

# Mark Crocker

## List of Publications by Year in descending order

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125  
papers

5,685  
citations

66343

42  
h-index

91884

69  
g-index

146  
all docs

146  
docs citations

146  
times ranked

5542  
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic deoxygenation of fatty acids and their derivatives to hydrocarbon fuels via decarboxylation/decarbonylation. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1041-1050.	3.2	262
2	Bio-oil upgrading over platinum catalysts using in situ generated hydrogen. <i>Applied Catalysis A: General</i> , 2009, 358, 150-156.	4.3	240
3	Catalytic removal of formaldehyde at room temperature over supported gold catalysts. <i>Applied Catalysis B: Environmental</i> , 2013, 132-133, 245-255.	20.2	212
4	Conversion of Triglycerides to Hydrocarbons Over Supported Metal Catalysts. <i>Topics in Catalysis</i> , 2010, 53, 820-829.	2.8	183
5	Catalytic deoxygenation of triglycerides and fatty acids to hydrocarbons over carbon-supported nickel. <i>Fuel</i> , 2013, 103, 1010-1017.	6.4	173
6	Investigation into the Catalytic Roles of Various Oxygen Species over Different Crystal Phases of MnO <sub>2</sub> for C <sub>6</sub> H <sub>6</sub> and HCHO Oxidation. <i>ACS Catalysis</i> , 2020, 10, 6176-6187.	11.2	172
7	Biodiesel synthesis using calcined layered double hydroxide catalysts. <i>Applied Catalysis B: Environmental</i> , 2008, 82, 120-130.	20.2	149
8	Microalgae as a renewable fuel source: Fast pyrolysis of <i>Scenedesmus</i> sp.. <i>Renewable Energy</i> , 2013, 60, 625-632.	8.9	146
9	FeOx-supported gold catalysts for catalytic removal of formaldehyde at room temperature. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 73-81.	20.2	137
10	Catalytic deoxygenation of triglycerides to hydrocarbons over supported nickel catalysts. <i>Chemical Engineering Journal</i> , 2012, 189-190, 346-355.	12.7	132
11	Al <sub>2</sub> O <sub>3</sub> -based passive NO <sub>x</sub> adsorbers for low temperature applications. <i>Applied Catalysis B: Environmental</i> , 2015, 170-171, 283-292.	20.2	118
12	A study of the mechanism of low-temperature SCR of NO with NH <sub>3</sub> on MnO <sub>x</sub> /CeO <sub>2</sub> . <i>Journal of Molecular Catalysis A</i> , 2013, 378, 82-90.	4.8	108
13	Complete oxidation of formaldehyde at ambient temperature over γ-Al <sub>2</sub> O <sub>3</sub> supported Au catalyst. <i>Catalysis Communications</i> , 2013, 42, 93-97.	3.3	102
14	Effect of Cu and Sn promotion on the catalytic deoxygenation of model and algal lipids to fuel-like hydrocarbons over supported Ni catalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 191, 147-156.	20.2	102
15	Bioplastic feedstock production from microalgae with fuel co-products: A techno-economic and life cycle impact assessment. <i>Algal Research</i> , 2020, 46, 101769.	4.6	94
16	A comparative study of the catalytic oxidation of HCHO and CO over Mn <sub>0.75</sub> Co <sub>2.25</sub> O <sub>4</sub> catalyst: The effect of moisture. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 542-551.	20.2	85
17	Biodiesel production from soybean oil using calcined Li-Al layered double hydroxide catalysts. <i>Catalysis Letters</i> , 2007, 115, 56-61.	2.6	81
18	Catalytic deoxygenation of triglycerides and fatty acids to hydrocarbons over Ni-Al layered double hydroxide. <i>Catalysis Today</i> , 2014, 237, 136-144.	4.4	76

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19	Identification and thermochemical analysis of high-lignin feedstocks for biofuel and biochemical production. <i>Biotechnology for Biofuels</i> , 2011, 4, 43.	6.2	72
20	Influence of ceria on the NO <sub>x</sub> storage/reduction behavior of lean NO <sub>x</sub> trap catalysts. <i>Catalysis Today</i> , 2008, 136, 146-155.	4.4	71
21	Three-dimensional ordered mesoporous Co-Mn oxide: A highly active catalyst for CO storage-oxidation-cycling for the removal of formaldehyde. <i>Catalysis Communications</i> , 2013, 36, 52-57.	3.3	71
22	NO <sub>x</sub> storage and reduction in model lean NO <sub>x</sub> trap catalysts studied by in situ DRIFTS. <i>Applied Catalysis B: Environmental</i> , 2009, 91, 329-338.	20.2	69
23	Selective cleavage of the C-C linkage in lignin model compounds via Baeyer-Villiger oxidation. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 3243-3254.	2.8	68
24	Insights into the structure-activity relationships of highly efficient CoMn oxides for the low temperature NH <sub>3</sub> -SCR of NO <sub>x</sub> . <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119215.	20.2	68
25	Pt- and Pd-Promoted CeO <sub>2</sub> -ZrO <sub>2</sub> for Passive NO <sub>x</sub> Adsorber Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 111-125.	3.7	67
26	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.	7.1	66
27	Effect of Ceria on the Storage and Regeneration Behavior of a Model Lean NO <sub>x</sub> Trap Catalyst. <i>Catalysis Letters</i> , 2007, 119, 257-264.	2.6	64
28	Activated Carbon, Carbon Nanofiber and Carbon Nanotube Supported Molybdenum Carbide Catalysts for the Hydrodeoxygenation of Guaiacol. <i>Catalysts</i> , 2015, 5, 424-441.	3.5	64
29	A kinetic and DRIFTS study of supported Pt catalysts for NO oxidation. <i>Catalysis Letters</i> , 2006, 110, 29-37.	2.6	61
30	Gold-catalyzed conversion of lignin to low molecular weight aromatics. <i>Chemical Science</i> , 2018, 9, 8127-8133.	7.4	61
31	NO <sub>x</sub> storage and reduction properties of model ceria-based lean NO <sub>x</sub> trap catalysts. <i>Applied Catalysis B: Environmental</i> , 2012, 119-120, 183-196.	20.2	58
32	Understanding Lignin Fractionation and Characterization from Engineered Switchgrass Treated by an Aqueous Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6612-6623.	6.7	56
33	CO <sub>2</sub> recycling using microalgae for the production of fuels. <i>Applied Petrochemical Research</i> , 2014, 4, 41-53.	1.3	54
34	Ceria-Based Catalysts for Low Temperature NO <sub>x</sub> Storage and Release. <i>Catalysis Letters</i> , 2016, 146, 909-917.	2.6	53
35	New sulfur adsorbents derived from layered double hydroxides. <i>Applied Catalysis B: Environmental</i> , 2008, 82, 199-207.	20.2	50
36	Lipid extraction from <i>Scenedesmus</i> sp. microalgae for biodiesel production using hot compressed hexane. <i>Fuel</i> , 2014, 130, 66-69.	6.4	49

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37	Co-processing of hydrothermal liquefaction algal bio-oil and petroleum feedstock to fuel-like hydrocarbons via fluid catalytic cracking. <i>Fuel Processing Technology</i> , 2019, 188, 164-171.	7.2	48
38	Mechanochemical Treatment Facilitates Two-Step Oxidative Depolymerization of Kraft Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5990-5998.	6.7	47
39	Synergy between $\text{Ir}^2\text{-Mo}_2\text{C}$ Nanorods and Non-thermal Plasma for Selective $\text{CO}_2$ Reduction to $\text{CO}$ . <i>CheM</i> , 2020, 6, 3312-3328.	11.7	47
40	Extraction, characterization, purification and catalytic upgrading of algae lipids to fuel-like hydrocarbons. <i>Fuel</i> , 2016, 180, 668-678.	6.4	45
41	A non- $\text{NH}_3$ pathway for $\text{NO}_x$ conversion in coupled LNT-SCR systems. <i>Applied Catalysis B: Environmental</i> , 2012, 111-112, 562-570.	20.2	44
42	Non-thermal plasma-assisted $\text{NO}_x$ storage and reduction on a $\text{LaMn}_{0.9}\text{Fe}_{0.1}\text{O}_3$ perovskite catalyst. <i>Catalysis Today</i> , 2013, 211, 96-103.	4.4	44
43	New sulfur adsorbents derived from layered double hydroxides. <i>Applied Catalysis B: Environmental</i> , 2008, 82, 190-198.	20.2	43
44	Understanding on the origins of hydroxyapatite stabilized gold nanoparticles as high-efficiency catalysts for formaldehyde and benzene oxidation. <i>Catalysis Communications</i> , 2015, 59, 195-200.	3.3	43
45	Continuous catalytic deoxygenation of model and algal lipids to fuel-like hydrocarbons over $\text{Ni}^{\text{II}}\text{-Al}$ layered double hydroxide. <i>Catalysis Today</i> , 2015, 258, 284-293.	4.4	42
46	Hydrophobic functionalization of HY zeolites for efficient conversion of glycerol to solketal. <i>Applied Catalysis A: General</i> , 2020, 592, 117369.	4.3	42
47	$\text{NO}$ storage and reduction properties of model manganese-based lean $\text{NO}$ trap catalysts. <i>Applied Catalysis B: Environmental</i> , 2015, 165, 232-244.	20.2	41
48	Surface Organometallic Chemistry of Titanium: A Synthesis, Characterization, and Reactivity of $(\text{Si}^{\text{O}})_n\text{Ti}(\text{CH}_2\text{C}(\text{CH}_3)_3)_4$ ( $n = 1, 2$ ) Grafted on Aerosil Silica and MCM-41. <i>Organometallics</i> , 2006, 25, 3743-3760.	2.3	39
49	A comparative study of secondary depolymerization methods on oxidized lignins. <i>Green Chemistry</i> , 2019, 21, 3940-3947.	9.0	38
50	New insights into alkaline metal modified $\text{CoMn}$ -oxide catalysts for formaldehyde oxidation at low temperatures. <i>Applied Catalysis A: General</i> , 2020, 596, 117512.	4.3	38
51	Carbon nanotube-supported metal catalysts for $\text{NO}_x$ reduction using hydrocarbon reductants. Part 1: Catalyst preparation, characterization and $\text{NO}_x$ reduction characteristics. <i>Applied Catalysis B: Environmental</i> , 2011, 102, 1-8.	20.2	36
52	Pyrolysis-GC/MS of sinapyl and coniferyl alcohol. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 99, 161-169.	5.5	36
53	Regioselective Baeyer-Villiger oxidation of lignin model compounds with tin beta zeolite catalyst and hydrogen peroxide. <i>RSC Advances</i> , 2017, 7, 25987-25997.	3.6	35
54	Reactions of coordinated ligands. Part 47. Synthesis, structure, and reactivity of $[\eta\text{-}4(5\text{e})\text{-butadienyl}]\text{ruthenium}$ complexes: crystal structures of $\text{CpRu}:\text{C}(\text{Ph})\text{-}\eta\text{-}3\text{-}[\text{C}(\text{Ph})\text{C}(\text{Ph})\text{CH}(\text{Ph})]$ , $\text{CpRuC}(\text{Ph}):\text{C}(\text{Ph})\text{-}\eta\text{-}2\text{-}[\text{C}(\text{Ph}):\text{CH}(\text{Ph})]\text{P}(\text{OMe})_3$ , and $\text{CpRu}_2[\mu\text{-}(\text{Z})\text{-C}(\text{Ph}):\text{CH}(\text{Ph})](\text{CO})_2(\eta\text{-}4\text{-C}_4\text{Ph}_4)$ . <i>Organometallics</i> , 1990, 9, 1422-1434.	2.3	33

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55	Effect of aging on the NO <sub>x</sub> storage and regeneration characteristics of fully formulated lean NO <sub>x</sub> trap catalysts. <i>Applied Catalysis B: Environmental</i> , 2011, 103, 413-427.	20.2	33
56	CeO <sub>2</sub> -M <sub>2</sub> O <sub>3</sub> Passive NO <sub>x</sub> Adsorbers for Cold Start Applications. <i>Emission Control Science and Technology</i> , 2017, 3, 59-72.	1.5	33
57	Hybrid catalysts with enhanced C <sub>3</sub> H <sub>6</sub> resistance for NH <sub>3</sub> -SCR of NO <sub>x</sub> . <i>Applied Catalysis B: Environmental</i> , 2019, 242, 161-170.	20.2	33
58	Formation of bridging acylium and nitrilium complexes by reaction of carbon monoxide and tert-butyl isocyanide with a bridging diiron methylidyne complex. Evidence for strong electron donation from the Fe <sub>2</sub> C core onto the $\mu$ -CHC(=O) and $\mu$ -CHC(=NR) ligands. <i>Journal of the American Chemical Society</i> , 1988, 110, 6070-6076.	13.7	32
59	NO <sub>x</sub> storage/reduction characteristics of Ba-based lean NO <sub>x</sub> trap catalysts subjected to simulated road aging. <i>Catalysis Today</i> , 2010, 151, 362-375.	4.4	31
60	Effect of aging on NO <sub>x</sub> reduction in coupled LNT/SCR systems. <i>Applied Catalysis B: Environmental</i> , 2014, 148-149, 51-61.	20.2	31
61	Effect of Cu promotion on cracking and methanation during the Ni-catalyzed deoxygenation of waste lipids and hemp seed oil to fuel-like hydrocarbons. <i>Catalysis Today</i> , 2018, 302, 261-271.	4.4	31
62	Pt-free, non-thermal plasma-assisted NO storage and reduction over M/Ba/Al <sub>2</sub> O <sub>3</sub> (M = Mn, Fe, Co, Ni). <i>Journal of Catalysis</i> , 2019, 370, 1-10.	4.4	30
63	Pd-promoted WO <sub>3</sub> -ZrO <sub>2</sub> for low temperature NO <sub>x</sub> storage. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118499.	20.2	30
64	Mutagenesis Breeding for Increased 3-Deoxyanthocyanidin Accumulation in Leaves of <i>Sorghum bicolor</i> (L.) Moench: A Source of Natural Food Pigment. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 1227-1232.	5.2	29
65	Simultaneous promotion of photosynthesis and astaxanthin accumulation during two stages of <i>Haematococcus pluvialis</i> with ammonium ferric citrate. <i>Science of the Total Environment</i> , 2021, 750, 141689.	8.0	29
66	Capture and recycle of industrial CO <sub>2</sub> emissions using microalgae. <i>Applied Petrochemical Research</i> , 2016, 6, 279-293.	1.3	28
67	Cooperative Brønsted-Lewis acid sites created by phosphotungstic acid encapsulated metal-organic frameworks for selective glucose conversion to 5-hydroxymethylfurfural. <i>Fuel</i> , 2022, 310, 122459.	6.4	28
68	Continuous Catalytic Deoxygenation of Waste Free Fatty Acid-Based Feeds to Fuel-Like Hydrocarbons Over a Supported Ni-Cu Catalyst. <i>Catalysts</i> , 2019, 9, 123.	3.5	25
69	Preparation and characterization of cerium oxide templated from activated carbon. <i>Journal of Materials Science</i> , 2007, 42, 3454-3464.	3.7	24
70	Reactions of heteroatom and carbon nucleophiles with the cationic bridging methylidyne complex $\{[(C_5H_5)(CO)Fe]_2(\mu-CO)(\mu-CH)^+\}$ PF <sub>6</sub> <sup>-</sup> . <i>Organometallics</i> , 1988, 7, 670-675.	2.3	23
71	Py-GCMS studies of Indian coals and their solvent extracted products. <i>Fuel</i> , 2019, 256, 115981.	6.4	23
72	Catalytic Materials for Low Concentration VOCs Removal through "Storage-Regeneration-Cycling". <i>ChemCatChem</i> , 2019, 11, 3646-3661.	3.7	23

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73	Tripodal titanium silsesquioxane complexes immobilized in polydimethylsiloxane (PDMS) membrane: Selective catalysts for epoxidation of cyclohexene and 1-octene with aqueous hydrogen peroxide. <i>Journal of Catalysis</i> , 2010, 273, 66-72.	6.2	22
74	Mn-based mixed oxides for low temperature NO <sub>x</sub> adsorber applications. <i>Applied Catalysis A: General</i> , 2018, 567, 90-101.	4.3	22
75	Application of spaciMS to the study of ammonia formation in lean NO <sub>x</sub> trap catalysts. <i>Applied Catalysis B: Environmental</i> , 2012, 123-124, 339-350.	20.2	21
76	Oxidation of lignin and lignin $\beta$ -O-4 model compounds via activated dimethyl sulfoxide. <i>RSC Advances</i> , 2015, 5, 105136-105148.	3.6	21
77	Non-thermal plasma enhanced NSR performance over Pt/M/Ba/Al <sub>2</sub> O <sub>3</sub> (M = Mn, Co, Cu) catalysts. <i>Chemical Engineering Journal</i> , 2017, 314, 688-699.	12.7	21
78	Impact of Dilute Sulfuric Acid, Ammonium Hydroxide, and Ionic Liquid Pretreatments on the Fractionation and Characterization of Engineered Switchgrass. <i>Bioenergy Research</i> , 2017, 10, 1079-1093.	3.9	21
79	Promotional Effect of Cu, Fe and Pt on the Performance of Ni/Al <sub>2</sub> O <sub>3</sub> in the Deoxygenation of Used Cooking Oil to Fuel-Like Hydrocarbons. <i>Catalysts</i> , 2020, 10, 91.	3.5	21
80	Effect of Ceria on the Sulfation and Desulfation Characteristics of a Model Lean NO <sub>x</sub> Trap Catalyst. <i>Catalysis Letters</i> , 2009, 127, 55-62.	2.6	20
81	Single-step synthesis of germanium nanowires encapsulated within multi-walled carbon nanotubes. <i>Carbon</i> , 2009, 47, 1708-1714.	10.3	20
82	The effect of regeneration conditions on the selectivity of NO <sub>x</sub> reduction in a fully formulated lean NO <sub>x</sub> trap catalyst. <i>Catalysis Today</i> , 2011, 175, 83-92.	4.4	20
83	Characterization of Endocarp Biomass and Extracted Lignin Using Pyrolysis and Spectroscopic Methods. <i>Bioenergy Research</i> , 2015, 8, 350-368.	3.9	20
84	Non-thermal plasma-assisted NO storage and reduction over cobalt-containing LNT catalysts. <i>Catalysis Today</i> , 2015, 258, 386-395.	4.4	19
85	Positive effects of K <sup>+</sup> in hybrid CoMn-K and Pd/Ba/Al <sub>2</sub> O <sub>3</sub> catalysts for NO <sub>x</sub> storage and reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 249, 333-345.	20.2	19
86	Effect of ceria on the desulfation characteristics of model lean NO <sub>x</sub> trap catalysts. <i>Catalysis Today</i> , 2010, 151, 338-346.	4.4	18
87	Beneficial re-use of industrial CO <sub>2</sub> emissions using microalgae: Demonstration assessment and biomass characterization. <i>Bioresource Technology</i> , 2019, 293, 122014.	9.6	18
88	Reactions of nucleophiles with cationic bridging alkylidyne complexes. <i>Journal of Organometallic Chemistry</i> , 1990, 394, 339-347.	1.8	17
89	Isocyanate formation and reactivity on a Ba-based LNT catalyst studied by DRIFTS. <i>Applied Catalysis B: Environmental</i> , 2013, 140-141, 265-275.	20.2	17
90	Reducing biomass recalcitrance by heterologous expression of a bacterial peroxidase in tobacco ( <i>Nicotiana benthamiana</i> ). <i>Scientific Reports</i> , 2017, 7, 17104.	3.3	17

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91	Effect of Pt Promotion on the Ni-Catalyzed Deoxygenation of Tristearin to Fuel-Like Hydrocarbons. <i>Catalysts</i> , 2019, 9, 200.	3.5	16
92	Reactions of organocopper reagents with the cationic bridging acylium complex [C <sub>5</sub> H <sub>5</sub> (CO)Fe] <sub>2</sub> ( $\mu$ -CO)( $\mu$ -CHCO) <sup>+</sup> . <i>Organometallics</i> , 1989, 8, 278-282.	2.3	15
93	Adsorption and desorption of propene on a commercial Cu-SSZ-13 SCR catalyst. <i>Catalysis Today</i> , 2014, 231, 83-89.	4.4	15
94	A comparison of the oxidation of lignin model compounds in conventional and ionic liquid solvents and application to the oxidation of lignin. <i>RSC Advances</i> , 2016, 6, 104742-104753.	3.6	15
95	Algae-Based Beneficial Re-use of Carbon Emissions Using a Novel Photobioreactor: a Techno-Economic and Life Cycle Analysis. <i>Bioenergy Research</i> , 2021, 14, 292-302.	3.9	15
96	Roles of C <sub>3</sub> H <sub>6</sub> in NH <sub>3</sub> generation and NO <sub>x</sub> reduction over a Cu-chabazite SCR catalyst under lean/rich cycling conditions. <i>Catalysis Today</i> , 2014, 231, 90-98.	4.4	14
97	Structural Evolution of Molybdenum Carbides in Hot Aqueous Environments and Impact on Low-Temperature Hydroprocessing of Acetic Acid. <i>Catalysts</i> , 2015, 5, 406-423.	3.5	14
98	Carbon Nanotube-Supported Metal Catalysts for NO <sub>x</sub> Reduction Using Hydrocarbon Reductants: Gas Switching and Adsorption Studies. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 7191-7200.	3.7	13
99	An energy-efficient catalytic process for the tandem removal of formaldehyde and benzene by metal/HZSM-5 catalysts. <i>Catalysis Science and Technology</i> , 2015, 5, 4968-4972.	4.1	13
100	Pt/Ce Pr <sub>1-x</sub> O <sub>2</sub> (x= 1 or 0.9) NO storage/reduction (NSR) catalysts. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 313-322.	20.2	13
101	Low-temperature H <sub>2</sub> -plasma-assisted NO <sub>x</sub> storage and reduction over a combined Pt/Ba/Al and LaMnFe catalyst. <i>Catalysis Science and Technology</i> , 2017, 7, 145-158.	4.1	13
102	Effects of Treatment Conditions on Pd Speciation in CHA and Beta Zeolites for Passive NO <sub>x</sub> Adsorption. <i>ACS Omega</i> , 2021, 6, 29471-29482.	3.5	12
103	Unveiling the structural, electronic, and optical effects of carbon-doping on multi-layer anatase TiO <sub>2</sub> (1 0 1) and the impact on photocatalysis. <i>Applied Surface Science</i> , 2022, 586, 152641.	6.1	12
104	Bi <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts for the selective reduction of NO with hydrocarbons in lean conditions. <i>Applied Catalysis B: Environmental</i> , 2006, 65, 44-54.	20.2	11
105	Non-thermal plasma assisted NO storage and reduction over a cobalt-containing Pd catalyst using H <sub>2</sub> and/or CO as reductants. <i>Catalysis Today</i> , 2015, 258, 175-182.	4.4	11
106	Application of recycled media and algae-based anaerobic digestate in <i>Scenedesmus</i> cultivation. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, 013116.	2.0	11
107	Effect of Pd promotion and catalyst support on the Ni-catalyzed deoxygenation of tristearin to fuel-like hydrocarbons. <i>Renewable Energy</i> , 2022, 195, 1468-1479.	8.9	11
108	Simulated Distillation Approach to the Gas Chromatographic Analysis of Feedstock and Products in the Deoxygenation of Lipids to Hydrocarbon Biofuels. <i>Energy &amp; Fuels</i> , 2014, 28, 2654-2662.	5.1	10

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109	Use of Dual Detection in the Gas Chromatographic Analysis of Oleaginous Biomass Feeds and Biofuel Products To Enable Accurate Simulated Distillation and Lipid Profiling. <i>Energy &amp; Fuels</i> , 2017, 31, 9498-9506.	5.1	10
110	New insights into the size and support effects of $\gamma$ -Al <sub>2</sub> O <sub>3</sub> supported Au catalysts for HCHO oxidation at room temperature. <i>Catalysis Science and Technology</i> , 2020, 10, 4571-4579.	4.1	10
111	Effective Model of NO <sub>x</sub> Adsorption and Desorption on PtPd/CeO <sub>2</sub> -ZrO <sub>2</sub> Passive NO <sub>x</sub> Adsorber. <i>Catalysis Letters</i> , 2020, 150, 3223-3233.	2.6	10
112	Beneficial Reuse of Industrial CO <sub>2</sub> Emissions Using a Microalgae Photobioreactor: Waste Heat Utilization Assessment. <i>Energies</i> , 2019, 12, 2634.	3.1	9
113	Sulfur dioxide as a chemical probe for titanyl groups in titanium silicalites. <i>Journal of Molecular Catalysis A</i> , 1996, 110, L7-L11.	4.8	8
114	N <sub>2</sub> O Mitigation in a Coupled LNT+SCR System. <i>Catalysis Letters</i> , 2012, 142, 1167-1174.	2.6	8
115	Supported bismuth oxide catalysts for the selective reduction of NO with propene in lean conditions. <i>Catalysis Communications</i> , 2006, 7, 122-126.	3.3	5
116	NO <sub>x</sub> Reduction on Fully Formulated Lean NO <sub>x</sub> Trap Catalysts Subjected to Simulated Road Aging: Insights from Steady-State Experiments. <i>Chinese Journal of Catalysis</i> , 2011, 32, 736-745.	14.0	5
117	Proximate composition of enhanced DGAT high oil, high protein soybeans. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 21, 101303.	3.1	5
118	Aluminum-based Metal-Organic Framework as Water-tolerant Lewis Acid Catalyst for Selective Dihydroxyacetone Isomerization to Lactic Acid. <i>ChemCatChem</i> , 2022, 14, .	3.7	5
119	The function of Pt in plasma-assisted NO <sub>x</sub> storage and reduction. <i>Catalysis Communications</i> , 2017, 102, 81-84.	3.3	4
120	Oxidation of Benzylic Alcohols and Lignin Model Compounds with Layered Double Hydroxide Catalysts. <i>Inorganics</i> , 2018, 6, 75.	2.7	4
121	A Genetic Algorithmic Approach to Determine the Structure of Li-Al Layered Double Hydroxides. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 4845-4855.	5.4	4
122	Influence of media composition on the growth rate of <i>Chlorella vulgaris</i> and <i>Scenedesmus acutus</i> utilized for CO <sub>2</sub> mitigation. , 2012, , .		3
123	Aluminum-Containing Metal-Organic Frameworks as Selective and Reusable Catalysts for Glucose Isomerization to Fructose. <i>ChemCatChem</i> , 2022, 14, .	3.7	2
124	Photoluminescence of Titanosilsesquioxanes in Solution and Its Relevance for the Understanding of the Emission of Titanosilicates. <i>ChemPhysChem</i> , 2000, 1, 93-97.	2.1	1
125	Evaluation of near-ambient algal biomass fractionation conditions for bioproduct development. <i>Biomass Conversion and Biorefinery</i> , 2020, , 1.	4.6	1