

Shicheng Zhang

List of Publications by Year in descending order

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191
papers

11,876
citations

23567

58
h-index

32842

100
g-index

193
all docs

193
docs citations

193
times ranked

11381
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermal Liquefaction of Macroalgae <i>Enteromorpha prolifera</i> to Bio-oil. <i>Energy & Fuels</i> , 2010, 24, 4054-4061.	5.1	474
2	A review of biochar-based catalysts for chemical synthesis, biofuel production, and pollution control. <i>Bioresource Technology</i> , 2017, 246, 254-270.	9.6	398
3	Photocatalytic Degradation of RhB by Fluorinated Bi ₂ WO ₆ and Distributions of the Intermediate Products. <i>Environmental Science & Technology</i> , 2008, 42, 2085-2091.	10.0	351
4	Preparation of magnetic porous carbon from waste hydrochar by simultaneous activation and magnetization for tetracycline removal. <i>Bioresource Technology</i> , 2014, 154, 209-214.	9.6	341
5	Lignin valorization for the production of renewable chemicals: State-of-the-art review and future prospects. <i>Bioresource Technology</i> , 2018, 269, 465-475.	9.6	298
6	Macroalgae for biofuels production: Progress and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 47, 427-437.	16.4	280
7	Biorenewable hydrogen production through biomass gasification: A review and future prospects. <i>Environmental Research</i> , 2020, 186, 109547.	7.5	280
8	A critical review on biochar for enhancing biogas production from anaerobic digestion of food waste and sludge. <i>Journal of Cleaner Production</i> , 2021, 305, 127143.	9.3	252
9	A novel porous carbon derived from hydrothermal carbon for efficient adsorption of tetracycline. <i>Carbon</i> , 2014, 77, 627-636.	10.3	249
10	Controllable and Repeatable Synthesis of Thermally Stable Anatase Nanocrystal-Silica Composites with Highly Ordered Hexagonal Mesostructures. <i>Journal of the American Chemical Society</i> , 2007, 129, 13894-13904.	18.7	233
11	Hydrothermal liquefaction of agricultural and forestry wastes: state-of-the-art review and future prospects. <i>Bioresource Technology</i> , 2017, 245, 1184-1193.	9.6	209
12	iTRAQ quantitative proteomic analysis reveals the pathways for methanation of propionate facilitated by magnetite. <i>Water Research</i> , 2017, 108, 212-221.	11.3	204
13	Hydrochar-Facilitated Anaerobic Digestion: Evidence for Direct Interspecies Electron Transfer Mediated through Surface Oxygen-Containing Functional Groups. <i>Environmental Science & Technology</i> , 2020, 54, 5755-5766.	10.0	190
14	Advances in lignin valorization towards bio-based chemicals and fuels: Lignin biorefinery. <i>Bioresource Technology</i> , 2019, 291, 121878.	9.6	177
15	Electron Spin Resonance Spin-Trapping Detection of Radical Intermediates in N-Doped TiO ₂ -Assisted Photodegradation of 4-Chlorophenol. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3061-3065.	2.6	160
16	Characterization and utilization of aqueous products from hydrothermal conversion of biomass for bio-oil and hydro-char production: a review. <i>Green Chemistry</i> , 2019, 21, 1553-1572.	9.0	159
17	Hydrothermal conversion of sewage sludge: Focusing on the characterization of liquid products and their methane yields. <i>Chemical Engineering Journal</i> , 2019, 357, 367-375.	12.7	155
18	Visible-light-driven photocatalyst of Bi ₂ WO ₆ nanoparticles prepared via amorphous complex precursor and photocatalytic properties. <i>Journal of Solid State Chemistry</i> , 2006, 179, 62-69.	2.9	154

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19	Synchronous role of coupled adsorption and photocatalytic oxidation on ordered mesoporous anatase TiO ₂ @SiO ₂ nanocomposites generating excellent degradation activity of RhB dye. <i>Applied Catalysis B: Environmental</i> , 2010, 95, 197-207.	20.2	152
20	Microwave-assisted low-temperature hydrothermal treatment of red seaweed (<i>Gracilaria</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (273, 251-258.	9.6	146
21	Facile Fabrication of Magnetic Carbon Composites from Hydrochar via Simultaneous Activation and Magnetization for Triclosan Adsorption. <i>Environmental Science & Technology</i> , 2014, 48, 5840-5848.	10.0	144
22	Production of 5-hydroxymethylfurfural from starch-rich food waste catalyzed by sulfonated biochar. <i>Bioresource Technology</i> , 2018, 252, 76-82.	9.6	132
23	Novel and High-Performance Magnetic Carbon Composite Prepared from Waste Hydrochar for Dye Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 969-977.	6.7	131
24	Controllable synthesis of magnetic carbon composites with high porosity and strong acid resistance from hydrochar for efficient removal of organic pollutants: An overlooked influence. <i>Carbon</i> , 2016, 99, 338-347.	10.3	115
25	Phosphoric acid-activated wood biochar for catalytic conversion of starch-rich food waste into glucose and 5-hydroxymethylfurfural. <i>Bioresource Technology</i> , 2018, 267, 242-248.	9.6	114
26	Hydrothermal conversion of dewatered sewage sludge: Focusing on the transformation mechanism and recovery of phosphorus. <i>Chemosphere</i> , 2019, 228, 619-628.	8.2	113
27	Role of Hydrochar Properties on the Porosity of Hydrochar-based Porous Carbon for Their Sustainable Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 833-840.	6.7	109
28	Sustainable remediation with an electroactive biochar system: mechanisms and perspectives. <i>Green Chemistry</i> , 2020, 22, 2688-2711.	9.0	109
29	Liquefaction of Macroalgae <i>Enteromorpha prolifera</i> in Sub-/Supercritical Alcohols: Direct Production of Ester Compounds. <i>Energy & Fuels</i> , 2012, 26, 2342-2351.	5.1	108
30	Combustion of hazardous biological waste derived from the fermentation of antibiotics using TG&FTIR and Py&GC/MS techniques. <i>Bioresource Technology</i> , 2015, 193, 156-163.	9.6	104
31	Tracking the conversion of nitrogen during pyrolysis of antibiotic mycelial fermentation residues using XPS and TG-FTIR-MS technology. <i>Environmental Pollution</i> , 2016, 211, 20-27.	7.5	103
32	Biogas production from hydrothermal liquefaction wastewater (HTLWW): Focusing on the microbial communities as revealed by high-throughput sequencing of full-length 16S rRNA genes. <i>Water Research</i> , 2016, 106, 98-107.	11.3	99
33	Fabrication and photoelectrochemical properties of porous ZnWO ₄ film. <i>Journal of Solid State Chemistry</i> , 2006, 179, 2562-2570.	2.9	97
34	Tailored design of graphitic biochar for high-efficiency and chemical-free microwave-assisted removal of refractory organic contaminants. <i>Chemical Engineering Journal</i> , 2020, 398, 125505.	12.7	96
35	Formation mechanisms of SrTiO ₃ nanoparticles under hydrothermal conditions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004, 110, 11-17.	3.5	93
36	Sulfonated biochar as acid catalyst for sugar hydrolysis and dehydration. <i>Catalysis Today</i> , 2018, 314, 52-61.	4.4	92

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37	Molecular and microbial insights towards understanding the anaerobic digestion of the wastewater from hydrothermal liquefaction of sewage sludge facilitated by granular activated carbon (GAC). <i>Environment International</i> , 2019, 133, 105257.	10.0	92
38	Mesophilic and thermophilic alkaline fermentation of waste activated sludge for hydrogen production: Focusing on homoacetogenesis. <i>Water Research</i> , 2016, 102, 524-532.	11.3	88
39	Production Temperature Effects on the Structure of Hydrochar-Derived Dissolved Organic Matter and Associated Toxicity. <i>Environmental Science & Technology</i> , 2018, 52, 7486-7495.	10.0	86
40	Hydrothermal carbonization and liquefaction for sustainable production of hydrochar and aromatics. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111722.	16.4	86
41	Fluorination of ZnWO ₄ Photocatalyst and Influence on the Degradation Mechanism for 4-Chlorophenol. <i>Environmental Science & Technology</i> , 2008, 42, 8516-8521.	10.0	83
42	Field air sampling and simultaneous chemical and sensory analysis of livestock odorants with sorbent tubes and GC-MS/olfactometry. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 427-432.	7.8	81
43	Graphite oxide- and graphene oxide-supported catalysts for microwave-assisted glucose isomerisation in water. <i>Green Chemistry</i> , 2019, 21, 4341-4353.	9.0	80
44	Effect of glycerol as co-solvent on yields of bio-oil from rice straw through hydrothermal liquefaction. <i>Bioresource Technology</i> , 2016, 220, 471-478.	9.6	77
45	Genome-Centric Metatranscriptomics Analysis Reveals the Role of Hydrochar in Anaerobic Digestion of Waste Activated Sludge. <i>Environmental Science & Technology</i> , 2021, 55, 8351-8361.	10.0	77
46	Hydrothermal Liquefaction of Lignin to Aromatic Chemicals: Impact of Lignin Structure. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16957-16969.	3.7	76
47	Excellent photocatalytic degradation activities of ordered mesoporous anatase TiO ₂ @SiO ₂ nanocomposites to various organic contaminants. <i>Journal of Hazardous Materials</i> , 2012, 229-230, 307-320.	12.4	75
48	Magnetic activated carbon prepared from rice straw-derived hydrochar for triclosan removal. <i>RSC Advances</i> , 2014, 4, 63620-63626.	3.6	75
49	Visible-light-driven NaTaO ₃ ·xH ₂ O catalyst prepared by a hydrothermal process. <i>Materials Research Bulletin</i> , 2008, 43, 864-872.	5.2	70
50	Water-assisted selective hydrodeoxygenation of phenol to benzene over the Ru composite catalyst in the biphasic process. <i>Green Chemistry</i> , 2019, 21, 1668-1679.	9.0	68
51	Methane potentials of wastewater generated from hydrothermal liquefaction of rice straw: focusing on the wastewater characteristics and microbial community compositions. <i>Biotechnology for Biofuels</i> , 2017, 10, 140.	6.2	67
52	Hydrothermal liquefaction of rice straw with NiO nanocatalyst for bio-oil production. <i>Renewable Energy</i> , 2017, 113, 532-545.	8.9	65
53	Reactor performances and microbial communities of biogas reactors: effects of inoculum sources. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 987-995.	3.6	64
54	Molecular composition of hydrothermal liquefaction wastewater from sewage sludge and its transformation during anaerobic digestion. <i>Journal of Hazardous Materials</i> , 2020, 383, 121163.	12.4	64

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55	Thermochemical liquefaction of agricultural and forestry wastes into biofuels and chemicals from circular economy perspectives. <i>Science of the Total Environment</i> , 2020, 749, 141972.	8.0	63
56	Effective Dispersion of MgO Nanostructure on Biochar Support as a Basic Catalyst for Glucose Isomerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6990-7001.	6.7	63
57	Combined microbial transcript and metabolic analysis reveals the different roles of hydrochar and biochar in promoting anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2021, 205, 117679.	11.3	63
58	Influences of Temperature and Metal on Subcritical Hydrothermal Liquefaction of Hyperaccumulator: Implications for the Recycling of Hazardous Hyperaccumulators. <i>Environmental Science & Technology</i> , 2018, 52, 2225-2234.	10.0	61
59	Advances in thermostable laccase and its current application in lignin-first biorefinery: A review. <i>Bioresource Technology</i> , 2020, 298, 122511.	9.6	61
60	Utilization of cigarette butt waste as functional carbon precursor for supercapacitors and adsorbents. <i>Journal of Cleaner Production</i> , 2020, 256, 120326.	9.3	61
61	Dimethyl Sulfide Photocatalytic Degradation in a Light-Emitting-Diode Continuous Reactor: Kinetic and Mechanistic Study. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 7977-7984.	3.7	60
62	Lignin valorization by bacterial genus <i>Pseudomonas</i> : State-of-the-art review and prospects. <i>Bioresource Technology</i> , 2021, 320, 124412.	9.6	60
63	Mesophilic and thermophilic anaerobic digestion of aqueous phase generated from hydrothermal liquefaction of cornstalk: Molecular and metabolic insights. <i>Water Research</i> , 2020, 168, 115199.	11.3	58
64	Spatially explicit analysis identifies significant potential for bioenergy with carbon capture and storage in China. <i>Nature Communications</i> , 2021, 12, 3159.	12.8	58
65	CFD modeling of a UV-LED photocatalytic odor abatement process in a continuous reactor. <i>Journal of Hazardous Materials</i> , 2012, 215-216, 25-31.	12.4	57
66	Hydrochar promoted anaerobic digestion of hydrothermal liquefaction wastewater: Focusing on the organic degradation and microbial community. <i>Chemical Engineering Journal</i> , 2020, 399, 125766.	12.7	57
67	Biochar-supported nanosized zero-valent iron (nZVI/BC) composites for removal of nitro and chlorinated contaminants. <i>Chemical Engineering Journal</i> , 2022, 431, 133187.	12.7	57
68	Separation of phenolic compounds with modified adsorption resin from aqueous phase products of hydrothermal liquefaction of rice straw. <i>Bioresource Technology</i> , 2015, 182, 160-168.	9.6	56
69	Investigation on the Physical and Chemical Properties of Hydrochar and Its Derived Pyrolysis Char for Their Potential Application: Influence of Hydrothermal Carbonization Conditions. <i>Energy & Fuels</i> , 2015, 29, 5222-5230.	5.1	56
70	Enhancement of adsorption and energy storage capacity of biomass-based N-doped porous carbon via cyclic carbothermal reduction triggered by nitrogen dopants. <i>Carbon</i> , 2019, 155, 403-409.	10.3	56
71	A review of recent advancements in pretreatment techniques of lignocellulosic materials for biogas production: Opportunities and Limitations. <i>Chemical Engineering Journal Advances</i> , 2022, 10, 100263.	5.2	56
72	Valorization of lignocellulosic fibres of paper waste into levulinic acid using solid and aqueous Brønsted acid. <i>Bioresource Technology</i> , 2018, 247, 387-394.	9.6	55

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73	Swine manure valorization for phosphorus and nitrogen recovery by catalytic thermal hydrolysis and struvite crystallization. <i>Science of the Total Environment</i> , 2020, 729, 138999.	8.0	53
74	Microwave-assisted depolymerization of various types of waste lignins over two-dimensional CuO/BCN catalysts. <i>Green Chemistry</i> , 2020, 22, 725-736.	9.0	52
75	Mesoporous bismuth titanate with visible-light photocatalytic activity. <i>Chemical Communications</i> , 2008, , 4977.	4.1	51
76	Selective Extraction of Bio-oil from Hydrothermal Liquefaction of <i>Salix psammophila</i> by Organic Solvents with Different Polarities through Multistep Extraction Separation. <i>BioResources</i> , 2014, 9, .	1.0	51
77	Chemicals from lignocellulosic biomass: A critical comparison between biochemical, microwave and thermochemical conversion methods. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 1479-1532.	12.8	50
78	CO ₂ activation promotes available carbonate and phosphorus of antibiotic mycelial fermentation residue-derived biochar support for increased lead immobilization. <i>Chemical Engineering Journal</i> , 2018, 334, 1101-1107.	12.7	49
79	Impacts of hydraulic retention time on a continuous flow mode dual-chamber microbial fuel cell for recovering nutrients from municipal wastewater. <i>Science of the Total Environment</i> , 2020, 734, 139220.	8.0	49
80	Microbial insights towards understanding the role of hydrochar in alleviating ammonia inhibition during anaerobic digestion. <i>Chemical Engineering Journal</i> , 2021, 419, 129541.	12.7	48
81	Heterogeneous photocatalytic decomposition of benzene on lanthanum-doped TiO ₂ film at ambient temperature. <i>Chemosphere</i> , 2006, 65, 2282-2288.	8.2	45
82	Observations of linear dependence between sulfate and nitrate in atmospheric particles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 341-361.	3.3	45
83	Synthesis and characterization of CaCO ₃ @SiO ₂ core-shell nanoparticles. <i>Powder Technology</i> , 2004, 141, 75-79.	4.2	43
84	Bi ₂ WO ₆ photocatalytic films fabricated by layer-by-layer technique from Bi ₂ WO ₆ nanoplates and its spectral selectivity. <i>Journal of Solid State Chemistry</i> , 2007, 180, 1456-1463.	2.9	43
85	Hydrothermal Liquefaction of Desert Shrub <i>Salix psammophila</i> to High Value-added Chemicals and Hydrochar with Recycled Processing Water. <i>BioResources</i> , 2013, 8, .	1.0	43
86	Optimization of hydraulic retention time and organic loading rate for volatile fatty acid production from low strength wastewater in an anaerobic membrane bioreactor. <i>Bioresource Technology</i> , 2019, 271, 100-108.	9.6	43
87	Molecular and microbial insights towards understanding the effects of hydrochar on methane emission from paddy soil. <i>Science of the Total Environment</i> , 2020, 714, 136769.	8.0	43
88	Demethanation Trend of Hydrochar Induced by Organic Solvent Washing and Its Influence on Hydrochar Activation. <i>Environmental Science & Technology</i> , 2017, 51, 10756-10764.	10.0	42
89	Metagenomic analysis reveals the fate of antibiotic resistance genes in two-stage and one-stage anaerobic digestion of waste activated sludge. <i>Journal of Hazardous Materials</i> , 2021, 406, 124595.	12.4	42
90	Anaerobic fermentation of hydrothermal liquefaction wastewater of dewatered sewage sludge for volatile fatty acids production with focuses on the degradation of organic components and microbial community compositions. <i>Science of the Total Environment</i> , 2021, 777, 146077.	8.0	42

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91	Production and characterization of biodiesel derived from Hodgsonia macrocarpa seed oil. Applied Energy, 2015, 146, 135-140.	10.1	41
92	Anaerobic granular sludge for simultaneous biomethanation of synthetic wastewater and CO with focus on the identification of CO-converting microorganisms. Water Research, 2017, 126, 19-28.	11.3	41
93	Ion exchange separation for recovery of monosaccharides, organic acids and phenolic compounds from hydrolysates of lignocellulosic biomass. Separation and Purification Technology, 2017, 172, 100-106.	7.9	41
94	Optimizing xylose production from pinewood sawdust through dilute-phosphoric-acid hydrolysis by response surface methodology. Journal of Cleaner Production, 2018, 178, 572-579.	9.3	41
95	Characterization and biogas production potentials of aqueous phase produced from hydrothermal carbonization of biomass H_2O Major components and their binary mixtures. Chemical Engineering Journal, 2020, 388, 124201.	12.7	40
96	A novel process for volatile fatty acids production from syngas by integrating with mesophilic alkaline fermentation of waste activated sludge. Water Research, 2018, 139, 372-380.	11.3	39
97	A novel concept for syngas biomethanation by two-stage process: Focusing on the selective conversion of syngas to acetate. Science of the Total Environment, 2018, 645, 1194-1200.	8.0	39
98	Environmental performances of hydrochar-derived magnetic carbon composite affected by its carbonaceous precursor. RSC Advances, 2015, 5, 60713-60722.	3.6	38
99	Effects of biochar on methane emission from paddy soil: Focusing on DOM and microbial communities. Science of the Total Environment, 2020, 743, 140725.	8.0	38
100	Phenol promoted caproate production via two-stage batch anaerobic fermentation of organic substance with ethanol as electron donor for chain elongation. Water Research, 2021, 204, 117601.	11.3	38
101	Bio-oil production from eight selected green landscaping wastes through hydrothermal liquefaction. RSC Advances, 2016, 6, 15260-15270.	3.6	37
102	Carbon transmission of CO_2 activated nano-MgO carbon composites enhances phosphate immobilization. Journal of Materials Chemistry A, 2018, 6, 3705-3713.	10.3	37
103	Two-step synthesis of a novel visible-light-driven $\text{K}_2\text{Ta}_2\text{O}_6 \cdot n\text{H}_2\text{O}$ catalyst for the pollutant decomposition. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 193, 33-41.	3.9	36
104	Inherent Metals of a Phytoremediation Plant Influence Its Recyclability by Hydrothermal Liquefaction. Environmental Science & Technology, 2019, 53, 6580-6586.	10.0	36
105	High-efficiency catalytic hydrodeoxygenation of lignin-derived vanillin with nickel-supported metal phosphate catalysts. Chemical Engineering Journal, 2022, 448, 137723.	12.7	36
106	Catalytic hydrothermal liquefaction of rice straw in water/ethanol mixtures for high yields of monomeric phenols using reductive CuZnAl catalyst. Fuel Processing Technology, 2016, 154, 1-6.	7.2	35
107	Efficient succinic acid production using a biochar-treated textile waste hydrolysate in an in situ fibrous bed bioreactor. Biochemical Engineering Journal, 2019, 149, 107249.	3.6	34
108	Two-stage nanofiltration process for high-value chemical production from hydrolysates of lignocellulosic biomass through hydrothermal liquefaction. Separation and Purification Technology, 2015, 147, 276-283.	7.9	33

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109	Synthesis, characterization and adsorption capacity of magnetic carbon composites activated by CO ₂ : implication for the catalytic mechanisms of iron salts. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18942-18951.	10.3	33
110	Co-liquefaction of mixed biomass feedstocks for bio-oil production: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111814.	16.4	33
111	Lactic acid production from rice straw in alkaline hydrothermal conditions in presence of NiO nanoplates. <i>Catalysis Today</i> , 2016, 274, 40-48.	4.4	32
112	Trends in heterogeneous aqueous reaction in continuous haze episodes in suburban Shanghai: An in-depth case study. <i>Science of the Total Environment</i> , 2018, 634, 1192-1204.	8.0	32
113	Volatile fatty acids production from waste streams by anaerobic digestion: A critical review of the roles and application of enzymes. <i>Bioresource Technology</i> , 2022, 359, 127420.	9.6	32
114	Co-pyrolysis of paper mill sludge and spend coffee ground using CO ₂ as reaction medium. <i>Journal of CO₂ Utilization</i> , 2017, 21, 572-579.	6.8	31
115	A novel process for obtaining high quality cellulose acetate from green landscaping waste. <i>Journal of Cleaner Production</i> , 2018, 176, 338-347.	9.3	31
116	Hydrochar from corn stalk used as bio-asphalt modifier: High-temperature performance improvement. <i>Environmental Research</i> , 2021, 193, 110157.	7.5	31
117	A review on application of enzymatic bioprocesses in animal wastewater and manure treatment. <i>Bioresource Technology</i> , 2020, 313, 123683.	9.6	30
118	Impact factors and novel strategies for improving biohydrogen production in microbial electrolysis cells. <i>Bioresource Technology</i> , 2022, 346, 126588.	9.6	29
119	Chromatographic separation of glucose, xylose and arabinose from lignocellulosic hydrolysates using cation exchange resin. <i>Separation and Purification Technology</i> , 2018, 195, 288-294.	7.9	28
120	Migration and transformation mechanism of phosphorus in waste activated sludge during anaerobic fermentation and hydrothermal conversion. <i>Journal of Hazardous Materials</i> , 2021, 403, 123649.	12.4	28
121	Conversion of phosphorus and nitrogen in lincomycin residue during microwave-assisted hydrothermal liquefaction and its application for Pb ²⁺ removal. <i>Science of the Total Environment</i> , 2019, 687, 1381-1388.	8.0	27
122	Hydrothermal Carbonization for Hydrochar Production and Its Application. , 2019, , 275-294.		27
123	Phosphorus and nitrogen transformation in antibiotic mycelial residue derived hydrochar and activated pyrolyzed samples: Effect on Pb (II) immobilization. <i>Journal of Hazardous Materials</i> , 2020, 393, 122446.	12.4	27
124	An Insight into Valorization of Lignocellulosic Biomass by Optimization with the Combination of Hydrothermal (HT) and Biological Techniques: A Review. <i>Sustainable Chemistry</i> , 2022, 3, 35-55.	4.7	27
125	Selective conversion of carbon monoxide to hydrogen by anaerobic mixed culture. <i>Bioresource Technology</i> , 2016, 202, 1-7.	9.6	26
126	Highly selective conversion of phenol to cyclohexanol over Ru/Nb ₂ O ₅ -C18PA catalysts with increased acidity in a biphasic system under mild conditions. <i>Green Chemistry</i> , 2022, 24, 1152-1164.	9.0	26

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127	Fate of polylactic acid microplastics during anaerobic digestion of kitchen waste: Insights on property changes, released dissolved organic matters, and biofilm formation. <i>Science of the Total Environment</i> , 2022, 834, 155108.	8.0	25
128	Monophenols separation from monosaccharides and acids by two-stage nanofiltration and reverse osmosis in hydrothermal liquefaction hydrolysates. <i>Journal of Membrane Science</i> , 2016, 504, 141-152.	8.2	24
129	Reveal a hidden highly toxic substance in biochar to support its effective elimination strategy. <i>Journal of Hazardous Materials</i> , 2020, 399, 123055.	12.4	24
130	CO as electron donor for efficient medium chain carboxylate production by chain elongation: Microbial and thermodynamic insights. <i>Chemical Engineering Journal</i> , 2020, 390, 124577.	12.7	24
131	Conversion of xylose into furfural over MC-SnO _x and NaCl catalysts in a biphasic system. <i>Journal of Cleaner Production</i> , 2021, 311, 127780.	9.3	24
132	Nonthermal air plasma dehydration of hydrochar improves its carbon sequestration potential and dissolved organic matter molecular characteristics. <i>Science of the Total Environment</i> , 2019, 659, 655-663.	8.0	23
133	VOC Removal from Manure Gaseous Emissions with UV Photolysis and UV-TiO ₂ Photocatalysis. <i>Catalysts</i> , 2020, 10, 607.	3.5	23
134	Formation and performances of porous InVO ₄ films. <i>Journal of Solid State Chemistry</i> , 2006, 179, 873-882.	2.9	22
135	Influence of process parameters on hydrothermal modification of soybean residue: Insight into the nutrient, solid biofuel, and thermal properties of hydrochars. <i>Journal of Environmental Management</i> , 2021, 283, 111981.	7.8	21
136	Photoluminescence properties of mercaptocarboxylic acid-stabilized CdSe nanoparticles covered with polyelectrolyte. <i>Nanotechnology</i> , 2004, 15, 1108-1112.	2.6	20
137	Sustainable enzymatic technologies in waste animal fat and protein management. <i>Journal of Environmental Management</i> , 2021, 284, 112040.	7.8	20
138	Microbial insights of enhanced anaerobic conversion of syngas into volatile fatty acids by co-fermentation with carbohydrate-rich synthetic wastewater. <i>Biotechnology for Biofuels</i> , 2020, 13, 53.	6.2	19
139	Optimized synthesis of granular fuel and granular activated carbon from sawdust hydrochar without binder. <i>Journal of Cleaner Production</i> , 2020, 276, 122711.	9.3	19
140	Distribution of free radicals and intermediates during the photodegradation of polychlorinated biphenyls strongly affected by cosolvents and TiO ₂ catalyst. <i>Chemosphere</i> , 2016, 144, 628-634.	8.2	18
141	Hydrothermal pretreatment of sewage sludge enhanced the anaerobic degradation of cationic polyacrylamide (cPAM). <i>Water Research</i> , 2021, 190, 116704.	11.3	18
142	Photoinduced Formation of Fe(III) Sulfate Complexes on the Surface of Fe ₂ O ₃ and Their Photochemical Performance. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11316-11322.	3.1	17
143	Thermophilic Alkaline Fermentation Followed by Mesophilic Anaerobic Digestion for Efficient Hydrogen and Methane Production from Waste-Activated Sludge: Dynamics of Bacterial Pathogens as Revealed by the Combination of Metagenomic and Quantitative PCR Analyses. <i>Applied and Environmental Microbiology</i> , 2018, 84.	3.1	17
144	Impact of adsorbed nitrate on the heterogeneous conversion of SO ₂ on Fe ₂ O ₃ in the absence and presence of simulated solar irradiation. <i>Science of the Total Environment</i> , 2019, 649, 1393-1402.	8.0	17

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145	Microwave-assisted hydrothermal treatment of soybean residue and chitosan: Characterization of hydrochars and role of N and P transformation for Pb(II) removal. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 160, 105330.	5.5	17
146	Modification of hydrochar increased the capacity to promote anaerobic digestion. <i>Bioresource Technology</i> , 2021, 341, 125856.	9.6	17
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