

James A Dumesic

List of Publications by Year in descending order

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259
papers

41,049
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2370

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h-index

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198
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all docs

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docs citations

278
times ranked

23329
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of sustainable processes for production of monomers and a pharmaceutical ingredient from lignocellulosic biomass. <i>Cell Reports Physical Science</i> , 2024, 5, 101859.	5.8	0
2	Poplar lignin structural changes during extraction in γ -valerolactone (GVL). <i>Green Chemistry</i> , 2023, 25, 336-347.	9.2	20
3	Design of supported organocatalysts from a biomass-derived difuran compound and catalytic assessment for lactose hydrolysis. <i>Green Chemistry</i> , 2023, 25, 1809-1822.	9.2	2
4	Evolution of the Cellulose Microfibril through Gamma-Valerolactone-Assisted Co-Solvent and Enzymatic Hydrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11, 3270-3283.	6.8	3
5	A Coverage Self-Consistent Microkinetic Model for Vapor-Phase Formic Acid Decomposition over Pd/C Catalysts. <i>ACS Catalysis</i> , 2023, 13, 3655-3667.	11.5	7
6	Controlling the toxicity of biomass-derived difunctional molecules as potential pharmaceutical ingredients for specific activity toward microorganisms and mammalian cells. <i>Green Chemistry</i> , 2023, 25, 5416-5427.	9.2	2
7	Catalytic conversion of cellulose to levoglucosenone using propylsulfonic acid functionalized SBA-15 and H ₂ SO ₄ in tetrahydrofuran. <i>Biomass and Bioenergy</i> , 2022, 156, 106315.	5.8	7
8	Ethanol to distillate-range molecules using Cu/Mg _x AlO _y catalysts with low Cu loadings. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120984.	20.4	19
9	Mechanistic Study of 1,2-Dichloroethane Hydrodechlorination on Cu-Rich Pt-Cu Alloys: Combining Reaction Kinetics Experiments with DFT Calculations and Microkinetic Modeling. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1509-1523.	6.8	4
10	Controlled hydrogenation of a biomass-derived platform chemical formed by aldol-condensation of 5-hydroxymethyl furfural (HMF) and acetone over Ru, Pd, and Cu catalysts. <i>Green Chemistry</i> , 2022, 24, 2146-2159.	9.2	16
11	Identifying hydroxylated copper dimers in SSZ-13 via UV-vis-NIR spectroscopy. <i>Catalysis Science and Technology</i> , 2022, 12, 2744-2748.	4.2	11
12	Effect of catalyst support on cobalt catalysts for ethylene oligomerization into linear olefins. <i>Catalysis Science and Technology</i> , 2022, 12, 3639-3649.	4.2	6
13	Solvent and Chloride Ion Effects on the Acid-Catalyzed Conversion of Glucose to 5-Hydroxymethylfurfural. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8275-8288.	6.8	12
14	Effects of Water Addition to Isopropanol for Hydrogenation of Compounds Derived from 5-Hydroxymethyl Furfural over Pd, Ru, and Cu Catalysts. <i>ACS Catalysis</i> , 2022, 12, 10186-10198.	11.5	11
15	Tunable Solid Acid Catalyst Thin Films Prepared by Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 43171-43179.	8.2	3
16	Production of glucose-galactose syrup and milk minerals from Greek yogurt acid whey. <i>Green Chemistry</i> , 2022, 24, 8538-8551.	9.2	4
17	Microkinetic Modeling: A Tool for Rational Catalyst Design. <i>Chemical Reviews</i> , 2021, 121, 1049-1076.	50.5	232
18	Synthesis of performance-advantaged polyurethanes and polyesters from biomass-derived monomers by aldol-condensation of 5-hydroxymethyl furfural and hydrogenation. <i>Green Chemistry</i> , 2021, 23, 4355-4364.	9.2	28

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19	Renewable linear alpha-olefins by base-catalyzed dehydration of biologically-derived fatty alcohols. <i>Green Chemistry</i> , 2021, 23, 4338-4354.	9.2	10
20	Design of closed-loop recycling production of a Diels-Alder polymer from a biomass-derived difuran as a functional additive for polyurethanes. <i>Green Chemistry</i> , 2021, 23, 9479-9488.	9.2	15
21	Sustainable production of 5-hydroxymethyl furfural from glucose for process integration with high fructose corn syrup infrastructure. <i>Green Chemistry</i> , 2021, 23, 3277-3288.	9.2	33
22	Effects of water on the kinetics of acetone hydrogenation over Pt and Ru catalysts. <i>Journal of Catalysis</i> , 2021, 403, 215-227.	6.4	15
23	Visualizing plant cell wall changes proves the superiority of hydrochloric acid over sulfuric acid catalyzed l ³ -valerolactone pretreatment. <i>Chemical Engineering Journal</i> , 2021, 412, 128660.	12.8	28
24	Reaction kinetics study of ethylene oligomerization into linear olefins over carbon-supported cobalt catalysts. <i>Journal of Catalysis</i> , 2021, 404, 954-963.	6.4	5
25	Hydrodechlorination of 1,2-Dichloroethane on Platinum Catalysts: Insights from Reaction Kinetics Experiments, Density Functional Theory, and Microkinetic Modeling. <i>ACS Catalysis</i> , 2021, 11, 7890-7905.	11.5	16
26	Chemical kinetics for generalized two-step reaction schemes. <i>Journal of Catalysis</i> , 2021, 404, 850-863.	6.4	2
27	Ethylene oligomerization into linear olefins over cobalt oxide on carbon catalyst. <i>Catalysis Science and Technology</i> , 2021, 11, 3599-3608.	4.2	12
28	The relevance of Lewis acid sites on the gas phase reaction of levulinic acid into ethyl valerate using CoSBA-x/Al bifunctional catalysts. <i>Catalysis Science and Technology</i> , 2021, 11, 4280-4293.	4.2	6
29	Production of Hexane-1,2,5,6-tetrol from Biorenewable Levoglucosan over Pt-WO ₃ /TiO ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16123-16132.	6.8	4
30	A machine learning framework for the analysis and prediction of catalytic activity from experimental data. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118257.	20.4	85
31	Synthesis of Hexane-Tetrols and -Triols with Fixed Hydroxyl Group Positions and Stereochemistry from Methyl Glycosides over Supported Metal Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 800-805.	6.8	14
32	Catalytic Production of Glucose-Galactose Syrup from Greek Yogurt Acid Whey in a Continuous-Flow Reactor. <i>ChemSusChem</i> , 2020, 13, 791-802.	7.4	6
33	Effect of Mixed-Solvent Environments on the Selectivity of Acid-Catalyzed Dehydration Reactions. <i>ACS Catalysis</i> , 2020, 10, 1679-1691.	11.5	51
34	Synthesis Gas Conversion Over Molybdenum-Based Catalysts Promoted by Transition Metals. <i>ACS Catalysis</i> , 2020, 10, 365-374.	11.5	22
35	Chemical-Switching Strategy for Synthesis and Controlled Release of Norcantharimides from a Biomass-Derived Chemical. <i>ChemSusChem</i> , 2020, 13, 5213-5219.	7.4	21
36	Recycling of multilayer plastic packaging materials by solvent-targeted recovery and precipitation. <i>Science Advances</i> , 2020, 6, .	10.8	208

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37	Production of renewable alcohols from maple wood using supercritical methanol hydrodeoxygenation in a semi-continuous flowthrough reactor. <i>Green Chemistry</i> , 2020, 22, 8462-8477.	9.2	10
38	Production of <i>p</i> -Coumaric Acid from Corn GVL-Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17427-17438.	6.8	49
39	Mechanistic Insights into the Conversion of Biorenewable Levoglucosan to Dideoxysugars. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16339-16349.	6.8	4
40	Catalytic strategy for conversion of fructose to organic dyes, polymers, and liquid fuels. <i>Green Chemistry</i> , 2020, 22, 5285-5295.	9.2	23
41	Rates of levoglucosanol hydrogenolysis over Brønsted and Lewis acid sites on platinum silica-alumina catalysts synthesized by atomic layer deposition. <i>Journal of Catalysis</i> , 2020, 389, 111-120.	6.4	8
42	Mechanistic Study of Diaryl Ether Bond Cleavage during Palladium-Catalyzed Lignin Hydrogenolysis. <i>ChemSusChem</i> , 2020, 13, 4487-4494.	7.4	38
43	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.	11.5	63
44	AgPd and CuPd Catalysts for Selective Hydrogenation of Acetylene. <i>ACS Catalysis</i> , 2020, 10, 8567-8581.	11.5	111
45	Enhanced Acid-Catalyzed Lignin Depolymerization in a Continuous Reactor with Stable Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4096-4106.	6.8	28
46	A self-adjusting platinum surface for acetone hydrogenation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3446-3450.	7.5	19
47	Rational Design of Mixed Solvent Systems for Acid-Catalyzed Biomass Conversion Processes Using a Combined Experimental, Molecular Dynamics and Machine Learning Approach. <i>Topics in Catalysis</i> , 2020, 63, 649-663.	2.9	14
48	Solid-State NMR Studies of Solvent-Mediated, Acid-Catalyzed Woody Biomass Pretreatment for Enzymatic Conversion of Residual Cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6551-6563.	6.8	10
49	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.	9.2	61
50	Catalytic hydrogenation of dihydrolevoglucosenone to levoglucosanol with a hydrotalcite/mixed oxide copper catalyst. <i>Green Chemistry</i> , 2019, 21, 5000-5007.	9.2	19
51	Catalytic C-O bond hydrogenolysis of tetrahydrofuran-dimethanol over metal supported WO _x /TiO ₂ catalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117945.	20.4	33
52	Catalytic dehydration of levoglucosan to levoglucosenone using Brønsted solid acid catalysts in tetrahydrofuran. <i>Green Chemistry</i> , 2019, 21, 4988-4999.	9.2	34
53	A comparative study of secondary depolymerization methods on oxidized lignins. <i>Green Chemistry</i> , 2019, 21, 3940-3947.	9.2	39
54	Hexane-1,2,5,6-tetrol as a Versatile and Biobased Building Block for the Synthesis of Sustainable (Chiral) Crystalline Mesoporous Polyboronates. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13430-13436.	6.8	7

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55	Condensed Phase Deactivation of Solid Brønsted Acids in the Dehydration of Fructose to Hydroxymethylfurfural. ACS Catalysis, 2019, 9, 11568-11578.	11.5	22
56	Hydrodechlorination of 1,2-dichloroethane on supported AgPd catalysts. Journal of Catalysis, 2019, 370, 241-250.	6.4	31
57	Growth-coupled bioconversion of levulinic acid to butanone. Metabolic Engineering, 2019, 55, 92-101.	7.1	17
58	On the nature of active sites for formic acid decomposition on gold catalysts. Catalysis Science and Technology, 2019, 9, 2836-2848.	4.2	24
59	<i>In situ</i> , <i>operando</i> studies on the size and structure of supported Pt catalysts under supercritical conditions by simultaneous synchrotron-based X-ray techniques. Physical Chemistry Chemical Physics, 2019, 21, 11740-11747.	2.9	7
60	Supercritical methanol depolymerization and hydrodeoxygenation of lignin and biomass over reduced copper porous metal oxides. Green Chemistry, 2019, 21, 2988-3005.	9.2	65
61	Kinetic and mechanistic insights into hydrogenolysis of lignin to monomers in a continuous flow reactor. Green Chemistry, 2019, 21, 3561-3572.	9.2	61
62	Chemistries and processes for the conversion of ethanol into middle-distillate fuels. Nature Reviews Chemistry, 2019, 3, 223-249.	22.3	152
63	Effects of chloride ions in acid-catalyzed biomass dehydration reactions in polar aprotic solvents. Nature Communications, 2019, 10, 1132.	13.0	129
64	Solvent system for effective near-term production of hydroxymethylfurfural (HMF) with potential for long-term process improvement. Energy and Environmental Science, 2019, 12, 2212-2222.	31.9	146
65	Ethanol condensation at elevated pressure over copper on AlMgO and AlCaO porous mixed-oxide supports. Catalysis Science and Technology, 2019, 9, 2032-2042.	4.2	28
66	Computational Framework for the Identification of Bioprivileged Molecules. ACS Sustainable Chemistry and Engineering, 2019, 7, 2414-2428.	6.8	21
67	Synthesis Gas Conversion over Rh/Mo Catalysts Prepared by Atomic Layer Deposition. ACS Catalysis, 2019, 9, 1810-1819.	11.5	38
68	Fundamental catalytic challenges to design improved biomass conversion technologies. Journal of Catalysis, 2019, 369, 518-525.	6.4	73
69	Solvent-enabled control of reactivity for liquid-phase reactions of biomass-derived compounds. Nature Catalysis, 2018, 1, 199-207.	28.0	225
70	Intrinsic activity of interfacial sites for Pt-Fe and Pt-Mo catalysts in the hydrogenation of carbonyl groups. Applied Catalysis B: Environmental, 2018, 231, 182-190.	20.4	42
71	Microkinetic Analysis and Scaling Relations for Catalyst Design. Annual Review of Chemical and Biomolecular Engineering, 2018, 9, 413-450.	7.1	81
72	Oxygenated commodity chemicals from chemo-catalytic conversion of biomass derived heterocycles. AIChE Journal, 2018, 64, 1910-1922.	3.6	76

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73	A General Framework for the Evaluation of Direct Nonoxidative Methane Conversion Strategies. <i>Joule</i> , 2018, 2, 349-365.	24.5	95
74	Production of Alcohols from Cellulose by Supercritical Methanol Depolymerization and Hydrodeoxygenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4330-4344.	6.8	46
75	Universal kinetic solvent effects in acid-catalyzed reactions of biomass-derived oxygenates. <i>Energy and Environmental Science</i> , 2018, 11, 617-628.	31.9	132
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.	6.8	125
77	Toward biomass-derived renewable plastics: Production of 2,5-furandicarboxylic acid from fructose. <i>Science Advances</i> , 2018, 4, eaap9722.	10.8	298
78	Synthesis of 1,6-Hexanediol from Cellulose Derived Tetrahydrofuran-Dimethanol with Pt-WO ₃ /TiO ₂ Catalysts. <i>ACS Catalysis</i> , 2018, 8, 1427-1439.	11.5	121
79	Ethane dehydrogenation on pristine and AlO _x decorated Pt stepped surfaces. <i>Catalysis Science and Technology</i> , 2018, 8, 2159-2174.	4.2	18
80	Production of monosaccharides and whey protein from acid whey waste streams in the dairy industry. <i>Green Chemistry</i> , 2018, 20, 1824-1834.	9.2	44
81	Mechanistic Insights into the Hydrogenolysis of Levoglucosan over Bifunctional Platinum Silica-Alumina Catalysts. <i>ACS Catalysis</i> , 2018, 8, 3743-3753.	11.5	15
82	Catalysts synthesized by selective deposition of Fe onto Pt for the water-gas shift reaction. <i>Applied Catalysis B: Environmental</i> , 2018, 222, 182-190.	20.4	34
83	The role of Pt-FexOy interfacial sites for CO oxidation. <i>Journal of Catalysis</i> , 2018, 358, 19-26.	6.4	49
84	Improving economics of lignocellulosic biofuels: An integrated strategy for coproducing 1,5-pentanediol and ethanol. <i>Applied Energy</i> , 2018, 213, 585-594.	10.2	66
85	Amination of 1-hexanol on bimetallic AuPd/TiO ₂ catalysts. <i>Green Chemistry</i> , 2018, 20, 4695-4709.	9.2	22
86	An "ideal lignin" facilitates full biomass utilization. <i>Science Advances</i> , 2018, 4, eaau2968.	10.8	198
87	Synthesis Gas Conversion over Rh-Mn-W ₃ C/SiO ₂ Catalysts Prepared by Atomic Layer Deposition. <i>ACS Catalysis</i> , 2018, 8, 10707-10720.	11.5	21
88	Gold-catalyzed conversion of lignin to low molecular weight aromatics. <i>Chemical Science</i> , 2018, 9, 8127-8133.	7.7	67
89	Catalytic production of hexane-1,2,5,6-tetrol from bio-renewable levoglucosan in water: effect of metal and acid sites on (stereo)-selectivity. <i>Green Chemistry</i> , 2018, 20, 4557-4565.	9.2	22
90	Enhanced Furfural Yields from Xylose Dehydration in the γ -Valerolactone/Water Solvent System at Elevated Temperatures. <i>ChemSusChem</i> , 2018, 11, 2321-2331.	7.4	71

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91	Selective Production of Terminally Unsaturated Methyl Esters from Lactones Over Metal Oxide Catalysts. <i>Catalysis Letters</i> , 2018, 148, 3072-3081.	2.7	7
92	Improving the production of maleic acid from biomass: TS-1 catalysed aqueous phase oxidation of furfural in the presence of Î³-valerolactone. <i>Green Chemistry</i> , 2018, 20, 2845-2856.	9.2	60
93	Methane Conversion to Ethylene and Aromatics on PtSn Catalysts. <i>ACS Catalysis</i> , 2017, 7, 2088-2100.	11.5	97
94	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.	14.5	62
95	Functionality and molecular weight distribution of red oak lignin before and after pyrolysis and hydrogenation. <i>Green Chemistry</i> , 2017, 19, 1378-1389.	9.2	82
96	Chemicals from Biomass: Combining Ring-Opening Tautomerization and Hydrogenation Reactions to Produce 1,5-Pentanediol from Furfural. <i>ChemSusChem</i> , 2017, 10, 1351-1355.	7.4	112
97	Production of 1,6-hexanediol from tetrahydropyran-2-methanol by dehydration-hydration and hydrogenation. <i>Green Chemistry</i> , 2017, 19, 1390-1398.	9.2	25
98	Conversion of Furfural to 1,5-Pentanediol: Process Synthesis and Analysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4699-4706.	6.8	119
99	Increasing the revenue from lignocellulosic biomass: Maximizing feedstock utilization. <i>Science Advances</i> , 2017, 3, e1603301.	10.8	365
100	Production of levoglucosenone and 5-hydroxymethylfurfural from cellulose in polar aprotic solvent-water mixtures. <i>Green Chemistry</i> , 2017, 19, 3642-3653.	9.2	128
101	Comparison of Fast Pyrolysis Behavior of Cornstover Lignins Isolated by Different Methods. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5657-5661.	6.8	13
102	Transition-Metal Nitride Core@Noble-Metal Shell Nanoparticles as Highly CO Tolerant Catalysts. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8828-8833.	14.6	91
103	Transition-Metal Nitride Core@Noble-Metal Shell Nanoparticles as Highly CO Tolerant Catalysts. <i>Angewandte Chemie</i> , 2017, 129, 8954-8959.	2.1	12
104	Synthesis Gas Conversion over Rh-Based Catalysts Promoted by Fe and Mn. <i>ACS Catalysis</i> , 2017, 7, 4550-4563.	11.5	57
105	Operando Solid-State NMR Observation of Solvent-Mediated Adsorption-Reaction of Carbohydrates in Zeolites. <i>ACS Catalysis</i> , 2017, 7, 3489-3500.	11.5	74
106	A co-solvent hydrolysis strategy for the production of biofuels: process synthesis and techno-economic analysis. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 397-405.	3.5	42
107	New catalytic strategies for Î±,Î²-diols production from lignocellulosic biomass. <i>Faraday Discussions</i> , 2017, 202, 247-267.	3.6	63
108	Hydrogenation of levoglucosenone to renewable chemicals. <i>Green Chemistry</i> , 2017, 19, 1278-1285.	9.2	71

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109	Hydrogenation of C^{13} -Butyrolactone to 1,4-Butanediol over CuCo/TiO ₂ Bimetallic Catalysts. ACS Catalysis, 2017, 7, 8429-8440.	11.5	58
110	Solvent-Solid Interface of Acid Catalysts Studied by High Resolution MAS NMR. Journal of Physical Chemistry C, 2017, 121, 17226-17234.	3.2	11
111	Supported two- and three-dimensional vanadium oxide species on the surface of C^{12} -SiC. Catalysis Science and Technology, 2017, 7, 3707-3714.	4.2	7
112	Ring Opening of Biomass-Derived Cyclic Ethers to Dienes over Silica/Alumina. ACS Catalysis, 2017, 7, 5248-5256.	11.5	38
113	Kinetics of Levoglucosenone Isomerization. ChemSusChem, 2017, 10, 129-138.	7.4	38
114	Effect of Particle Size upon Pt/SiO ₂ Catalytic Cracking of n-Dodecane under Supercritical Conditions: In-situ SAXS and XANES Studies. ChemCatChem, 2017, 9, 99-102.	3.8	11
115	Correction to "Selective Hydrogenation of Unsaturated Carbon-Carbon Bonds in Aromatic-Containing Platform Molecules". ACS Catalysis, 2016, 6, 3127-3127.	11.5	0
116	Analysis of reaction schemes using maximum rates of constituent steps. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2879-88.	7.5	36
117	Role of the Cu-ZrO ₂ Interfacial Sites for Conversion of Ethanol to Ethyl Acetate and Synthesis of Methanol from CO ₂ and H ₂ . ACS Catalysis, 2016, 6, 7040-7050.	11.5	144
118	Effect of carbon supports on RhRe bifunctional catalysts for selective hydrogenolysis of tetrahydropyran-2-methanol. Catalysis Science and Technology, 2016, 6, 7841-7851.	4.2	26
119	An engineered solvent system for sugar production from lignocellulosic biomass using biomass derived C^{13} -valerolactone. Green Chemistry, 2016, 18, 5756-5763.	9.2	58
120	Measurement of intrinsic catalytic activity of Pt monometallic and Pt-MoOx interfacial sites over visible light enhanced PtMoOx/SiO ₂ catalyst in reverse water gas shift reaction. Journal of Catalysis, 2016, 344, 784-794.	6.4	47
121	Coupling chemical and biological catalysis: a flexible paradigm for producing biobased chemicals. Current Opinion in Biotechnology, 2016, 38, 54-62.	6.8	75
122	PtMo Bimetallic Catalysts Synthesized by Controlled Surface Reactions for Water Gas Shift. ACS Catalysis, 2016, 6, 1334-1344.	11.5	39
123	Identifying low-coverage surface species on supported noble metal nanoparticle catalysts by DNP-NMR. Chemical Communications, 2016, 52, 1859-1862.	4.2	36
124	Active sites and mechanisms for H ₂ O decomposition over Pd catalysts. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1973-82.	7.5	180
125	Selective Hydrogenation of Unsaturated Carbon-Carbon Bonds in Aromatic-Containing Platform Molecules. ACS Catalysis, 2016, 6, 2047-2054.	11.5	24
126	Modifying the Surface Properties of Heterogeneous Catalysts Using Polymer-Derived Microenvironments. Topics in Catalysis, 2016, 59, 19-28.	2.9	10

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127	Methionine bound to Pd/ γ -Al ₂ O ₃ catalysts studied by solid-state ¹³ C NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2015, 72, 64-72.	2.0	7
128	Graphiticâ€Carbon Layers on Oxides: Toward Stable Heterogeneous Catalysts for Biomass Conversion Reactions. <i>Angewandte Chemie</i> , 2015, 127, 8050-8054.	2.1	11
129	Effects of Water on the Copperâ€Catalyzed Conversion of Hydroxymethylfurfural in Tetrahydrofuran. <i>ChemSusChem</i> , 2015, 8, 3983-3986.	7.4	48
130	Solventâ€Enabled Nonenzymatic Sugar Production from Biomass for Chemical and Biological Upgrading. <i>ChemSusChem</i> , 2015, 8, 1317-1322.	7.4	31
131	Synthesis of Supported RhMo and PtMo Bimetallic Catalysts by Controlled Surface Reactions. <i>ChemCatChem</i> , 2015, 7, 3881-3886.	3.8	26
132	Graphiticâ€Carbon Layers on Oxides: Toward Stable Heterogeneous Catalysts for Biomass Conversion Reactions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7939-7943.	14.6	64
133	Dehydration of cellulose to levoglucosenone using polar aprotic solvents. <i>Energy and Environmental Science</i> , 2015, 8, 1808-1815.	31.9	171
134	Synthesis of supported bimetallic nanoparticles with controlled size and composition distributions for active site elucidation. <i>Journal of Catalysis</i> , 2015, 328, 75-90.	6.4	58
135	A lignocellulosic ethanol strategy via nonenzymatic sugar production: Process synthesis and analysis. <i>Bioresource Technology</i> , 2015, 182, 258-266.	9.6	95
136	Catalyst Design with Atomic Layer Deposition. <i>ACS Catalysis</i> , 2015, 5, 1804-1825.	11.5	633
137	Inhibition of Metal Hydrogenation Catalysts by Biogenic Impurities. <i>Catalysis Letters</i> , 2015, 145, 15-22.	2.7	27
138	Reverse Waterâ€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.	14.5	92
139	Lignin monomer production integrated into the γ -valerolactone sugar platform. <i>Energy and Environmental Science</i> , 2015, 8, 2657-2663.	31.9	223
140	Tuning Acidâ€Base Properties Using Mgâ€Al Oxide Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16573-16580.	8.2	20
141	Stabilizing cobalt catalysts for aqueous-phase reactions by strong metal-support interaction. <i>Journal of Catalysis</i> , 2015, 330, 19-27.	6.4	114
142	Carbon Overcoating of Supported Metal Catalysts for Improved Hydrothermal Stability. <i>ACS Catalysis</i> , 2015, 5, 4546-4555.	11.5	88
143	Selective Production of Levulinic Acid from Furfuryl Alcohol in THF Solvent Systems over H-ZSM-5. <i>ACS Catalysis</i> , 2015, 5, 3354-3359.	11.5	121
144	Direct Synthesis of Hydrogen Peroxide Over Auâ€Pd Catalysts Prepared by Electroless Deposition. <i>Catalysis Letters</i> , 2015, 145, 2057-2065.	2.7	11

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145	Plasmon-enhanced reverse water gas shift reaction over oxide supported Au catalysts. <i>Catalysis Science and Technology</i> , 2015, 5, 2590-2601.	4.2	106
146	Engineering Catalyst Microenvironments for Metal-Catalyzed Hydrogenation of Biologically Derived Platform Chemicals. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12718-12722.	14.6	64
147	Formic acid decomposition on Au catalysts: DFT, microkinetic modeling, and reaction kinetics experiments. <i>AIChE Journal</i> , 2014, 60, 1303-1319.	3.6	88
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