

George W Huber

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

225
papers

35,410
citations

78
h-index

187
g-index

255
ext. papers

39,116
ext. citations

11.7
avg, IF

7.74
L-index

#	Paper	IF	Citations
225	Elucidation of reaction network and kinetics between cellulose-derived 1,2-propanediol and methanol for one-pot biofuel production. <i>Green Chemistry</i> , 2022 , 24, 350-364	10	0
224	On the integration of molecular dynamics, data science, and experiments for studying solvent effects on catalysis. <i>Current Opinion in Chemical Engineering</i> , 2022 , 36, 100796	5.4	1
223	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	5.3	0
222	Bio-based 1,5-Pentanediol as a Replacement for Petroleum-Derived 1,6-Hexanediol for Polyester Polyols, Coatings, and Adhesives. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 5781-5791	8.3	1
221	Ethanol to distillate-range molecules using Cu/Mg _x AlO _y catalysts with low Cu loadings. <i>Applied Catalysis B: Environmental</i> , 2021 , 304, 120984	21.8	1
220	Reaction kinetics study of ethylene oligomerization into linear olefins over carbon-supported cobalt catalysts. <i>Journal of Catalysis</i> , 2021 , 404, 954-954	7.3	0
219	The Hydrodeoxygenation of Glycerol over NiMoS _x : Catalyst Stability and Activity at Hydropyrolysis Conditions. <i>ChemCatChem</i> , 2021 , 13, 425-437	5.2	3
218	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	10	5
217	Catalytic Conversion of Pyrolysis Oil to Alcohols and Alkanes in Supercritical Methanol over the CuMgAlO _x Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 2067-2079	8.3	4
216	Renewable linear alpha-olefins by base-catalyzed dehydration of biologically-derived fatty alcohols. <i>Green Chemistry</i> , 2021 , 23, 4338-4354	10	2
215	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	10	4
214	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	10	5
213	A Career in Catalysis: James A. Dumesic. <i>ACS Catalysis</i> , 2021 , 11, 2310-2339	13.1	1
212	Computational Approach for Rapidly Predicting Temperature-Dependent Polymer Solubilities Using Molecular-Scale Models. <i>ChemSusChem</i> , 2021 , 14, 4307-4316	8.3	2
211	Ethylene oligomerization into linear olefins over cobalt oxide on carbon catalyst. <i>Catalysis Science and Technology</i> , 2021 , 11, 3599-3608	5.5	2
210	Catalytic strategy for conversion of fructose to organic dyes, polymers, and liquid fuels. <i>Green Chemistry</i> , 2020 , 22, 5285-5295	10	16
209	Comparison of Two Acid Hydrotropes for Sustainable Fractionation of Birch Wood. <i>ChemSusChem</i> , 2020 , 13, 4649-4659	8.3	18

208	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	7.3	4
207	Efficient electrochemical production of glucaric acid and H via glucose electrolysis. <i>Nature Communications</i> , 2020 , 11, 265	17.4	93
206	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	11.5	13
205	The Chemistry and Kinetics of Polyethylene Pyrolysis: A Process to Produce Fuels and Chemicals. <i>ChemSusChem</i> , 2020 , 13, 1764-1774	8.3	48
204	Kinetic Modeling of Alcohol Oligomerization over Calcium Hydroxyapatite. <i>ACS Catalysis</i> , 2020 , 10, 2978-2989	11.9	9
203	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	2.3	7
202	Electrocatalytic Oxidation of Glycerol to Formic Acid by CuCo ₂ O ₄ Spinel Oxide Nanostructure Catalysts. <i>ACS Catalysis</i> , 2020 , 10, 6741-6752	13.1	77
201	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	8.3	3
200	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	7.2	10
199	Catalytic Production of Glucose-Galactose Syrup from Greek Yogurt Acid Whey in a Continuous-Flow Reactor. <i>ChemSusChem</i> , 2020 , 13, 791-802	8.3	2
198	Effect of Mixed-Solvent Environments on the Selectivity of Acid-Catalyzed Dehydration Reactions. <i>ACS Catalysis</i> , 2020 , 10, 1679-1691	13.1	23
197	Synthesis Gas Conversion Over Molybdenum-Based Catalysts Promoted by Transition Metals. <i>ACS Catalysis</i> , 2020 , 10, 365-374	13.1	9
196	Chemical-Switching Strategy for Synthesis and Controlled Release of Norcantharimides from a Biomass-Derived Chemical. <i>ChemSusChem</i> , 2020 , 13, 5213-5219	8.3	10
195	Recycling of multilayer plastic packaging materials by solvent-targeted recovery and precipitation. <i>Science Advances</i> , 2020 , 6,	14.3	61
194	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	10	6
193	Supercritical methanol depolymerization and hydrodeoxygenation of pyrolytic lignin over reduced copper porous metal oxides. <i>Green Chemistry</i> , 2020 , 22, 8403-8413	10	8
192	Mechanistic Insights into the Conversion of Biorenewable Levoglucosanol to Dideoxysugars. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16339-16349	8.3	1
191	A machine learning framework for the analysis and prediction of catalytic activity from experimental data. <i>Applied Catalysis B: Environmental</i> , 2020 , 263, 118257	21.8	33

190	Solid-state NMR studies of solvent-mediated, acid-catalyzed woody biomass pre-treatment for enzymatic conversion of residual cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6551-6563	8.3	7
189	Phyllosilicate-Derived CuNi/SiO ₂ Catalysts in the Selective Hydrogenation of Adipic Acid to 1,6-Hexanediol. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17872-17881	8.3	14
188	Selective Cellulose Hydrogenolysis to Ethanol Using Ni@C Combined with Phosphoric Acid Catalysts. <i>ChemSusChem</i> , 2019 , 12, 3977-3987	8.3	21
187	Catalytic synthesis of distillate-range ethers and olefins from ethanol through Guerbet coupling and etherification. <i>Green Chemistry</i> , 2019 , 21, 3300-3318	10	19
186	Supercritical methanol depolymerization and hydrodeoxygenation of lignin and biomass over reduced copper porous metal oxides. <i>Green Chemistry</i> , 2019 , 21, 2988-3005	10	45
185	Recent advances in hydrodeoxygenation of biomass-derived oxygenates over heterogeneous catalysts. <i>Green Chemistry</i> , 2019 , 21, 3715-3743	10	233
184	High-yield synthesis of glucooligosaccharides (GLOS) as potential prebiotics from glucose via non-enzymatic glycosylation. <i>Green Chemistry</i> , 2019 , 21, 2686-2698	10	8
183	Chemistries and processes for the conversion of ethanol into middle-distillate fuels. <i>Nature Reviews Chemistry</i> , 2019 , 3, 223-249	34.6	71
182	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	5.5	10
181	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	10	33
180	Catalytic hydrogenation of dihydrolevoglucosenone to levoglucosan with a hydrotalcite/mixed oxide copper catalyst. <i>Green Chemistry</i> , 2019 , 21, 5000-5007	10	9
179	Supercritical Methanol Depolymerization and Hydrodeoxygenation of Maple Wood and Biomass-Derived Oxygenates into Renewable Alcohols in a Continuous Flow Reactor. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15361-15372	8.3	17
178	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	21.8	15
177	Catalytic dehydration of levoglucosan to levoglucosenone using Brønsted solid acid catalysts in tetrahydrofuran. <i>Green Chemistry</i> , 2019 , 21, 4988-4999	10	23
176	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	8.3	36
175	Selective Cellulose Hydrogenolysis to Ethanol Using Ni@C Combined with Phosphoric Acid Catalysts. <i>ChemSusChem</i> , 2019 , 12, 3881-3881	8.3	
174	Gas-phase dehydration of tetrahydrofurfuryl alcohol to dihydropyran over γ -Al ₂ O ₃ . <i>Applied Catalysis B: Environmental</i> , 2019 , 245, 62-70	21.8	11
173	Synthesis Gas Conversion over Rh/Mo Catalysts Prepared by Atomic Layer Deposition. <i>ACS Catalysis</i> , 2019 , 9, 1810-1819	13.1	22

172	Fundamental catalytic challenges to design improved biomass conversion technologies. <i>Journal of Catalysis</i> , 2019 , 369, 518-525	7.3	35
171	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	21.8	31
170	Oxygenated commodity chemicals from chemo-catalytic conversion of biomass derived heterocycles. <i>AIChE Journal</i> , 2018 , 64, 1910-1922	3.6	50
169	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	13.1	27
168	A General Framework for the Evaluation of Direct Nonoxidative Methane Conversion Strategies. <i>Joule</i> , 2018 , 2, 349-365	27.8	56
167	Production of Alcohols from Cellulose by Supercritical Methanol Depolymerization and Hydrodeoxygenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 4330-4344	8.3	32
166	Universal kinetic solvent effects in acid-catalyzed reactions of biomass-derived oxygenates. <i>Energy and Environmental Science</i> , 2018 , 11, 617-628	35.4	85
165	Synthesis of 1,6-Hexanediol from Cellulose Derived Tetrahydrofuran-Dimethanol with Pt-WO _x /TiO ₂ Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 1427-1439	13.1	68
164	Catalytic oxidation of carbohydrates into organic acids and furan chemicals. <i>Chemical Society Reviews</i> , 2018 , 47, 1351-1390	58.5	287
163	Production of monosaccharides and whey protein from acid whey waste streams in the dairy industry. <i>Green Chemistry</i> , 2018 , 20, 1824-1834	10	23
162	Mechanistic Insights into the Hydrogenolysis of Levoglucosan over Bifunctional Platinum Silica/Alumina Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 3743-3753	13.1	9
161	Production of renewable C ₄ -C ₆ monoalcohols from waste biomass-derived carbohydrate via aqueous-phase hydrodeoxygenation over Pt-ReO _x /Zr-P. <i>Chemical Engineering Research and Design</i> , 2018 , 115, 2-7	5.5	7
160	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	21.8	29
159	Electrochemical Oxidation of 5-Hydroxymethylfurfural with NiFe Layered Double Hydroxide (LDH) Nanosheet Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 5533-5541	13.1	202
158	The role of Pt-FexOy interfacial sites for CO oxidation. <i>Journal of Catalysis</i> , 2018 , 358, 19-26	7.3	32
157	Improving economics of lignocellulosic biofuels: An integrated strategy for coproducing 1,5-pentanediol and ethanol. <i>Applied Energy</i> , 2018 , 213, 585-594	10.7	48
156	Investigation of the Reaction Pathways of Biomass-Derived Oxygenate Conversion into Monoalcohols in Supercritical Methanol with CuMgAl-Mixed-Metal Oxide. <i>ChemSusChem</i> , 2018 , 11, 3995-3995	8.3	95
155	Investigation of the Reaction Pathways of Biomass-Derived Oxygenate Conversion into Monoalcohols in Supercritical Methanol with CuMgAl-Mixed-Metal Oxide. <i>ChemSusChem</i> , 2018 , 11, 4007-4017	8.3	14

154	Amination of 1-hexanol on bimetallic AuPd/TiO ₂ catalysts. <i>Green Chemistry</i> , 2018 , 20, 4695-4709	10	15
153	Production of high-octane gasoline via hydrodeoxygenation of sorbitol over palladium-based bimetallic catalysts. <i>Journal of Environmental Management</i> , 2018 , 227, 329-334	7.9	17
152	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	10	13
151	Techno-economic and environmental evaluation of producing chemicals and drop-in aviation biofuels via aqueous phase processing. <i>Energy and Environmental Science</i> , 2018 , 11, 2085-2101	35.4	41
150	Oligomerization of 1-butene over carbon-supported CoO _x and subsequent isomerization/hydroformylation to n-nonanal. <i>Catalysis Communications</i> , 2018 , 114, 93-97	3.2	6
149	Hydrodeoxygenation of Pyrolysis Oils. <i>Energy Technology</i> , 2017 , 5, 80-93	3.5	55
148	Methane Conversion to Ethylene and Aromatics on PtSn Catalysts. <i>ACS Catalysis</i> , 2017 , 7, 2088-2100	13.1	73
147	Functionality and molecular weight distribution of red oak lignin before and after pyrolysis and hydrogenation. <i>Green Chemistry</i> , 2017 , 19, 1378-1389	10	59
146	Chemicals from Biomass: Combining Ring-Opening Tautomerization and Hydrogenation Reactions to Produce 1,5-Pentanediol from Furfural. <i>ChemSusChem</i> , 2017 , 10, 1351-1355	8.3	75
145	Production of 1,6-hexanediol from tetrahydropyran-2-methanol by dehydrationHydration and hydrogenation. <i>Green Chemistry</i> , 2017 , 19, 1390-1398	10	22
144	Conversion of Furfural to 1,5-Pentanediol: Process Synthesis and Analysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 4699-4706	8.3	75
143	The effects of ZSM-5 mesoporosity and morphology on the catalytic fast pyrolysis of furan. <i>Green Chemistry</i> , 2017 , 19, 3549-3557	10	46
142	Production of levoglucosenone and 5-hydroxymethylfurfural from cellulose in polar aprotic solvent/water mixtures. <i>Green Chemistry</i> , 2017 , 19, 3642-3653	10	90
141	Low temperature aqueous phase hydrogenation of the light oxygenate fraction of bio-oil over supported ruthenium catalysts. <i>Green Chemistry</i> , 2017 , 19, 3252-3262	10	20
140	Synthesis Gas Conversion over Rh-Based Catalysts Promoted by Fe and Mn. <i>ACS Catalysis</i> , 2017 , 7, 4550-4563	13.6	42
139	New catalytic strategies for diols production from lignocellulosic biomass. <i>Faraday Discussions</i> , 2017 , 202, 247-267	3.6	44
138	Hydrogenation of levoglucosenone to renewable chemicals. <i>Green Chemistry</i> , 2017 , 19, 1278-1285	10	47
137	The effects of contact time and coking on the catalytic fast pyrolysis of cellulose. <i>Green Chemistry</i> , 2017 , 19, 286-297	10	50

136	Hydrogenation of γ -Butyrolactone to 1,4-Butanediol over CuCo/TiO ₂ Bimetallic Catalysts. <i>ACS Catalysis</i> , 2017 , 7, 8429-8440	13.1	36
135	Cobalt Oxide on N-Doped Carbon for 1-Butene Oligomerization to Produce Linear Octenes. <i>ACS Catalysis</i> , 2017 , 7, 7479-7489	13.1	11
134	Olefin conversion on nitrogen-doped carbon-supported cobalt catalyst: Effect of feedstock. <i>Journal of Catalysis</i> , 2017 , 354, 213-222	7.3	12
133	Autocatalytic Hydration of Dihydropyran to 1,5-Pentanediol Precursors via in situ Formation of Liquid- and Solid-Phase Acids. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 10223-10230	8.3	8
132	Feedstocks and analysis: general discussion. <i>Faraday Discussions</i> , 2017 , 202, 497-519	3.6	2
131	Bio-based materials: general discussion. <i>Faraday Discussions</i> , 2017 , 202, 121-139	3.6	3
130	Hydrodeoxygenation of Sorbitol to Monofunctional Fuel Precursors over Co/TiO ₂ . <i>Joule</i> , 2017 , 1, 178-199	7.8	18
129	Ring Opening of Biomass-Derived Cyclic Ethers to Dienes over Silica/Alumina. <i>ACS Catalysis</i> , 2017 , 7, 5248-5256	13.1	25
128	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	8.3	41
127	Kinetics of Levoglucosenone Isomerization. <i>ChemSusChem</i> , 2017 , 10, 129-138	8.3	27
126	Low temperature hydrogenation of pyrolytic lignin over Ru/TiO ₂ : 2D HSQC and 13C NMR study of reactants and products. <i>Green Chemistry</i> , 2016 , 18, 271-281	10	59
125	Measurement of intrinsic catalytic activity of Pt monometallic and Pt-MoO _x interfacial sites over visible light enhanced PtMoO _x /SiO ₂ catalyst in reverse water gas shift reaction. <i>Journal of Catalysis</i> , 2016 , 344, 784-794	7.3	34
124	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	5.1	20
123	Highly selective transformation of glycerol to dihydroxyacetone without using oxidants by a PtSb/C-catalyzed electrooxidation process. <i>Green Chemistry</i> , 2016 , 18, 2877-2887	10	78
122	Dual-bed catalyst system for the direct synthesis of high density aviation fuel with cyclopentanone from lignocellulose. <i>AIChE Journal</i> , 2016 , 62, 2754-2761	3.6	33
121	Production of Linear Octenes from Oligomerization of 1-Butene over Carbon-Supported Cobalt Catalysts. <i>ACS Catalysis</i> , 2016 , 6, 3815-3825	13.1	20
120	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 . <i>ACS Catalysis</i> , 2016 , 6, 7040-7050	13.1	106
119	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	5.5	20

118	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, 10317-25	16.4	72
117	Tuning Acid-Base Properties Using Mg-Al Oxide Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16573-80	9.5	10
116	Stabilizing cobalt catalysts for aqueous-phase reactions by strong metal-support interaction. <i>Journal of Catalysis</i> , 2015 , 330, 19-27	7.3	87
115	The effect of steam on the catalytic fast pyrolysis of cellulose. <i>Green Chemistry</i> , 2015 , 17, 2912-2923	10	24
114	Enhanced Activity and Stability of TiO ₂ -Coated Cobalt/Carbon Catalysts for Electrochemical Water Oxidation. <i>ACS Catalysis</i> , 2015 , 5, 3463-3469	13.1	42
113	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	25
112	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	8.3	63
111	Catalytic Transformation of Lignin for the Production of Chemicals and Fuels. <i>Chemical Reviews</i> , 2015 , 115, 11559-624	68.1	1600
110	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	5.1	62
109	Direct production of indoles via thermo-catalytic conversion of bio-derived furans with ammonia over zeolites. <i>Green Chemistry</i> , 2015 , 17, 1281-1290	10	38
108	Hydrodeoxygenation of the aqueous fraction of bio-oil with Ru/C and Pt/C catalysts. <i>Applied Catalysis B: Environmental</i> , 2015 , 165, 446-456	21.8	113
107	Plasmon-enhanced reverse water gas shift reaction over oxide supported Au catalysts. <i>Catalysis Science and Technology</i> , 2015 , 5, 2590-2601	5.5	77
106	A general framework for the assessment of solar fuel technologies. <i>Energy and Environmental Science</i> , 2015 , 8, 126-157	35.4	242
105	Dehydration of cellulose to levoglucosenone using polar aprotic solvents. <i>Energy and Environmental Science</i> , 2015 , 8, 1808-1815	35.4	136
104	Synthesis of Jet-Fuel Range Cycloalkanes from the Mixtures of Cyclopentanone and Butanal. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 11825-11837	3.9	48
103	Catalyst Design with Atomic Layer Deposition. <i>ACS Catalysis</i> , 2015 , 5, 1804-1825	13.1	483
102	Low-temperature oligomerization of 1-butene with H-ferrierite. <i>Journal of Catalysis</i> , 2015 , 323, 33-44	7.3	55
101	Selective glycerol oxidation by electrocatalytic dehydrogenation. <i>ChemSusChem</i> , 2014 , 7, 1051-6	8.3	46

100	Production of aromatics by catalytic fast pyrolysis of cellulose in a bubbling fluidized bed reactor. <i>AIChE Journal</i> , 2014 , 60, 1320-1335	3.6	44
99	Catalytic fast pyrolysis of lignocellulosic biomass in a process development unit with continual catalyst addition and removal. <i>Chemical Engineering Science</i> , 2014 , 108, 33-46	4.4	138
98	Effects of hydrogen and water on the activity and selectivity of acetic acid hydrogenation on ruthenium. <i>Green Chemistry</i> , 2014 , 16, 911-924	10	41
97	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	35.4	295
96	The Effect of Water on Furan Conversion over ZSM-5. <i>ChemCatChem</i> , 2014 , 6, 2497-2500	5.2	13
95	Selective Conversion of Cellulose to Hydroxymethylfurfural in Polar Aprotic Solvents. <i>ChemCatChem</i> , 2014 , 6, 2229-2234	5.2	90
94	Enhanced stability of cobalt catalysts by atomic layer deposition for aqueous-phase reactions. <i>Energy and Environmental Science</i> , 2014 , 7, 1657	35.4	99
93	Plasmon-enhanced photoelectrochemical water splitting with size-controllable gold nanodot arrays. <i>ACS Nano</i> , 2014 , 8, 10756-65	16.7	102
92	Hydrothermally stable regenerable catalytic supports for aqueous-phase conversion of biomass. <i>Catalysis Today</i> , 2014 , 234, 66-74	5.3	26
91	Aqueous-phase hydrogenation and hydrodeoxygenation of biomass-derived oxygenates with bimetallic catalysts. <i>Green Chemistry</i> , 2014 , 16, 708	10	99
90	Modeling aqueous-phase hydrodeoxygenation of sorbitol over Pt/SiO ₂ /Al ₂ O ₃ . <i>RSC Advances</i> , 2013 , 3, 23769	3.7	29
89	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	21.8	59
88	The stability of direct carbon fuel cells with molten Sb and SbBi alloy anodes. <i>AIChE Journal</i> , 2013 , 59, 3342-3348	3.6	23
87	Production of renewable petroleum refinery diesel and jet fuel feedstocks from hemicellulose sugar streams. <i>Energy and Environmental Science</i> , 2013 , 6, 205-216	35.4	165
86	The pyrolysis chemistry of a EO-4 type oligomeric lignin model compound. <i>Green Chemistry</i> , 2013 , 15, 125-136	10	229
85	A distributed activation energy model for the pyrolysis of lignocellulosic biomass. <i>Green Chemistry</i> , 2013 , 15, 1331	10	169
84	Aqueous-phase hydrodeoxygenation of sorbitol: A comparative study of Pt/Zr phosphate and PtReOx/C. <i>Journal of Catalysis</i> , 2013 , 304, 72-85	7.3	108
83	The electrocatalytic hydrogenation of furanic compounds in a continuous electrocatalytic membrane reactor. <i>Green Chemistry</i> , 2013 , 15, 1869	10	83

82	Conversion of glucose into levulinic acid with solid metal(IV) phosphate catalysts. <i>Journal of Catalysis</i> , 2013 , 304, 123-134	7.3	161
81	Vapor phase butanal self-condensation over unsupported and supported alkaline earth metal oxides. <i>Journal of Catalysis</i> , 2012 , 286, 248-259	7.3	72
80	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, 1387-90	16.4	288
79	Production of p-xylene from biomass by catalytic fast pyrolysis using ZSM-5 catalysts with reduced pore openings. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11097-100	16.4	178
78	Production of p-Xylene from Biomass by Catalytic Fast Pyrolysis Using ZSM-5 Catalysts with Reduced Pore Openings. <i>Angewandte Chemie</i> , 2012 , 124, 11259-11262	3.6	35
77	Catalytic fast pyrolysis of wood and alcohol mixtures in a fluidized bed reactor. <i>Green Chemistry</i> , 2012 , 14, 98-110	10	169
76	Kinetics and reaction chemistry for slow pyrolysis of enzymatic hydrolysis lignin and organosolv extracted lignin derived from maplewood. <i>Green Chemistry</i> , 2012 , 14, 428-439	10	91
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