Bala Subramaniam

List of Publications by Year
in descending order

213 papers	6,994 citations	61687 45 h-index	90395 73 g-index
220 all docs	220 docs citations	220 times ranked	6286 citing authors

#	Article	IF	Citations
1	Building Pathways to a Sustainable Planet. ACS Sustainable Chemistry and Engineering, 2022, 10, 1-2.	3.2	1
2	Facile Production of 2,5â€Furandicarboxylic Acid via Oxidation of Industrially Sourced Crude 5â€Hydroxymethylfurfural. ChemSusChem, 2022, 15, .	3.6	6
3	Guaiacol Hydrodeoxygenation and Hydrogenation over Bimetallic Pt-M (Nb, W, Zr)/KIT-6 Catalysts with Tunable Acidity. ACS Sustainable Chemistry and Engineering, 2022, 10, 4831-4838.	3.2	16
4	<i>ACS Sustainable Chemistry & Engineering</i> Welcomes Expanded Editorial Boards with New Initiatives. ACS Sustainable Chemistry and Engineering, 2021, 9, 1-2.	3.2	2
5	Shaping Effective Practices for Incorporating Sustainability Assessment in Manuscripts Submitted to <i>ACS Sustainable Chemistry & Engineering</i>: An Initiative by the Editors. ACS Sustainable Chemistry and Engineering, 2021, 9, 3977-3978.	3.2	16
6	ACS Sustainable Chemistry & Engineering Welcomes Manuscripts on Advanced E-Waste Recycling. ACS Sustainable Chemistry and Engineering, 2021, 9, 3624-3625.	3.2	2
7	Expectations for Manuscripts Contributing to the Field on Management of Synthetic Chemicals in <i>ACS Sustainable Chemistry & Engineering</i>. ACS Sustainable Chemistry and Engineering, 2021, 9, 3376-3378.	3.2	4
8	Lab to Market: Where the Rubber Meets the Road for Sustainable Chemical Technologies. ACS Sustainable Chemistry and Engineering, 2021, 9, 2987-2989.	3.2	3
9	Highly Selective Isobutane Hydroxylation by Ozone in a Pressure-Tuned Biphasic Gasâ€"Liquid Process. ACS Sustainable Chemistry and Engineering, 2021, 9, 5506-5512.	3.2	2
10	Shaping Effective Practices for Incorporating Sustainability Assessment in Manuscripts Submitted to <i>ACS Sustainable Chemistry & Engineering</i>: Catalysis and Catalytic Processes. ACS Sustainable Chemistry and Engineering, 2021, 9, 4936-4940.	3.2	34
11	The Power of the United Nations Sustainable Development Goals in Sustainable Chemistry and Engineering Research. ACS Sustainable Chemistry and Engineering, 2021, 9, 8015-8017.	3.2	20
12	Solubility of Carbon Dioxide in Carboxylation Reaction Mixtures. Industrial & Engineering Chemistry Research, 2021, 60, 8375-8385.	1.8	1
13	Organic Electrosynthesis in CO₂-eXpanded Electrolytes: Enabling Selective Acetophenone Carboxylation to Atrolatic Acid. ACS Sustainable Chemistry and Engineering, 2021, 9, 10431-10436.	3.2	11
14	Plastics Are Not Bad. Bad Plastics Are Bad.. ACS Sustainable Chemistry and Engineering, 2021, 9, 9150-9150.	3.2	3
15	Selective ozone activation of phenanthrene in liquid CO₂. RSC Advances, 2021, 12, 626-630.	1.7	1
16	Expectations for Perspectives in ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2021, 9, 16528-16530.	3.2	1
17	Highly dispersed molybdenum containing mesoporous silicate (Mo-TUD-1) for olefin metathesis. Catalysis Today, 2020, 343, 215-225.	2.2	18
18	Kinetic modeling and mechanistic investigations of transesterification of propylene carbonate with methanol over an Feâ€"Mn double metal cyanide catalyst. Reaction Chemistry and Engineering, 2020, 5, 101-111.	1.9	7

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19	The Evolution of ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2020, 8, 1-1.	3.2	6
20	Butadiene hydroformylation to adipaldehyde with Rh-based catalysts: Insights into ligand effects. Molecular Catalysis, 2020, 484, 110721.	1.0	10
21	Expectations for Manuscripts Contributing to the Field of Solvents in <i>ACS Sustainable Chemistry & Engineering</i>. ACS Sustainable Chemistry and Engineering, 2020, 8, 14627-14629.	3.2	23
22	Expectations for Manuscripts in ACS Sustainable Chemistry & Engineering: Scope Summary and Call for Creativity. ACS Sustainable Chemistry and Engineering, 2020, 8, 16046-16047.	3.2	2
23	Expectations for Manuscripts on Biomass Feedstocks and Processing in <i>ACS Sustainable Chemistry & Engineering</i>. ACS Sustainable Chemistry and Engineering, 2020, 8, 11031-11032.	3.2	2
24	Remembering Professor, Academician, and Editor Lina Zhang. ACS Sustainable Chemistry and Engineering, 2020, 8, 16385-16385.	3.2	0
25	Lattice strained bimetallic PtPd nanocatalysts display multifunctional nature for transfer hydrogenolysis of sorbitol in base-free medium. Materials Today Sustainability, 2020, 10, 100047.	1.9	1
26	Constant Renewal: An Open Call for <i>ACS Sustainable Chemistry & Engineering</i> Editorial Advisory Board and Early Career Board Members. ACS Sustainable Chemistry and Engineering, 2020, 8, 12731-12732.	3.2	1
27	Facile Prepolymer Formation with Ozone-Pretreated Grass Lignin by <i>In Situ</i> Grafting of Endogenous Aromatics. ACS Sustainable Chemistry and Engineering, 2020, 8, 17001-17007.	3.2	3
28	The Changing Structure of Scientific Communication: Expanding the Nature of Letters Submissions to ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2020, 8, 8469-8470.	3.2	0
29	Expectations for Manuscripts with Nanoscience and Nanotechnology Elements in <i>ACS Sustainable Chemistry & Engineering</i>. ACS Sustainable Chemistry and Engineering, 2020, 8, 7751-7752.	3.2	5
30	Experimental and computational investigations of Câ€“H activation of cyclohexane by ozone in liquid CO2. Reaction Chemistry and Engineering, 2020, 5, 793-802.	1.9	7
31	Enhancing Molecular Electrocatalysis of CO₂ Reduction with Pressureâ€Tunable CO₂â€Expanded Electrolytes. ChemSusChem, 2020, 13, 6338-6345.	3.6	8
32	Enriching Propane/Propylene Mixture by Selective Propylene Hydroformylation: Economic and Environmental Impact Analyses. ACS Sustainable Chemistry and Engineering, 2020, 8, 5140-5146.	3.2	2
33	Expectations for Papers on Photochemistry, Photoelectrochemistry, and Electrochemistry for Energy Conversion and Storage in <i>ACS Sustainable Chemistry & Engineering</i>. ACS Sustainable Chemistry and Engineering, 2020, 8, 3038-3039.	3.2	4
34	Enhanced Friedel-Crafts benzylation activity of bimetallic WSn-KIT-6 catalysts. Journal of Catalysis, 2020, 389, 657-666.	3.1	4
35	Continuous Process for the Production of Taurine from Monoethanolamine. Industrial & Engineering Chemistry Research, 2020, 59, 13007-13015.	1.8	9
36	Expectations for Manuscripts on Industrial Ecology in ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2020, 8, 9599-9600.	3.2	2

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37	Enhanced Acid-Catalyzed Lignin Depolymerization in a Continuous Reactor with Stable Activity. ACS Sustainable Chemistry and Engineering, 2020, 8, 4096-4106.	3.2	25
38	Insights into pressure tunable reaction rates for electrochemical reduction of CO₂ in organic electrolytes. Green Chemistry, 2020, 22, 2434-2442.	4.6	20
39	Enhanced Olefin Metathesis Performance of Tungsten and Niobium Incorporated Bimetallic Silicates: Evidence of Synergistic Effects. ChemCatChem, 2020, 12, 2004-2013.	1.8	9
40	Expectations for Manuscripts on Catalysis in <i>ACS Sustainable Chemistry & Engineering</i>. ACS Sustainable Chemistry and Engineering, 2020, 8, 4995-4996.	3.2	14
41	Earth Day Reflections: Hope Amid the Pandemic. ACS Sustainable Chemistry and Engineering, 2020, 8, 5817-5818.	3.2	3
42	Expectations for Papers on Sustainable Materials in <i>ACS Sustainable Chemistry & Engineering</i>. ACS Sustainable Chemistry and Engineering, 2020, 8, 1703-1704.	3.2	9
43	Rh-Catalyzed Hydroformylation of 1,3-Butadiene and Pent-4-enal to Adipaldehyde in CO₂-Expanded Media. Industrial & Engineering Chemistry Research, 2019, 58, 22526-22533.	1.8	4
44	110th Anniversary: Near-Total Epoxidation Selectivity and Hydrogen Peroxide Utilization with Nb-EISA Catalysts for Propylene Epoxidation. Industrial & Engineering Chemistry Research, 2019, 58, 17727-17735.	1.8	5
45	Liquid-Phase Oxidation of Ethylene Glycol on Pt and Ptâ€“Fe Catalysts for the Production of Glycolic Acid: Remarkable Bimetallic Effect and Reaction Mechanism. Industrial & Engineering Chemistry Research, 2019, 58, 18561-18568.	1.8	17
46	Reaction Engineering Studies of the Epoxidation of Fatty Acid Methyl Esters with Venturello Complex. Industrial & Engineering Chemistry Research, 2019, 58, 2514-2523.	1.8	12
47	Catalytic conversion of CO2 and shale gas-derived substrates into saturated carbonates and derivatives: Catalyst design, performances and reaction mechanism. Journal of CO2 Utilization, 2019, 34, 115-148.	3.3	32
48	Intensified Electrocatalytic CO₂ Conversion in Pressureâ€Tunable CO₂â€Expanded Electrolytes. ChemSusChem, 2019, 12, 3761-3768.	3.6	19
49	Aqueous-Phase Glycerol Catalysis and Kinetics with in Situ Hydrogen Formation. ACS Sustainable Chemistry and Engineering, 2019, 7, 11323-11333.	3.2	14
50	Intensified ozonolysis of lignins in a spray reactor: insights into product yields and lignin structure. Reaction Chemistry and Engineering, 2019, 4, 1421-1430.	1.9	15
51	Understanding Sulfur Content in Alkylate from Sulfuric Acid-Catalyzed C₃/C₄ Alkylations. Energy & Fuels, 2019, 33, 4659-4670.	2.5	6
52	Nanostructured Metal Catalysts for Selective Hydrogenation and Oxidation of Cellulosic Biomass to Chemicals. Chemical Record, 2019, 19, 1952-1994.	2.9	10
53	Transesterification of Propylene Carbonate with Methanol Using Feâ€“Mn Double Metal Cyanide Catalyst. ACS Sustainable Chemistry and Engineering, 2019, 7, 5698-5710.	3.2	31
54	Why Wasnâ€™t My <i>ACS Sustainable Chemistry & Engineering</i> Manuscript Sent Out for Review?. ACS Sustainable Chemistry and Engineering, 2019, 7, 1-2.	3.2	5

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55	Dual Function Lewis Acid Catalyzed Depolymerization of Industrial Corn Stover Lignin into Stable Monomeric Phenols. ACS Sustainable Chemistry and Engineering, 2019, 7, 1362-1371.	3.2	25
56	Genesis of Strong BrÃ¸nsted Acid Sites in WZr-KIT-6 Catalysts and Enhancement of Ethanol Dehydration Activity. ACS Catalysis, 2018, 8, 4848-4859.	5.5	33
57	<i>ACS Sustainable Chemistry & Engineering</i> Virtual Special Issue on Promoting the Development and Use of Quantitative Sustainabilty Metrics. ACS Sustainable Chemistry and Engineering, 2018, 6, 4422-4422.	3.2	5
58	Enhanced hydroformylation of 1-octene in n-butane expanded solvents with Co-based complexes. Reaction Chemistry and Engineering, 2018, 3, 344-352.	1.9	6
59	Advancing the Use of Sustainability Metrics in <i>ACS Sustainable Chemistry & Engineering</i>. ACS Sustainable Chemistry and Engineering, 2018, 6, 1-1.	3.2	34
60	Homogeneous catalytic hydroformylation of propylene in propane-expanded solvent media. Chemical Engineering Science, 2018, 187, 148-156.	1.9	12
61	Remarkable epoxidation activity of neat and carbonized niobium silicates prepared by evaporation-induced self-assembly. Microporous and Mesoporous Materials, 2018, 261, 158-163.	2.2	13
62	Enhanced solubility of hydrogen and carbon monoxide in propaneâ€•and propyleneâ€‘expanded liquids. AIChE Journal, 2018, 64, 970-980.	1.8	7
63	Valorization of Grass Lignins: Swift and Selective Recovery of Pendant Aromatic Groups with Ozone. ACS Sustainable Chemistry and Engineering, 2018, 6, 71-76.	3.2	30
64	Oxidation of Glucose Using Mono- and Bimetallic Catalysts under Base-Free Conditions. Organic Process Research and Development, 2018, 22, 1653-1662.	1.3	21
65	Correlation of Active Site Precursors and Olefin Metathesis Activity in W-Incorporated Silicates. ACS Catalysis, 2018, 8, 10437-10445.	5.5	13
66	Kinetic Study of CaO-Catalyzed Transesterification of Cyclic Carbonates with Methanol. Industrial & Engineering Chemistry Research, 2018, 57, 14977-14987.	1.8	16
67	Metal-Incorporated Mesoporous Silicates: Tunable Catalytic Properties and Applications. Molecules, 2018, 23, 263.	1.7	16
68	Strategies to Passivate BrÃ¸nsted Acidity in Nb-TUD-1 Enhance Hydrogen Peroxide Utilization and Reduce Metal Leaching during Ethylene Epoxidation. Industrial & Engineering Chemistry Research, 2017, 56, 1999-2007.	1.8	14
69	Effects of tunable acidity and basicity of Nbâ€KITâ€6 catalysts on ethanol conversion: Experiments and kinetic modeling. AIChE Journal, 2017, 63, 2888-2899.	1.8	13
70	Intensified and safe ozonolysis of fatty acid methyl esters in liquid CO₂ in a continuous reactor. AIChE Journal, 2017, 63, 2819-2826.	1.8	13
71	Thermal Cracking and Catalytic Hydrocracking of a Colombian Vacuum Residue and Its Maltenes and Asphaltenes Fractions in Toluene. Energy & Fuels, 2017, 31, 3868-3877.	2.5	31
72	Lattice distortion induced electronic coupling results in exceptional enhancement in the activity of bimetallic PtMn nanocatalysts. Applied Catalysis A: General, 2017, 534, 46-57.	2.2	24

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73	Developing Studentsâ€™ Understanding of Industrially Relevant Economic and Life Cycle Assessments. Journal of Chemical Education, 2017, 94, 1798-1801.	1.1	11
74	Synthesis of molybdenum-incorporated mesoporous silicates by evaporation-induced self-assembly: Insights into surface oxide species and corresponding olefin metathesis activity. Microporous and Mesoporous Materials, 2017, 245, 118-125.	2.2	17
75	Kinetic modeling of carboxylation of propylene oxide to propylene carbonate using ion-exchange resin catalyst in a semi-batch slurry reactor. Chemical Engineering Science, 2017, 168, 189-203.	1.9	16
76	Intriguing Catalyst (CaO) Pretreatment Effects and Mechanistic Insights during Propylene Carbonate Transesterification with Methanol. ACS Sustainable Chemistry and Engineering, 2017, 5, 4718-4729.	3.2	31
77	Advances in Catalysis for Sustainable Development Special Issue. ACS Sustainable Chemistry and Engineering, 2017, 5, 3597-3597.	3.2	4
78	Novel tungsten-incorporated mesoporous silicates synthesized via evaporation-induced self-assembly: Enhanced metathesis performance. Journal of Catalysis, 2017, 350, 182-188.	3.1	13
79	<i>ACS Sustainable Chemistry & Engineering</i>â€™s Impact Factor Continues To Rise. ACS Sustainable Chemistry and Engineering, 2017, 5, 5617-5617.	3.2	0
80	Four Years of ACS Sustainable Chemistry & Engineering: Reflections and New Developments. ACS Sustainable Chemistry and Engineering, 2017, 5, 1-2.	3.2	8
81	Phase Transformed PtFe Nanocomposites Show Enhanced Catalytic Performances in Oxidation of Glycerol to Tartronic Acid. Industrial & Engineering Chemistry Research, 2017, 56, 13157-13164.	1.8	24
82	Zirconium-Incorporated Mesoporous Silicates Show Remarkable Lignin Depolymerization Activity. ACS Sustainable Chemistry and Engineering, 2017, 5, 7155-7164.	3.2	38
83	Kinetics of homogeneous 5â€hydroxymethylfurfural oxidation to 2,5â€furandicarboxylic acid with Co/Mn/Br catalyst. AIChE Journal, 2017, 63, 162-171.	1.8	39
84	LCA for Green Chemical Synthesisâ€"Terephthalic Acid. , 2017, , 387-396.		0
85	Sustainable Processes With Supercritical Fluids. , 2017, , 653-662.		1
86	Chemical Process Intensification with Pressure-Tunable Media. Theoretical Foundations of Chemical Engineering, 2017, 51, 928-935.	0.2	2
87	Development of a Sustainable and Economically Viable Process for Making Ethylene Oxide: A Case Study. , 2017, , 373-385.		1
88	Kinetic modeling of Pt/C catalyzed aqueous phase glycerol conversion with <i>in situ</i> formed hydrogen. AIChE Journal, 2016, 62, 1162-1173.	1.8	23
89	Optimization of Co/Mn/Br-Catalyzed Oxidation of 5-Hydroxymethylfurfural to Enhance 2,5-Furandicarboxylic Acid Yield and Minimize Substrate Burning. ACS Sustainable Chemistry and Engineering, 2016, 4, 3659-3668.	3.2	80
90	Anisotropic growth of PtFe nanoclusters induced by lattice-mismatch: Efficient catalysts for oxidation of biopolyols to carboxylic acid derivatives. Journal of Catalysis, 2016, 337, 272-283.	3.1	43

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91	Enhanced metathesis of ethylene and 2-butene on tungsten incorporated ordered mesoporous silicates. Applied Catalysis A: General, 2016, 528, 142-149.	2.2	19
92	Quantitative Sustainability Analysis: A Powerful Tool to Develop Resource-Efficient Catalytic Technologies. ACS Sustainable Chemistry and Engineering, 2016, 4, 5859-5865.	3.2	24
93	Kinetic Modeling of Sorbitol Hydrogenolysis over Bimetallic RuRe/C Catalyst. ACS Sustainable Chemistry and Engineering, 2016, 4, 6037-6047.	3.2	24
94	Oxidation of Glycerol to Dicarboxylic Acids Using Cobalt Catalysts. ACS Catalysis, 2016, 6, 4576-4583.	5.5	68
95	Mixed alcohol dehydration over BrÃ¸nsted and Lewis acidic catalysts. Applied Catalysis A: General, 2016, 510, 110-124.	2.2	59
96	Mechanistic insights for enhancing activity and stability of Nb-incorporated silicates for selective ethylene epoxidation. Journal of Catalysis, 2016, 336, 75-84.	3.1	44
97	Synergistic Effects of Bimetallic PtPd/TiO₂ Nanocatalysts in Oxidation of Glucose to Glucaric Acid: Structure Dependent Activity and Selectivity. Industrial & Engineering Chemistry Research, 2016, 55, 2932-2945.	1.8	73
98	Evaporation-induced self-assembly of mesoporous zirconium silicates with tunable acidity and facile catalytic dehydration activity. Microporous and Mesoporous Materials, 2016, 223, 46-52.	2.2	14
99	Unique characteristics of MnOx-incorporated mesoporous silicate, Mn-FDU-5, prepared via evaporation induced self assembly. Journal of Porous Materials, 2016, 23, 57-65.	1.3	7
100	Potential applications of Zr-KIT-5: Hantzsch reaction, Meerweinâ€“Ponndorfâ€“Verley (MPV) reduction of 4-tert-butylcyclohexanone, and Prins reaction of citronellal. Research on Chemical Intermediates, 2016, 42, 2399-2408.	1.3	7
101	Advancing the Use of Sustainability Metrics. ACS Sustainable Chemistry and Engineering, 2015, 3, 2359-2360.	3.2	22
102	Comparative Study of Nb-Incorporated Cubic Mesoporous Silicates as Epoxidation Catalysts. Industrial & Engineering Chemistry Research, 2015, 54, 4236-4242.	1.8	26
103	Facile Styrene Epoxidation with H2O2 over Novel Niobium Containing Cage Type Mesoporous Silicate, Nb-KIT-5. Topics in Catalysis, 2015, 58, 314-324.	1.3	20
104	Importance of Long-Range Noncovalent Interactions in the Regioselectivity of Rhodium-Xantphos-Catalyzed Hydroformylation. Organometallics, 2015, 34, 1062-1073.	1.1	23
105	Sorbitol Hydrogenolysis over Hybrid Cu/CaO-Al₂O₃ Catalysts: Tunable Activity and Selectivity with Solid Base Incorporation. ACS Catalysis, 2015, 5, 6545-6558.	5.5	76
106	Continuous Hydroformylation with Phosphine-Functionalized Polydimethylsiloxane Rhodium Complexes as Nanofilterable Homogeneous Catalysts. Industrial & Engineering Chemistry Research, 2015, 54, 10656-10660.	1.8	9
107	Exceptional performance of bimetallic Pt1Cu3/TiO2 nanocatalysts for oxidation of gluconic acid and glucose with O2 to glucaric acid. Journal of Catalysis, 2015, 330, 323-329.	3.1	88
108	Liquid CO₂ as a Safe and Benign Solvent for the Ozonolysis of Fatty Acid Methyl Esters. ACS Sustainable Chemistry and Engineering, 2015, 3, 3307-3314.	3.2	36

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109	Novel zirconium containing cage type silicate (Zr-KIT-5): An efficient Friedelâ€“Crafts alkylation catalyst. Chemical Engineering Journal, 2015, 278, 113-121.	6.6	40
110	Perspectives on exploiting near-critical fluids for energy-efficient catalytic conversion of emerging feedstocks. Journal of Supercritical Fluids, 2015, 96, 96-102.	1.6	7
111	Kinetic investigations of unusual solvent effects during Ru/C catalyzed hydrogenation of model oxygenates. Journal of Catalysis, 2014, 309, 174-184.	3.1	91
112	Supercritical fluids and gas-expanded liquids as tunable media for multiphase catalytic reactions. Chemical Engineering Science, 2014, 115, 3-18.	1.9	40
113	Environmental impacts of ethylene production from diverse feedstocks and energy sources. Applied Petrochemical Research, 2014, 4, 167-179.	1.3	89
114	Niobium incorporated mesoporous silicate, Nb-KIT-6: Synthesis and characterization. Microporous and Mesoporous Materials, 2014, 190, 240-247.	2.2	66
115	Development of a Greener Hydroformylation Process Guided by Quantitative Sustainability Assessments. ACS Sustainable Chemistry and Engineering, 2014, 2, 2748-2757.	3.2	18
116	Synthesis, Characterization, and Epoxidation Activity of Tungsten-Incorporated SBA-16 (W-SBA-16). Industrial & Engineering Chemistry Research, 2014, 53, 18833-18839.	1.8	49
117	Kinetic Investigations ofp-Xylene Oxidation to Terephthalic Acid with a Co/Mn/Br Catalyst in a Homogeneous Liquid Phase. Industrial & Engineering Chemistry Research, 2014, 53, 9017-9026.	1.8	17
118	Towards highly selective ethylene epoxidation catalysts using hydrogen peroxide and tungsten- or niobium-incorporated mesoporous silicate (KIT-6). Catalysis Science and Technology, 2014, 4, 4433-4439.	2.1	52
119	Terephthalic Acid Production via Greener Spray Process: Comparative Economic and Environmental Impact Assessments with Mid-Century Process. ACS Sustainable Chemistry and Engineering, 2014, 2, 823-835.	3.2	24
120	Intrinsic Kinetics of Ethanol Dehydration Over Lewis Acidic Ordered Mesoporous Silicate, Zr-KIT-6. Topics in Catalysis, 2014, 57, 1407-1411.	1.3	16
121	Graphene oxide stabilized Cu2O for shape selective nanocatalysis. Journal of Materials Chemistry A, 2014, 2, 7147.	5.2	28
122	Highly selective homogeneous ethylene epoxidation in gas (ethylene)â€expanded liquid: Transport and kinetic studies. AICHE Journal, 2013, 59, 180-187.	1.8	34
123	Is the Liquid-Phase H₂O₂-Based Ethylene Oxide Process More Economical and Greener Than the Gas-Phase O₂-Based Silver-Catalyzed Process?. Industrial & Engineering Chemistry Research, 2013, 52, 18-29.	1.8	53
124	Synthesis and Dehydration Activity of Novel Lewis Acidic Ordered Mesoporous Silicate: Zr-KIT-6. Industrial & Engineering Chemistry Research, 2013, 52, 15481-15487.	1.8	60
125	Vapor-phase methanol and ethanol coupling reactions on CuMgAl mixed metal oxides. Applied Catalysis A: General, 2013, 455, 234-246.	2.2	51
126	A spray reactor concept for catalytic oxidation of p-xylene to produce high-purity terephthalic acid. Chemical Engineering Science, 2013, 104, 93-102.	1.9	42

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127	Tungsten-incorporated cage-type mesoporous silicate: W-KIT-5. Microporous and Mesoporous Materials, 2013, 175, 43-49.	2.2	52
128	Lattice-Matched Bimetallic CuPd-Graphene Nanocatalysts for Facile Conversion of Biomass-Derived Polyols to Chemicals. ACS Nano, 2013, 7, 1309-1316.	7.3	112
129	Rapid Room Temperature Synthesis of Ceâ€“MCM-48: An Active Catalyst for trans-Stilbene Epoxidation with tert-Butyl Hydroperoxide. ACS Symposium Series, 2013, , 213-228.	0.5	1
130	Multiphase Catalytic Hydrogenolysis/Hydrodeoxygenation Processes for Chemicals from Renewable Feedstocks: Kinetics, Mechanism, and Reaction Engineering. Industrial & Engineering Chemistry Research, 2013, 52, 15226-15243.	1.8	35
131	Enhanced hydroformylation by carbon dioxideâ€expanded media with soluble Rh complexes in nanofiltration membrane reactors. AICHE Journal, 2013, 59, 4287-4296.	1.8	23
132	Synthesis and characterization of Zirconium incorporated ultra large pore mesoporous silicate, Zrâ€“KIT-6. Microporous and Mesoporous Materials, 2013, 167, 207-212.	2.2	61
133	Aqueous Phase Hydrogenation of Acetic Acid and Its Promotional Effect on <i>p</i>-Cresol Hydrodeoxygenation. Energy & Fuels, 2013, 27, 487-493.	2.5	76
134	Atom Economical Aqueous-Phase Conversion (APC) of Biopolyols to Lactic Acid, Glycols, and Linear Alcohols Using Supported Metal Catalysts. ACS Sustainable Chemistry and Engineering, 2013, 1, 1453-1462.	3.2	59
135	Comparative Economic and Environmental Assessments of H₂O₂-based and Tertiary Butyl Hydroperoxide-based Propylene Oxide Technologies. ACS Sustainable Chemistry and Engineering, 2013, 1, 268-277.	3.2	49
136	Gas Expanded Liquids for Sustainable Catalysis. , 2013, , 5-36.		2
137	Direct incorporation of tungsten into ultra-large-pore three-dimensional mesoporous silicate framework: W-KIT-6. Journal of Porous Materials, 2012, 19, 961-968.	1.3	50
138	Sustainable catalytic reaction engineering with gas-expanded liquids. Current Opinion in Chemical Engineering, 2012, 1, 336-341.	3.8	13
139	Ultravioletâ€“Visible Spectroscopy and Temperature-Programmed Techniques as Tools for Structural Characterization of Cu in CuMgAlOxMixed Metal Oxides. Journal of Physical Chemistry C, 2012, 116, 18207-18221.	1.5	43
140	Catalytic Hydroprocessing of p-Cresol: Metal, Solvent and Mass-Transfer Effects. Topics in Catalysis, 2012, 55, 129-139.	1.3	109
141	A fluidized-bed coating technology using near-critical carbon dioxide as fluidizing and drying medium. Journal of Supercritical Fluids, 2012, 66, 315-320.	1.6	10
142	Prediction of multicomponent phase behavior of CO2-expanded liquids using CEoS/GE models and comparison with experimental data. Journal of Supercritical Fluids, 2012, 67, 41-52.	1.6	13
143	Gas Expanded Liquids for Sustainable Catalysis. , 2012, , 199-221.		0
144	Cu-Based Catalysts Show Low Temperature Activity for Glycerol Conversion to Lactic Acid. ACS Catalysis, 2011, 1, 548-551.	5.5	147

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145	Continuous homogeneous hydroformylation with bulky rhodium catalyst complexes retained by nano-filtration membranes. Applied Catalysis A: General, 2011, 393, 294-301.	2.2	47
146	Tapered element oscillating microbalance (TEOM) studies of isobutane, nâ€butane and propane sorption in Î²â€•and Yâ€zeolites. AIChE Journal, 2010, 56, 1285-1296.	1.8	1
147	Liquid phase oxidation of p-xylene to terephthalic acid at medium-high temperatures: multiple benefits of CO2-expanded liquids. Green Chemistry, 2010, 12, 260.	4.6	46
148	Aqueous phase hydrogenolysis of glycerol to 1,2-propanediol without external hydrogen addition. Catalysis Today, 2010, 156, 31-37.	2.2	157
149	Gas-expanded liquids for sustainable catalysis and novel materials: Recent advances. Coordination Chemistry Reviews, 2010, 254, 1843-1853.	9.5	72
150	Toward a CO2-free ethylene oxide process: Homogeneous ethylene oxide in gas-expanded liquids. Chemical Engineering Science, 2010, 65, 128-134.	1.9	38
151	Exploiting Neoteric Solvents for Sustainable Catalysis and Reaction Engineering: Opportunities and Challenges. Industrial & Engineering Chemistry Research, 2010, 49, 10218-10229.	1.8	25
152	Supercritical Deoxygenation of a Model Bio-Oil Oxygenate. Industrial & Engineering Chemistry Research, 2010, 49, 10852-10858.	1.8	10
153	Kinetic Modeling of Aqueous-Phase Glycerol Hydrogenolysis in a Batch Slurry Reactor. Industrial & Engineering Chemistry Research, 2010, 49, 10826-10835.	1.8	66
154	Green Methods for Processing and Utilizing Metal Complexes. ACS Symposium Series, 2009, , 274-289.	0.5	1
155	Gas-Expanded Liquids: Fundamentals and Applications. ACS Symposium Series, 2009, , 3-37.	0.5	38
156	Improved 1-butene/isobutane alkylation with acidic ionic liquids and tunable acid/ionic liquid mixtures. Journal of Catalysis, 2009, 268, 243-250.	3.1	107
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