

Raghunath V Chaudhari

List of Publications by Year in descending order

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75
papers

2,830
citations

218381

26
h-index

182168

51
g-index

78
all docs

78
docs citations

78
times ranked

3576
citing authors

#	ARTICLE	IF	CITATIONS
1	Pt and Pd Nanoparticles Immobilized on Amine-Functionalized Zeolite: Excellent Catalysts for Hydrogenation and Heck Reactions. <i>Chemistry of Materials</i> , 2004, 16, 3714-3724.	3.2	351
2	Anchored Pd Complex in MCM-41 and MCM-48: Novel Heterogeneous Catalysts for Hydrocarboxylation of Aryl Olefins and Alcohols. <i>Journal of the American Chemical Society</i> , 2002, 124, 9692-9693.	6.6	166
3	Copper-catalyzed amination of aryl halides: single-step synthesis of triaryl amines. <i>Tetrahedron Letters</i> , 2002, 43, 7143-7146.	0.7	164
4	Aqueous phase hydrogenolysis of glycerol to 1,2-propanediol without external hydrogen addition. <i>Catalysis Today</i> , 2010, 156, 31-37.	2.2	157
5	Cu-Based Catalysts Show Low Temperature Activity for Glycerol Conversion to Lactic Acid. <i>ACS Catalysis</i> , 2011, 1, 548-551.	5.5	147
6	Lattice-Matched Bimetallic CuPd-Graphene Nanocatalysts for Facile Conversion of Biomass-Derived Polyols to Chemicals. <i>ACS Nano</i> , 2013, 7, 1309-1316.	7.3	112
7	Kinetic investigations of unusual solvent effects during Ru/C catalyzed hydrogenation of model oxygenates. <i>Journal of Catalysis</i> , 2014, 309, 174-184.	3.1	91
8	Gold Nanoparticles Assembled on Amine-Functionalized Na ⁺ Y Zeolite: A Biocompatible Surface for Enzyme Immobilization. <i>Langmuir</i> , 2003, 19, 3858-3863.	1.6	90
9	Exceptional performance of bimetallic Pt ₁ Cu ₃ /TiO ₂ nanocatalysts for oxidation of gluconic acid and glucose with O ₂ to glucaric acid. <i>Journal of Catalysis</i> , 2015, 330, 323-329.	3.1	88
10	Aqueous Phase Hydrogenation of Acetic Acid and Its Promotional Effect on <i>p</i> -Cresol Hydrodeoxygenation. <i>Energy & Fuels</i> , 2013, 27, 487-493.	2.5	76
11	Sorbitol Hydrogenolysis over Hybrid Cu/CaO-Al ₂ O ₃ Catalysts: Tunable Activity and Selectivity with Solid Base Incorporation. <i>ACS Catalysis</i> , 2015, 5, 6545-6558.	5.5	76
12	Synergistic Effects of Bimetallic PtPd/TiO ₂ Nanocatalysts in Oxidation of Glucose to Glucaric Acid: Structure Dependent Activity and Selectivity. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 2932-2945.	1.8	73
13	Oxidation of Glycerol to Dicarboxylic Acids Using Cobalt Catalysts. <i>ACS Catalysis</i> , 2016, 6, 4576-4583.	5.5	68
14	Kinetic Modeling of Aqueous-Phase Glycerol Hydrogenolysis in a Batch Slurry Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 10826-10835.	1.8	66
15	Synthesis and Dehydration Activity of Novel Lewis Acidic Ordered Mesoporous Silicate: Zr-KIT-6. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 15481-15487.	1.8	60
16	Atom Economical Aqueous-Phase Conversion (APC) of Biopolyols to Lactic Acid, Glycols, and Linear Alcohols Using Supported Metal Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1453-1462.	3.2	59
17	Vapor-phase methanol and ethanol coupling reactions on CuMgAl mixed metal oxides. <i>Applied Catalysis A: General</i> , 2013, 455, 234-246.	2.2	51
18	Ultraviolet-Visible Spectroscopy and Temperature-Programmed Techniques as Tools for Structural Characterization of Cu in CuMgAlO _x Mixed Metal Oxides. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18207-18221.	1.5	43

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19	Anisotropic growth of PtFe nanoclusters induced by lattice-mismatch: Efficient catalysts for oxidation of biopolyols to carboxylic acid derivatives. <i>Journal of Catalysis</i> , 2016, 337, 272-283.	3.1	43
20	Supercritical fluids and gas-expanded liquids as tunable media for multiphase catalytic reactions. <i>Chemical Engineering Science</i> , 2014, 115, 3-18.	1.9	40
21	Zirconium-Incorporated Mesoporous Silicates Show Remarkable Lignin Depolymerization Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7155-7164.	3.2	38
22	Multiphase Catalytic Hydrogenolysis/Hydrodeoxygenation Processes for Chemicals from Renewable Feedstocks: Kinetics, Mechanism, and Reaction Engineering. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 15226-15243.	1.8	35
23	Catalytic conversion of CO ₂ and shale gas-derived substrates into saturated carbonates and derivatives: Catalyst design, performances and reaction mechanism. <i>Journal of CO₂ Utilization</i> , 2019, 34, 115-148.	3.3	32
24	Intriguing Catalyst (CaO) Pretreatment Effects and Mechanistic Insights during Propylene Carbonate Transesterification with Methanol. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4718-4729.	3.2	31
25	Transesterification of Propylene Carbonate with Methanol Using Fe-Mn Double Metal Cyanide Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5698-5710.	3.2	31
26	Carbonylation of Alkynes, Alkenes and Alcohols using Metal Complex Catalysts. <i>Catalysis Surveys From Asia</i> , 2005, 9, 193-205.	1.0	29
27	NC palladacycles in the Heck arylation of ethylene: Synthesis, structure and their reactivity. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 683-690.	0.8	28
28	Graphene oxide stabilized Cu ₂ O for shape selective nanocatalysis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7147.	5.2	28
29	Homogeneous Catalytic Carbonylation and Hydroformylation for Synthesis of Industrial Chemicals. <i>Topics in Catalysis</i> , 2012, 55, 439-445.	1.3	26
30	Dual Function Lewis Acid Catalyzed Depolymerization of Industrial Corn Stover Lignin into Stable Monomeric Phenols. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1362-1371.	3.2	25
31	Enhanced Acid-Catalyzed Lignin Depolymerization in a Continuous Reactor with Stable Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4096-4106.	3.2	25
32	Kinetic Modeling of Sorbitol Hydrogenolysis over Bimetallic RuRe/C Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6037-6047.	3.2	24
33	Lattice distortion induced electronic coupling results in exceptional enhancement in the activity of bimetallic PtMn nanocatalysts. <i>Applied Catalysis A: General</i> , 2017, 534, 46-57.	2.2	24
34	Phase Transformed PtFe Nanocomposites Show Enhanced Catalytic Performances in Oxidation of Glycerol to Tartronic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 13157-13164.	1.8	24
35	Importance of Long-Range Noncovalent Interactions in the Regioselectivity of Rhodium-Xantphos-Catalyzed Hydroformylation. <i>Organometallics</i> , 2015, 34, 1062-1073.	1.1	23
36	Kinetic modeling of Pt/C catalyzed aqueous phase glycerol conversion with <i>in situ</i> formed hydrogen. <i>AIChE Journal</i> , 2016, 62, 1162-1173.	1.8	23

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37	Oxidation of Glucose Using Mono- and Bimetallic Catalysts under Base-Free Conditions. <i>Organic Process Research and Development</i> , 2018, 22, 1653-1662.	1.3	21
38	Isolation and characterization of an iodide bridged dimeric palladium complex in carbonylation of methanol. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 1677-1681.	0.8	18
39	New Route for the Synthesis of Propylene Glycols via Hydroformylation of Vinyl Acetate. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 9601-9608.	1.8	17
40	Catalytic Asymmetric Transfer Hydrogenation of Ketones Using [Ru(p-cymene)Cl ₂] ₂ with Chiral Amino Alcohol Ligands. <i>Catalysis Letters</i> , 2010, 138, 231-238.	1.4	17
41	Liquid-Phase Oxidation of Ethylene Glycol on Pt and Pt-Fe Catalysts for the Production of Glycolic Acid: Remarkable Bimetallic Effect and Reaction Mechanism. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18561-18568.	1.8	17
42	Kinetic modeling of carboxylation of propylene oxide to propylene carbonate using ion-exchange resin catalyst in a semi-batch slurry reactor. <i>Chemical Engineering Science</i> , 2017, 168, 189-203.	1.9	16
43	Kinetic Study of CaO-Catalyzed Transesterification of Cyclic Carbonates with Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 14977-14987.	1.8	16
44	Ossification: A new approach to immobilize metal complex catalysts' applications to carbonylation and Suzuki coupling reactions. <i>Journal of Catalysis</i> , 2006, 242, 231-238.	3.1	14
45	Kinetics of Reductive Alkylation of p-Phenylenediamine with Methyl Ethyl Ketone Using 3% Pt/Al ₂ O ₃ Catalyst in a Slurry Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 3243-3254.	1.8	14
46	Aqueous-Phase Glycerol Catalysis and Kinetics with in Situ Hydrogen Formation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11323-11333.	3.2	14
47	Effects of tunable acidity and basicity of Nb-KIT-6 catalysts on ethanol conversion: Experiments and kinetic modeling. <i>AIChE Journal</i> , 2017, 63, 2888-2899.	1.8	13
48	Ultrasound promoted asymmetric transfer hydrogenation of ketones using Ru(II)arene/amino alcohol catalyst system. <i>Ultrasonics Sonochemistry</i> , 2008, 15, 289-293.	3.8	12
49	Hydroesterification of 2-vinyl-6-methoxynaphthalene using palladium complexes containing chelating nitrogen ligands. <i>Journal of Molecular Catalysis A</i> , 2009, 307, 134-141.	4.8	12
50	Homogeneous catalytic hydroformylation of propylene in propane-expanded solvent media. <i>Chemical Engineering Science</i> , 2018, 187, 148-156.	1.9	12
51	Environmentally Benign Catalytic Hydroformylation-Oxidation Route for Naproxen Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 8480-8489.	1.8	11
52	Heterogenized copper catalysts for the amination of arylhalide: Synthesis, characterization and catalytic applications. <i>Applied Catalysis A: General</i> , 2010, 372, 73-81.	2.2	10
53	Supercritical Deoxygenation of a Model Bio-Oil Oxygenate. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 10852-10858.	1.8	10
54	Nanostructured Metal Catalysts for Selective Hydrogenation and Oxidation of Cellulosic Biomass to Chemicals. <i>Chemical Record</i> , 2019, 19, 1952-1994.	2.9	10

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55	Structurally Strained Bimetallic PtFe Nanocatalysts Show Tunable Catalytic Selectivity in Aqueous Oxidation of Bio-Polyols to Dicarboxylic Acids. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 12078-12086.	1.8	9
56	Continuous Process for the Production of Taurine from Monoethanolamine. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 13007-13015.	1.8	9
57	Rhodium complex with unsymmetrical vicinal diamine ligand: excellent catalyst for asymmetric transfer hydrogenation of ketones. <i>RSC Advances</i> , 2015, 5, 51722-51729.	1.7	8
58	Catalytic H ₂ auto transfer amination of polyols to alkyl amines in one pot using supported Ru catalysts. <i>Catalysis Today</i> , 2018, 302, 227-232.	2.2	8
59	Chemical Synthesis of Adipic Acid from Glucose and Derivatives: Challenges for Nanocatalyst Design. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18732-18754.	3.2	8
60	Biphasic Hydroformylation of 1,4-Diacetoxy-2-butene: A Kinetic Study. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 8629-8637.	1.8	7
61	Enhanced solubility of hydrogen and carbon monoxide in propane and propylene expanded liquids. <i>AIChE Journal</i> , 2018, 64, 970-980.	1.8	7
62	Kinetic modeling and mechanistic investigations of transesterification of propylene carbonate with methanol over an Fe-Mn double metal cyanide catalyst. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 101-111.	1.9	7
63	Selective Oxidation of Glycerol: A Biomass-Derived Feedstock Using the Pt-Cu Janus Catalyst for Value-Added Products. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 185-195.	1.8	7
64	Kinetics of vinylation of 4-bromoacetophenone with n-butyl acrylate using palladacycle catalyst. <i>Journal of Molecular Catalysis A</i> , 2007, 270, 144-152.	4.8	6
65	Activity and Selectivity of Base Promoted Mono and Bimetallic Catalysts for Hydrogenolysis of Xylitol and Sorbitol. <i>ACS Symposium Series</i> , 2013, , 273-285.	0.5	6
66	Enhanced hydroformylation of 1-octene in n-butane expanded solvents with Co-based complexes. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 344-352.	1.9	6
67	Modeling of hydrogenation of maleic acid in a bubble-column slurry reactor. <i>AIChE Journal</i> , 2003, 49, 3199-3212.	1.8	5
68	Hydroformylation of 1,4-Diacetoxy-2-butene Using HRh(CO)(PPh) ₃ Tethered on Alumina as a Catalyst: Kinetic Study. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 9479-9489.	1.8	5
69	Rh-Catalyzed Hydroformylation of 1,3-Butadiene and Pent-4-enal to Adipaldehyde in CO ₂ -Expanded Media. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22526-22533.	1.8	4
70	Kinetics of arylation of 3-bromo-benzophenone with n-butylacrylate using NC palladacycle catalyst. <i>Journal of Molecular Catalysis A</i> , 2009, 309, 111-116.	4.8	2
71	Enriching Propane/Propylene Mixture by Selective Propylene Hydroformylation: Economic and Environmental Impact Analyses. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5140-5146.	3.2	2
72	Lattice strained bimetallic PtPd nanocatalysts display multifunctional nature for transfer hydrogenolysis of sorbitol in base-free medium. <i>Materials Today Sustainability</i> , 2020, 10, 100047.	1.9	1

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73	Solubility of Carbon Dioxide in Carboxylation Reaction Mixtures. Industrial & Engineering Chemistry Research, 2021, 60, 8375-8385.	1.8	1
74	Hydroformylation and carbonylation processes: new trends in the synthesis of pharmaceuticals. Current Opinion in Drug Discovery & Development, 2008, 11, 820-8.	1.9	1
75	{ }Preface:Â CAMURE-6 & ISMR-5 Symposium in Pune, India. Industrial & Engineering Chemistry Research, 2007, 46, 8291-8291.	1.8	0