

Shicheng Zhang

List of Publications by Year in descending order

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191
papers

11,876
citations

23567

58
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32842

100
g-index

193
all docs

193
docs citations

193
times ranked

11381
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Three birds with one stone approach to superior N/S co-doped microporous carbon for gas storage and water purification. <i>Chemical Engineering Journal</i> , 2022, 431, 133231. | 12.7 | 4 |
| 2 | 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 |
| 3 | Screening and Optimization of Microalgae Biomass and Plastic Material Coprocessing by Hydrothermal Liquefaction. <i>ACS ES&T Engineering</i> , 2022, 2, 65-77. | 7.6 | 8 |
| 4 | 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 |
| 5 | Improving reverse osmosis concentrate treatment and nutrients conversion to <i>Chlorella vulgaris</i> bioenergy assisted with granular activated carbon. <i>Science of the Total Environment</i> , 2022, 815, 152663. | 8.0 | 4 |
| 6 | Speciation evolution and transformation mechanism of P during microwave hydrothermal process of sewage sludge. <i>Science of the Total Environment</i> , 2022, 815, 152801. | 8.0 | 9 |
| 7 | Biosafety of human environments can be supported by effective use of renewable biomass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 7.1 | 5 |
| 8 | 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 |
| 9 | The Effect of Dichloromethane on Product Separation during Continuous Hydrothermal Liquefaction of <i>Chlorella vulgaris</i> and Aqueous Product Recycling for Algae Cultivation. <i>Energy & Fuels</i> , 2022, 36, 922-931. | 5.1 | 10 |
| 10 | Highly selective conversion of phenol to cyclohexanol over Ru/Nb ₂ O ₅ -n-C18PA catalysts with increased acidity in a biphasic system under mild conditions. <i>Green Chemistry</i> , 2022, 24, 1152-1164. | 9.0 | 26 |
| 11 | Impact factors and novel strategies for improving biohydrogen production in microbial electrolysis cells. <i>Bioresource Technology</i> , 2022, 346, 126588. | 9.6 | 29 |
| 12 | 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 |
| 13 | Hydrochar as an environment-friendly additive to improve the performance of biodegradable plastics. <i>Science of the Total Environment</i> , 2022, 832, 155124. | 8.0 | 9 |
| 14 | 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 |
| 15 | Copyrolysis of Recycled Plastics and Biomass Reduces Biochar Bioavailable Silicon Production and Cadmium Phytotoxicity. <i>ACS ES&T Engineering</i> , 2022, 2, 1356-1364. | 7.6 | 3 |
| 16 | Hydrochar and activated carbon materials from P- and N-rich biomass waste for environmental remediation and bioenergy application. , 2022, , 51-69. | | 0 |
| 17 | Catalytic valorisation of various paper wastes into levulinic acid, hydroxymethylfurfural, and furfural: Influence of feedstock properties and ferric chloride. <i>Bioresource Technology</i> , 2022, 357, 127376. | 9.6 | 11 |
| 18 | Thermal stabilization effect and oxygen replacement reaction together regulate N/S co-doped microporous carbon synthesis. , 2022, 1, . | | 11 |

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|----|--|------|-----------|
| 19 | The changes of microplastics's behavior in adsorption and anaerobic digestion of waste activated sludge induced by hydrothermal pretreatment. <i>Water Research</i> , 2022, 221, 118744. | 11.3 | 17 |
| 20 | 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 |
| 21 | High-efficiency catalytic hydrodeoxygenation of lignin-derived vanillin with nickel-supported metal phosphate catalysts. <i>Chemical Engineering Journal</i> , 2022, 448, 137723. | 12.7 | 36 |
| 22 | One-Step Synthesis of High-Performance N/S Co-Doped Porous Carbon Material for Environmental Remediation. <i>Processes</i> , 2022, 10, 1359. | 2.8 | 1 |
| 23 | A critical review of recent advances in the bio-remediation of chlorinated substances by microbial dechlorinators. <i>Chemical Engineering Journal Advances</i> , 2022, 12, 100359. | 5.2 | 17 |
| 24 | 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 |
| 25 | Urgently reveal longly hidden toxicant in a familiar fabrication process of biomass-derived environment carbon material. <i>Journal of Environmental Sciences</i> , 2021, 100, 250-256. | 6.1 | 6 |
| 26 | 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 |
| 27 | Hydrochar from corn stalk used as bio-asphalt modifier: High-temperature performance improvement. <i>Environmental Research</i> , 2021, 193, 110157. | 7.5 | 31 |
| 28 | Organoarsenic conversion to As(III) in subcritical hydrothermal reaction of livestock manure. <i>Journal of Hazardous Materials</i> , 2021, 402, 123571. | 12.4 | 15 |
| 29 | Heating temperature dependence of molecular characteristics and biological response for biomass pyrolysis volatile-derived water-dissolved organic matter. <i>Science of the Total Environment</i> , 2021, 757, 143749. | 8.0 | 8 |
| 30 | Extraneous Fe Increased the Carbon Retention of Sludge-Based Biochar. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021, 106, 198-204. | 2.7 | 2 |
| 31 | 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 |
| 32 | Hydrothermal pretreatment of sewage sludge enhanced the anaerobic degradation of cationic polyacrylamide (cPAM). <i>Water Research</i> , 2021, 190, 116704. | 11.3 | 18 |
| 33 | Molecular characterization and environmental impacts of water-soluble organic compounds of bio-oil from the thermochemical treatment of domestic sewage sludge. <i>Science of the Total Environment</i> , 2021, 756, 144050. | 8.0 | 8 |
| 34 | Waste Plastics Complement Biochar: Innovative Approach in Curbing Toxicants (KCN/NaCN) in N-Containing Biochar. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4617-4624. | 6.7 | 8 |
| 35 | 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 |
| 36 | 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 |

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|----|--|------|-----------|
| 37 | Sustainable enzymatic technologies in waste animal fat and protein management. <i>Journal of Environmental Management</i> , 2021, 284, 112040. | 7.8 | 20 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | Magnetic biochar production alters the molecular characteristics and biological response of pyrolysis volatile-derived water-soluble organic matter. <i>Science of the Total Environment</i> , 2021, 778, 146142. | 8.0 | 4 |
| 42 | 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 |
| 43 | Conversion of xylose into furfural over MC-SnOx and NaCl catalysts in a biphasic system. <i>Journal of Cleaner Production</i> , 2021, 311, 127780. | 9.3 | 24 |
| 44 | CO ₂ dual roles in food scraps-derived biochar activation to enhance lead adsorption capacity. <i>Science of the Total Environment</i> , 2021, 784, 147218. | 8.0 | 7 |
| 45 | Biomass Cellulose Component and Fe Mineral Catalysis Help Cr(VI) to Realize Almost 100% Pyrolysis Reduction Efficiency. <i>ACS ES&T Engineering</i> , 2021, 1, 1441-1448. | 7.6 | 5 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | Phenol promoted caproate production via two-stage batch anaerobic fermentation of organic substance with ethanol as electron donor for chain elongation. <i>Water Research</i> , 2021, 204, 117601. | 11.3 | 38 |
| 50 | Modification of hydrochar increased the capacity to promote anaerobic digestion. <i>Bioresource Technology</i> , 2021, 341, 125856. | 9.6 | 17 |
| 51 | Hydrothermal carbonization and liquefaction for sustainable production of hydrochar and aromatics. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111722. | 16.4 | 86 |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |

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|----|--|------|-----------|
| 55 | Selective Production of Ethyl Lactate from Rice Straw in the Presence of Lewis and Brønsted Acids. Waste and Biomass Valorization, 2020, 11, 6515-6528. | 3.4 | 4 |
| 56 | Advances in thermostable laccase and its current application in lignin-first biorefinery: A review. Bioresource Technology, 2020, 298, 122511. | 9.6 | 61 |
| 57 | Thermochemical liquefaction of agricultural and forestry wastes into biofuels and chemicals from circular economy perspectives. Science of the Total Environment, 2020, 749, 141972. | 8.0 | 63 |
| 58 | Mine drainage: Remediation technology and resource recovery. Water Environment Research, 2020, 92, 1533-1540. | 2.7 | 7 |
| 59 | Characterization and Potential Applications of Hydrochars Derived from P- and N-Enriched Agricultural and Antibiotic Residues via Microwave-Assisted Hydrothermal Conversion. Energy & Fuels, 2020, 34, 11154-11164. | 5.1 | 15 |
| 60 | Petrochemical wastewater and produced water: Treatment technology and resource recovery. Water Environment Research, 2020, 92, 1695-1700. | 2.7 | 9 |
| 61 | Hydrothermal Liquefaction of Lignin to Aromatic Chemicals: Impact of Lignin Structure. Industrial & Engineering Chemistry Research, 2020, 59, 16957-16969. | 3.7 | 76 |
| 62 | Reveal a hidden highly toxic substance in biochar to support its effective elimination strategy. Journal of Hazardous Materials, 2020, 399, 123055. | 12.4 | 24 |
| 63 | Tailored design of graphitic biochar for high-efficiency and chemical-free microwave-assisted removal of refractory organic contaminants. Chemical Engineering Journal, 2020, 398, 125505. | 12.7 | 96 |
| 64 | Study of glucose isomerisation to fructose over three heterogeneous carbon-based aluminium-impregnated catalysts. Journal of Cleaner Production, 2020, 268, 122378. | 9.3 | 14 |
| 65 | Eliminating carbon dioxide emissions at the source by the integration of carbon dioxide capture and utilization over noble metals in the liquid phase. Journal of Catalysis, 2020, 389, 247-258. | 6.2 | 13 |
| 66 | VOC Removal from Manure Gaseous Emissions with UV Photolysis and UV-TiO ₂ Photocatalysis. Catalysts, 2020, 10, 607. | 3.5 | 23 |
| 67 | Hydrochar promoted anaerobic digestion of hydrothermal liquefaction wastewater: Focusing on the organic degradation and microbial community. Chemical Engineering Journal, 2020, 399, 125766. | 12.7 | 57 |
| 68 | A review on application of enzymatic bioprocesses in animal wastewater and manure treatment. Bioresource Technology, 2020, 313, 123683. | 9.6 | 30 |
| 69 | Microbial insights of enhanced anaerobic conversion of syngas into volatile fatty acids by co-fermentation with carbohydrate-rich synthetic wastewater. Biotechnology for Biofuels, 2020, 13, 53. | 6.2 | 19 |
| 70 | Effective Dispersion of MgO Nanostructure on Biochar Support as a Basic Catalyst for Glucose Isomerization. ACS Sustainable Chemistry and Engineering, 2020, 8, 6990-7001. | 6.7 | 63 |
| 71 | Phosphorus and nitrogen transformation in antibiotic mycelial residue derived hydrochar and activated pyrolyzed samples: Effect on Pb (II) immobilization. Journal of Hazardous Materials, 2020, 393, 122446. | 12.4 | 27 |
| 72 | Optimized synthesis of granular fuel and granular activated carbon from sawdust hydrochar without binder. Journal of Cleaner Production, 2020, 276, 122711. | 9.3 | 19 |

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|----|--|------|-----------|
| 73 | Effects of biochar on methane emission from paddy soil: Focusing on DOM and microbial communities. <i>Science of the Total Environment</i> , 2020, 743, 140725. | 8.0 | 38 |
| 74 | 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 |
| 75 | 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 |
| 76 | Characterization and biogas production potentials of aqueous phase produced from hydrothermal carbonization of biomass " Major components and their binary mixtures. <i>Chemical Engineering Journal</i> , 2020, 388, 124201. | 12.7 | 40 |
| 77 | 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 |
| 78 | N-rich hydrochar derived from organic solvent as reaction medium generates toxic N-containing mineral in its pyrochar. <i>Science of the Total Environment</i> , 2020, 729, 138970. | 8.0 | 7 |
| 79 | 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 |
| 80 | Sustainable remediation with an electroactive biochar system: mechanisms and perspectives. <i>Green Chemistry</i> , 2020, 22, 2688-2711. | 9.0 | 109 |
| 81 | 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 |
| 82 | Biorenewable hydrogen production through biomass gasification: A review and future prospects. <i>Environmental Research</i> , 2020, 186, 109547. | 7.5 | 280 |
| 83 | 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 |
| 84 | 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 |
| 85 | Advances in lignin valorization towards bio-based chemicals and fuels: Lignin biorefinery. <i>Bioresource Technology</i> , 2019, 291, 121878. | 9.6 | 177 |
| 86 | 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 |
| 87 | 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 |
| 88 | Efficient succinic acid production using a biochar-treated textile waste hydrolysate in an in situ fibrous bed bioreactor. <i>Biochemical Engineering Journal</i> , 2019, 149, 107249. | 3.6 | 34 |
| 89 | 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 |
| 90 | Inherent Metals of a Phytoremediation Plant Influence Its Recyclability by Hydrothermal Liquefaction. <i>Environmental Science & Technology</i> , 2019, 53, 6580-6586. | 10.0 | 36 |

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|-----|---|------|-----------|
| 91 | 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 |
| 92 | 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 |
| 93 | 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 |
| 94 | Microwave-assisted low-temperature hydrothermal treatment of red seaweed (<i>Gracilaria</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (273, 251-258. | 9.6 | 146 |
| 95 | Hydrothermal Carbonization for Hydrochar Production and Its Application. , 2019, , 275-294. | | 27 |
| 96 | 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 |
| 97 | Decarbonylation reaction of saturated and oxidized tar from pyrolysis of low aromaticity biomass boost reduction of hexavalent chromium. <i>Chemical Engineering Journal</i> , 2019, 360, 1042-1050. | 12.7 | 14 |
| 98 | 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 |
| 99 | 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 |
| 100 | Impact of adsorbed nitrate on the heterogeneous conversion of SO ₂ on γ -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 |
| 101 | Desorption trials and granular stability of chromium loaded aerobic granular sludge from synthetic domestic wastewater treatment. <i>Bioresource Technology Reports</i> , 2018, 1, 9-15. | 2.7 | 13 |
| 102 | Sulfonated biochar as acid catalyst for sugar hydrolysis and dehydration. <i>Catalysis Today</i> , 2018, 314, 52-61. | 4.4 | 92 |
| 103 | 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 |
| 104 | A novel process for volatile fatty acids production from syngas by integrating with mesophilic alkaline fermentation of waste activated sludge. <i>Water Research</i> , 2018, 139, 372-380. | 11.3 | 39 |
| 105 | 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 |
| 106 | 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 |
| 107 | Carbon transmission of CO ₂ activated nano-MgO carbon composites enhances phosphate immobilization. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3705-3713. | 10.3 | 37 |
| 108 | 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 |

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|-----|---|------|-----------|
| 109 | 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 |
| 110 | Optimizing xylose production from pinewood sawdust through dilute-phosphoric-acid hydrolysis by response surface methodology. <i>Journal of Cleaner Production</i> , 2018, 178, 572-579. | 9.3 | 41 |
| 111 | Production of 5-hydroxymethylfurfural from starch-rich food waste catalyzed by sulfonated biochar. <i>Bioresource Technology</i> , 2018, 252, 76-82. | 9.6 | 132 |
| 112 | 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 |
| 113 | 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 |
| 114 | Characterization and Treatment of Mine Drainage. <i>Water Environment Research</i> , 2018, 90, 1899-1922. | 2.7 | 2 |
| 115 | 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 |
| 116 | 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 |
| 117 | A novel concept for syngas biomethanation by two-stage process: Focusing on the selective conversion of syngas to acetate. <i>Science of the Total Environment</i> , 2018, 645, 1194-1200. | 8.0 | 39 |
| 118 | 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 |
| 119 | Impact of heterogeneous uptake of nitrogen dioxide on the conversion of acetaldehyde on gamma-alumina in the absence and presence of simulated solar irradiation. <i>Atmospheric Environment</i> , 2018, 187, 282-291. | 4.1 | 9 |
| 120 | Hydrothermal liquefaction of rice straw with NiO nanocatalyst for bio-oil production. <i>Renewable Energy</i> , 2017, 113, 532-545. | 8.9 | 65 |
| 121 | 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 |
| 122 | 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 |
| 123 | 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 |
| 124 | Anaerobic granular sludge for simultaneous biomethanation of synthetic wastewater and CO with focus on the identification of CO-converting microorganisms. <i>Water Research</i> , 2017, 126, 19-28. | 11.3 | 41 |
| 125 | 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 |
| 126 | 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 |

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|-----|--|------|-----------|
| 127 | Ion exchange separation for recovery of monosaccharides, organic acids and phenolic compounds from hydrolysates of lignocellulosic biomass. <i>Separation and Purification Technology</i> , 2017, 172, 100-106. | 7.9 | 41 |
| 128 | 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 |
| 129 | Mine Drainage: Research and Development. <i>Water Environment Research</i> , 2017, 89, 1384-1402. | 2.7 | 2 |
| 130 | Mine Drainage Generation and Control Options. <i>Water Environment Research</i> , 2016, 88, 1409-1432. | 2.7 | 10 |
| 131 | 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 |
| 132 | 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 |
| 133 | Separation of high-purity syringol and acetosyringone from rice straw-derived bio-oil by combining the basification-acidification process and column chromatography. <i>Electrophoresis</i> , 2016, 37, 2522-2530. | 2.4 | 16 |
| 134 | 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 |
| 135 | Catalytic hydrothermal liquefaction of rice straw in water/ethanol mixtures for high yields of monomeric phenols using reductive CuZnAl catalyst. <i>Fuel Processing Technology</i> , 2016, 154, 1-6. | 7.2 | 35 |
| 136 | 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 |
| 137 | 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 |
| 138 | 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 |
| 139 | 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 |
| 140 | Selective conversion of carbon monoxide to hydrogen by anaerobic mixed culture. <i>Bioresource Technology</i> , 2016, 202, 1-7. | 9.6 | 26 |
| 141 | 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 |
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