

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 | Catalytic conversion of post-consumer recycled high-density polyethylene oil over Zn-impregnated ZSM-5 catalysts. <i>Chemical Engineering Journal</i> , 2024, 482, 148889. | 13.0 | 2 |
| 2 | Increasing the Dissolution Rate of Polystyrene Waste in Solvent-Based Recycling. <i>ACS Sustainable Chemistry and Engineering</i> , 2024, 12, 4619-4630. | 6.9 | 1 |
| 3 | 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 |
| 4 | Kinetic Study of Polyvinyl Chloride Pyrolysis with Characterization of Dehydrochlorinated PVC. <i>ACS Sustainable Chemistry and Engineering</i> , 2024, 12, 7402-7413. | 6.9 | 1 |
| 5 | Production of drop-in biodiesel blendstocks via competitive acid-catalyzed dehydration reactions using ethanol oligomerization products. <i>Sustainable Energy and Fuels</i> , 2024, 8, 3036-3047. | 4.8 | 1 |
| 6 | Carbon-negative hydrogen: aqueous phase reforming (APR) of glycerol over NiPt bimetallic catalyst coupled with CO ₂ sequestration. <i>Green Chemistry</i> , 2024, 26, 7212-7230. | 9.4 | 0 |
| 7 | Techno-Economic Analysis and Life Cycle Assessment of the Production of Biodegradable Polyaliphatic-Polyaromatic Polyesters. <i>ACS Sustainable Chemistry and Engineering</i> , 2024, 12, 9156-9167. | 6.9 | 0 |
| 8 | Catalytic Reduction of Esters over Zirconia-Supported Metal Catalysts. <i>ACS Catalysis</i> , 2024, 14, 11411-11424. | 11.7 | 0 |
| 9 | Economic evaluation of infrastructures for thermochemical upcycling of post-consumer plastic waste. <i>Green Chemistry</i> , 2023, 25, 1032-1044. | 9.4 | 22 |
| 10 | Poplar lignin structural changes during extraction in γ -valerolactone (GVL). <i>Green Chemistry</i> , 2023, 25, 336-347. | 9.4 | 20 |
| 11 | Ethanol to diesel: a sustainable alternative for the heavy-duty transportation sector. <i>Sustainable Energy and Fuels</i> , 2023, 7, 693-707. | 4.8 | 6 |
| 12 | Design of supported organocatalysts from a biomass-derived difuran compound and catalytic assessment for lactose hydrolysis. <i>Green Chemistry</i> , 2023, 25, 1809-1822. | 9.4 | 2 |
| 13 | Mechanistic insights into the pyrolysis of poly (vinyl chloride). <i>Journal of Polymer Research</i> , 2023, 30, . | 2.5 | 8 |
| 14 | Quantifying the environmental benefits of a solvent-based separation process for multilayer plastic films. <i>Green Chemistry</i> , 2023, 25, 1611-1625. | 9.4 | 13 |
| 15 | Exploiting electricity market dynamics using flexible electrolysis units for retrofitting methanol synthesis. <i>Energy and Environmental Science</i> , 2023, 16, 2346-2357. | 32.2 | 8 |
| 16 | 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. | 9.4 | 2 |
| 17 | Introduction to Plastic Conversion. <i>Polymer Chemistry</i> , 2023, 14, 3054-3056. | 4.0 | 0 |
| 18 | Introduction to Plastic Conversion. <i>Catalysis Science and Technology</i> , 2023, 13, 3737-3739. | 4.2 | 0 |

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|----|--|------|-----------|
| 19 | Large-scale computational polymer solubility predictions and applications to dissolution-based plastic recycling. <i>Green Chemistry</i> , 2023, 25, 4402-4414. | 9.4 | 9 |
| 20 | Techno-Economic and life cycle assessment of standalone Single-Stream material recovery facilities in the United states. <i>Waste Management</i> , 2023, 166, 368-376. | 7.6 | 12 |
| 21 | High-purity polypropylene from disposable face masks <i>via</i> solvent-targeted recovery and precipitation. <i>Green Chemistry</i> , 2023, 25, 4723-4734. | 9.4 | 7 |
| 22 | Harnessing the power of biorefining: paving the way for sustainable fuels and chemicals. <i>Sustainable Energy and Fuels</i> , 2023, 7, 3738-3740. | 4.8 | 0 |
| 23 | A Review of Biodegradable Plastics: Chemistry, Applications, Properties, and Future Research Needs. <i>Chemical Reviews</i> , 2023, 123, 9915-9939. | 51.4 | 76 |
| 24 | Biodegradable High-Molecular-Weight Poly(pentylene adipate- <i>co</i> -terephthalate): Synthesis, Thermo-Mechanical Properties, Microstructures, and Biodegradation. <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11, 13885-13895. | 6.9 | 5 |
| 25 | Comparative Techno-economic Analysis and Life Cycle Assessment of Producing High-Value Chemicals and Fuels from Waste Plastic via Conventional Pyrolysis and Thermal Oxo-degradation. <i>Energy & Fuels</i> , 2023, 37, 15832-15842. | 5.2 | 7 |
| 26 | Catalytic conversion of cellulose to levoglucosenone using propylsulfonic acid functionalized SBA-15 and H2SO4 in tetrahydrofuran. <i>Biomass and Bioenergy</i> , 2022, 156, 106315. | 5.9 | 7 |
| 27 | 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. | 20.7 | 19 |
| 28 | 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. | 9.4 | 1 |
| 29 | 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. | 8.0 | 4 |
| 30 | 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. | 9.4 | 16 |
| 31 | 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 |
| 32 | 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. | 6.9 | 19 |
| 33 | 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. | 11.7 | 11 |
| 34 | Expanding plastics recycling technologies: chemical aspects, technology status and challenges. <i>Green Chemistry</i> , 2022, 24, 8899-9002. | 9.4 | 199 |
| 35 | Catalysis and Biomass: A Virtual Special Issue in Honor of Dr. James A. Dumesic. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 13545-13548. | 6.9 | 0 |
| 36 | Production of glucose-galactose syrup and milk minerals from Greek yogurt acid whey. <i>Green Chemistry</i> , 2022, 24, 8538-8551. | 9.4 | 4 |

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|----|---|------|-----------|
| 37 | Catalytic production of tetrahydropyran (THP): a biomass-derived, economically competitive solvent with demonstrated use in plastic dissolution. <i>Green Chemistry</i> , 2022, 24, 9101-9113. | 9.4 | 8 |
| 38 | The Hydrodeoxygenation of Glycerol over NiMoS _x : Catalyst Stability and Activity at Hydrolysis Conditions. <i>ChemCatChem</i> , 2021, 13, 425-437. | 3.8 | 9 |
| 39 | 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 |
| 40 | 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. | 6.9 | 11 |
| 41 | Renewable linear alpha-olefins by base-catalyzed dehydration of biologically-derived fatty alcohols. <i>Green Chemistry</i> , 2021, 23, 4338-4354. | 9.4 | 10 |
| 42 | 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. | 9.4 | 15 |
| 43 | 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 |
| 44 | A Career in Catalysis: James A. Dumesic. <i>ACS Catalysis</i> , 2021, 11, 2310-2339. | 11.7 | 5 |
| 45 | Reaction kinetics study of ethylene oligomerization into linear olefins over carbon-supported cobalt catalysts. <i>Journal of Catalysis</i> , 2021, 404, 954-963. | 6.5 | 5 |
| 46 | Computational Approach for Rapidly Predicting Temperature-Dependent Polymer Solubilities Using Molecular-Scale Models. <i>ChemSusChem</i> , 2021, 14, 4307-4316. | 7.5 | 19 |
| 47 | Ethylene oligomerization into linear olefins over cobalt oxide on carbon catalyst. <i>Catalysis Science and Technology</i> , 2021, 11, 3599-3608. | 4.2 | 12 |
| 48 | Catalytic Hydrogenolysis of Polyolefins into Alkanes. <i>ACS Central Science</i> , 2021, 7, 17-19. | 12.3 | 26 |
| 49 | New Technologies are Needed to Improve the Recycling and Upcycling of Waste Plastics. <i>ChemSusChem</i> , 2021, 14, 3982-3984. | 7.5 | 17 |
| 50 | Production of Hexane-1,2,5,6-tetrol from Biorenewable Levoglucosan over Pt-WO _x /TiO ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16123-16132. | 6.9 | 4 |
| 51 | 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 |
| 52 | 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. | 6.9 | 14 |
| 53 | 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 |
| 54 | Catalytic Production of Glucose-Galactose Syrup from Greek Yogurt Acid Whey in a Continuous-Flow Reactor. <i>ChemSusChem</i> , 2020, 13, 791-802. | 7.5 | 6 |

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|----|---|------|-----------|
| 55 | Effect of Mixed-Solvent Environments on the Selectivity of Acid-Catalyzed Dehydration Reactions. ACS Catalysis, 2020, 10, 1679-1691. | 11.7 | 51 |
| 56 | Synthesis Gas Conversion Over Molybdenum-Based Catalysts Promoted by Transition Metals. ACS Catalysis, 2020, 10, 365-374. | 11.7 | 22 |
| 57 | Chemical Switching Strategy for Synthesis and Controlled Release of Norcantharimides from a Biomass-Derived Chemical. ChemSusChem, 2020, 13, 5213-5219. | 7.5 | 21 |
| 58 | Recycling of multilayer plastic packaging materials by solvent-targeted recovery and precipitation. Science Advances, 2020, 6, . | 10.9 | 208 |
| 59 | Production of renewable alcohols from maple wood using supercritical methanol hydrodeoxygenation in a semi-continuous flowthrough reactor. Green Chemistry, 2020, 22, 8462-8477. | 9.4 | 10 |
| 60 | Introduction to green chemistry and reaction engineering. Reaction Chemistry and Engineering, 2020, 5, 2131-2133. | 3.5 | 7 |
| 61 | Supercritical methanol depolymerization and hydrodeoxygenation of pyrolytic lignin over reduced copper porous metal oxides. Green Chemistry, 2020, 22, 8403-8413. | 9.4 | 25 |
| 62 | Mechanistic Insights into the Conversion of Biorenewable Levoglucosan to Dideoxysugars. ACS Sustainable Chemistry and Engineering, 2020, 8, 16339-16349. | 6.9 | 4 |
| 63 | Preface to the special issue on "Catalytic conversion of biomass to fuels and chemicals". Fuel Processing Technology, 2020, 201, 106343. | 7.3 | 4 |
| 64 | Catalytic strategy for conversion of fructose to organic dyes, polymers, and liquid fuels. Green Chemistry, 2020, 22, 5285-5295. | 9.4 | 23 |
| 65 | Comparison of Two Acid Hydrotropes for Sustainable Fractionation of Birch Wood. ChemSusChem, 2020, 13, 4649-4659. | 7.5 | 40 |
| 66 | Rates of levoglucosan hydrogenolysis over Brønsted and Lewis acid sites on platinum silica-alumina catalysts synthesized by atomic layer deposition. Journal of Catalysis, 2020, 389, 111-120. | 6.5 | 8 |
| 67 | Efficient electrochemical production of glucaric acid and H ₂ via glucose electrolysis. Nature Communications, 2020, 11, 265. | 13.2 | 338 |
| 68 | A self-adjusting platinum surface for acetone hydrogenation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3446-3450. | 7.6 | 19 |
| 69 | The Chemistry and Kinetics of Polyethylene Pyrolysis: A Process to Produce Fuels and Chemicals. ChemSusChem, 2020, 13, 1764-1774. | 7.5 | 162 |
| 70 | Kinetic Modeling of Alcohol Oligomerization over Calcium Hydroxyapatite. ACS Catalysis, 2020, 10, 2978-2989. | 11.7 | 23 |
| 71 | Rational Design of Mixed Solvent Systems for Acid-Catalyzed Biomass Conversion Processes Using a Combined Experimental, Molecular Dynamics and Machine Learning Approach. Topics in Catalysis, 2020, 63, 649-663. | 3.0 | 14 |
| 72 | Solid-State NMR Studies of Solvent-Mediated, Acid-Catalyzed Woody Biomass Pretreatment for Enzymatic Conversion of Residual Cellulose. ACS Sustainable Chemistry and Engineering, 2020, 8, 6551-6563. | 6.9 | 10 |

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|----|--|------|-----------|
| 73 | Electrocatalytic Oxidation of Glycerol to Formic Acid by CuCo_2O_4 Spinel Oxide Nanostructure Catalysts. <i>ACS Catalysis</i> , 2020, 10, 6741-6752. | 11.7 | 252 |
| 74 | 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 |
| 75 | Catalytic hydrogenation of dihydrolevoglucosone to levoglucosan with a hydrotalcite/mixed oxide copper catalyst. <i>Green Chemistry</i> , 2019, 21, 5000-5007. | 9.4 | 19 |
| 76 | 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. | 6.9 | 19 |
| 77 | 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 |
| 78 | Catalytic dehydration of levoglucosan to levoglucosone using Brønsted solid acid catalysts in tetrahydrofuran. <i>Green Chemistry</i> , 2019, 21, 4988-4999. | 9.4 | 34 |
| 79 | 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. | 6.9 | 7 |
| 80 | 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. | 6.9 | 24 |
| 81 | Selective Cellulose Hydrogenolysis to Ethanol Using $\text{Ni}@C$ Combined with Phosphoric Acid Catalysts. <i>ChemSusChem</i> , 2019, 12, 3977-3987. | 7.5 | 55 |
| 82 | 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 |
| 83 | 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 |
| 84 | Recent advances in hydrodeoxygenation of biomass-derived oxygenates over heterogeneous catalysts. <i>Green Chemistry</i> , 2019, 21, 3715-3743. | 9.4 | 403 |
| 85 | High-yield synthesis of glucooligosaccharides (GLOS) as potential prebiotics from glucose via non-enzymatic glycosylation. <i>Green Chemistry</i> , 2019, 21, 2686-2698. | 9.4 | 23 |
| 86 | Chemistries and processes for the conversion of ethanol into middle-distillate fuels. <i>Nature Reviews Chemistry</i> , 2019, 3, 223-249. | 22.6 | 152 |
| 87 | 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 |
| 88 | Gas-phase dehydration of tetrahydrofurfuryl alcohol to dihydropyran over $\gamma\text{-Al}_2\text{O}_3$. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 62-70. | 20.7 | 21 |
| 89 | Synthesis Gas Conversion over Rh/Mo Catalysts Prepared by Atomic Layer Deposition. <i>ACS Catalysis</i> , 2019, 9, 1810-1819. | 11.7 | 38 |
| 90 | Fundamental catalytic challenges to design improved biomass conversion technologies. <i>Journal of Catalysis</i> , 2019, 369, 518-525. | 6.5 | 73 |

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|-----|--|------|-----------|
| 91 | 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 |
| 92 | Oxygenated commodity chemicals from chemo-catalytic conversion of biomass derived heterocycles. <i>AIChE Journal</i> , 2018, 64, 1910-1922. | 3.6 | 76 |
| 93 | 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 |
| 94 | A General Framework for the Evaluation of Direct Nonoxidative Methane Conversion Strategies. <i>Joule</i> , 2018, 2, 349-365. | 24.7 | 95 |
| 95 | Production of Alcohols from Cellulose by Supercritical Methanol Depolymerization and Hydrodeoxygenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4330-4344. | 6.9 | 46 |
| 96 | Universal kinetic solvent effects in acid-catalyzed reactions of biomass-derived oxygenates. <i>Energy and Environmental Science</i> , 2018, 11, 617-628. | 32.2 | 132 |
| 97 | Synthesis of 1,6-Hexanediol from Cellulose Derived Tetrahydrofuran-Dimethanol with Pt-WO ₂ /TiO ₂ Catalysts. <i>ACS Catalysis</i> , 2018, 8, 1427-1439. | 11.7 | 121 |
| 98 | Catalytic oxidation of carbohydrates into organic acids and furan chemicals. <i>Chemical Society Reviews</i> , 2018, 47, 1351-1390. | 40.3 | 476 |
| 99 | Production of monosaccharides and whey protein from acid whey waste streams in the dairy industry. <i>Green Chemistry</i> , 2018, 20, 1824-1834. | 9.4 | 44 |
| 100 | Mechanistic Insights into the Hydrogenolysis of Levoglucosan over Bifunctional Platinum Silica-Alumina Catalysts. <i>ACS Catalysis</i> , 2018, 8, 3743-3753. | 11.7 | 15 |
| 101 | Production of renewable C ₄ -C ₆ monoalcohols from waste biomass-derived carbohydrate via aqueous-phase hydrodeoxygenation over Pt-ReO ₂ /Zr-P. <i>Chemical Engineering Research and Design</i> , 2018, 115, 2-7. | 5.7 | 14 |
| 102 | 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 |
| 103 | The role of Pt-FexOy interfacial sites for CO oxidation. <i>Journal of Catalysis</i> , 2018, 358, 19-26. | 6.5 | 49 |
| 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 | 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. | 7.5 | 15 |
| 106 | Amination of 1-hexanol on bimetallic AuPd/TiO ₂ catalysts. <i>Green Chemistry</i> , 2018, 20, 4695-4709. | 9.4 | 22 |
| 107 | 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 | 22 |
| 108 | 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. | 9.4 | 22 |

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|-----|--|------|-----------|
| 109 | 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. | 32.2 | 57 |
| 110 | Oligomerization of 1-butene over carbon-supported CoOx and subsequent isomerization/hydroformylation to n-nonanal. <i>Catalysis Communications</i> , 2018, 114, 93-97. | 3.4 | 11 |
| 111 | Electrochemical Oxidation of 5-Hydroxymethylfurfural with NiFe Layered Double Hydroxide (LDH) Nanosheet Catalysts. <i>ACS Catalysis</i> , 2018, 8, 5533-5541. | 11.7 | 374 |
| 112 | Hydrodeoxygenation of Pyrolysis Oils. <i>Energy Technology</i> , 2017, 5, 80-93. | 3.8 | 72 |
| 113 | Methane Conversion to Ethylene and Aromatics on PtSn Catalysts. <i>ACS Catalysis</i> , 2017, 7, 2088-2100. | 11.7 | 97 |
| 114 | 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 |
| 115 | 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 |
| 116 | Production of 1,6-hexanediol from tetrahydropyran-2-methanol by dehydration-hydration and hydrogenation. <i>Green Chemistry</i> , 2017, 19, 1390-1398. | 9.4 | 25 |
| 117 | Conversion of Furfural to 1,5-Pentanediol: Process Synthesis and Analysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4699-4706. | 6.9 | 119 |
| 118 | Catalysis: The Technology Enabler for New, Low Carbon Energy Technologies. <i>ChemCatChem</i> , 2017, 9, 1521-1522. | 3.8 | 1 |
| 119 | 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 |
| 120 | Production of levoglucosenone and 5-hydroxymethylfurfural from cellulose in polar aprotic solvent-water mixtures. <i>Green Chemistry</i> , 2017, 19, 3642-3653. | 9.4 | 128 |
| 121 | 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. | 9.4 | 22 |
| 122 | Synthesis Gas Conversion over Rh-Based Catalysts Promoted by Fe and Mn. <i>ACS Catalysis</i> , 2017, 7, 4550-4563. | 11.7 | 57 |
| 123 | New catalytic strategies for α,ω -diols production from lignocellulosic biomass. <i>Faraday Discussions</i> , 2017, 202, 247-267. | 3.7 | 63 |
| 124 | Hydrogenation of levoglucosenone to renewable chemicals. <i>Green Chemistry</i> , 2017, 19, 1278-1285. | 9.4 | 71 |
| 125 | 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 |
| 126 | Hydrogenation of β -Butyrolactone to 1,4-Butanediol over CuCo/TiO ₂ Bimetallic Catalysts. <i>ACS Catalysis</i> , 2017, 7, 8429-8440. | 11.7 | 58 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 127 | Cobalt Oxide on N-Doped Carbon for 1-Butene Oligomerization to Produce Linear Octenes. ACS Catalysis, 2017, 7, 7479-7489. | 11.7 | 18 |
| 128 | Advances in catalysis and bioprocess on conversions of biomass. Journal of the Taiwan Institute of Chemical Engineers, 2017, 79, v. | 5.3 | 0 |
| 129 | Olefin conversion on nitrogen-doped carbon-supported cobalt catalyst: Effect of feedstock. Journal of Catalysis, 2017, 354, 213-222. | 6.5 | 22 |
| 130 | Autocatalytic Hydration of Dihydropyran to 1,5-Pentanediol Precursors via in situ Formation of Liquid- and Solid-Phase Acids. ACS Sustainable Chemistry and Engineering, 2017, 5, 10223-10230. | 6.9 | 21 |
| 131 | Feedstocks and analysis: general discussion. Faraday Discussions, 2017, 202, 497-519. | 3.7 | 2 |
| 132 | Bio-based materials: general discussion. Faraday Discussions, 2017, 202, 121-139. | 3.7 | 3 |
| 133 | Bio-based chemicals: general discussion. Faraday Discussions, 2017, 202, 227-245. | 3.7 | 0 |
| 134 | Conversion technologies: general discussion. Faraday Discussions, 2017, 202, 371-389. | 3.7 | 0 |
| 135 | Hydrodeoxygenation of Sorbitol to Monofunctional Fuel Precursors over Co/TiO ₂ . Joule, 2017, 1, 178-199. | 24.7 | 32 |
| 136 | Ring Opening of Biomass-Derived Cyclic Ethers to Dienes over Silica/Alumina. ACS Catalysis, 2017, 7, 5248-5256. | 11.7 | 38 |
| 137 | Coproducing Value-Added Chemicals and Hydrogen with Electrocatalytic Glycerol Oxidation Technology: Experimental and Techno-Economic Investigations. ACS Sustainable Chemistry and Engineering, 2017, 5, 6626-6634. | 6.9 | 75 |
| 138 | Kinetics of Levoglucosenone Isomerization. ChemSusChem, 2017, 10, 129-138. | 7.5 | 38 |
| 139 | Prospects and Challenges of Pyrolysis Technologies for Biomass Conversion. Energy Technology, 2017, 5, 5-6. | 3.8 | 22 |
| 140 | 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 |
| 141 | Production of Linear Octenes from Oligomerization of 1-Butene over Carbon-Supported Cobalt Catalysts. ACS Catalysis, 2016, 6, 3815-3825. | 11.7 | 27 |
| 142 | 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 |
| 143 | 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 |
| 144 | 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. Journal of Catalysis, 2016, 344, 784-794. | 6.5 | 47 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 145 | 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 |
| 146 | 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. | 9.4 | 115 |
| 147 | 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 |
| 148 | Dehydration of cellulose to levoglucosenone using polar aprotic solvents. <i>Energy and Environmental Science</i> , 2015, 8, 1808-1815. | 32.2 | 171 |
| 149 | Synthesis of Jet-Fuel Range Cycloalkanes from the Mixtures of Cyclopentanone and Butanal. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 11825-11837. | 3.8 | 57 |
| 150 | Catalyst Design with Atomic Layer Deposition. <i>ACS Catalysis</i> , 2015, 5, 1804-1825. | 11.7 | 633 |
| 151 | Low-temperature oligomerization of 1-butene with H-ferrierite. <i>Journal of Catalysis</i> , 2015, 323, 33-44. | 6.5 | 69 |
| 152 | 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 |
| 153 | Tuning Acid-Base Properties Using Mg-Al Oxide Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16573-16580. | 8.3 | 20 |
| 154 | Stabilizing cobalt catalysts for aqueous-phase reactions by strong metal-support interaction. <i>Journal of Catalysis</i> , 2015, 330, 19-27. | 6.5 | 114 |
| 155 | Enhanced Activity and Stability of TiO ₂ -Coated Cobalt/Carbon Catalysts for Electrochemical Water Oxidation. <i>ACS Catalysis</i> , 2015, 5, 3463-3469. | 11.7 | 48 |
| 156 | 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 |
| 157 | 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 |
| 158 | Catalytic Transformation of Lignin for the Production of Chemicals and Fuels. <i>Chemical Reviews</i> , 2015, 115, 11559-11624. | 51.4 | 2,321 |
| 159 | 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 |
| 160 | Direct production of indoles via thermo-catalytic conversion of bio-derived furans with ammonia over zeolites. <i>Green Chemistry</i> , 2015, 17, 1281-1290. | 9.4 | 50 |
| 161 | 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. | 20.7 | 134 |
| 162 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 163 | A general framework for the assessment of solar fuel technologies. <i>Energy and Environmental Science</i> , 2015, 8, 126-157. | 32.2 | 300 |
| 164 | Selective Glycerol Oxidation by Electrocatalytic Dehydrogenation. <i>ChemSusChem</i> , 2014, 7, 1051-1056. | 7.5 | 66 |
| 165 | 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 | 50 |
| 166 | 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. | 4.0 | 159 |
| 167 | Biomass at the shale gas crossroads. <i>Green Chemistry</i> , 2014, 16, 382. | 9.4 | 32 |
| 168 | Effects of hydrogen and water on the activity and selectivity of acetic acid hydrogenation on ruthenium. <i>Green Chemistry</i> , 2014, 16, 911-924. | 9.4 | 52 |
| 169 | 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 |
| 170 | The Effect of Water on Furan Conversion over ZSM-5. <i>ChemCatChem</i> , 2014, 6, 2497-2500. | 3.8 | 24 |
| 171 | Selective Conversion of Cellulose to Hydroxymethylfurfural in Polar Aprotic Solvents. <i>ChemCatChem</i> , 2014, 6, 2229-2234. | 3.8 | 117 |
| 172 | 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 |
| 173 | Plasmon-Enhanced Photoelectrochemical Water Splitting with Size-Controllable Gold Nanodot Arrays. <i>ACS Nano</i> , 2014, 8, 10756-10765. | 15.3 | 110 |
| 174 | Hydrothermally stable regenerable catalytic supports for aqueous-phase conversion of biomass. <i>Catalysis Today</i> , 2014, 234, 66-74. | 4.9 | 30 |
| 175 | Aqueous-phase hydrogenation and hydrodeoxygenation of biomass-derived oxygenates with bimetallic catalysts. <i>Green Chemistry</i> , 2014, 16, 708. | 9.4 | 112 |
| 176 | Modeling aqueous-phase hydrodeoxygenation of sorbitol over Pt/SiO ₂ -Al ₂ O ₃ . <i>RSC Advances</i> , 2013, 3, 23769. | 3.7 | 33 |
| 177 | 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 |
| 178 | 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 |
| 179 | Production of renewable petroleum refinery diesel and jet fuel feedstocks from hemicellulose sugar streams. <i>Energy and Environmental Science</i> , 2013, 6, 205-216. | 32.2 | 188 |
| 180 | The pyrolysis chemistry of a β -O-4 type oligomeric lignin model compound. <i>Green Chemistry</i> , 2013, 15, 125-136. | 9.4 | 287 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 181 | A distributed activation energy model for the pyrolysis of lignocellulosic biomass. <i>Green Chemistry</i> , 2013, 15, 1331. | 9.4 | 218 |
| 182 | Aqueous-phase hydrodeoxygenation of sorbitol: A comparative study of Pt/Zr phosphate and PtReOx/C. <i>Journal of Catalysis</i> , 2013, 304, 72-85. | 6.5 | 123 |
| 183 | The electrocatalytic hydrogenation of furanic compounds in a continuous electrocatalytic membrane reactor. <i>Green Chemistry</i> , 2013, 15, 1869. | 9.4 | 117 |
| 184 | Conversion of glucose into levulinic acid with solid metal(IV) phosphate catalysts. <i>Journal of Catalysis</i> , 2013, 304, 123-134. | 6.5 | 197 |
| 185 | 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 |
| 186 | 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 |
| 187 | Production of <i>p</i> -Xylene from Biomass by Catalytic Fast Pyrolysis Using ZSM-5 Catalysts with Reduced Pore Openings. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11097-11100. | 14.8 | 205 |
| 188 | Production of <i>m</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 |
| 189 | Catalytic fast pyrolysis of wood and alcohol mixtures in a fluidized bed reactor. <i>Green Chemistry</i> , 2012, 14, 98-110. | 9.4 | 204 |
| 190 | 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. | 9.4 | 114 |
| 191 | Electrocatalytic Reduction of Acetone in a Proton-Exchange Membrane Reactor: A Model Reaction for the Electrocatalytic Reduction of Biomass. <i>ChemSusChem</i> , 2012, 5, 2410-2420. | 7.5 | 50 |
| 192 | Ab Initio Dynamics of Cellulose Pyrolysis: Nascent Decomposition Pathways at 327 and 600 Å°C. <i>Journal of the American Chemical Society</i> , 2012, 134, 14958-14972. | 14.6 | 124 |
| 193 | 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 |
| 194 | Production of Renewable Aromatic Compounds by Catalytic Fast Pyrolysis of Lignocellulosic Biomass with Bifunctional Ga/ZSM-5 Catalysts. <i>Angewandte Chemie</i> , 2012, 124, 1416-1419. | 2.1 | 134 |
| 195 | Kinetics and Reaction Engineering of Levulinic Acid Production from Aqueous Glucose Solutions. <i>ChemSusChem</i> , 2012, 5, 1280-1290. | 7.5 | 172 |
| 196 | Reaction-transport model for the pyrolysis of shrinking cellulose particles. <i>Chemical Engineering Science</i> , 2012, 74, 160-171. | 4.0 | 20 |
| 197 | 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 |
| 198 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 199 | 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 |
| 200 | Simulating infrared spectra and hydrogen bonding in cellulose I ^β at elevated temperatures. <i>Journal of Chemical Physics</i> , 2011, 135, 134506. | 3.1 | 97 |
| 201 | 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 |
| 202 | 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 |
| 203 | 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 |
| 204 | Catalytic Conversion of Sugars to Fuels. , 2011, , 232-279. | | 10 |
| 205 | Renewable gasoline from aqueous phase hydrodeoxygenation of aqueous sugar solutions prepared by hydrolysis of maple wood. <i>Green Chemistry</i> , 2011, 13, 91-101. | 9.4 | 114 |
| 206 | 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 |
| 207 | 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 |
| 208 | Investigation into the shape selectivity of zeolite catalysts for biomass conversion. <i>Journal of Catalysis</i> , 2011, 279, 257-268. | 6.5 | 989 |
| 209 | Efficient electrooxidation of biomass-derived glycerol over a graphene-supported PtRu electrocatalyst. <i>Electrochemistry Communications</i> , 2011, 13, 890-893. | 4.8 | 63 |
| 210 | Identification and thermochemical analysis of high-lignin feedstocks for biofuel and biochemical production. <i>Biotechnology for Biofuels</i> , 2011, 4, 43. | 6.3 | 77 |
| 211 | Conceptual process design: A systematic method to evaluate and develop renewable energy technologies. <i>AIChE Journal</i> , 2011, 57, 2292-2301. | 3.6 | 42 |
| 212 | Highly active and stable PtRuSn/C catalyst for electrooxidations of ethylene glycol and glycerol. <i>Applied Catalysis B: Environmental</i> , 2011, 101, 366-375. | 20.7 | 157 |
| 213 | Liquid phase aldol condensation reactions with MgO/ZrO ₂ and shape-selective nitrogen-substituted NaY. <i>Applied Catalysis A: General</i> , 2011, 392, 57-68. | 4.6 | 152 |
| 214 | 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 |
| 215 | Applications: Renewable Fuels and Chemicals. , 2011, , 239-262. | | 0 |
| 216 | Aqueous-Phase Hydrogenation of Acetic Acid over Transition Metal Catalysts. <i>ChemCatChem</i> , 2010, 2, 1420-1424. | 3.8 | 126 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 217 | Removal of char particles from fast pyrolysis bio-oil by microfiltration. <i>Journal of Membrane Science</i> , 2010, 363, 120-127. | 8.3 | 46 |
| 218 | Catalysis Center for Energy Innovation for Biomass Processing: Research Strategies and Goals. <i>Catalysis Letters</i> , 2010, 140, 77-84. | 2.7 | 39 |
| 219 | 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 |
| 220 | 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 |
| 221 | 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 |
| 222 | Kinetic stability of nitrogen-substituted sites in HY and silicalite from first principles. <i>Journal of Catalysis</i> , 2010, 270, 249-255. | 6.5 | 9 |
| 223 | The Intrinsic Kinetics and Heats of Reactions for Cellulose Pyrolysis and Char Formation. <i>ChemSusChem</i> , 2010, 3, 1162-1165. | 7.5 | 76 |
| 224 | C ₁ -C Bond Formation Reactions for Biomass-Derived Molecules. <i>ChemSusChem</i> , 2010, 3, 1158-1161. | 7.5 | 90 |
| 225 | Renewable High-Octane Gasoline by Aqueous-Phase Hydrodeoxygenation of C ₅ and C ₆ Carbohydrates over Pt/Zirconium Phosphate Catalysts. <i>ChemSusChem</i> , 2010, 3, 1154-1157. | 7.5 | 115 |
| 226 | Highly improved oxygen reduction performance over Pt/C-dispersed nanowire network catalysts. <i>Electrochemistry Communications</i> , 2010, 12, 32-35. | 4.8 | 38 |
| 227 | Depolymerization of lignocellulosic biomass to fuel precursors: maximizing carbon efficiency by combining hydrolysis with pyrolysis. <i>Energy and Environmental Science</i> , 2010, 3, 358. | 32.2 | 159 |
| 228 | Production of jet and diesel fuel range alkanes from waste hemicellulose-derived aqueous solutions. <i>Green Chemistry</i> , 2010, 12, 1933. | 9.4 | 318 |
| 229 | 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 |
| 230 | What could be possible with mature biofuels technologies?. <i>Biofuels, Bioproducts and Biorefining</i> , 2009, 3, 105-107. | 3.7 | 7 |
| 231 | Aromatic Production from Catalytic Fast Pyrolysis of Biomass-Derived Feedstocks. <i>Topics in Catalysis</i> , 2009, 52, 241-252. | 3.0 | 633 |
| 232 | Kinetics and Mechanism of Cellulose Pyrolysis. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20097-20107. | 3.3 | 553 |
| 233 | The critical role of heterogeneous catalysis in lignocellulosic biomass conversion. <i>Energy and Environmental Science</i> , 2009, 2, 68-80. | 32.2 | 411 |
| 234 | Production of hydrogen, alkanes and polyols by aqueous phase processing of wood-derived pyrolysis oils. <i>Green Chemistry</i> , 2009, 11, 1433. | 9.4 | 234 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 235 | Green Gasoline by Catalytic Fast Pyrolysis of Solid Biomass Derived Compounds. <i>ChemSusChem</i> , 2008, 1, 397-400. | 7.5 | 491 |
| 236 | 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 |
| 237 | Rates of Catalytic Reactions. , 2008, , 1445-1462. | | 26 |
| 238 | Catalysts for Emerging Energy Applications. <i>MRS Bulletin</i> , 2008, 33, 429-435. | 4.2 | 52 |
| 239 | 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 |
| 240 | 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 |
| 241 | 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 |
| 242 | 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 |
| 243 | Synthesis of Transportation Fuels from Biomass: Chemistry, Catalysts, and Engineering. <i>Chemical Reviews</i> , 2006, 106, 4044-4098. | 51.4 | 6,937 |
| 244 | 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 |
| 245 | Production of Liquid Alkanes by Aqueous-Phase Processing of Biomass-Derived Carbohydrates. <i>Science</i> , 2005, 308, 1446-1450. | 20.9 | 1,525 |
| 246 | Experimental and DFT Studies of the Conversion of Ethanol and Acetic Acid on PtSn-Based Catalysts. <i>Journal of Physical Chemistry B</i> , 2005, 109, 2074-2085. | 2.7 | 162 |
| 247 | Renewable Alkanes by Aqueous-Phase Reforming of Biomass-Derived Oxygenates. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1549-1551. | 14.8 | 527 |
| 248 | Renewable Alkanes by Aqueous-Phase Reforming of Biomass-Derived Oxygenates. <i>Angewandte Chemie</i> , 2004, 116, 1575-1577. | 2.1 | 108 |
| 249 | Effect of Sn on the Reactivity of Cu Surfaces. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14062-14073. | 2.7 | 13 |
| 250 | Gd promotion of Co/SiO ₂ Fischer-Tropsch synthesis catalysts. <i>Catalysis Letters</i> , 2001, 74, 45-48. | 2.7 | 17 |
| 251 | 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 |
| 252 | Principles of Heterogeneous Catalysis. , 1996, , . | | 37 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 253 | Catalytic Conversion of Cellulose to Levoglucosenone Using Propylsulfonic Acid Functionalized Sba-15 and H ₂ so ₄ În Tetrahydrofuran. SSRN Electronic Journal, 0, , . | 0.3 | 0 |
| 254 | Producing Renewable Fuels from Wood. ChemistryViews, 0, , . | 0.0 | 0 |
| 255 | Catalytic Strategy for Conversion of Triacetic Acid Lactone to Potassium Sorbate. ACS Catalysis, 0, , 14031-14041. | 11.7 | 0 |
| 256 | Aliphatic amines from waste polyolefins by tandem pyrolysis, hydroformylation, and reductive amination. Green Chemistry, 0, , . | 9.4 | 0 |
| 257 | A Reactor Scale-Up Methodology from Lab-Scale to Pilot-Scale Operations: Numerical Modeling of THFA Dehydration to DHP in Packed-Bed Reactors. Industrial & Engineering Chemistry Research, 0, , . | 3.8 | 0 |
| 258 | Cast Film Production with Polyethylene Recycled from a Post-Industrial Printed Multilayer Film by Solvent-Targeted Recovery and Precipitation. , 0, , 4042-4050. | | 0 |
| 259 | Scale-Up Studies for the Dehydration of C ₄₊ Alcohols into Drop-In Diesel Fuel. Energy & Fuels, 0, , . | 5.2 | 0 |
| 260 | Advanced diesel from ethanol, a pathway to produce sustainable and high-quality drop-in biofuels. Sustainable Energy and Fuels, 0, , . | 4.8 | 0 |