

Rongsheng Ruan

List of Publications by Year in descending order

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503
papers

26,514
citations

5558

82
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11581

135
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all docs

513
docs citations

513
times ranked

16195
citing authors

#	ARTICLE	IF	CITATIONS
1	Cultivation of Green Algae <i>Chlorella</i> sp. in Different Wastewaters from Municipal Wastewater Treatment Plant. <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 1174-1186.	1.4	856
2	Photocatalytic degradation of organic pollutants using TiO ₂ -based photocatalysts: A review. <i>Journal of Cleaner Production</i> , 2020, 268, 121725.	4.6	819
3	Characterization of a microalga <i>Chlorella</i> sp. well adapted to highly concentrated municipal wastewater for nutrient removal and biodiesel production. <i>Bioresource Technology</i> , 2011, 102, 5138-5144.	4.8	607
4	Anaerobic digested dairy manure as a nutrient supplement for cultivation of oil-rich green microalgae <i>Chlorella</i> sp.. <i>Bioresource Technology</i> , 2010, 101, 2623-2628.	4.8	587
5	A review of catalytic hydrodeoxygenation of lignin-derived phenols from biomass pyrolysis. <i>Bioresource Technology</i> , 2012, 124, 470-477.	4.8	469
6	Microalgae-based wastewater treatment for nutrients recovery: A review. <i>Bioresource Technology</i> , 2019, 291, 121934.	4.8	413
7	Microwave-assisted pyrolysis of microalgae for biofuel production. <i>Bioresource Technology</i> , 2011, 102, 4890-4896.	4.8	344
8	Local bioprospecting for high-lipid producing microalgal strains to be grown on concentrated municipal wastewater for biofuel production. <i>Bioresource Technology</i> , 2011, 102, 6909-6919.	4.8	344
9	Culture of Microalgae <i>Chlamydomonas reinhardtii</i> in Wastewater for Biomass Feedstock Production. <i>Applied Biochemistry and Biotechnology</i> , 2010, 160, 9-18.	1.4	332
10	Mixotrophic cultivation of <i>Chlorella vulgaris</i> and its potential application for the oil accumulation from non-sugar materials. <i>Biomass and Bioenergy</i> , 2011, 35, 2245-2253.	2.9	263
11	Microwave-assisted pyrolysis of biomass: Catalysts to improve product selectivity. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009, 86, 161-167.	2.6	253
12	Poly(lactic acid) (PLA) synthesis and modifications: a review. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2009, 4, 259-264.	0.4	228
13	Integration of algae cultivation as biodiesel production feedstock with municipal wastewater treatment: Strains screening and significance evaluation of environmental factors. <i>Bioresource Technology</i> , 2011, 102, 10861-10867.	4.8	223
14	Bio-mitigation of carbon dioxide using microalgal systems: Advances and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 76, 1163-1175.	8.2	215
15	Inactivation of <i>Escherichia coli</i> on Almonds Using Nonthermal Plasma. <i>Journal of Food Science</i> , 2007, 72, M62-M66.	1.5	212
16	Novel Fungal Pelletization-Assisted Technology for Algae Harvesting and Wastewater Treatment. <i>Applied Biochemistry and Biotechnology</i> , 2012, 167, 214-228.	1.4	207
17	Production of phenols and biofuels by catalytic microwave pyrolysis of lignocellulosic biomass. <i>Bioresource Technology</i> , 2012, 108, 274-279.	4.8	207
18	Catalytic pyrolysis of microalgae and their three major components: Carbohydrates, proteins, and lipids. <i>Bioresource Technology</i> , 2013, 130, 777-782.	4.8	204

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19	A hetero-photoautotrophic two-stage cultivation process to improve wastewater nutrient removal and enhance algal lipid accumulation. <i>Bioresource Technology</i> , 2012, 110, 448-455.	4.8	203
20	Bio-oil from fast pyrolysis of lignin: Effects of process and upgrading parameters. <i>Bioresource Technology</i> , 2017, 241, 1118-1126.	4.8	195
21	Jet fuel production from waste plastics via catalytic pyrolysis with activated carbons. <i>Applied Energy</i> , 2019, 251, 113337.	5.1	191
22	Integrated process of lignocellulosic biomass torrefaction and pyrolysis for upgrading bio-oil production: A state-of-the-art review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 107, 20-36.	8.2	186
23	Environment-enhancing algal biofuel production using wastewaters. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 36, 256-269.	8.2	182
24	Catalytic microwave-assisted pyrolysis of plastic waste over NiO and HY for gasoline-range hydrocarbons production. <i>Energy Conversion and Management</i> , 2019, 196, 1316-1325.	4.4	172
25	Effects of feedstock characteristics on microwave-assisted pyrolysis – A review. <i>Bioresource Technology</i> , 2017, 230, 143-151.	4.8	169
26	Fast microwave-assisted catalytic co-pyrolysis of lignin and low-density polyethylene with HZSM-5 and MgO for improved bio-oil yield and quality. <i>Bioresource Technology</i> , 2017, 225, 199-205.	4.8	169
27	Plastic waste upcycling toward a circular economy. <i>Chemical Engineering Journal</i> , 2022, 428, 131928.	6.6	169
28	Fast microwave-assisted catalytic pyrolysis of sewage sludge for bio-oil production. <i>Bioresource Technology</i> , 2014, 172, 162-168.	4.8	166
29	Effect of wastewater-borne bacteria on algal growth and nutrients removal in wastewater-based algae cultivation system. <i>Bioresource Technology</i> , 2014, 167, 8-13.	4.8	166
30	Fast microwave assisted pyrolysis of biomass using microwave absorbent. <i>Bioresource Technology</i> , 2014, 156, 267-274.	4.8	166
31	Phenol and phenolics from lignocellulosic biomass by catalytic microwave pyrolysis. <i>Bioresource Technology</i> , 2011, 102, 7004-7007.	4.8	164
32	Growing wastewater-born microalga <i>Auxenochlorella protothecoides</i> UMN280 on concentrated municipal wastewater for simultaneous nutrient removal and energy feedstock production. <i>Applied Energy</i> , 2012, 98, 433-440.	5.1	162
33	Growing <i>Chlorella</i> sp. on meat processing wastewater for nutrient removal and biomass production. <i>Bioresource Technology</i> , 2015, 198, 189-197.	4.8	155
34	Filamentous fungi assisted bio-flocculation: A novel alternative technique for harvesting heterotrophic and autotrophic microalgal cells. <i>Separation and Purification Technology</i> , 2013, 107, 158-165.	3.9	154
35	Catalytic fast co-pyrolysis of biomass and food waste to produce aromatics: Analytical Py-GC/MS study. <i>Bioresource Technology</i> , 2015, 189, 30-35.	4.8	154
36	Cultivating <i>Chlorella</i> sp. in a Pilot-Scale Photobioreactor Using Centrate Wastewater for Microalgae Biomass Production and Wastewater Nutrient Removal. <i>Applied Biochemistry and Biotechnology</i> , 2011, 165, 123-137.	1.4	152

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37	Fast microwave-assisted catalytic co-pyrolysis of corn stover and scum for bio-oil production with CaO and HZSM-5 as the catalyst. <i>Bioresource Technology</i> , 2016, 204, 164-170.	4.8	151
38	A review on the non-thermal plasma-assisted ammonia synthesis technologies. <i>Journal of Cleaner Production</i> , 2018, 177, 597-609.	4.6	150
39	A review of catalytic microwave pyrolysis of lignocellulosic biomass for value-added fuel and chemicals. <i>Bioresource Technology</i> , 2017, 230, 112-121.	4.8	149
40	Catalytic pyrolysis of plastic wastes in a continuous microwave assisted pyrolysis system for fuel production. <i>Chemical Engineering Journal</i> , 2021, 418, 129412.	6.6	148
41	A review on selective production of value-added chemicals via catalytic pyrolysis of lignocellulosic biomass. <i>Science of the Total Environment</i> , 2020, 749, 142386.	3.9	145
42	A review on catalytic pyrolysis of plastic wastes to high-value products. <i>Energy Conversion and Management</i> , 2022, 254, 115243.	4.4	145
43	Comprehensive techno-economic analysis of wastewater-based algal biofuel production: A case study. <i>Bioresource Technology</i> , 2016, 211, 584-593.	4.8	143
44	Biofuel production and kinetics analysis for microwave pyrolysis of Douglas fir sawdust pellet. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 94, 163-169.	2.6	141
45	Utilization of municipal solid and liquid wastes for bioenergy and bioproducts production. <i>Bioresource Technology</i> , 2016, 215, 163-172.	4.8	141
46	Production of aromatic hydrocarbons by catalytic pyrolysis of microalgae with zeolites: Catalyst screening in a pyroprobe. <i>Bioresource Technology</i> , 2013, 139, 397-401.	4.8	138
47	Fast microwave-assisted pyrolysis of microalgae using microwave absorbent and HZSM-5 catalyst. <i>Bioresource Technology</i> , 2014, 166, 518-526.	4.8	137
48	Fast microwave-assisted pyrolysis of wastes for biofuels production – A review. <i>Bioresource Technology</i> , 2020, 297, 122480.	4.8	137
49	Cultivation of a microalga <i>Chlorella vulgaris</i> using recycled aqueous phase nutrients from hydrothermal carbonization process. <i>Bioresource Technology</i> , 2012, 126, 354-357.	4.8	135
50	Fast microwave-assisted catalytic co-pyrolysis of microalgae and scum for bio-oil production. <i>Fuel</i> , 2015, 160, 577-582.	3.4	135
51	Comparative study on microwave and conventional hydrothermal pretreatment of bamboo sawdust: Hydrochar properties and its pyrolysis behaviors. <i>Energy Conversion and Management</i> , 2017, 146, 1-7.	4.4	133
52	Improving hydrocarbon yield from catalytic fast co-pyrolysis of hemicellulose and plastic in the dual-catalyst bed of CaO and HZSM-5. <i>Bioresource Technology</i> , 2018, 261, 86-92.	4.8	132
53	Carboxymethyl chitosan-pullulan edible films enriched with galangal essential oil: Characterization and application in mango preservation. <i>Carbohydrate Polymers</i> , 2021, 256, 117579.	5.1	129
54	The effects of torrefaction on compositions of bio-oil and syngas from biomass pyrolysis by microwave heating. <i>Bioresource Technology</i> , 2013, 135, 659-664.	4.8	128

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55	Synthesis of graphene-like carbon from biomass pyrolysis and its applications. <i>Chemical Engineering Journal</i> , 2020, 399, 125808.	6.6	128
56	In situ IR study of surface hydroxyl species of dehydrated TiO ₂ : towards understanding pivotal surface processes of TiO ₂ photocatalytic oxidation of toluene. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9468.	1.3	127
57	Ex-situ catalytic upgrading of vapors from microwave-assisted pyrolysis of low-density polyethylene with MgO. <i>Energy Conversion and Management</i> , 2017, 149, 432-441.	4.4	126
58	Microwave-assisted catalytic fast pyrolysis of biomass for bio-oil production using chemical vapor deposition modified HZSM-5 catalyst. <i>Bioresource Technology</i> , 2015, 197, 79-84.	4.8	125
59	Review of microwave-assisted lignin conversion for renewable fuels and chemicals. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 119, 104-113.	2.6	121
60	A comparative study between fungal pellet- and spore-assisted microalgae harvesting methods for algae bioflocculation. <i>Bioresource Technology</i> , 2018, 259, 181-190.	4.8	120
61	Catalytic fast co-pyrolysis of bamboo residual and waste lubricating oil over an ex-situ dual catalytic beds of MgO and HZSM-5: Analytical PY-GC/MS study. <i>Energy Conversion and Management</i> , 2017, 139, 222-231.	4.4	118
62	Hydrothermal pretreatment of microalgae for production of pyrolytic bio-oil with a low nitrogen content. <i>Bioresource Technology</i> , 2012, 120, 13-18.	4.8	116
63	Development of biochar-based nanocatalysts for tar cracking/reforming during biomass pyrolysis and gasification. <i>Bioresource Technology</i> , 2020, 298, 122263.	4.8	116
64	Atmospheric Pressure Ammonia Synthesis Using Non-thermal Plasma Assisted Catalysis. <i>Plasma Chemistry and Plasma Processing</i> , 2016, 36, 1201-1210.	1.1	110
65	Effect of light intensity on algal biomass accumulation and biodiesel production for mixotrophic strains <i>Chlorella kessleri</i> and <i>Chlorella protothecoide</i> cultivated in highly concentrated municipal wastewater. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2222-2229.	1.7	109
66	In-situ and ex-situ catalytic upgrading of vapors from microwave-assisted pyrolysis of lignin. <i>Bioresource Technology</i> , 2018, 247, 851-858.	4.8	108
67	An overview of a novel concept in biomass pyrolysis: microwave irradiation. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1664-1699.	2.5	107
68	Life Cycle Environmental Impacts of Wastewater-Based Algal Biofuels. <i>Environmental Science & Technology</i> , 2014, 48, 11696-11704.	4.6	105
69	Enhanced mixotrophic growth of microalga <i>Chlorella</i> sp. on pretreated swine manure for simultaneous biofuel feedstock production and nutrient removal. <i>Bioresource Technology</i> , 2012, 126, 71-79.	4.8	97
70	Fast microwave-assisted catalytic gasification of biomass for syngas production and tar removal. <i>Bioresource Technology</i> , 2014, 156, 291-296.	4.8	97
71	Development and application of a continuous fast microwave pyrolysis system for sewage sludge utilization. <i>Bioresource Technology</i> , 2018, 256, 295-301.	4.8	96
72	Ex-situ catalytic co-pyrolysis of lignin and polypropylene to upgrade bio-oil quality by microwave heating. <i>Bioresource Technology</i> , 2017, 241, 207-213.	4.8	94

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73	Mitigating ammonia nitrogen deficiency in dairy wastewaters for algae cultivation. <i>Bioresource Technology</i> , 2016, 201, 33-40.	4.8	93
74	Production of bio-oil from agricultural waste by using a continuous fast microwave pyrolysis system. <i>Bioresource Technology</i> , 2018, 269, 162-168.	4.8	93
75	Microwave Torrefaction of Douglas Fir Sawdust Pellets. <i>Energy & Fuels</i> , 2012, 26, 5936-5943.	2.5	88
76	Carbon-dependent alleviation of ammonia toxicity for algae cultivation and associated mechanisms exploration. <i>Bioresource Technology</i> , 2018, 249, 99-107.	4.8	88
77	From glucose-based carbohydrates to phenol-rich bio-oils integrated with syngas production via catalytic pyrolysis over an activated carbon catalyst. <i>Green Chemistry</i> , 2018, 20, 3346-3358.	4.6	87
78	Cultivation of <i>Chlorella vulgaris</i> in wastewater with waste glycerol: Strategies for improving nutrients removal and enhancing lipid production. <i>Bioresource Technology</i> , 2016, 207, 252-261.	4.8	86
79	Catalytic fast pyrolysis of torrefied corn cob to aromatic hydrocarbons over Ni-modified hierarchical ZSM-5 catalyst. <i>Bioresource Technology</i> , 2019, 272, 407-414.	4.8	86
80	Physicochemical characterization of hemicelluloses from bamboo (<i>Phyllostachys pubescens</i> Mazel) stem. <i>Industrial Crops and Products</i> , 2012, 37, 41-50.	2.5	85
81	Effects of alkali-treated hierarchical HZSM-5 zeolites on the production of aromatic hydrocarbons from catalytic fast pyrolysis of waste cardboard. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 125, 153-161.	2.6	83
82	Production of bio-oil and biochar from soapstock via microwave-assisted co-catalytic fast pyrolysis. <i>Bioresource Technology</i> , 2017, 225, 1-8.	4.8	83
83	Mass Cultivation of Microalgae on Animal Wastewater: a Sequential Two-Stage Cultivation Process for Energy Crop and Omega-3-Rich Animal Feed Production. <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 348-363.	1.4	82
84	Development of an effective acidogenically digested swine manure-based algal system for improved wastewater treatment and biofuel and feed production. <i>Applied Energy</i> , 2013, 107, 255-263.	5.1	82
85	Ru-based multifunctional mesoporous catalyst for low-pressure and non-thermal plasma synthesis of ammonia. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 19056-19066.	3.8	82
86	Bio-oil production from sequential two-step catalytic fast microwave-assisted biomass pyrolysis. <i>Fuel</i> , 2017, 196, 261-268.	3.4	81
87	Balancing carbon/nitrogen ratio to improve nutrients removal and algal biomass production in piggery and brewery wastewaters. <i>Bioresource Technology</i> , 2018, 249, 479-486.	4.8	81
88	Fast microwave-assisted ex-catalytic co-pyrolysis of bamboo and polypropylene for bio-oil production. <i>Bioresource Technology</i> , 2018, 249, 69-75.	4.8	81
89	Jet fuel and hydrogen produced from waste plastics catalytic pyrolysis with activated carbon and MgO. <i>Science of the Total Environment</i> , 2020, 727, 138411.	3.9	80
90	Applications of calcium oxide-based catalysts in biomass pyrolysis/gasification – A review. <i>Journal of Cleaner Production</i> , 2021, 291, 125826.	4.6	80

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91	Cultivation of <i>Chlorella vulgaris</i> in manure-free piggery wastewater with high-strength ammonium for nutrients removal and biomass production: Effect of ammonium concentration, carbon/nitrogen ratio and pH. <i>Bioresource Technology</i> , 2019, 273, 203-211.	4.8	79
92	Catalytic fast co-pyrolysis of bamboo sawdust and waste tire using a tandem reactor with cascade bubbling fluidized bed and fixed bed system. <i>Energy Conversion and Management</i> , 2019, 180, 60-71.	4.4	79
93	New progress of ammonia recovery during ammonia nitrogen removal from various wastewaters. <i>World Journal of Microbiology and Biotechnology</i> , 2020, 36, 144.	1.7	78
94	Hydrocarbon fuel production from soapstock through fast microwave-assisted pyrolysis using microwave absorbent. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 119, 251-258.	2.6	77
95	Semi-continuous Cultivation of <i>Chlorella vulgaris</i> for Treating Undigested and Digested Dairy Manures. <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 2324-2332.	1.4	76
96	High-temperature dielectric properties and pyrolysis reduction characteristics of different biomass-pyrolusite mixtures in microwave field. <i>Bioresource Technology</i> , 2019, 294, 122217.	4.8	75
97	Influence of Exogenous CO ₂ on Biomass and Lipid Accumulation of Microalgae <i>Auxenochlorella protothecoides</i> Cultivated in Concentrated Municipal Wastewater. <i>Applied Biochemistry and Biotechnology</i> , 2012, 166, 1661-1673.	1.4	74
98	Influence of torrefaction pretreatment on corncobs: A study on fundamental characteristics, thermal behavior, and kinetic. <i>Bioresource Technology</i> , 2020, 297, 122490.	4.8	74
99	Co-pyrolysis of bamboo residual with waste tire over dual catalytic stage of CaO and co-modified HZSM-5. <i>Energy</i> , 2017, 133, 90-98.	4.5	72
100	Edible fungi-assisted harvesting system for efficient microalgae bio-flocculation. <i>Bioresource Technology</i> , 2019, 282, 325-330.	4.8	72
101	Pilot-scale study on enhanced carbothermal reduction of low-grade pyrolusite using microwave heating. <i>Powder Technology</i> , 2020, 360, 846-854.	2.1	72
102	Aromatics production from fast co-pyrolysis of lignin and waste cooking oil catalyzed by HZSM-5 zeolite. <i>Applied Energy</i> , 2020, 263, 114629.	5.1	72
103	Cultivation of <i>Chlorella vulgaris</i> in a pilot-scale photobioreactor using real centrate wastewater with waste glycerol for improving microalgae biomass production and wastewater nutrients removal. <i>Bioresource Technology</i> , 2017, 245, 1130-1138.	4.8	71
104	Microwave-assisted acid pretreatment of alkali lignin: Effect on characteristics and pyrolysis behavior. <i>Bioresource Technology</i> , 2018, 251, 57-62.	4.8	71
105	Microwave pyrolysis of distillers dried grain with solubles (DDGS) for biofuel production. <i>Bioresource Technology</i> , 2011, 102, 6208-6213.	4.8	70
106	Isolation of a bacterial strain, <i>Acinetobacter</i> sp. from centrate wastewater and study of its cooperation with algae in nutrients removal. <i>Bioresource Technology</i> , 2017, 235, 59-69.	4.8	69
107	Microwave dielectric properties and thermochemical characteristics of the mixtures of walnut shell and manganese ore. <i>Bioresource Technology</i> , 2019, 286, 121381.	4.8	69
108	Syngas production from biomass pyrolysis in a continuous microwave assisted pyrolysis system. <i>Bioresource Technology</i> , 2020, 314, 123756.	4.8	69

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109	Biochar: From by-products of agro-industrial lignocellulosic waste to tailored carbon-based catalysts for biomass thermochemical conversions. <i>Chemical Engineering Journal</i> , 2022, 441, 135972.	6.6	69
110	Aromatics and phenols from catalytic pyrolysis of Douglas fir pellets in microwave with ZSM-5 as a catalyst. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 98, 194-200.	2.6	67
111	New Insight into the Mechanism of the Hydrogen Evolution Reaction on MoP(001) from First Principles. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20429-20439.	4.0	67
112	Two-step fast microwave-assisted pyrolysis of biomass for bio-oil production using microwave absorbent and HZSM-5 catalyst. <i>Journal of Environmental Sciences</i> , 2016, 45, 240-247.	3.2	64
113	Improving hydrocarbon yield via catalytic fast co-pyrolysis of biomass and plastic over ceria and HZSM-5: An analytical pyrolyzer analysis. <i>Bioresource Technology</i> , 2018, 268, 1-8.	4.8	64
114	Deoxynivalenol Decontamination in Raw and Germinating Barley Treated by Plasma-Activated Water and Intense Pulsed Light. <i>Food and Bioprocess Technology</i> , 2019, 12, 246-254.	2.6	64
115	ENZYMATIC HYDROLYSIS OF CORN STOVER PRETREATED BY COMBINED DILUTE ALKALINE TREATMENT AND HOMOGENIZATION. <i>Transactions of the American Society of Agricultural Engineers</i> , 2004, 47, 821-825.	0.9	63
116	Successive desilication and dealumination of HZSM-5 in catalytic conversion of waste cooking oil to produce aromatics. <i>Energy Conversion and Management</i> , 2017, 147, 100-107.	4.4	63
117	Microwave pyrolysis of walnut shell for reduction process of low-grade pyrolusite. <i>Bioresource Technology</i> , 2019, 291, 121838.	4.8	62
118	Current Status and Prospects of Biodiesel Production from Microalgae. <i>Energies</i> , 2012, 5, 2667-2682.	1.6	61
119	Biomass temperature profile development and its implications under the microwave-assisted pyrolysis condition. <i>Applied Energy</i> , 2012, 99, 386-392.	5.1	61
120	California Almond Shelf Life: Lipid Deterioration During Storage. <i>Journal of Food Science</i> , 2012, 77, C583-93.	1.5	61
121	Nutrient removal from digested swine wastewater by combining ammonia stripping with struvite precipitation. <i>Environmental Science and Pollution Research</i> , 2019, 26, 6725-6734.	2.7	61
122	Dielectric properties and thermal behavior of electrolytic manganese anode mud in microwave field. <i>Journal of Hazardous Materials</i> , 2020, 384, 121227.	6.5	61
123	Co-culture of <i>Chlorella</i> and wastewater-borne bacteria in vinegar production wastewater: Enhancement of nutrients removal and influence of algal biomass generation. <i>Algal Research</i> , 2020, 45, 101744.	2.4	61
124	Study of SO ₂ Removal Using Non-thermal Plasma Induced by Dielectric Barrier Discharge (DBD). <i>Plasma Chemistry and Plasma Processing</i> , 2002, 22, 239-254.	1.1	60
125	Renewable phenol production from lignin with acid pretreatment and ex-situ catalytic pyrolysis. <i>Journal of Cleaner Production</i> , 2019, 231, 331-340.	4.6	60
126	Auto-flocculation microalgae species <i>Tribonema</i> sp. and <i>Synechocystis</i> sp. with T-IPL pretreatment to improve swine wastewater nutrient removal. <i>Science of the Total Environment</i> , 2020, 725, 138263.	3.9	60

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127	Growing <i>Chlorella vulgaris</i> on thermophilic anaerobic digestion swine manure for nutrient removal and biomass production. <i>Bioresource Technology</i> , 2017, 243, 417-425.	4.8	59
128	Characterization of additional zinc ions on the growth, biochemical composition and photosynthetic performance from <i>Spirulina platensis</i> . <i>Bioresource Technology</i> , 2018, 269, 285-291.	4.8	59
129	Recent advances in improving lignocellulosic biomass-based bio-oil production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 149, 104845.	2.6	59
130	Review on the catalytic pyrolysis of waste oil for the production of renewable hydrocarbon fuels. <i>Fuel</i> , 2021, 283, 119170.	3.4	58
131	Life cycle assessment and nutrient analysis of various processing pathways in algal biofuel production. <i>Bioresource Technology</i> , 2017, 230, 33-42.	4.8	57
132	High Hydrostatic Pressure Pasteurization of Red Wine. <i>Journal of Food Science</i> , 2006, 71, M265-M269.	1.5	56
133	Catalytic fast co-pyrolysis of bamboo sawdust and waste plastics for enhanced aromatic hydrocarbons production using synthesized $CeO_2/\beta-Al_2O_3$ and HZSM-5. <i>Energy Conversion and Management</i> , 2019, 196, 759-767.	4.4	56
134	Microwave-assisted catalytic pyrolysis of torrefied corn cob for phenol-rich bio-oil production over Fe modified bio-char catalyst. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 143, 104691.	2.6	56
135	Catalytic pyrolysis of waste tire to produce valuable aromatic hydrocarbons: An analytical Py-GC/MS study. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 122, 55-63.	2.6	55
136	Microwave-assisted catalytic fast pyrolysis coupled with microwave-absorbent of soapstock for bio-oil in a downdraft reactor. <i>Energy Conversion and Management</i> , 2019, 185, 11-20.	4.4	55
137	Swine manure fermentation for hydrogen production. <i>Bioresource Technology</i> , 2009, 100, 5472-5477.	4.8	54
138	Inactivation of <i>E. coli</i> O157:H7 Using a Pulsed Nonthermal Plasma System. <i>Journal of Food Science</i> , 2002, 67, 646-648.	1.5	53
139	Effect of chlortetracycline on the growth and intracellular components of <i>Spirulina platensis</i> and its biodegradation pathway. <i>Journal of Hazardous Materials</i> , 2021, 413, 125310.	6.5	53
140	Ex-situ catalytic fast pyrolysis of soapstock for aromatic oil over microwave-driven HZSM-5@SiC ceramic foam. <i>Chemical Engineering Journal</i> , 2020, 402, 126239.	6.6	52
141	Silicon carbide foam supported ZSM-5 composite catalyst for microwave-assisted pyrolysis of biomass. <i>Bioresource Technology</i> , 2018, 267, 257-264.	4.8	51
142	Microwave-assisted co-pyrolysis of lignin and waste oil catalyzed by hierarchical ZSM-5/MCM-41 catalyst to produce aromatic hydrocarbons. <i>Bioresource Technology</i> , 2019, 289, 121609.	4.8	51
143	Effects of microwave heating on the protein structure, digestion properties and Maillard products of gluten. <i>Journal of Food Science and Technology</i> , 2020, 57, 2139-2149.	1.4	51
144	<i>In situ</i> plasma-assisted atmospheric nitrogen fixation using water and spray-type jet plasma. <i>Chemical Communications</i> , 2018, 54, 2886-2889.	2.2	50

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