

# Huajun Huang

## List of Publications by Year in descending order

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81  
papers

7,005  
citations

66234

42  
h-index

60497

81  
g-index

82  
all docs

82  
docs citations

82  
times ranked

6165  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Efficient conversion of sewage sludge into hydrochar by microwave-assisted hydrothermal carbonization. <i>Science of the Total Environment</i> , 2022, 803, 149874.  | 3.9 | 23        |
| 2  | Pivotal role of water molecules in the photodegradation of pymetrozine: New insights for developing green pesticides. <i>Journal of Hazardous Materials</i> , 2022, 423, 127197.                                   | 6.5 | 7         |
| 3  | Co-liquefaction of <i>Chlorella</i> and soybean straw for production of bio-crude: Effects of reusing aqueous phase as the reaction medium. <i>Science of the Total Environment</i> , 2022, 820, 153348.           | 3.9 | 25        |
| 4  | Dysregulated expression of mRNA and SNP in pulmonary artery remodeling in ascites syndrome in broilers. <i>Poultry Science</i> , 2021, 100, 100877.  | 1.5 | 7         |
| 5  | A comparison study of applying natural iron minerals and zero-valent metals as Fenton-like catalysts for the removal of imidacloprid. <i>Environmental Science and Pollution Research</i> , 2021, 28, 42217-42229. | 2.7 | 13        |
| 6  | Valorization of the aqueous phase produced from wet and dry thermochemical processing biomass: A review. <i>Journal of Cleaner Production</i> , 2021, 294, 126238.   | 4.6 | 48        |
| 7  | An overview on engineering the surface area and porosity of biochar. <i>Science of the Total Environment</i> , 2021, 763, 144204.  | 3.9 | 434       |
| 8  | Transformation characteristics of polycyclic aromatic hydrocarbons during hydrothermal liquefaction of sewage sludge. <i>Journal of Supercritical Fluids</i> , 2021, 170, 105158.                                  | 1.6 | 14        |
| 9  | The impact of the particle size of meat and bone meal (MBM) incineration ash on phosphate precipitation and phosphorus recovery. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105247.           | 3.3 | 9         |
| 10 | Co-culture of fungi-microalgae consortium for wastewater treatment: A review. <i>Bioresource Technology</i> , 2021, 330, 125008.   | 4.8 | 81        |
| 11 | Speciation of Main Nutrients (N/P/K) in Hydrochars Produced from the Hydrothermal Carbonization of Swine Manure under Different Reaction Temperatures. <i>Materials</i> , 2021, 14, 4114.                          | 1.3 | 15        |
| 12 | Nitrogen containing functional groups of biochar: An overview. <i>Bioresource Technology</i> , 2020, 298, 122286.  | 4.8 | 249       |
| 13 | Bioenergy recovery from wastewater produced by hydrothermal processing biomass: Progress, challenges, and opportunities. <i>Science of the Total Environment</i> , 2020, 748, 142383.                              | 3.9 | 63        |
| 14 | A review on pyrolysis of protein-rich biomass: Nitrogen transformation. <i>Bioresource Technology</i> , 2020, 315, 123801.   | 4.8 | 131       |
| 15 | Effects of rice straw/wood sawdust addition on the transport/conversion behaviors of heavy metals during the liquefaction of sewage sludge. <i>Journal of Environmental Management</i> , 2020, 270, 110824.        | 3.8 | 14        |
| 16 | Nitrogen in bio-oil produced from hydrothermal liquefaction of biomass: A review. <i>Chemical Engineering Journal</i> , 2020, 401, 126030.   | 6.6 | 165       |
| 17 | Microwave-assisted hydrothermal carbonization of pig feces for the production of hydrochar. <i>Journal of Supercritical Fluids</i> , 2020, 162, 104858.  | 1.6 | 21        |
| 18 | Advances in Hydrothermal Carbonization of Livestock Manure. <i>Nanotechnology in the Life Sciences</i> , 2020, , 183-205.  | 0.4 | 1         |

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|----|---|-----|-----------|
| 19 | Pyrolysis of different sewage sludge feedstocks for biochar products: Characterization and application. <i>Journal of Central South University</i> , 2020, 27, 3302-3319.   | 1.2 | 14        |
| 20 | Biochar stability assessment methods: A review. <i>Science of the Total Environment</i> , 2019, 647, 210-222.   | 3.9 | 352       |
| 21 | Distribution and transformation behaviors of heavy metals during liquefaction process of sewage sludge in ethanol-water mixed solvents. <i>Journal of Central South University</i> , 2019, 26, 2771-2784.                           | 1.2 | 6         |
| 22 | Study on the hydrothermal carbonization of swine manure: The effect of process parameters on the yield/properties of hydrochar and process water. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 144, 104692.           | 2.6 | 63        |
| 23 | Adsorption isotherms, degradation kinetics, and leaching behaviors of cyanogen and hydrogen cyanide in eight texturally different agricultural soils from China. <i>Ecotoxicology and Environmental Safety</i> , 2019, 185, 109704. | 2.9 | 16        |
| 24 | Meat & bone meal (MBM) incineration ash for phosphate removal from wastewater and afterward phosphorus recovery. <i>Journal of Cleaner Production</i> , 2019, 238, 117960.  | 4.6 | 19        |
| 25 | Residue analysis of tetraniliprole in rice and related environmental samples by HPLC/MS. <i>Microchemical Journal</i> , 2019, 150, 104168.  | 2.3 | 19        |
| 26 | Controllable synthesis of monodisperse nonspherical colloidal particles with cavity structures. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1645-1652.   | 2.5 | 4         |
| 27 | Co-liquefaction of sewage sludge and rice straw/wood sawdust: The effect of process parameters on the yields/properties of bio-oil and biochar products. <i>Energy</i> , 2019, 173, 140-150.  | 4.5 | 53        |
| 28 | Biochar stability assessment by incubation and modelling: Methods, drawbacks and recommendations. <i>Science of the Total Environment</i> , 2019, 664, 11-23.   | 3.9 | 69        |
| 29 | Evaluation of the disappearance of cyanogen and hydrogen cyanide in different soil types using gas chromatography-mass spectrometry. <i>Microchemical Journal</i> , 2019, 151, 104253.  | 2.3 | 4         |
| 30 | Surfactant assisted upgrading fuel properties of waste cooking oil biodiesel. <i>Journal of Cleaner Production</i> , 2019, 210, 1376-1384.  | 4.6 | 24        |
| 31 | Applications of bio-oil-based emulsions in a DI diesel engine: The effects of bio-oil compositions on engine performance and emissions. <i>Energy</i> , 2018, 154, 110-118.   | 4.5 | 51        |
| 32 | Liquefaction of sewage sludge in ethanol-water mixed solvents for bio-oil and biochar products. <i>Energy</i> , 2018, 148, 629-641.   | 4.5 | 67        |
| 33 | Highly efficient conversion of camphor tree sawdust into bio-oil and biochar products by liquefaction in ethanol-water cosolvent. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 136, 186-198.                          | 2.6 | 34        |
| 34 | An overview of the effect of pyrolysis process parameters on biochar stability. <i>Bioresource Technology</i> , 2018, 270, 627-642.   | 4.8 | 275       |
| 35 | Discovery of Specific Nonpeptide Probe for Chymotrypsin via Molecular Docking-Based Virtual Screening and the Application. <i>ACS Applied Bio Materials</i> , 2018, 1, 310-317.   | 2.3 | 18        |
| 36 | Bio-oil upgrading by emulsification/microemulsification: A review. <i>Energy</i> , 2018, 161, 214-232.  | 4.5 | 129       |

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|----|---|------|-----------|
| 37 | Upgrading Sewage Sludge Liquefaction Bio-Oil by Microemulsification: The Effect of Ethanol as Polar Phase on Solubilization Performance and Fuel Properties. <i>Energy &amp; Fuels</i> , 2017, 31, 1574-1582.                             | 2.5  | 29        |
| 38 | Co-pyrolysis of sewage sludge and sawdust/rice straw for the production of biochar. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 125, 61-68.  | 2.6  | 225       |
| 39 | Liquefaction of Biomass for Bio-oil Products. , 2017, , 231-250.  |      | 3         |
| 40 | Discovery of a butyrylcholinesterase-specific probe via a structure-based design strategy. <i>Chemical Communications</i> , 2017, 53, 3952-3955.  | 2.2  | 42        |
| 41 | Pollution hazards of heavy metals in sewage sludge from four wastewater treatment plants in Nanchang, China. <i>Transactions of Nonferrous Metals Society of China</i> , 2017, 27, 2249-2259.   | 1.7  | 52        |
| 42 | Copper-modified TS-1 catalyzed hydroxylation of phenol with hydrogen peroxide as the oxidant. <i>RSC Advances</i> , 2016, 6, 101071-101078.   | 1.7  | 32        |
| 43 | Study on demetalization of sewage sludge by sequential extraction before liquefaction for the production of cleaner bio-oil and bio-char. <i>Bioresource Technology</i> , 2016, 200, 320-327.   | 4.8  | 58        |
| 44 | The migration and transformation behaviors of heavy metals during the hydrothermal treatment of sewage sludge. <i>Bioresource Technology</i> , 2016, 200, 991-998.  | 4.8  | 295       |
| 45 | Recent progress in the direct liquefaction of typical biomass. <i>Progress in Energy and Combustion Science</i> , 2015, 49, 59-80.  | 15.8 | 249       |
| 46 | The pseudo-ternary phase diagrams and properties of anionic/nonionic mixed surfactant reverse micellar systems. <i>Journal of Molecular Liquids</i> , 2015, 203, 181-186.   | 2.3  | 15        |
| 47 | Characterization of liquefaction bio-oil from sewage sludge and its solubilization in diesel microemulsion. <i>Energy</i> , 2015, 82, 218-228.  | 4.5  | 55        |
| 48 | The comparison of oxidative thermokinetics between emulsion and microemulsion diesel fuel. <i>Energy Conversion and Management</i> , 2015, 101, 364-370.  | 4.4  | 37        |
| 49 | Bio-char derived from sewage sludge by liquefaction: Characterization and application for dye adsorption. <i>Applied Surface Science</i> , 2015, 346, 223-231.  | 3.1  | 171       |
| 50 | Laccase behavior in the microenvironment of water core within a biosurfactant-based reversed micelles system rhamnolipid/n-hexanol/isooctane/water. <i>Surface and Interface Analysis</i> , 2015, 47, 491-497.                            | 0.8  | 2         |
| 51 | The comparison of the migration and transformation behavior of heavy metals during pyrolysis and liquefaction of municipal sewage sludge, paper mill sludge, and slaughterhouse sludge. <i>Bioresource Technology</i> , 2015, 198, 16-22. | 4.8  | 90        |
| 52 | Distribution behavior and risk assessment of metals in bio-oils produced by liquefaction/pyrolysis of sewage sludge. <i>Environmental Science and Pollution Research</i> , 2015, 22, 18945-18955.   | 2.7  | 12        |
| 53 | Energy recovery and secondary pollutant emission from the combustion of co-pelletized fuel from municipal sewage sludge and wood sawdust. <i>Energy</i> , 2015, 91, 441-450.  | 4.5  | 55        |
| 54 | Speciation and environmental risk assessment of heavy metal in bio-oil from liquefaction/pyrolysis of sewage sludge. <i>Chemosphere</i> , 2015, 120, 645-652.   | 4.2  | 100       |

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|----|--|-----|-----------|
| 55 | Characterization and application of bio-chars from liquefaction of microalgae, lignocellulosic biomass and sewage sludge. <i>Fuel Processing Technology</i> , 2015, 129, 8-14.   | 3.7 | 122       |
| 56 | Effect of different surfactants on removal efficiency of heavy metals in sewage sludge treated by a novel method combining bio-acidification with Fenton oxidation. <i>Journal of Central South University</i> , 2014, 21, 4623-4629.      | 1.2 | 10        |
| 57 | Synchronous extraction of lignin peroxidase and manganese peroxidase from <i>Phanerochaete chrysosporium</i> fermentation broth. <i>Separation and Purification Technology</i> , 2014, 123, 164-170.                                       | 3.9 | 14        |
| 58 | Study on the solubilization capacity of bio-oil in diesel by microemulsion technology with Span80 as surfactant. <i>Fuel Processing Technology</i> , 2014, 118, 141-147.   | 3.7 | 53        |
| 59 | An integrated treatment of domestic wastewater using sequencing batch biofilm reactor combined with vertical flow constructed wetland and its artificial neural network simulation study. <i>Ecological Engineering</i> , 2014, 64, 18-26. | 1.6 | 39        |
| 60 | The Formation of Rhamnolipid-Based Water-Containing Castor Oil/Diesel Microemulsions and Their Potentiality as Green Fuels. <i>Energy &amp; Fuels</i> , 2014, 28, 5864-5871.   | 2.5 | 20        |
| 61 | Precipitation and Recovery of Cellulase using Biosurfactant. <i>Separation Science and Technology</i> , 2014, 49, 2249-2254.   | 1.3 | 6         |
| 62 | Integrated evaluation system under randomness and fuzziness for groundwater contamination risk assessment in a little town, Central China. <i>Journal of Central South University</i> , 2014, 21, 1044-1050.                               | 1.2 | 4         |
| 63 | Thermochemical liquefaction characteristics of sewage sludge in different organic solvents. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 109, 176-184.   | 2.6 | 86        |
| 64 | Co-pelletization of sewage sludge and biomass: The density and hardness of pellet. <i>Bioresource Technology</i> , 2014, 166, 435-443.   | 4.8 | 146       |
| 65 | The migration and transformation behavior of heavy metals during the liquefaction process of sewage sludge. <i>Bioresource Technology</i> , 2014, 167, 144-150.  | 4.8 | 122       |
| 66 | Thermochemical liquefaction of rice husk for bio-oil production in mixed solvent (ethanol+water). <i>Fuel Processing Technology</i> , 2013, 112, 93-99.  | 3.7 | 104       |
| 67 | Thermochemical liquefaction of rice husk for bio-oil production with sub- and supercritical ethanol as solvent. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 102, 60-67.   | 2.6 | 81        |
| 68 | Comparative studies of thermochemical liquefaction characteristics of microalgae, lignocellulosic biomass and sewage sludge. <i>Energy</i> , 2013, 56, 52-60.  | 4.5 | 156       |
| 69 | Graphene-based materials: Fabrication, characterization and application for the decontamination of wastewater and wastegas and hydrogen storage/generation. <i>Advances in Colloid and Interface Science</i> , 2013, 195-196, 19-40.       | 7.0 | 306       |
| 70 | Adsorption characteristics and behaviors of graphene oxide for Zn(II) removal from aqueous solution. <i>Applied Surface Science</i> , 2013, 279, 432-440.  | 3.1 | 418       |
| 71 | Ecological risk assessment of heavy metals in sediments of Xiawan Port based on modified potential ecological risk index. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 1470-1477.                                 | 1.7 | 174       |
| 72 | Studies on the solubilization of aqueous methylene blue in surfactant using MEUF. <i>Separation and Purification Technology</i> , 2012, 98, 497-502.   | 3.9 | 22        |

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|----|---|-----|-----------|
| 73 | Effect of rhamnolipids on cadmium adsorption by <i>Penicillium simplicissimum</i> . <i>Journal of Central South University</i> , 2012, 19, 1073-1080.                     | 1.2 | 16        |
| 74 | Co-liquefaction of microalgae and synthetic polymer mixture in sub- and supercritical ethanol. <i>Fuel Processing Technology</i> , 2012, 93, 35-44.                       | 3.7 | 67        |
| 75 | Extraction and purification of laccase by employing a novel rhamnolipid reversed micellar system. <i>Process Biochemistry</i> , 2012, 47, 742-748.                        | 1.8 | 31        |
| 76 | Comparative studies of thermochemical liquefaction characteristics of microalgae using different organic solvents. <i>Energy</i> , 2011, 36, 6406-6412.                   | 4.5 | 141       |
| 77 | Quantitative evaluation of heavy metals' pollution hazards in liquefaction residues of sewage sludge. <i>Bioresource Technology</i> , 2011, 102, 10346-10351.             | 4.8 | 160       |
| 78 | Total concentrations and chemical speciation of heavy metals in liquefaction residues of sewage sludge. <i>Bioresource Technology</i> , 2011, 102, 4104-4110.             | 4.8 | 227       |
| 79 | Thermochemical liquefaction characteristics of microalgae in sub- and supercritical ethanol. <i>Fuel Processing Technology</i> , 2011, 92, 147-153.                       | 3.7 | 203       |
| 80 | Micellar-enhanced ultrafiltration of methylene blue from dye wastewater via a polysulfone hollow fiber membrane. <i>Journal of Membrane Science</i> , 2010, 365, 138-144. | 4.1 | 88        |
| 81 | The formation of bio-oil from sludge by deoxy-liquefaction in supercritical ethanol. <i>Bioresource Technology</i> , 2010, 101, 2860-2866.                                | 4.8 | 124       |