

# Ganapati D Yadav

## List of Publications by Year in descending order

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304  
papers

10,280  
citations

34016

52  
h-index

53109

85  
g-index

309  
all docs

309  
docs citations

309  
times ranked

8735  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfated zirconia and its modified versions as promising catalysts for industrial processes. <i>Microporous and Mesoporous Materials</i> , 1999, 33, 1-48.	2.2	618
2	Pharmaceutical Industry Wastewater: Review of the Technologies for Water Treatment and Reuse. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 11571-11592.	1.8	586
3	Arsenic and fluoride contaminated groundwaters: A review of current technologies for contaminants removal. <i>Journal of Environmental Management</i> , 2015, 162, 306-325.	3.8	427
4	Heterogeneous Catalysis in Esterification Reactions: Preparation of Phenethyl Acetate and Cyclohexyl Acetate by Using a Variety of Solid Acidic Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 1994, 33, 2198-2208.	1.8	196
5	Kinetic modeling of immobilized-lipase catalyzed transesterification of n-octanol with vinyl acetate in non-aqueous media. <i>Enzyme and Microbial Technology</i> , 2003, 32, 783-789.	1.6	172
6	Steam Reforming of Methanol for Hydrogen Production: A Critical Analysis of Catalysis, Processes, and Scope. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 89-113.	1.8	151
7	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.	10.8	146
8	Preparation of a novel catalyst UDCaT-5: enhancement in activity of acid-treated zirconia—effect of treatment with chlorosulfonic acid vis-à-vis sulfuric acid. <i>Journal of Catalysis</i> , 2004, 224, 218-223.	3.1	131
9	Kinetics and mechanism of synthesis of butyl isobutyrate over immobilised lipases. <i>Biochemical Engineering Journal</i> , 2003, 16, 245-252.	1.8	128
10	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.	1.0	126
11	Synthesis of citronellol laurate in organic media catalyzed by immobilized lipases: kinetic studies. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004, 27, 113-119.	1.8	122
12	Immobilized lipase-catalysed esterification and transesterification reactions in non-aqueous media for the synthesis of tetrahydrofurfuryl butyrate: comparison and kinetic modeling. <i>Chemical Engineering Science</i> , 2004, 59, 373-383.	1.9	119
13	Enzyme-catalysed optical resolution of mandelic acid via RS(â€‘)-methyl mandelate in non-aqueous media. <i>Biochemical Engineering Journal</i> , 2004, 19, 101-107.	1.8	108
14	Biobased Green Process: Selective Hydrogenation of 5-Hydroxymethylfurfural to 2,5-Dimethyl Furan under Mild Conditions Using Pd-Cs <sub>2.5</sub> H <sub>0.5</sub> PW <sub>12</sub> O <sub>40</sub> /K-10 Clay. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4113-4123.	3.2	105
15	Selective decomposition of cumene hydroperoxide into phenol and acetone by a novel cesium substituted heteropolyacid on clay. <i>Applied Catalysis A: General</i> , 2003, 244, 341-357.	2.2	104
16	Lipase catalyzed synthesis of cinnamyl acetate via transesterification in non-aqueous medium. <i>Process Biochemistry</i> , 2012, 47, 496-502.	1.8	102
17	Kinetics of Alkylation of p-Cresol with Isobutylene Catalyzed by Sulfated Zirconia. <i>Industrial &amp; Engineering Chemistry Research</i> , 1996, 35, 721-731.	1.8	91
18	Synergism between microwave and enzyme catalysis in intensification of reactions and selectivities: transesterification of methyl acetoacetate with alcohols. <i>Journal of Molecular Catalysis A</i> , 2004, 223, 51-56.	4.8	90

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19	Synthesis of ethyl levulinate as fuel additives using heterogeneous solid superacidic catalysts: Efficacy and kinetic modeling. <i>Chemical Engineering Journal</i> , 2014, 243, 556-563.	6.6	90
20	Kinetic Modeling of Immobilized Lipase Catalysis in Synthesis of <i>n</i> -Butyl Levulinate. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 3358-3363.	1.8	89
21	Heteropolyacid supported on montmorillonite catalyst for dehydration of dilute bio-ethanol. <i>Applied Clay Science</i> , 2011, 53, 263-271.	2.6	87
22	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.	4.6	87
23	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.	2.1	86
24	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.	3.2	84
25	Alkylation of phenol with methyl-tert-butyl ether and tert-butanol over solid acids: efficacies of clay-based catalysts. <i>Applied Catalysis A: General</i> , 2002, 236, 129-147.	2.2	83
26	Synthesis of reusable lipases by immobilization on hexagonal mesoporous silica and encapsulation in calcium alginate: Transesterification in non-aqueous medium. <i>Microporous and Mesoporous Materials</i> , 2005, 86, 215-222.	2.2	82
27	Perspective of dimethyl ether as fuel: Part I. Catalysis. <i>Journal of CO2 Utilization</i> , 2019, 32, 299-320.	3.3	81
28	Enzymatic synthesis of perlauric acid using Novozym 435. <i>Biochemical Engineering Journal</i> , 2002, 10, 93-101.	1.8	80
29	Development of a green process for poly- $\alpha$ -olefin based lubricants. <i>Green Chemistry</i> , 2002, 4, 528-540.	4.6	76
30	Inversion of the relative reactivities and selectivities of benzyl chloride and benzyl alcohol in friedel-crafts alkylation with toluene using different solid acid catalysts: An adsorption related phenomenon. <i>Tetrahedron Letters</i> , 1993, 34, 529-532.	0.7	75
31	Novelties of synthesis of acetoveratrone using heteropoly acid supported on hexagonal mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2003, 63, 85-96.	2.2	74
32	Novel synthesis of Ru/OMS catalyst by solvent-free method: Selective hydrogenation of levulinic acid to $\gamma$ -valerolactone in aqueous medium and kinetic modelling. <i>Chemical Engineering Journal</i> , 2018, 334, 2488-2499.	6.6	74
33	Kinetics of the <i>n</i> -Butoxylation of <i>p</i> -Chloronitrobenzene under Liquid-Liquid Phase Transfer Catalysis. <i>Industrial &amp; Engineering Chemistry Research</i> , 1999, 38, 2245-2253.	1.8	73
34	A green process for glycerol valorization to glycerol carbonate over heterogeneous hydrotalcite catalyst. <i>Catalysis Today</i> , 2014, 237, 47-53.	2.2	73
35	Kinetic and Mechanistic Investigation of Microwave-Assisted Lipase Catalyzed Synthesis of Citronellyl Acetate. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 7915-7922.	1.8	69
36	Hydrogenolysis of Glycerol to 1,2-Propanediol over Nano-Fibrous Ag-OMS-2 Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 1549-1562.	1.8	66

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37	Microwave assisted lipase catalyzed synthesis of isoamyl myristate in solvent-free system. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 83, 16-22.	1.8	64
38	Selective Hydrogenation of $\alpha,\beta$ -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.	1.8	62
39	Hybrid nanostructured coatings for corrosion protection of base metals: a sustainability perspective. <i>Materials Research Express</i> , 2015, 2, 032001.	0.8	62
40	Dry reforming of methane for syngas production: A review and assessment of catalyst development and efficacy. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100002.	1.3	62
41	Immobilized lipase-catalysed synthesis of cinnamyl laurate in non-aqueous media. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 57, 34-39.	1.8	61
42	Cascade Engineered Synthesis of $\beta$ -Valerolactone, 1,4-Pentanediol, and 2-Methyltetrahydrofuran from Levulinic Acid Using Pd-Cu/ZrO <sub>2</sub> Catalyst in Water as Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2619-2630.	3.2	61
43	Lipase catalyzed transesterification of methyl acetoacetate with n-butanol. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 32, 107-113.	1.8	59
44	Preparation of highly superacidic sulfated zirconia via combustion synthesis and its application in Pechmann condensation of resorcinol with ethyl acetoacetate. <i>Journal of Catalysis</i> , 2012, 292, 99-110.	3.1	58
45	Process efficacy and novelty of titania membrane prepared by polymeric sol-gel method in removal of chromium(VI) by surfactant enhanced microfiltration. <i>Chemical Engineering Journal</i> , 2014, 255, 483-491.	6.6	58
46	Cu promoted Ni-Co/hydrotalcite catalyst for improved hydrogen production in comparison with several modified Ni-based catalysts via steam reforming of ethanol. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 11321-11332.	3.8	58
47	Synergism between microwave irradiation and enzyme catalysis in transesterification of ethyl-3-phenylpropanoate with n-butanol. <i>Bioresource Technology</i> , 2012, 109, 1-6.	4.8	57
48	Isomerization of Citronellal to Isopulegol Using Eclectically Engineered Sulfated Zirconia-Carbon Molecular Sieve Composite Catalysts, UDCaT-2. <i>Langmuir</i> , 2000, 16, 4072-4079.	1.6	55
49	Novel Efficient Mesoporous Solid Acid Catalyst UDCaT-4: Dehydration of 2-Propanol and Alkylation of Mesitylene. <i>Langmuir</i> , 2004, 20, 11607-11619.	1.6	55
50	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
51	Kinetics of reaction of benzyl chloride with sodium acetate/benzoate: phase transfer catalysis in solid-liquid system. <i>Industrial &amp; Engineering Chemistry Process Design and Development</i> , 1981, 20, 385-390.	0.6	54
52	Intensification of enzymatic synthesis of propylene glycol monolaurate from 1,2-propanediol and lauric acid under microwave irradiation: Kinetics of forward and reverse reactions. <i>Enzyme and Microbial Technology</i> , 2006, 38, 814-820.	1.6	53
53	Alkylation of phenol with cyclohexene over solid acids: Insight in selectivity of O- versus C-alkylation. <i>Applied Catalysis A: General</i> , 2005, 286, 61-70.	2.2	52
54	Novelties of combustion synthesized titania ultrafiltration membrane in efficient removal of methylene blue dye from aqueous effluent. <i>Chemosphere</i> , 2014, 117, 760-765.	4.2	52

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55	Graphene oxide and functionalized multi walled carbon nanotubes as epoxy curing agents: a novel synthetic approach to nanocomposites containing active nanostructured fillers. RSC Advances, 2014, 4, 49264-49272.	1.7	51
56	Friedelâ€“Crafts benzylation of p-xylene over clay supported catalysts: novelty of cesium substituted dodecatungstophosphoric acid on K-10 clay. Applied Catalysis A: General, 2003, 240, 53-69.	2.2	50
57	Kinetics of hydrolysis of tetrahydrofurfuryl butyrate in a three phase system containing immobilized lipase from Candida antarctica. Biochemical Engineering Journal, 2004, 17, 57-63.	1.8	49
58	Niâ€“Cu and Niâ€“Co Supported on Laâ€“Mg Based Metal Oxides Prepared by Coprecipitation and Impregnation for Superior Hydrogen Production via Steam Reforming of Glycerol. Industrial & Engineering Chemistry Research, 2018, 57, 4785-4797.	1.8	49
59	Kinetics of Friedelâ€“Crafts benzylation of veratrole with benzoic anhydride using Cs <sub>2.5</sub> H <sub>0.5</sub> PW <sub>12</sub> O <sub>40</sub> /K-10 solid acid catalyst. Chemical Engineering Journal, 2015, 266, 64-73.	6.6	46
60	Rapid In Situ Encapsulation of Laccase into Metalâ€“Organic Framework Support (ZIFâ€“8) under Biocompatible Conditions. ChemistrySelect, 2018, 3, 4669-4675.	0.7	46
61	Transesterification of Edible and Nonedible Vegetable Oils with Alcohols over Heteropolyacids Supported on Acid-Treated Clay. Industrial & Engineering Chemistry Research, 2009, 48, 9408-9415.	1.8	45
62	Selective hydrogenation of acetophenone to 1-phenyl ethanol over nanofibrous Ag-OMS-2 catalysts. Catalysis Today, 2012, 198, 330-337.	2.2	45
63	Lipase catalyzed kinetic resolution of (Â±)-1-(1-naphthyl) ethanol under microwave irradiation. Journal of Molecular Catalysis B: Enzymatic, 2012, 81, 58-65.	1.8	44
64	PVA/chitosanâ€“glutaraldehyde cross-linked nitrile hydratase as reusable biocatalyst for conversion of nitriles to amides. Journal of Molecular Catalysis B: Enzymatic, 2014, 101, 115-121.	1.8	43
65	Selective hydrogenation of bio-based 5-hydroxymethyl furfural to 2,5-dimethylfuran over magnetically separable Fe-Pd/C bimetallic nanocatalyst. Molecular Catalysis, 2019, 465, 1-15.	1.0	43
66	Kinetics and Mechanism of Selective Monoacylation of Mesitylene. Industrial & Engineering Chemistry Research, 2002, 41, 5565-5575.	1.8	42
67	Insight into microwave irradiation and enzyme catalysis in enantioselective resolution of RSâ€“(Â±) Tj ETQq1 1 0.784314 rgBT /Overlo	1.6	42
68	Chitosan-based membranes preparation and applications: Challenges and opportunities. Journal of the Indian Chemical Society, 2021, 98, 100017.	1.3	42
69	Selective glycerolysis of urea to glycerol carbonate using combustion synthesized magnesium oxide as catalyst. Catalysis Today, 2018, 309, 153-160.	2.2	40
70	Claisenâ€“Schmidt Condensation using Green Catalytic Processes: A Critical Review. ChemistrySelect, 2020, 5, 9059-9085.	0.7	40
71	Title is missing!. Catalysis Letters, 1999, 62, 49-52.	1.4	39
72	Novelties of azobenzene synthesis via selective hydrogenation of nitrobenzene over nano-fibrous Ag-OMS-2 â€“ Mechanism and kinetics. Chemical Engineering Journal, 2013, 221, 500-511.	6.6	38

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73	Application of microwave assisted three phase partitioning method for purification of laccase from <i>Trametes hirsuta</i> . <i>Process Biochemistry</i> , 2018, 65, 220-227.	1.8	38
74	Green Synthesis of Furfural Acetone by Solvent-Free Aldol Condensation of Furfural with Acetone over $\text{La}_{2}\text{O}_{3}/\text{MgO}$ Mixed Oxide Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 16096-16105.	1.8	38
75	Selective Dehydration of Glycerol to Acrolein: Development of Efficient and Robust Solid Acid Catalyst MUICaT-5. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 10133-10144.	1.8	37
76	Microwave Irradiated Immobilized Lipase Catalyzed Synthesis of Alkyl Benzoate Esters by Transesterification: Mechanism and Kinetic Modeling. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 8706-8713.	1.8	37
77	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.	1.7	37
78	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.	3.2	37
79	Wastewater treatment containing methylene blue dye as pollutant using adsorption by chitosan lignin membrane: Development of membrane, characterization and kinetics of adsorption. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100263.	1.3	36
80	Synthesis of cinnamyl benzoate over novel heteropoly acid encapsulated ZIF-8. <i>Applied Catalysis A: General</i> , 2018, 560, 54-65.	2.2	35
81	Role of benzyl ether in the inversion of reactivities in Friedel-Crafts benzoylation of toluene by benzyl chloride and benzyl alcohol. <i>Tetrahedron Letters</i> , 1996, 37, 5405-5408.	0.7	34
82	Development of a Novel Mesoporous Catalyst UDCaT-6: Kinetics of Synthesis of tert-Amyl Methyl Ether (TAME) from tert-Amyl Alcohol and Methanol. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9557-9566.	1.1	34
83	Novelties of reaction in the middle liquid phase in tri-liquid phase transfer catalysis: Kinetics of selective O-alkylation of vanillin with benzyl chloride. <i>Applied Catalysis A: General</i> , 2005, 287, 267-275.	2.2	34
84	Synergism of microwave irradiation and enzyme catalysis in synthesis of isoniazid. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 964-970.	1.6	34
85	Hydrogenation of Styrene Oxide to 2-Phenyl Ethanol over Polyurea Microencapsulated Mono- and Bimetallic Nanocatalysts: Activity, Selectivity, and Kinetic Modeling. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 4027-4039.	1.8	34
86	Novelties of low energy microwave irradiation in tri-phase vis-à-vis bi-liquid phase-transfer catalysis in selective etherification of aromatic phenols. <i>Catalysis Communications</i> , 2006, 7, 325-330.	1.6	33
87	Selective synthesis of natural benzaldehyde by hydrolysis of cinnamaldehyde using novel hydrotalcite catalyst. <i>Catalysis Today</i> , 2013, 207, 162-169.	2.2	33
88	Insight into Microwave-Assisted Lipase Catalyzed Synthesis of Geranyl Cinnamate: Optimization and Kinetic Modeling. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 2035-2049.	1.4	33
89	Enzymatic synthesis of isoniazid in non-aqueous medium. <i>Enzyme and Microbial Technology</i> , 2005, 36, 217-222.	1.6	32
90	Perspective of dimethyl ether as fuel: Part II- analysis of reactor systems and industrial processes. <i>Journal of CO2 Utilization</i> , 2019, 32, 321-338.	3.3	32

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91	Insight into esterification of eugenol to eugenol benzoate using a solid super acidic modified zirconia catalyst UDCaT-5. <i>Chemical Engineering Journal</i> , 2012, 192, 146-155.	6.6	31
92	Selective Synthesis of Hydrocinnamaldehyde over Bimetallic Ni-Cu Nanocatalyst Supported on Graphene Oxide. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 9083-9093.	1.8	31
93	Methanol economy and net zero emissions: critical analysis of catalytic processes, reactors and technologies. <i>Green Chemistry</i> , 2021, 23, 8361-8405.	4.6	31
94	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.	1.4	30
95	Case study on sustainability of textile wastewater treatment plant based on lifecycle assessment approach. <i>Journal of Cleaner Production</i> , 2020, 245, 118929.	4.6	30
96	Selective <i>O</i> -Alkylation of 2-Naphthol using Phosphonium-Based Ionic Liquid as the Phase Transfer Catalyst. <i>Organic Process Research and Development</i> , 2010, 14, 722-727.	1.3	29
97	Green etherification of bioglycerol with 1-phenyl ethanol over supported heteropolyacid. <i>Clean Technologies and Environmental Policy</i> , 2012, 14, 85-95.	2.1	29
98	La-Mg mixed oxide as a highly basic water resistant catalyst for utilization of CO <sub>2</sub> in the synthesis of quinazoline-2,4(1H,3H)-dione. <i>RSC Advances</i> , 2016, 6, 111079-111089.	1.7	29
99	Synergism of microwave irradiation and enzyme catalysis in kinetic resolution of (R,S)-1-phenylethanol by cutinase from novel isolate <i>Fusarium ICT SAC1</i> . <i>Biochemical Engineering Journal</i> , 2017, 117, 121-128.	1.8	29
100	Atom economical benzylation of phenol with benzyl alcohol using 20 % ( w/w ) Cs 2.5 H 0.5 PW 12 O 40 supported on mesocellular foam silica (MCF) and its kinetics. <i>Microporous and Mesoporous Materials</i> , 2018, 263, 190-200.	2.2	29
101	Microwave assisted synthesis of 5-ethoxymethylfurfural in one pot from d-fructose by using deep eutectic solvent as catalyst under mild condition. <i>Biomass and Bioenergy</i> , 2018, 117, 38-43.	2.9	29
102	Single-Step Hydrogenolysis of Furfural to 1,2-Pentanediol Using a Bifunctional Rh/OMS-2 Catalyst. <i>ACS Omega</i> , 2019, 4, 1201-1214.	1.6	29
103	Single step synthesis of 4-hydroxybenzophenone via esterification and Fries rearrangement: Novelty of cesium substituted heteropoly acid supported on clay. <i>Journal of Molecular Catalysis A</i> , 2008, 292, 54-61.	4.8	28
104	Synthesis of carvacrol by Friedel-Crafts alkylation of <i>o</i> -Cresol with isopropanol using superacidic catalyst UDCaT-5. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 1499-1508.	1.6	28
105	Kinetic Modeling and Statistical Optimization of Lipase Catalyzed Enantioselective Resolution of (R,S)-2-pentanol. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 12975-12983.	1.8	28
106	Enantioselective Enzymatic Hydrolysis of <i>rac</i> -Mandelonitrile to <i>R</i> -Mandelamide by Nitrile Hydratase Immobilized on Poly(vinyl alcohol)/Chitosan-Glutaraldehyde Support. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 7986-7991.	1.8	28
107	Innovative catalysis in Michael addition reactions for C-X bond formation. <i>Molecular Catalysis</i> , 2020, 485, 110814.	1.0	28
108	Novel Mesoporous Solid Superacidic Catalysts: Activity and Selectivity in the Synthesis of Thymol by Isopropylation of <i>m</i> -Cresol with 2-Propanol over UDCaT-4, -5, and -6. <i>Journal of Physical Chemistry A</i> , 2005, 109, 11080-11088.	1.1	27

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109	Optimization and kinetic modeling of lipase catalyzed enantioselective N-acetylation of (R±) Thymol. <i>Biotechnology</i> , 2011, 86, 739-748.	1.6	27
110	Hydrothermal Synthesis of Cu <sub>2</sub> O <sub>4</sub> Magnetic Nanoparticles as Active and Robust Catalyst for N-arylation of Indole and Imidazole with Aryl Halide. <i>ChemistrySelect</i> , 2017, 2, 2395-2405.	0.7	27
111	Selectivity engineered phase transfer catalysis in the synthesis of fine chemicals: reactions of p-chloronitrobenzene with sodium sulphide. <i>Journal of Molecular Catalysis A</i> , 2003, 200, 117-129.	4.8	26
112	Selectivity engineering in isopropylation of benzene to cumene over cesium substituted dodecatungstophosphoric acid on K-10 clay. <i>Applied Catalysis A: General</i> , 2004, 265, 153-159.	2.2	26
113	Selective engineering in O-alkylation of m-cresol with benzyl chloride using liquid-liquid phase transfer catalysis. <i>Journal of Molecular Catalysis A</i> , 2008, 288, 33-41.	4.8	26
114	Microwave assisted process intensification of lipase catalyzed transesterification of 1,2 propanediol with dimethyl carbonate for the green synthesis of propylene carbonate: Novelty of kinetics and mechanism of consecutive reactions. <i>Chemical Engineering Journal</i> , 2015, 281, 199-208.	6.6	26
115	Carbon Dioxide Mediated Novel Synthesis of Quinazoline-2,4(1H,3H)-dione in Water. <i>Organic Process Research and Development</i> , 2016, 20, 2067-2073.	1.3	26
116	Direct synthesis of dimethyl carbonate from methanol and carbon dioxide: A thermodynamic and experimental study. <i>Journal of Supercritical Fluids</i> , 2016, 117, 98-107.	1.6	26
117	Cu <sub>2</sub> O nanoparticles supported hydrothermal carbon microspheres as catalyst for propargylamine synthesis. <i>Molecular Catalysis</i> , 2018, 451, 209-219.	1.0	26
118	Noble metal promoted Ni-Cu/La <sub>2</sub> O <sub>3</sub> -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.	2.1	26
119	Selectivity engineering in multiphase transfer catalysis in the preparation of aromatic ethers. <i>Journal of Molecular Catalysis A</i> , 2004, 223, 93-100.	4.8	25
120	Friedel-Crafts acylation of anisole with propionic anhydride over mesoporous superacid catalyst UDCA-5. <i>Microporous and Mesoporous Materials</i> , 2006, 96, 36-43.	2.2	25
121	Heteropolyacid supported on acidic clay: A novel efficient catalyst for alkylation of ethylbenzene with dilute ethanol to diethylbenzene in presence of C <sub>8</sub> aromatics. <i>Journal of Molecular Catalysis A</i> , 2008, 285, 155-161.	4.8	25
122	Selectivity engineering in the synthesis of value added chemicals: Oxidation of 1-octanol to 1-octanal over nano-fibrous Ag-Oxide catalysts. <i>Chemical Engineering Research and Design</i> , 2012, 90, 86-97.	2.7	25
123	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.	0.7	25
124	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.	2.1	25
125	Insight into microwave irradiation and enzyme catalysis in enantioselective resolution of dl-(R,S)-3-phenyllactic acid. <i>Applied Microbiology and Biotechnology</i> , 2012, 96, 69-79.	1.7	24
126	Selectivity engineering of 4-phenoxyacetophenone by acylation of diphenyl ether with ion exchange resins: modeling of catalyst deactivation and remedies. <i>Chemical Engineering Science</i> , 2003, 58, 2573-2585.	1.9	23

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127	Fundamental analysis of microwave irradiated liquid-liquid phase transfer catalysis (MILL-PTC): Simultaneous measurement of rate and exchange equilibrium constants in selective O-alkylation of p-tert-butylphenol with benzyl chloride. <i>Journal of Molecular Catalysis A</i> , 2005, 236, 54-64.	4.8	23
128	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.	1.9	23
129	One-pot synthesis of benzimidazole using DMF as a multitasking reagent in presence CuFe 2 O 4 as catalyst. <i>Catalysis Today</i> , 2018, 309, 51-60.	2.2	23
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