied Biochemistry and Biotechnology</i> , 2018, 184, 630-643.	2.9	30
38	Green etherification of bioglycerol with 1-phenyl ethanol over supported heteropolyacid. <i>Clean Technologies and Environmental Policy</i> , 2012, 14, 85-95.	4.1	29
39	La ³⁺ /Mg mixed oxide as a highly basic water resistant catalyst for utilization of CO ₂ in the synthesis of quinazoline-2,4(1H,3H)-dione. <i>RSC Advances</i> , 2016, 6, 111079-111089.	3.6	29
40	Single-Step Hydrogenolysis of Furfural to 1,2-Pentanediol Using a Bifunctional Rh/OMS-2 Catalyst. <i>ACS Omega</i> , 2019, 4, 1201-1214.	3.5	29
41	Synthesis of carvacrol by Friedel-Crafts alkylation of o-cresol with isopropanol using superacidic catalyst UDCaT-5. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 1499-1508.	3.2	28
42	Kinetic Modeling and Statistical Optimization of Lipase Catalyzed Enantioselective Resolution of (R,S)-2-pentanol. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 12975-12983.	3.7	28
43	Enantioselective Enzymatic Hydrolysis of (R)-Mandelonitrile to (R)-Mandelamide by Nitrile Hydratase Immobilized on Poly(vinyl alcohol)/Chitosan-Glutaraldehyde Support. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 7986-7991.	3.7	28
44	Novel Mesoporous Solid Superacidic Catalysts: Activity and Selectivity in the Synthesis of Thymol by Isopropylation of m-Cresol with 2-Propanol over UDCaT-4, -5, and -6. <i>Journal of Physical Chemistry A</i> , 2005, 109, 11080-11088.	2.5	27
45	Optimization and kinetic modeling of lipase catalyzed enantioselective N-acetylation of (±)-Tyrosine. <i>Biotechnology</i> , 2011, 86, 739-748.	3.2	27
46	Noble metal promoted Ni-Cu/La ₂ O ₃ -MgO catalyst for renewable and enhanced hydrogen production via steam reforming of bio-based n-butanol: effect of promotion with Pt, Ru and Pd on catalytic activity and selectivity. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 1323-1339.	4.1	26
47	Palladium Nanoparticles Supported Carbon Based Graphene Oxide Monolith as Catalyst for Sonogashira Coupling and Hydrogenation of Nitrobenzene and Alkenes. <i>ChemistrySelect</i> , 2016, 1, 3954-3965.	1.5	25
48	Heterogeneous cycloaddition of styrene oxide with carbon dioxide for synthesis of styrene carbonate using reusable lanthanum-zirconium mixed oxide as catalyst. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 345-356.	4.1	25
49	Insight into microwave irradiation and enzyme catalysis in enantioselective resolution of dl-(±)-3-phenyllactic acid. <i>Applied Microbiology and Biotechnology</i> , 2012, 96, 69-79.	3.6	24
50	Selectivity engineering of O-methylation of hydroxybenzenes with dimethyl carbonate using ionic liquid as catalyst. <i>Reaction Chemistry and Engineering</i> , 2016, 1, 330-339.	3.7	23
51	Effect of Supercritical CO ₂ as Reaction Medium for Selective Hydrogenation of Acetophenone to 1-Phenylethanol. <i>ACS Omega</i> , 2018, 3, 7124-7132.	3.5	23
52	Synergism of Microwaves and Immobilized Enzyme Catalysis in Synthesis of Adipic Acid Esters in Nonaqueous Media. <i>Synthetic Communications</i> , 2005, 35, 1699-1705.	2.1	22
53	Selective engineering using Mg-Al calcined hydrotalcite and microwave irradiation in mono-transesterification of diethyl malonate with cyclohexanol. <i>Chemical Engineering Journal</i> , 2013, 230, 547-557.	12.7	22
54	Synergism of ultrasound and solid acids in intensification of Friedel-Crafts acylation of 2-methoxynaphthalene with acetic anhydride. <i>Ultrasonics Sonochemistry</i> , 2003, 10, 135-138.	8.2	21

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55	Selectivity Engineering of Phase Transfer Catalyzed Alkylation of 2-Hydroxyacetophenone: Enhancement in Rates and Selectivity by Creation of a Third Liquid Phase. <i>Organic Process Research and Development</i> , 2005, 9, 749-756.	2.7	21
56	Microwave assisted enzyme catalysis for synthesis of n-butyl dipheyl methyl mercapto acetate in non-aqueous media. <i>Clean Technologies and Environmental Policy</i> , 2007, 9, 281-287.	4.1	21
57	Cascade engineered phase transfer catalysis: a novel concept in green chemistry. <i>Clean Technologies and Environmental Policy</i> , 2003, 6, 32-42.	4.1	20
58	Intensification of Rates and Selectivity Using Tri-liquid versus Bi-liquid Phase Transfer Catalysis: Insight into Reduction of 4-Nitro-o-xylene with Sodium Sulfide. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 2951-2961.	3.7	20
59	Synthesis of n-butyl acetamide over immobilized lipase. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 420-426.	3.2	20
60	Selectivity engineering of solid base catalyzed O-methylation of 2-naphthol with dimethyl carbonate to 2-methoxynaphthalene. <i>Catalysis Today</i> , 2013, 207, 180-190.	4.4	20
61	Comparative Studies of White-Rot Fungal Strains (<i>Trametes hirsuta</i> MTCC-1171 and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 FF Ferulic Acid. <i>ACS Omega</i> , 2018, 3, 14858-14868.	3.5	20
62	Synthesis of geranyl acetate by transesterification of geraniol with ethyl acetate over <i>Candida antarctica</i> lipase as catalyst in solvent-free system. <i>Flavour and Fragrance Journal</i> , 2019, 34, 288-293.	2.6	20
63	UDCaT-5: A Novel Mesoporous Superacid Catalyst in the Selective Synthesis of Linear Phenyldecane by the Alkylation of Benzene with 1-Dodecene. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 10803-10809.	3.7	18
64	n-Butyl levulinate synthesis using lipase catalysis: comparison of batch reactor versus continuous flow packed bed tubular microreactor. <i>Journal of Flow Chemistry</i> , 2018, 8, 97-105.	1.9	18
65	Solvothermal Synthesis of CuFe ₂ O ₄ @rGO: Efficient Catalyst for C-C Cross Coupling and Arylation Reaction under Ligand-Free Condition. <i>ChemistrySelect</i> , 2017, 2, 7150-7159.	1.5	16
66	Atom-Efficient Benzoin Condensation in Liquid-Liquid System Using Quaternary Ammonium Salts: Pseudo-Phase Transfer Catalysis. <i>Organic Process Research and Development</i> , 2012, 16, 755-763.	2.7	15
67	Novelty of Claisen-Schmidt condensation of biomass-derived furfural with acetophenone over solid super base catalyst. <i>RSC Advances</i> , 2014, 4, 63772-63778.	3.6	15
68	Cascade engineered synthesis of ethyl benzyl acetoacetate and methyl isobutyl ketone (MIBK) on novel multifunctional catalyst. <i>Journal of Molecular Catalysis A</i> , 2015, 409, 171-182.	4.8	15
69	Process intensification using immobilized enzymes for the development of white biotechnology. <i>Catalysis Science and Technology</i> , 2021, 11, 1994-2020.	4.1	15
70	Synthesis of Hydroquinone Monomethyl Ether from Hydroquinone and Methanol over Heteropolyacids Supported on Clay: Kinetics and Mechanism. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 7969-7977.	3.7	14
71	Selectivity Engineering of Cation-Exchange Resins over Inorganic Solid Acids in C-Alkylation of Guaiacol with Cyclohexene. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 3119-3127.	3.7	14
72	Solventless green synthesis of 4-O-aryloxy carbonates from aryl/alkyl-oxy propanediols and dimethyl carbonate over nano-crystalline alkali promoted alkaline earth metal oxides. <i>Catalysis Science and Technology</i> , 2013, 3, 2668.	4.1	14

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73	Microwave Assisted Enzymatic Kinetic Resolution of (±)-1-Phenyl-2-propyn-1-ol in Nonaqueous Media. <i>BioMed Research International</i> , 2014, 2014, 1-9.	1.9	14
74	Kinetics and mechanism of regioselective monoacetylation of 3-aryloxy-1,2-propandiols using immobilized <i>Candida antarctica</i> lipase. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 31, 335-342.	5.8	14
75	Microwave assisted solvent-free synthesis of n-butyl propionate by immobilized lipase as catalyst. <i>Biocatalysis and Agricultural Biotechnology</i> , 2018, 14, 264-269.	3.1	14
76	Selectivity Engineering in One Pot Synthesis of Raspberry Ketone: Crossed Aldol Condensation of p-Hydroxybenzaldehyde and Acetone and Hydrogenation over Novel Ni/Zn-La Mixed Oxide. <i>ChemistrySelect</i> , 2019, 4, 2140-2152.	1.5	14
77	Zinc-electrocatalyzed hydrogenation of furfural in near-neutral electrolytes. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2972-2984.	4.9	14
78	Novelties of Solid-Liquid Phase Transfer Catalysed Synthesis of (±)-Isopropyl-p-chlorophenyl Acetonitrile from p-Chlorophenyl Acetonitrile. <i>Organic Process Research and Development</i> , 2003, 7, 588-598.	2.7	13
79	Clean esterification of mandelic acid over Cs _{2.5} H _{0.5} PW ₁₂ O ₄₀ supported on acid treated clay. <i>Clean Technologies and Environmental Policy</i> , 2005, 7, 245-251.	4.1	13
80	Atom Economical Green Synthesis of Chloromethyl-1,3-dioxolanes from Epichlorohydrin Using Supported Heteropolyacids. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 6129-6137.	3.7	13
81	Synthesis of long alkyl chain ethers through etherification of ethylene glycol with 1-octene using heteropolyacid supported on K-10 clay. <i>Applied Catalysis A: General</i> , 2014, 477, 18-25.	4.3	13
82	Green Synthesis of Vanillyl Mandelic Acid (Sodium Salt) from Guaiacol and Sodium Glyoxylate over Novel Silica Encapsulated Magnesium Hydroxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1974-1984.	6.7	13
83	Novel Silica-Encapsulated Cu-Al Hydrotalcite Catalyst: Oxidative Decarboxylation of Vanillyl Mandelic Acid to Vanillin in Water at Atmospheric Pressure. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 12899-12908.	3.7	13
84	Green Synthesis of Veratraldehyde Using Potassium Promoted Lanthanum-Magnesium Mixed Oxide Catalyst. <i>Organic Process Research and Development</i> , 2017, 21, 1012-1020.	2.7	13
85	Graphene-Oxide-Supported SO ₃ -Functionalized Imidazolium-Based Ionic Liquid: Efficient and Recyclable Heterogeneous Catalyst for Alcoholysis and Aminolysis Reactions. <i>ChemistrySelect</i> , 2018, 3, 4547-4556.	1.5	13
86	Clean synthesis of benzylidenemalononitrile by Knoevenagel condensation of benzaldehyde and malononitrile: effect of combustion fuel on activity and selectivity of Ti-hydrotalcite and Zn-hydrotalcite catalysts. <i>Journal of Chemical Sciences</i> , 2019, 131, 1.	1.5	13
87	Chemoenzymatic Epoxidation of Limonene Using a Novel Surface-Functionalized Silica Catalyst Derived from Agricultural Waste. <i>ACS Omega</i> , 2020, 5, 22940-22950.	3.5	13
88	Synthesis and Application of Novel NiMoK/TS-1 for Selective Conversion of Fatty Acid Methyl Esters/Triglycerides to Olefins. <i>ACS Omega</i> , 2020, 5, 5061-5071.	3.5	13
89	Selective hydrogenation of 3,4-dimethoxybenzophenone in liquid phase over Pd/C catalyst in a slurry reactor. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 2157-2165.	1.7	12
90	Novelty of iron-exchanged heteropolyacid encapsulated inside ZIF-8 as an active and superior catalyst in the esterification of furfuryl alcohol and acetic acid. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1790-1802.	3.7	12

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91	Bimetallic Cu–Ni Nanometal Supported over Mesocellular Silica Foam As a Novel Catalyst for One-Pot Synthesis of Benzimidazole in DMF As a Bifunctional Reagent. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 6909-6924.	3.7	12
92	Selectivity engineering in the O- versus C-alkylation of <i>p</i> -cresol with cyclohexene over sulfated zirconia. <i>Canadian Journal of Chemical Engineering</i> , 2000, 78, 917-927.	1.7	11
93	Synergism of Low Energy Microwave Irradiation and Solid–Liquid Phase Transfer Catalysis for Selective Alkylation of Phenols to Phenolic Ethers. <i>Synthetic Communications</i> , 2004, 34, 2885-2892.	2.1	11
94	Dodecatungstophosphoric Acid Supported on Acidic Clay Catalyst for Disproportionation of Ethylbenzene in the Presence of C8 Aromatics. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 1209-1217.	3.7	11
95	Selectivity Engineered Friedel–Crafts Acylation of Guaiacol with Vinyl Acetate to Acetovanillone over Cesium-Modified Heteropolyacid Supported on K-10 Clay. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 10627-10636.	3.7	11
96	Selective mono-isopropylation of 1,3-propanediol with isopropyl alcohol using heteropoly acid supported on K-10 clay catalyst. <i>Catalysis Today</i> , 2014, 237, 54-61.	4.4	11
97	Sol–gel synthesis and characterization of defect-free alumina films and its application in the preparation of supported ultrafiltration membranes. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 77, 266-277.	2.4	11
98	Activity and selectivity of different base catalysts in synthesis of guaifenesin from guaiacol and glycidol of biomass origin. <i>Catalysis Today</i> , 2017, 291, 213-222.	4.4	11
99	Preparation of amino-functionalized silica supports for immobilization of epoxide hydrolase and cutinase: characterization and applications. <i>Journal of Porous Materials</i> , 2020, 27, 1559-1567.	2.6	10
100	Biobased process intensification in selective synthesis of γ -butyrolactone from succinic acid via synergistic palladium–copper bimetallic catalyst supported on alumina xerogel. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 683-693.	4.1	9
101	Ion-Exchange Resin Catalysis in Benign Synthesis of Perfumery Grade <i>p</i> -Cresylphenyl Acetate from <i>p</i> -Cresol and Phenylacetic Acid. <i>Organic Process Research and Development</i> , 2005, 9, 288-293.	2.7	8
102	Process intensification in methane generation during anaerobic digestion of Napier grass using supercritical carbon dioxide combined with acid hydrolysis pretreatment. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 2176-2184.	1.7	8
103	One-pot synthesis of <i>R</i> -pyridinyl ethyl acetate using tandem catalyst prepared by co-immobilization of palladium and lipase on mesoporous foam: Optimization and kinetic modeling. <i>Chirality</i> , 2017, 29, 811-823.	2.6	8
104	A Green Process for Synthesis of Geraniol Esters by Immobilized Lipase from <i>Candida Antarctica B</i> Fraction in Non-Aqueous Reaction Media: Optimization and Kinetic Modeling. <i>International Journal of Chemical Reactor Engineering</i> , 2018, 16, .	1.1	8
105	Activities of clays and ion exchange resins in the synthesis of phthalate esters. <i>Clean Technologies and Environmental Policy</i> , 2004, 6, 114-119.	4.1	7
106	Converting liability into asset: novel mesoporous zeotype from fly ash using silatrane chemistry. <i>Clean Technologies and Environmental Policy</i> , 2005, 7, 162-167.	4.1	7
107	Exploring the untapped potential of solar pretreatment for deconstruction of recalcitrant Kraft lignin in fungal biotransformation. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 579-590.	4.1	7
108	Zn- and Ti-Modified Hydrotalcites for Transesterification of Dimethyl Terephthalate with Ethylene Glycol: Effect of the Metal Oxide and Catalyst Synthesis Method. <i>ACS Omega</i> , 2020, 5, 2088-2096.	3.5	7

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109	Esterification of propanoic acid with 1,2-propanediol: catalysis by cesium exchanged heteropoly acid on K-10 clay and kinetic modelling. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 313-320.	3.7	7
110	Friedel-crafts acylation of furan using chromium-exchanged dodecatungstophosphoric acid: effect of support, mechanism and kinetic modelling. <i>Clean Technologies and Environmental Policy</i> , 2021, 23, 2429-2441.	4.1	7
111	Organic-inorganic epoxide hydrolase hybrid nanoflowers with enhanced catalytic activity: Hydrolysis of styrene oxide to 1-phenyl-1,2-ethanediol. <i>Journal of Biotechnology</i> , 2021, 341, 113-120.	3.8	7
112	Direct synthesis of dimethyl ether from CO ₂ hydrogenation over a highly active, selective and stable catalyst containing Cu/ZnO-Al ₂ O ₃ /Al ₂ Zr(10%)-SBA-15. <i>Reaction Chemistry and Engineering</i> , 2022, 7, 1391-1408.	3.7	7
113	Population balance modeling and simulation of liquid-liquid phase transfer catalyzed synthesis of mandelic acid from benzaldehyde. <i>AIChE Journal</i> , 2012, 58, 3799-3809.	3.6	6
114	Kinetic resolution of (R,S) phenyl glycidyl ether by red mung beans (<i>Vigna angularis</i>) epoxide hydrolases. <i>Biocatalysis and Agricultural Biotechnology</i> , 2017, 12, 260-265.	3.1	6
115	Green synthesis of methyl salicylate using novel sulfated iron oxide-zirconia catalyst. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 533-545.	4.1	6
116	Valorization of Bio-Oils to Fuels and Chemicals. <i>ACS Symposium Series</i> , 2021, , 29-67.	0.5	6
117	Solvent-Free Benzylolation of Glycerol by Benzyl Alcohol Using Heteropoly Acid Impregnated on K-10 Clay as Catalyst. <i>Catalysts</i> , 2021, 11, 34.	3.5	6
118	Synthesis of environmental-friendly, sustainable, and nontoxic bio-lubricants: A critical review of advances and a path forward. <i>Biofuels, Bioproducts and Biorefining</i> , 2022, 16, 1172-1195.	3.7	6
119	Ecofriendly Claisen Rearrangement of Allyl-4-tert-butylphenyl Ether Using Heteropolyacid Supported on Hexagonal Mesoporous Silica. <i>Organic Process Research and Development</i> , 2005, 9, 547-554.	2.7	5
120	Engineering Selectivity in Novel Synthesis of 3-(Phenylmethoxy)phenol from Resorcinol and Benzyl Chloride under Liquid-Liquid Phase Transfer Catalysis. <i>Organic Process Research and Development</i> , 2008, 12, 755-764.	2.7	5
121	Liquid-liquid phase-transfer catalysis for cleaner and selective etherification of p-hydroxy-biphenyl with benzyl chloride to 1,1'-biphenyl-4-(phenylmethoxy). <i>Clean Technologies and Environmental Policy</i> , 2009, 11, 163-172.	4.1	5
122	Atom-Economical Selective-Ring-Opening Reaction of Glycidol with 1-Naphthol Catalyzed by Magnesium Silicate of a Biogenic Silica Source. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 10245-10252.	3.7	5
123	Selectivity engineering in hydroxyalkoxylation of phenol by ethylene carbonate using calcined hydrotalcite. <i>Clean Technologies and Environmental Policy</i> , 2017, 19, 1413-1422.	4.1	5
124	Novel alkali-promoted hydrotalcite for selective synthesis of 2-methoxy phenyl benzoate from guaiacol and benzoic anhydride. <i>Clean Technologies and Environmental Policy</i> , 2017, 19, 1169-1180.	4.1	5
125	Superior efficacy of biocomposite membranes of chitosan with montmorillonite and kaolin vs pure chitosan for removal of Cu(II) from wastewater. <i>Journal of Chemical Sciences</i> , 2022, 134, 1.	1.5	5
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