

George W Huber

List of Publications by Year in descending order

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260
papers

40,335
citations

5434

84
h-index

2410

197
g-index

283
all docs

283
docs citations

283
times ranked

26878
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Transportation Fuels from Biomass: Chemistry, Catalysts, and Engineering. <i>Chemical Reviews</i> , 2006, 106, 4044-4098.	51.4	6,937
2	Catalytic Transformation of Lignin for the Production of Chemicals and Fuels. <i>Chemical Reviews</i> , 2015, 115, 11559-11624.	51.4	2,321
3	Liquid-Phase Catalytic Processing of Biomass-Derived Oxygenated Hydrocarbons to Fuels and Chemicals. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7164-7183.	14.8	2,183
4	Production of Liquid Alkanes by Aqueous-Phase Processing of Biomass-Derived Carbohydrates. <i>Science</i> , 2005, 308, 1446-1450.	20.9	1,525
5	Synergies between Bio- and Oil Refineries for the Production of Fuels from Biomass. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7184-7201.	14.8	1,245
6	Investigation into the shape selectivity of zeolite catalysts for biomass conversion. <i>Journal of Catalysis</i> , 2011, 279, 257-268.	6.5	989
7	Aromatic Production from Catalytic Fast Pyrolysis of Biomass-Derived Feedstocks. <i>Topics in Catalysis</i> , 2009, 52, 241-252.	3.0	633
8	Catalyst Design with Atomic Layer Deposition. <i>ACS Catalysis</i> , 2015, 5, 1804-1825.	11.7	633
9	An overview of aqueous-phase catalytic processes for production of hydrogen and alkanes in a biorefinery. <i>Catalysis Today</i> , 2006, 111, 119-132.	4.9	620
10	Kinetics and Mechanism of Cellulose Pyrolysis. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20097-20107.	3.3	553
11	Processing biomass in conventional oil refineries: Production of high quality diesel by hydrotreating vegetable oils in heavy vacuum oil mixtures. <i>Applied Catalysis A: General</i> , 2007, 329, 120-129.	4.6	528
12	Renewable Alkanes by Aqueous-Phase Reforming of Biomass-Derived Oxygenates. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1549-1551.	14.8	527
13	Production of green aromatics and olefins by catalytic fast pyrolysis of wood sawdust. <i>Energy and Environmental Science</i> , 2011, 4, 145-161.	32.2	522
14	Green Gasoline by Catalytic Fast Pyrolysis of Solid Biomass Derived Compounds. <i>ChemSusChem</i> , 2008, 1, 397-400.	7.5	491
15	Catalytic oxidation of carbohydrates into organic acids and furan chemicals. <i>Chemical Society Reviews</i> , 2018, 47, 1351-1390.	40.3	476
16	Catalytic conversion of biomass-derived feedstocks into olefins and aromatics with ZSM-5: the hydrogen to carbon effective ratio. <i>Energy and Environmental Science</i> , 2011, 4, 2297.	32.2	458
17	Biomass to chemicals: Catalytic conversion of glycerol/water mixtures into acrolein, reaction network. <i>Journal of Catalysis</i> , 2008, 257, 163-171.	6.5	427
18	The critical role of heterogeneous catalysis in lignocellulosic biomass conversion. <i>Energy and Environmental Science</i> , 2009, 2, 68-80.	32.2	411

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19	Catalytic fast pyrolysis of glucose with HZSM-5: The combined homogeneous and heterogeneous reactions. <i>Journal of Catalysis</i> , 2010, 270, 110-124.	6.5	408
20	Recent advances in hydrodeoxygenation of biomass-derived oxygenates over heterogeneous catalysts. <i>Green Chemistry</i> , 2019, 21, 3715-3743.	9.4	403
21	Design of solid acid catalysts for aqueous-phase dehydration of carbohydrates: The role of Lewis and Brønsted acid sites. <i>Journal of Catalysis</i> , 2011, 279, 174-182.	6.5	394
22	Electrochemical Oxidation of 5-Hydroxymethylfurfural with NiFe Layered Double Hydroxide (LDH) Nanosheet Catalysts. <i>ACS Catalysis</i> , 2018, 8, 5533-5541.	11.7	374
23	Optimizing the aromatic yield and distribution from catalytic fast pyrolysis of biomass over ZSM-5. <i>Applied Catalysis A: General</i> , 2012, 423-424, 154-161.	4.6	362
24	Kinetics of furfural production by dehydration of xylose in a biphasic reactor with microwave heating. <i>Green Chemistry</i> , 2010, 12, 1423.	9.4	359
25	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.	32.2	356
26	Production of Renewable Aromatic Compounds by Catalytic Fast Pyrolysis of Lignocellulosic Biomass with Bifunctional Ga/ZSM-5 Catalysts. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1387-1390.	14.8	343
27	Production of levulinic acid from cellulose by hydrothermal decomposition combined with aqueous phase dehydration with a solid acid catalyst. <i>Energy and Environmental Science</i> , 2012, 5, 7559.	32.2	341
28	Production of targeted aromatics by using Diels-Alder classes of reactions with furans and olefins over ZSM-5. <i>Green Chemistry</i> , 2012, 14, 3114.	9.4	340
29	Efficient electrochemical production of glucaric acid and H ₂ via glucose electrolysis. <i>Nature Communications</i> , 2020, 11, 265.	13.2	338
30	Production of jet and diesel fuel range alkanes from waste hemicellulose-derived aqueous solutions. <i>Green Chemistry</i> , 2010, 12, 1933.	9.4	318
31	Aqueous-phase hydrodeoxygenation of sorbitol with Pt/SiO ₂ -Al ₂ O ₃ : Identification of reaction intermediates. <i>Journal of Catalysis</i> , 2010, 270, 48-59.	6.5	313
32	Chemistry of Furan Conversion into Aromatics and Olefins over HZSM-5: A Model Biomass Conversion Reaction. <i>ACS Catalysis</i> , 2011, 1, 611-628.	11.7	307
33	Production of furfural and carboxylic acids from waste aqueous hemicellulose solutions from the pulp and paper and cellulosic ethanol industries. <i>Energy and Environmental Science</i> , 2011, 4, 2193.	32.2	305
34	Aqueous-phase reforming of ethylene glycol over supported Pt and Pd bimetallic catalysts. <i>Applied Catalysis B: Environmental</i> , 2006, 62, 226-235.	20.7	303
35	A general framework for the assessment of solar fuel technologies. <i>Energy and Environmental Science</i> , 2015, 8, 126-157.	32.2	300
36	The pyrolysis chemistry of a Î ² -O-4 type oligomeric lignin model compound. <i>Green Chemistry</i> , 2013, 15, 125-136.	9.4	287

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37	Electrocatalytic Oxidation of Glycerol to Formic Acid by CuCo ₂ O ₄ Spinel Oxide Nanostructure Catalysts. ACS Catalysis, 2020, 10, 6741-6752.	11.7	252
38	Production of hydrogen, alkanes and polyols by aqueous phase processing of wood-derived pyrolysis oils. Green Chemistry, 2009, 11, 1433.	9.4	234
39	A distributed activation energy model for the pyrolysis of lignocellulosic biomass. Green Chemistry, 2013, 15, 1331.	9.4	218
40	Recycling of multilayer plastic packaging materials by solvent-targeted recovery and precipitation. Science Advances, 2020, 6, .	10.9	208
41	Production of <i>p</i> -Xylene from Biomass by Catalytic Fast Pyrolysis Using ZSM-5 Catalysts with Reduced Pore Openings. Angewandte Chemie - International Edition, 2012, 51, 11097-11100.	14.8	205
42	Catalytic fast pyrolysis of wood and alcohol mixtures in a fluidized bed reactor. Green Chemistry, 2012, 14, 98-110.	9.4	204
43	Expanding plastics recycling technologies: chemical aspects, technology status and challenges. Green Chemistry, 2022, 24, 8899-9002.	9.4	199
44	Conversion of glucose into levulinic acid with solid metal(IV) phosphate catalysts. Journal of Catalysis, 2013, 304, 123-134.	6.5	197
45	Production of renewable petroleum refinery diesel and jet fuel feedstocks from hemicellulose sugar streams. Energy and Environmental Science, 2013, 6, 205-216.	32.2	188
46	Kinetics and Reaction Engineering of Levulinic Acid Production from Aqueous Glucose Solutions. ChemSusChem, 2012, 5, 1280-1290.	7.5	172
47	Dehydration of cellulose to levoglucosenone using polar aprotic solvents. Energy and Environmental Science, 2015, 8, 1808-1815.	32.2	171
48	Experimental and DFT Studies of the Conversion of Ethanol and Acetic Acid on PtSn-Based Catalysts. Journal of Physical Chemistry B, 2005, 109, 2074-2085.	2.7	162
49	The Chemistry and Kinetics of Polyethylene Pyrolysis: A Process to Produce Fuels and Chemicals. ChemSusChem, 2020, 13, 1764-1774.	7.5	162
50	Depolymerization of lignocellulosic biomass to fuel precursors: maximizing carbon efficiency by combining hydrolysis with pyrolysis. Energy and Environmental Science, 2010, 3, 358.	32.2	159
51	Catalytic fast pyrolysis of lignocellulosic biomass in a process development unit with continual catalyst addition and removal. Chemical Engineering Science, 2014, 108, 33-46.	4.0	159
52	Highly active and stable PtRuSn/C catalyst for electrooxidations of ethylene glycol and glycerol. Applied Catalysis B: Environmental, 2011, 101, 366-375.	20.7	157
53	Liquid phase aldol condensation reactions with MgO-ZrO ₂ and shape-selective nitrogen-substituted NaY. Applied Catalysis A: General, 2011, 392, 57-68.	4.6	152
54	Chemistries and processes for the conversion of ethanol into middle-distillate fuels. Nature Reviews Chemistry, 2019, 3, 223-249.	22.6	152

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55	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.	11.7	144
56	Production of Renewable Aromatic Compounds by Catalytic Fast Pyrolysis of Lignocellulosic Biomass with Bifunctional Ga/ZSM-5 Catalysts. Angewandte Chemie, 2012, 124, 1416-1419.	2.1	134
57	Hydrodeoxygenation of the aqueous fraction of bio-oil with Ru/C and Pt/C catalysts. Applied Catalysis B: Environmental, 2015, 165, 446-456.	20.7	134
58	Universal kinetic solvent effects in acid-catalyzed reactions of biomass-derived oxygenates. Energy and Environmental Science, 2018, 11, 617-628.	32.2	132
59	Production of levoglucosenone and 5-hydroxymethylfurfural from cellulose in polar aprotic solvent-water mixtures. Green Chemistry, 2017, 19, 3642-3653.	9.4	128
60	Aqueous-Phase Hydrogenation of Acetic Acid over Transition Metal Catalysts. ChemCatChem, 2010, 2, 1420-1424.	3.8	126
61	Ab Initio Dynamics of Cellulose Pyrolysis: Nascent Decomposition Pathways at 327 and 600 Å°C. Journal of the American Chemical Society, 2012, 134, 14958-14972.	14.6	124
62	Aqueous-phase hydrodeoxygenation of sorbitol: A comparative study of Pt/Zr phosphate and PtReOx/C. Journal of Catalysis, 2013, 304, 72-85.	6.5	123
63	Synthesis of 1,6-Hexanediol from Cellulose Derived Tetrahydrofuran-Dimethanol with Pt-WO _x /TiO ₂ Catalysts. ACS Catalysis, 2018, 8, 1427-1439.	11.7	121
64	Conversion of Furfural to 1,5-Pentanediol: Process Synthesis and Analysis. ACS Sustainable Chemistry and Engineering, 2017, 5, 4699-4706.	6.9	119
65	The electrocatalytic hydrogenation of furanic compounds in a continuous electrocatalytic membrane reactor. Green Chemistry, 2013, 15, 1869.	9.4	117
66	Selective Conversion of Cellulose to Hydroxymethylfurfural in Polar Aprotic Solvents. ChemCatChem, 2014, 6, 2229-2234.	3.8	117
67	Renewable High-Octane Gasoline by Aqueous-Phase Hydrodeoxygenation of C ₅ and C ₆ Carbohydrates over Pt/Zirconium Phosphate Catalysts. ChemSusChem, 2010, 3, 1154-1157.	7.5	115
68	Highly selective transformation of glycerol to dihydroxyacetone without using oxidants by a PtSb/C-catalyzed electrooxidation process. Green Chemistry, 2016, 18, 2877-2887.	9.4	115
69	Renewable gasoline from aqueous phase hydrodeoxygenation of aqueous sugar solutions prepared by hydrolysis of maple wood. Green Chemistry, 2011, 13, 91-101.	9.4	114
70	Kinetics and reaction chemistry for slow pyrolysis of enzymatic hydrolysis lignin and organosolv extracted lignin derived from maplewood. Green Chemistry, 2012, 14, 428-439.	9.4	114
71	Stabilizing cobalt catalysts for aqueous-phase reactions by strong metal-support interaction. Journal of Catalysis, 2015, 330, 19-27.	6.5	114
72	Aqueous-phase hydrogenation and hydrodeoxygenation of biomass-derived oxygenates with bimetallic catalysts. Green Chemistry, 2014, 16, 708.	9.4	112

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73	Chemicals from Biomass: Combining Ring-Opening Tautomerization and Hydrogenation Reactions to Produce 1,5-Pentanediol from Furfural. <i>ChemSusChem</i> , 2017, 10, 1351-1355.	7.5	112
74	Enhanced stability of cobalt catalysts by atomic layer deposition for aqueous-phase reactions. <i>Energy and Environmental Science</i> , 2014, 7, 1657.	32.2	111
75	Plasmon-Enhanced Photoelectrochemical Water Splitting with Size-Controllable Gold Nanodot Arrays. <i>ACS Nano</i> , 2014, 8, 10756-10765.	15.3	110
76	Renewable Alkanes by Aqueous-Phase Reforming of Biomass-Derived Oxygenates. <i>Angewandte Chemie</i> , 2004, 116, 1575-1577.	2.1	108
77	Renewable N-Heterocycles Production by Thermocatalytic Conversion and Ammonization of Biomass over ZSM-5. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2890-2899.	6.9	107
78	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
79	Simulating infrared spectra and hydrogen bonding in cellulose I ² at elevated temperatures. <i>Journal of Chemical Physics</i> , 2011, 135, 134506.	3.1	97
80	Methane Conversion to Ethylene and Aromatics on PtSn Catalysts. <i>ACS Catalysis</i> , 2017, 7, 2088-2100.	11.7	97
81	A General Framework for the Evaluation of Direct Nonoxidative Methane Conversion Strategies. <i>Joule</i> , 2018, 2, 349-365.	24.7	95
82	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.	14.6	92
83	C-C Bond Formation Reactions for Biomass-Derived Molecules. <i>ChemSusChem</i> , 2010, 3, 1158-1161.	7.5	90
84	Separation of acetic acid from the aqueous fraction of fast pyrolysis bio-oils using nanofiltration and reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2011, 378, 495-502.	8.3	88
85	Vapor phase butanal self-condensation over unsupported and supported alkaline earth metal oxides. <i>Journal of Catalysis</i> , 2012, 286, 248-259.	6.5	86
86	A machine learning framework for the analysis and prediction of catalytic activity from experimental data. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118257.	20.7	85
87	Functionality and molecular weight distribution of red oak lignin before and after pyrolysis and hydrogenation. <i>Green Chemistry</i> , 2017, 19, 1378-1389.	9.4	82
88	High-throughput screening of monometallic catalysts for aqueous-phase hydrogenation of biomass-derived oxygenates. <i>Applied Catalysis B: Environmental</i> , 2013, 140-141, 98-107.	20.7	80
89	Identification and thermochemical analysis of high-lignin feedstocks for biofuel and biochemical production. <i>Biotechnology for Biofuels</i> , 2011, 4, 43.	6.3	77
90	Role of acid sites and selectivity correlation in solvent free liquid phase dehydration of sorbitol to isosorbide. <i>Applied Catalysis A: General</i> , 2015, 492, 252-261.	4.6	77

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91	The Intrinsic Kinetics and Heats of Reactions for Cellulose Pyrolysis and Char Formation. <i>ChemSusChem</i> , 2010, 3, 1162-1165.	7.5	76
92	The effects of ZSM-5 mesoporosity and morphology on the catalytic fast pyrolysis of furan. <i>Green Chemistry</i> , 2017, 19, 3549-3557.	9.4	76
93	Oxygenated commodity chemicals from chemo-catalytic conversion of biomass derived heterocycles. <i>AIChE Journal</i> , 2018, 64, 1910-1922.	3.6	76
94	A Review of Biodegradable Plastics: Chemistry, Applications, Properties, and Future Research Needs. <i>Chemical Reviews</i> , 2023, 123, 9915-9939.	51.4	76
95	Coproducing Value-Added Chemicals and Hydrogen with Electrocatalytic Glycerol Oxidation Technology: Experimental and Techno-Economic Investigations. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6626-6634.	6.9	75
96	Fundamental catalytic challenges to design improved biomass conversion technologies. <i>Journal of Catalysis</i> , 2019, 369, 518-525.	6.5	73
97	Low temperature hydrogenation of pyrolytic lignin over Ru/TiO ₂ : 2D HSQC and ¹³ C NMR study of reactants and products. <i>Green Chemistry</i> , 2016, 18, 271-281.	9.4	72
98	Hydrodeoxygenation of Pyrolysis Oils. <i>Energy Technology</i> , 2017, 5, 80-93.	3.8	72
99	Hydrogenation of levoglucosenone to renewable chemicals. <i>Green Chemistry</i> , 2017, 19, 1278-1285.	9.4	71
100	Low-temperature oligomerization of 1-butene with H-ferrierite. <i>Journal of Catalysis</i> , 2015, 323, 33-44.	6.5	69
101	The effects of contact time and coking on the catalytic fast pyrolysis of cellulose. <i>Green Chemistry</i> , 2017, 19, 286-297.	9.4	69
102	Global bioenergy potential from high-lignin agricultural residue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4014-4019.	7.6	67
103	Selective Glycerol Oxidation by Electrocatalytic Dehydrogenation. <i>ChemSusChem</i> , 2014, 7, 1051-1056.	7.5	66
104	Improving economics of lignocellulosic biofuels: An integrated strategy for coproducing 1,5-pentanediol and ethanol. <i>Applied Energy</i> , 2018, 213, 585-594.	10.3	66
105	Supercritical methanol depolymerization and hydrodeoxygenation of lignin and biomass over reduced copper porous metal oxides. <i>Green Chemistry</i> , 2019, 21, 2988-3005.	9.4	65
106	Efficient electrooxidation of biomass-derived glycerol over a graphene-supported PtRu electrocatalyst. <i>Electrochemistry Communications</i> , 2011, 13, 890-893.	4.8	63
107	New catalytic strategies for 1,5-diols production from lignocellulosic biomass. <i>Faraday Discussions</i> , 2017, 202, 247-267.	3.7	63
108	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.	9.4	61

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109	Hydrogenation of δ^3 -Butyrolactone to 1,4-Butanediol over CuCo/TiO ₂ Bimetallic Catalysts. ACS Catalysis, 2017, 7, 8429-8440.	11.7	58
110	Synthesis of Jet-Fuel Range Cycloalkanes from the Mixtures of Cyclopentanone and Butanal. Industrial & Engineering Chemistry Research, 2015, 54, 11825-11837.	3.8	57
111	Synthesis Gas Conversion over Rh-Based Catalysts Promoted by Fe and Mn. ACS Catalysis, 2017, 7, 4550-4563.	11.7	57
112	Techno-economic and environmental evaluation of producing chemicals and drop-in aviation biofuels via aqueous phase processing. Energy and Environmental Science, 2018, 11, 2085-2101.	32.2	57
113	Selective Cellulose Hydrogenolysis to Ethanol Using Ni@C Combined with Phosphoric Acid Catalysts. ChemSusChem, 2019, 12, 3977-3987.	7.5	55
114	Catalysts for Emerging Energy Applications. MRS Bulletin, 2008, 33, 429-435.	4.2	52
115	Effects of hydrogen and water on the activity and selectivity of acetic acid hydrogenation on ruthenium. Green Chemistry, 2014, 16, 911-924.	9.4	52
116	Effect of Mixed-Solvent Environments on the Selectivity of Acid-Catalyzed Dehydration Reactions. ACS Catalysis, 2020, 10, 1679-1691.	11.7	51
117	Electrocatalytic Reduction of Acetone in a Proton Exchange Membrane Reactor: A Model Reaction for the Electrocatalytic Reduction of Biomass. ChemSusChem, 2012, 5, 2410-2420.	7.5	50
118	Production of aromatics by catalytic fast pyrolysis of cellulose in a bubbling fluidized bed reactor. AIChE Journal, 2014, 60, 1320-1335.	3.6	50
119	Direct production of indoles via thermo-catalytic conversion of bio-derived furans with ammonia over zeolites. Green Chemistry, 2015, 17, 1281-1290.	9.4	50
120	The role of Pt-FexOy interfacial sites for CO oxidation. Journal of Catalysis, 2018, 358, 19-26.	6.5	49
121	Enhanced Activity and Stability of TiO ₂ -Coated Cobalt/Carbon Catalysts for Electrochemical Water Oxidation. ACS Catalysis, 2015, 5, 3463-3469.	11.7	48
122	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.	6.5	47
123	Removal of char particles from fast pyrolysis bio-oil by microfiltration. Journal of Membrane Science, 2010, 363, 120-127.	8.3	46
124	Dual-bed catalyst system for the direct synthesis of high density aviation fuel with cyclopentanone from lignocellulose. AIChE Journal, 2016, 62, 2754-2761.	3.6	46
125	Production of Alcohols from Cellulose by Supercritical Methanol Depolymerization and Hydrodeoxygenation. ACS Sustainable Chemistry and Engineering, 2018, 6, 4330-4344.	6.9	46
126	Production of monosaccharides and whey protein from acid whey waste streams in the dairy industry. Green Chemistry, 2018, 20, 1824-1834.	9.4	44

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127	Conceptual process design: A systematic method to evaluate and develop renewable energy technologies. <i>AIChE Journal</i> , 2011, 57, 2292-2301.	3.6	42
128	Intrinsic activity of interfacial sites for Pt-Fe and Pt-Mo catalysts in the hydrogenation of carbonyl groups. <i>Applied Catalysis B: Environmental</i> , 2018, 231, 182-190.	20.7	42
129	Hydrothermal Stability of Co/SiO ₂ Fischer-Tropsch Synthesis Catalysts. <i>Studies in Surface Science and Catalysis</i> , 2001, 139, 423-430.	0.2	41
130	Production of <i>p</i> -Xylene from Biomass by Catalytic Fast Pyrolysis Using ZSM-5 Catalysts with Reduced Pore Openings. <i>Angewandte Chemie</i> , 2012, 124, 11259-11262.	2.1	40
131	Comparison of Two Acid Hydrotropes for Sustainable Fractionation of Birch Wood. <i>ChemSusChem</i> , 2020, 13, 4649-4659.	7.5	40
132	Catalysis Center for Energy Innovation for Biomass Processing: Research Strategies and Goals. <i>Catalysis Letters</i> , 2010, 140, 77-84.	2.7	39
133	Catalytic synthesis of distillate-range ethers and olefins from ethanol through Guerbet coupling and etherification. <i>Green Chemistry</i> , 2019, 21, 3300-3318.	9.4	39
134	Highly improved oxygen reduction performance over Pt/C-dispersed nanowire network catalysts. <i>Electrochemistry Communications</i> , 2010, 12, 32-35.	4.8	38
135	Microwave-assisted fast conversion of lignin model compounds and organosolv lignin over methyltrioxorhenium in ionic liquids. <i>RSC Advances</i> , 2015, 5, 84967-84973.	3.7	38
136	Ring Opening of Biomass-Derived Cyclic Ethers to Dienes over Silica/Alumina. <i>ACS Catalysis</i> , 2017, 7, 5248-5256.	11.7	38
137	Kinetics of Levoglucosenone Isomerization. <i>ChemSusChem</i> , 2017, 10, 129-138.	7.5	38
138	Ethylene Dimerization and Oligomerization to 1-Butene and Higher Olefins with Chromium-Promoted Cobalt on Carbon Catalyst. <i>ACS Catalysis</i> , 2018, 8, 2488-2497.	11.7	38
139	Synthesis Gas Conversion over Rh/Mo Catalysts Prepared by Atomic Layer Deposition. <i>ACS Catalysis</i> , 2019, 9, 1810-1819.	11.7	38
140	Principles of Heterogeneous Catalysis. , 1996, , .		37
141	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.	20.7	34
142	Catalytic dehydration of levoglucosan to levoglucosenone using Brønsted solid acid catalysts in tetrahydrofuran. <i>Green Chemistry</i> , 2019, 21, 4988-4999.	9.4	34
143	Modeling aqueous-phase hydrodeoxygenation of sorbitol over Pt/SiO ₂ -Al ₂ O ₃ . <i>RSC Advances</i> , 2013, 3, 23769.	3.7	33
144	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.	20.7	33

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145	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.	9.4	33
146	Biomass at the shale gas crossroads. <i>Green Chemistry</i> , 2014, 16, 382.	9.4	32
147	Hydrodeoxygenation of Sorbitol to Monofunctional Fuel Precursors over Co/TiO ₂ . <i>Joule</i> , 2017, 1, 178-199.	24.7	32
148	The stability of direct carbon fuel cells with molten Sb and Sb–Bi alloy anodes. <i>AIChE Journal</i> , 2013, 59, 3342-3348.	3.6	30
149	Hydrothermally stable regenerable catalytic supports for aqueous-phase conversion of biomass. <i>Catalysis Today</i> , 2014, 234, 66-74.	4.9	30
150	Ethanol condensation at elevated pressure over copper on AlMgO and AlCaO porous mixed-oxide supports. <i>Catalysis Science and Technology</i> , 2019, 9, 2032-2042.	4.2	28
151	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.	9.4	28
152	DFT study of nitrated zeolites: Mechanism of nitrogen substitution in HY and silicalite. <i>Journal of Catalysis</i> , 2010, 269, 53-63.	6.5	27
153	Production of Linear Octenes from Oligomerization of 1-Butene over Carbon-Supported Cobalt Catalysts. <i>ACS Catalysis</i> , 2016, 6, 3815-3825.	11.7	27
154	Conversion of furan over gallium and zinc promoted ZSM-5: The effect of metal and acid sites. <i>Fuel Processing Technology</i> , 2020, 201, 106319.	7.3	27
155	Rates of Catalytic Reactions. , 2008, , 1445-1462.		26
156	Effect of carbon supports on RhRe bifunctional catalysts for selective hydrogenolysis of tetrahydropyran-2-methanol. <i>Catalysis Science and Technology</i> , 2016, 6, 7841-7851.	4.2	26
157	Intrinsic kinetics of plasmon-enhanced reverse water gas shift on Au and Au–Mo interfacial sites supported on silica. <i>Applied Catalysis A: General</i> , 2016, 521, 182-189.	4.6	26
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