

# James A Dumesic

## List of Publications by Year in descending order

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249  
papers

39,664  
citations

2795

94  
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2558

195  
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266  
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266  
docs citations

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times ranked

21383  
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid-Phase Catalytic Processing of Biomass-Derived Oxygenated Hydrocarbons to Fuels and Chemicals. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7164-7183.	7.2	2,148
2	Catalytic conversion of biomass to biofuels. <i>Green Chemistry</i> , 2010, 12, 1493.	4.6	2,017
3	Production of dimethylfuran for liquid fuels from biomass-derived carbohydrates. <i>Nature</i> , 2007, 447, 982-985.	13.7	2,011
4	Production of Liquid Alkanes by Aqueous-Phase Processing of Biomass-Derived Carbohydrates. <i>Science</i> , 2005, 308, 1446-1450.	6.0	1,502
5	Phase Modifiers Promote Efficient Production of Hydroxymethylfurfural from Fructose. <i>Science</i> , 2006, 312, 1933-1937.	6.0	1,466
6	Bimetallic catalysts for upgrading of biomass to fuels and chemicals. <i>Chemical Society Reviews</i> , 2012, 41, 8075.	18.7	1,167
7	Production of 5-hydroxymethylfurfural and furfural by dehydration of biomass-derived mono- and poly-saccharides. <i>Green Chemistry</i> , 2007, 9, 342-350.	4.6	1,060
8	Integrated Catalytic Conversion of $\gamma$ -Valerolactone to Liquid Alkenes for Transportation Fuels. <i>Science</i> , 2010, 327, 1110-1114.	6.0	988
9	Gamma-valerolactone, a sustainable platform molecule derived from lignocellulosic biomass. <i>Green Chemistry</i> , 2013, 15, 584.	4.6	868
10	Catalytic Conversion of Biomass to Monofunctional Hydrocarbons and Targeted Liquid-Fuel Classes. <i>Science</i> , 2008, 322, 417-421.	6.0	840
11	On the Mechanism of Low-Temperature Water Gas Shift Reaction on Copper. <i>Journal of the American Chemical Society</i> , 2008, 130, 1402-1414.	6.6	839
12	Catalytic routes for the conversion of biomass into liquid hydrocarbon transportation fuels. <i>Energy and Environmental Science</i> , 2011, 4, 83-99.	15.6	747
13	An overview of aqueous-phase catalytic processes for production of hydrogen and alkanes in a biorefinery. <i>Catalysis Today</i> , 2006, 111, 119-132.	2.2	612
14	Catalyst Design with Atomic Layer Deposition. <i>ACS Catalysis</i> , 2015, 5, 1804-1825.	5.5	608
15	Nonenzymatic Sugar Production from Biomass Using Biomass-Derived $\gamma$ -Valerolactone. <i>Science</i> , 2014, 343, 277-280.	6.0	607
16	Renewable Alkanes by Aqueous-Phase Reforming of Biomass-Derived Oxygenates. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1549-1551.	7.2	520
17	Self-assembly of noble metal monolayers on transition metal carbide nanoparticle catalysts. <i>Science</i> , 2016, 352, 974-978.	6.0	495
18	An overview of dehydration, aldol-condensation and hydrogenation processes for production of liquid alkanes from biomass-derived carbohydrates. <i>Catalysis Today</i> , 2007, 123, 59-70.	2.2	464

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19	Production of 5-Hydroxymethylfurfural from Glucose Using a Combination of Lewis and Brønsted Acid Catalysts in Water in a Biphasic Reactor with an Alkylphenol Solvent. <i>ACS Catalysis</i> , 2012, 2, 930-934.	5.5	455
20	Mechanism of the Water Gas Shift Reaction on Pt: First Principles, Experiments, and Microkinetic Modeling. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4608-4617.	1.5	452
21	Selective Hydrogenolysis of Polyols and Cyclic Ethers over Bifunctional Surface Sites on Rhodium-Rhenium Catalysts. <i>Journal of the American Chemical Society</i> , 2011, 133, 12675-12689.	6.6	439
22	Solvent Effects on Fructose Dehydration to 5-Hydroxymethylfurfural in Biphasic Systems Saturated with Inorganic Salts. <i>Topics in Catalysis</i> , 2009, 52, 297-303.	1.3	407
23	Targeted chemical upgrading of lignocellulosic biomass to platform molecules. <i>Green Chemistry</i> , 2014, 16, 4816-4838.	4.6	399
24	Conversion of Hemicellulose into Furfural Using Solid Acid Catalysts in $\gamma$ -Valerolactone. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1270-1274.	7.2	397
25	Solvent Effects in Acid-Catalyzed Biomass Conversion Reactions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11872-11875.	7.2	371
26	Increasing the revenue from lignocellulosic biomass: Maximizing feedstock utilization. <i>Science Advances</i> , 2017, 3, e1603301.	4.7	352
27	Production of renewable jet fuel range alkanes and commodity chemicals from integrated catalytic processing of biomass. <i>Energy and Environmental Science</i> , 2014, 7, 1500-1523.	15.6	342
28	Integrated conversion of hemicellulose and cellulose from lignocellulosic biomass. <i>Energy and Environmental Science</i> , 2013, 6, 76-80.	15.6	332
29	Catalytic upgrading of levulinic acid to 5-nonanone. <i>Green Chemistry</i> , 2010, 12, 574.	4.6	330
30	Catalytic Conversion of Renewable Biomass Resources to Fuels and Chemicals. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2010, 1, 79-100.	3.3	318
31	Production of levulinic acid and gamma-valerolactone (GVL) from cellulose using GVL as a solvent in biphasic systems. <i>Energy and Environmental Science</i> , 2012, 5, 8199.	15.6	316
32	Production and upgrading of 5-hydroxymethylfurfural using heterogeneous catalysts and biomass-derived solvents. <i>Green Chemistry</i> , 2013, 15, 85-90.	4.6	310
33	Production of liquid hydrocarbon fuels by catalytic conversion of biomass-derived levulinic acid. <i>Green Chemistry</i> , 2011, 13, 1755.	4.6	289
34	The selective hydrogenation of biomass-derived 5-hydroxymethylfurfural using heterogeneous catalysts. <i>Green Chemistry</i> , 2012, 14, 1413.	4.6	284
35	Toward biomass-derived renewable plastics: Production of 2,5-furandicarboxylic acid from fructose. <i>Science Advances</i> , 2018, 4, eaap9722.	4.7	276
36	Modeling Ethanol Decomposition on Transition Metals: A Combined Application of Scaling and Brønsted-Evans-Polanyi Relations. <i>Journal of the American Chemical Society</i> , 2009, 131, 5809-5815.	6.6	275

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37	A roadmap for conversion of lignocellulosic biomass to chemicals and fuels. <i>Current Opinion in Chemical Engineering</i> , 2012, 1, 218-224.	3.8	273
38	Conversion of cellulose to hydrocarbon fuels by progressive removal of oxygen. <i>Applied Catalysis B: Environmental</i> , 2010, 100, 184-189.	10.8	254
39	Liquid Alkanes with Targeted Molecular Weights from Biomass-Derived Carbohydrates. <i>ChemSusChem</i> , 2008, 1, 417-424.	3.6	228
40	Conversion of Hemicellulose to Furfural and Levulinic Acid using Biphasic Reactors with Alkylphenol Solvents. <i>ChemSusChem</i> , 2012, 5, 383-387.	3.6	228
41	Molecular-level descriptions of surface chemistry in kinetic models using density functional theory. <i>Chemical Engineering Science</i> , 2004, 59, 4679-4691.	1.9	227
42	Techno-economic analysis of dimethylfuran (DMF) and hydroxymethylfurfural (HMF) production from pure fructose in catalytic processes. <i>Chemical Engineering Journal</i> , 2011, 169, 329-338.	6.6	219
43	Sn-Beta catalysed conversion of hemicellulosic sugars. <i>Green Chemistry</i> , 2012, 14, 702.	4.6	216
44	Direct conversion of cellulose to levulinic acid and gamma-valerolactone using solid acid catalysts. <i>Catalysis Science and Technology</i> , 2013, 3, 927-931.	2.1	213
45	Lignin monomer production integrated into the $\gamma$ -valerolactone sugar platform. <i>Energy and Environmental Science</i> , 2015, 8, 2657-2663.	15.6	212
46	Solvent-enabled control of reactivity for liquid-phase reactions of biomass-derived compounds. <i>Nature Catalysis</i> , 2018, 1, 199-207.	16.1	211
47	RuSn bimetallic catalysts for selective hydrogenation of levulinic acid to $\gamma$ -valerolactone. <i>Applied Catalysis B: Environmental</i> , 2012, 117-118, 321-329.	10.8	196
48	Carbon-carbon bond formation for biomass-derived furfurals and ketones by aldol condensation in a biphasic system. <i>Journal of Molecular Catalysis A</i> , 2008, 296, 18-27.	4.8	194
49	Microkinetic Modeling: A Tool for Rational Catalyst Design. <i>Chemical Reviews</i> , 2021, 121, 1049-1076.	23.0	191
50	Production of renewable petroleum refinery diesel and jet fuel feedstocks from hemicellulose sugar streams. <i>Energy and Environmental Science</i> , 2013, 6, 205-216.	15.6	184
51	An "ideal lignin" facilitates full biomass utilization. <i>Science Advances</i> , 2018, 4, eaau2968.	4.7	184
52	Active sites and mechanisms for H <sub>2</sub> O decomposition over Pd catalysts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1973-82.	3.3	171
53	Recycling of multilayer plastic packaging materials by solvent-targeted recovery and precipitation. <i>Science Advances</i> , 2020, 6, .	4.7	170
54	Dehydration of cellulose to levoglucosenone using polar aprotic solvents. <i>Energy and Environmental Science</i> , 2015, 8, 1808-1815.	15.6	167

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55	Stabilization of Copper Catalysts for Liquid-Phase Reactions by Atomic Layer Deposition. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13808-13812.	7.2	162
56	Bridging the Chemical and Biological Catalysis Gap: Challenges and Outlooks for Producing Sustainable Chemicals. <i>ACS Catalysis</i> , 2014, 4, 2060-2069.	5.5	160
57	Production of liquid hydrocarbon transportation fuels by oligomerization of biomass-derived C9 alkenes. <i>Green Chemistry</i> , 2010, 12, 992.	4.6	150
58	Effects of $\gamma$ -valerolactone in hydrolysis of lignocellulosic biomass to monosaccharides. <i>Green Chemistry</i> , 2014, 16, 4659-4662.	4.6	149
59	Acid-catalyzed conversion of furfuryl alcohol to ethyl levulinate in liquid ethanol. <i>Energy and Environmental Science</i> , 2012, 5, 8990.	15.6	146
60	Prediction of Experimental Methanol Decomposition Rates on Platinum from First Principles. <i>Topics in Catalysis</i> , 2006, 37, 17-28.	1.3	140
61	Experimental and theoretical studies of the acid-catalyzed conversion of furfuryl alcohol to levulinic acid in aqueous solution. <i>Energy and Environmental Science</i> , 2012, 5, 6981.	15.6	136
62	Role of the Cu-ZrO <sub>2</sub> Interfacial Sites for Conversion of Ethanol to Ethyl Acetate and Synthesis of Methanol from CO <sub>2</sub> and H <sub>2</sub> . <i>ACS Catalysis</i> , 2016, 6, 7040-7050.	5.5	136
63	Solvent system for effective near-term production of hydroxymethylfurfural (HMF) with potential for long-term process improvement. <i>Energy and Environmental Science</i> , 2019, 12, 2212-2222.	15.6	135
64	X-ray Absorption Spectroscopy of Bimetallic Pt-Re Catalysts for Hydrogenolysis of Glycerol to Propanediols. <i>ChemCatChem</i> , 2010, 2, 1107-1114.	1.8	134
65	Selective dehydrogenation of isobutane over supported Pt/Sn catalysts. <i>Catalysis Today</i> , 2000, 55, 213-223.	2.2	132
66	Synthesis of Highly Ordered Hydrothermally Stable Mesoporous Niobia Catalysts by Atomic Layer Deposition. <i>ACS Catalysis</i> , 2011, 1, 1234-1245.	5.5	132
67	Chemistries and processes for the conversion of ethanol into middle-distillate fuels. <i>Nature Reviews Chemistry</i> , 2019, 3, 223-249.	13.8	132
68	Catalytic conversion of biomass-derived carbohydrates to fuels and chemicals by formation and upgrading of mono-functional hydrocarbon intermediates. <i>Catalysis Today</i> , 2009, 147, 115-125.	2.2	127
69	Mechanocatalytic Depolymerization of Dry (Ligno)cellulose As an Entry Process for High-Yield Production of Furfurals. <i>ACS Catalysis</i> , 2013, 3, 993-997.	5.5	126
70	A strategy for the simultaneous catalytic conversion of hemicellulose and cellulose from lignocellulosic biomass to liquid transportation fuels. <i>Green Chemistry</i> , 2014, 16, 653-661.	4.6	124
71	Universal kinetic solvent effects in acid-catalyzed reactions of biomass-derived oxygenates. <i>Energy and Environmental Science</i> , 2018, 11, 617-628.	15.6	122
72	Theoretical Studies of Stability and Reactivity of C <sub>2</sub> Hydrocarbon Species on Pt Clusters, Pt(111), and Pt(211). <i>Journal of Physical Chemistry B</i> , 2000, 104, 2299-2310.	1.2	121

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73	Aqueous-phase hydrodeoxygenation of sorbitol: A comparative study of Pt/Zr phosphate and PtReOx/C. <i>Journal of Catalysis</i> , 2013, 304, 72-85.	3.1	121
74	Production of levoglucosenone and 5-hydroxymethylfurfural from cellulose in polar aprotic solvent-water mixtures. <i>Green Chemistry</i> , 2017, 19, 3642-3653.	4.6	121
75	Catalytic conversion of biomass using solvents derived from lignin. <i>Green Chemistry</i> , 2012, 14, 1573.	4.6	119
76	Lignin Conversion to Low-Molecular-Weight Aromatics via an Aerobic Oxidation-Hydrolysis Sequence: Comparison of Different Lignin Sources. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3367-3374.	3.2	118
77	Triacetic acid lactone as a potential biorenewable platform chemical. <i>Green Chemistry</i> , 2012, 14, 1850.	4.6	117
78	Effects of chloride ions in acid-catalyzed biomass dehydration reactions in polar aprotic solvents. <i>Nature Communications</i> , 2019, 10, 1132.	5.8	117
79	Selective Production of Levulinic Acid from Furfuryl Alcohol in THF Solvent Systems over H-ZSM-5. <i>ACS Catalysis</i> , 2015, 5, 3354-3359.	5.5	116
80	Acid-Functionalized SBA-15-Type Periodic Mesoporous Organosilicas and Their Use in the Continuous Production of 5-Hydroxymethylfurfural. <i>ACS Catalysis</i> , 2012, 2, 1865-1876.	5.5	115
81	Catalytic conversion of lignocellulosic biomass to fuels: Process development and techno-economic evaluation. <i>Chemical Engineering Science</i> , 2012, 67, 57-67.	1.9	113
82	Microcalorimetric, Infrared Spectroscopic, and DFT Studies of Ethylene Adsorption on Pt/SiO <sub>2</sub> and Pt-Sn/SiO <sub>2</sub> Catalysts. <i>Journal of Physical Chemistry B</i> , 1999, 103, 3923-3934.	1.2	112
83	Production of Furfural from Lignocellulosic Biomass Using Beta Zeolite and Biomass-Derived Solvent. <i>Topics in Catalysis</i> , 2013, 56, 1775-1781.	1.3	111
84	Stabilizing cobalt catalysts for aqueous-phase reactions by strong metal-support interaction. <i>Journal of Catalysis</i> , 2015, 330, 19-27.	3.1	111
85	Synthesis of 1,6-Hexanediol from Cellulose Derived Tetrahydrofuran-Dimethanol with Pt-WO <sub>3</sub> /TiO <sub>2</sub> Catalysts. <i>ACS Catalysis</i> , 2018, 8, 1427-1439.	5.5	111
86	Catalytic Production of Liquid Fuels from Biomass-Derived Oxygenated Hydrocarbons: Catalytic Coupling at Multiple Length Scales. <i>Catalysis Reviews - Science and Engineering</i> , 2009, 51, 441-484.	5.7	110
87	Selective Conversion of Cellulose to Hydroxymethylfurfural in Polar Aprotic Solvents. <i>ChemCatChem</i> , 2014, 6, 2229-2234.	1.8	110
88	Enhanced stability of cobalt catalysts by atomic layer deposition for aqueous-phase reactions. <i>Energy and Environmental Science</i> , 2014, 7, 1657.	15.6	109
89	Plasmon-enhanced reverse water gas shift reaction over oxide supported Au catalysts. <i>Catalysis Science and Technology</i> , 2015, 5, 2590-2601.	2.1	104
90	Conversion of Furfural to 1,5-Pentanediol: Process Synthesis and Analysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4699-4706.	3.2	104

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91	Coupling of glycerol processing with Fischer-Tropsch synthesis for production of liquid fuels. <i>Green Chemistry</i> , 2007, 9, 1073.	4.6	103
92	Tandem Catalytic Conversion of Glucose to 5-Hydroxymethylfurfural with an Immobilized Enzyme and a Solid Acid. <i>ACS Catalysis</i> , 2014, 4, 2165-2168.	5.5	102
93	Microkinetic analysis and mechanism of the water gas shift reaction over copper catalysts. <i>Journal of Catalysis</i> , 2011, 281, 1-11.	3.1	100
94	Chemicals from Biomass: Combining Ring-Opening Tautomerization and Hydrogenation Reactions to Produce 1,5-Pentanediol from Furfural. <i>ChemSusChem</i> , 2017, 10, 1351-1355.	3.6	100
95	AgPd and CuPd Catalysts for Selective Hydrogenation of Acetylene. <i>ACS Catalysis</i> , 2020, 10, 8567-8581.	5.5	96
96	Dehydration of butanol to butene over solid acid catalysts in high water environments. <i>Journal of Catalysis</i> , 2009, 262, 134-143.	3.1	93
97	Density Functional Theory Calculations and Analysis of Reaction Pathways for Reduction of Nitric Oxide by Hydrogen on Pt(111). <i>ACS Catalysis</i> , 2014, 4, 3307-3319.	5.5	93
98	Methane Conversion to Ethylene and Aromatics on PtSn Catalysts. <i>ACS Catalysis</i> , 2017, 7, 2088-2100.	5.5	93
99	Exploring Meerwein-Ponndorf-Verley Reduction Chemistry for Biomass Catalysis Using a First-Principles Approach. <i>ACS Catalysis</i> , 2013, 3, 2694-2704.	5.5	92
100	A lignocellulosic ethanol strategy via nonenzymatic sugar production: Process synthesis and analysis. <i>Bioresource Technology</i> , 2015, 182, 258-266.	4.8	91
101	Carbon Overcoating of Supported Metal Catalysts for Improved Hydrothermal Stability. <i>ACS Catalysis</i> , 2015, 5, 4546-4555.	5.5	88
102	Transition-Metal Nitride Core@Noble-Metal Shell Nanoparticles as Highly CO Tolerant Catalysts. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8828-8833.	7.2	88
103	Catalytic upgrading of lactic acid to fuels and chemicals by dehydration/hydrogenation and C-C coupling reactions. <i>Green Chemistry</i> , 2009, 11, 1101.	4.6	87
104	Formic acid decomposition on Au catalysts: DFT, microkinetic modeling, and reaction kinetics experiments. <i>AIChE Journal</i> , 2014, 60, 1303-1319.	1.8	87
105	Reverse Water-Gas Shift on Interfacial Sites Formed by Deposition of Oxidized Molybdenum Moieties onto Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2015, 137, 10317-10325.	6.6	87
106	A General Framework for the Evaluation of Direct Nonoxidative Methane Conversion Strategies. <i>Joule</i> , 2018, 2, 349-365.	11.7	86
107	Density functional theory studies of the adsorption of ethylene and oxygen on Pt(111) and Pt <sub>3</sub> Sn(111). <i>Journal of Chemical Physics</i> , 2001, 114, 4663.	1.2	80
108	Functionality and molecular weight distribution of red oak lignin before and after pyrolysis and hydrogenation. <i>Green Chemistry</i> , 2017, 19, 1378-1389.	4.6	80

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109	Microcalorimetric studies of zeolite acidity. <i>Catalysis Letters</i> , 1992, 12, 201-211.	1.4	79
110	Ketonization Reactions of Carboxylic Acids and Esters over Ceria/Zirconia as Biomass-Upgrading Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 6027-6033.	1.8	79
111	A machine learning framework for the analysis and prediction of catalytic activity from experimental data. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118257.	10.8	76
112	Coupling chemical and biological catalysis: a flexible paradigm for producing biobased chemicals. <i>Current Opinion in Biotechnology</i> , 2016, 38, 54-62.	3.3	74
113	Microkinetic Analysis and Scaling Relations for Catalyst Design. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2018, 9, 413-450.	3.3	73
114	Oxygenated commodity chemicals from chemo-catalytic conversion of biomass derived heterocycles. <i>AIChE Journal</i> , 2018, 64, 1910-1922.	1.8	73
115	A sulfuric acid management strategy for the production of liquid hydrocarbon fuels via catalytic conversion of biomass-derived levulinic acid. <i>Energy and Environmental Science</i> , 2012, 5, 9690.	15.6	72
116	Operando Solid-State NMR Observation of Solvent-Mediated Adsorption-Reaction of Carbohydrates in Zeolites. <i>ACS Catalysis</i> , 2017, 7, 3489-3500.	5.5	70
117	Hydrogenation of levoglucosenone to renewable chemicals. <i>Green Chemistry</i> , 2017, 19, 1278-1285.	4.6	70
118	Bimetallic RhRe/C catalysts for the production of biomass-derived chemicals. <i>Journal of Catalysis</i> , 2013, 308, 226-236.	3.1	69
119	Enhanced Furfural Yields from Xylose Dehydration in the Valerolactone/Water Solvent System at Elevated Temperatures. <i>ChemSusChem</i> , 2018, 11, 2321-2331.	3.6	69
120	Reaction Kinetics of Ethylene Glycol Reforming over Platinum in the Vapor versus Aqueous Phases. <i>Journal of Physical Chemistry C</i> , 2011, 115, 961-971.	1.5	68
121	Water-Compatible Lewis Acid-Catalyzed Conversion of Carbohydrates to 5-Hydroxymethylfurfural in a Biphasic Solvent System. <i>Topics in Catalysis</i> , 2012, 55, 657-662.	1.3	66
122	Dual-bed catalyst system for C-C coupling of biomass-derived oxygenated hydrocarbons to fuel-grade compounds. <i>Green Chemistry</i> , 2010, 12, 223.	4.6	65
123	Engineering Catalyst Microenvironments for Metal-Catalyzed Hydrogenation of Biologically Derived Platform Chemicals. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12718-12722.	7.2	64
124	Fundamental catalytic challenges to design improved biomass conversion technologies. <i>Journal of Catalysis</i> , 2019, 369, 518-525.	3.1	64
125	Graphitic Carbon Layers on Oxides: Toward Stable Heterogeneous Catalysts for Biomass Conversion Reactions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7939-7943.	7.2	63
126	Supercritical methanol depolymerization and hydrodeoxygenation of lignin and biomass over reduced copper porous metal oxides. <i>Green Chemistry</i> , 2019, 21, 2988-3005.	4.6	63



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127	Aqueous Phase Glycerol Reforming by PtMo Bimetallic Nano-Particle Catalyst: Product Selectivity and Structural Characterization. <i>Topics in Catalysis</i> , 2012, 55, 53-69.	1.3	62
128	Ammonia synthesis kinetics: Surface chemistry, rate expressions, and kinetic analysis. <i>Topics in Catalysis</i> , 1994, 1, 233-252.	1.3	61
129	New catalytic strategies for $\alpha,\omega$ -diols production from lignocellulosic biomass. <i>Faraday Discussions</i> , 2017, 202, 247-267.	1.6	61
130	Gold-catalyzed conversion of lignin to low molecular weight aromatics. <i>Chemical Science</i> , 2018, 9, 8127-8133.	3.7	61
131	Improving economics of lignocellulosic biofuels: An integrated strategy for coproducing 1,5-pentanediol and ethanol. <i>Applied Energy</i> , 2018, 213, 585-594.	5.1	60
132	Production of butene oligomers as transportation fuels using butene for esterification of levulinic acid from lignocellulosic biomass: process synthesis and techno-economic evaluation. <i>Green Chemistry</i> , 2012, 14, 3289.	4.6	59
133	Characterizing Substrate-Surface Interactions on Alumina-Supported Metal Catalysts by Dynamic Nuclear Polarization-Enhanced Double-Resonance NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 2702-2709.	6.6	59
134	Improving the production of maleic acid from biomass: TS-1 catalysed aqueous phase oxidation of furfural in the presence of $\gamma$ -valerolactone. <i>Green Chemistry</i> , 2018, 20, 2845-2856.	4.6	58
135	Synthesis of supported bimetallic nanoparticles with controlled size and composition distributions for active site elucidation. <i>Journal of Catalysis</i> , 2015, 328, 75-90.	3.1	57
136	Synthesis of biomass-derived feedstocks for the polymers and fuels industries from 5-(hydroxymethyl)furfural (HMF) and acetone. <i>Green Chemistry</i> , 2019, 21, 5532-5540.	4.6	57
137	Mechanistic Insights into Ring-Opening and Decarboxylation of 2-Pyrones in Liquid Water and Tetrahydrofuran. <i>Journal of the American Chemical Society</i> , 2013, 135, 5699-5708.	6.6	56
138	Kinetic and mechanistic insights into hydrogenolysis of lignin to monomers in a continuous flow reactor. <i>Green Chemistry</i> , 2019, 21, 3561-3572.	4.6	56
139	An engineered solvent system for sugar production from lignocellulosic biomass using biomass derived $\gamma$ -valerolactone. <i>Green Chemistry</i> , 2016, 18, 5756-5763.	4.6	55
140	Density-functional theory studies of acetone and propanal hydrogenation on Pt(111). <i>Journal of Chemical Physics</i> , 2002, 116, 8973-8980.	1.2	54
141	Microcalorimetric, Infrared Spectroscopic, and DFT Studies of Ethylene Adsorption on Pd and Pd/Sn Catalysts. <i>Langmuir</i> , 2000, 16, 2213-2219.	1.6	52
142	Hydrogenation of $\gamma$ -Butyrolactone to 1,4-Butanediol over CuCo/TiO <sub>2</sub> Bimetallic Catalysts. <i>ACS Catalysis</i> , 2017, 7, 8429-8440.	5.5	52
143	Synthesis Gas Conversion over Rh-Based Catalysts Promoted by Fe and Mn. <i>ACS Catalysis</i> , 2017, 7, 4550-4563.	5.5	51
144	Reaction Mechanism of Vapor-Phase Formic Acid Decomposition over Platinum Catalysts: DFT, Reaction Kinetics Experiments, and Microkinetic Modeling. <i>ACS Catalysis</i> , 2020, 10, 4112-4126.	5.5	51

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145	Effects of Water on the Copper-Catalyzed Conversion of Hydroxymethylfurfural in Tetrahydrofuran. ChemSusChem, 2015, 8, 3983-3986.	3.6	47
146	The role of Pt-FexOy interfacial sites for CO oxidation. Journal of Catalysis, 2018, 358, 19-26.	3.1	46
147	Measurement of intrinsic catalytic activity of Pt monometallic and Pt-MoOx interfacial sites over visible light enhanced PtMoOx/SiO2 catalyst in reverse water gas shift reaction. Journal of Catalysis, 2016, 344, 784-794.	3.1	45
148	Effect of Mixed-Solvent Environments on the Selectivity of Acid-Catalyzed Dehydration Reactions. ACS Catalysis, 2020, 10, 1679-1691.	5.5	45
149	Microkinetic analysis of methane dimerization reaction. Industrial & Engineering Chemistry Research, 1991, 30, 2114-2123.	1.8	44
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