# Jing-Yong Liu

## List of Publications by Citations



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| 105 papers | 2,646 citations | 33 h-index | 46 g-index |
| 110 ext. papers | 3,642 ext. citations | 8.4 avg, IF | 5.86 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 105 | Thermodynamics and kinetics parameters of co-combustion between sewage sludge and water hyacinth in CO2/O2 atmosphere as biomass to solid biofuel. *Bioresource Technology*, **2016**, 218, 631-42 | 11 | 103 |
| 104 | Combustion behaviors of spent mushroom substrate using TG-MS and TG-FTIR: Thermal conversion, kinetic, thermodynamic and emission analyses. *Bioresource Technology*, **2018**, 266, 389-397 | 11 | 96 |
| 103 | Pyrolytic kinetics, reaction mechanisms and products of waste tea via TG-FTIR and Py-GC/MS. *Energy Conversion and Management*, **2019**, 184, 436-447 | 10.6 | 90 |
| 102 | Co-combustion thermal conversion characteristics of textile dyeing sludge and pomelo peel using TGA and artificial neural networks. *Applied Energy*, **2018**, 212, 786-795 | 10.7 | 85 |
| 101 | Levels, composition profiles and risk assessment of polycyclic aromatic hydrocarbons (PAHs) in sludge from ten textile dyeing plants. *Environmental Research*, **2014**, 132, 112-8 | 7.9 | 85 |
| 100 | Investigation of co-combustion characteristics of sewage sludge and coffee grounds mixtures using thermogravimetric analysis coupled to artificial neural networks modeling. *Bioresource Technology*, **2017**, 225, 234-245 | 11 | 82 |
| 99 | Pyrolysis of water hyacinth biomass parts: Bioenergy, gas emissions, and by-products using TG-FTIR and Py-GC/MS analyses. *Energy Conversion and Management*, **2020**, 207, 112552 | 10.6 | 70 |
| 98 | Influence of catalysts on co-combustion of sewage sludge and water hyacinth blends as determined by TG-MS analysis. *Bioresource Technology*, **2018**, 247, 217-225 | 11 | 68 |
| 97 | Co-combustion of textile dyeing sludge with cattle manure: Assessment of thermal behavior, gaseous products, and ash characteristics. *Journal of Cleaner Production*, **2020**, 253, 119950 | 10.3 | 59 |
| 96 | An experimental and thermodynamic equilibrium investigation of the Pb, Zn, Cr, Cu, Mn and Ni partitioning during sewage sludge incineration. *Journal of Environmental Sciences*, **2015**, 35, 43-54 | 6.4 | 58 |
| 95 | Combined effects of FeCl 3 and CaO conditioning on SO 2 , HCl and heavy metals emissions during the DDSS incineration. *Chemical Engineering Journal*, **2016**, 299, 449-458 | 14.7 | 55 |
| 94 | Co-combustion of sewage sludge and coffee grounds under increased O/CO atmospheres: Thermodynamic characteristics, kinetics and artificial neural network modeling. *Bioresource Technology*, **2018**, 250, 230-238 | 11 | 55 |
| 93 | TG-FTIR and Py-GC/MS analyses of pyrolysis behaviors and products of cattle manure in CO2 and N2 atmospheres: Kinetic, thermodynamic, and machine-learning models. *Energy Conversion and Management*, **2019**, 195, 346-359 | 10.6 | 54 |
| 92 | Accelerated crystallization of magnetic 4A-zeolite synthesized from red mud for application in removal of mixed heavy metal ions. *Journal of Hazardous Materials*, **2018**, 358, 441-449 | 12.8 | 50 |
| 91 | Impact of surfactant type for ionic liquid pretreatment on enhancing delignification of rice straw. *Bioresource Technology*, **2017**, 227, 388-392 | 11 | 49 |
| 90 | Comparative thermogravimetric analyses of co-combustion of textile dyeing sludge and sugarcane bagasse in carbon dioxide/oxygen and nitrogen/oxygen atmospheres: Thermal conversion characteristics, kinetics, and thermodynamics. *Bioresource Technology*, **2018**, 255, 88-95 | 11 | 48 |
| 89 | Degradation of polycyclic aromatic hydrocarbons (PAHs) in textile dyeing sludge with ultrasound and Fenton processes: Effect of system parameters and synergistic effect study. *Journal of Hazardous Materials*, **2016**, 307, 7-16 | 12.8 | 48 |

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| 88 | Combustion behaviors of three bamboo residues: Gas emission, kinetic, reaction mechanism and optimization patterns. *Journal of Cleaner Production*, **2019**, 235, 549-561 | 10.3 | 42 |
| 87 | Interaction effects of chlorine and phosphorus on thermochemical behaviors of heavy metals during incineration of sulfur-rich textile dyeing sludge. *Chemical Engineering Journal*, **2018**, 351, 897-911 | 14.7 | 42 |
| 86 | Study of the heavy metals residual in the incineration slag of textile dyeing sludge. *Journal of the Taiwan Institute of Chemical Engineers*, **2014**, 45, 1814-1820 | 5.3 | 41 |
| 85 | Thermal degradations and processes of waste tea and tea leaves via TG-FTIR: Combustion performances, kinetics, thermodynamics, products and optimization. *Bioresource Technology*, **2018**, 268, 715-725 | 11 | 40 |
| 84 | Thermogravimetric characteristics of textile dyeing sludge, coal and their blend in N2/O2 and CO2/O2 atmospheres. *Applied Thermal Engineering*, **2017**, 111, 87-94 | 5.8 | 40 |
| 83 | Kinetics, thermodynamics, gas evolution and empirical optimization of (co-)combustion performances of spent mushroom substrate and textile dyeing sludge. *Bioresource Technology*, **2019**, 280, 313-324 | 11 | 39 |
| 82 | Combustion behaviors of pileus and stipe parts of Lentinus edodes using thermogravimetric-mass spectrometry and Fourier transform infrared spectroscopy analyses: Thermal conversion, kinetic, thermodynamic, gas emission and optimization analyses. *Bioresource Technology*, **2019**, 288, 121481 | 11 | 38 |
| 81 | (Co-)combustion behaviors and products of spent potlining and textile dyeing sludge. *Journal of Cleaner Production*, **2019**, 224, 384-395 | 10.3 | 38 |
| 80 | Combustions of torrefaction-pretreated bamboo forest residues: Physicochemical properties, evolved gases, and kinetic mechanisms. *Bioresource Technology*, **2020**, 304, 122960 | 11 | 38 |
| 79 | Thermogravimetric analysis of (co-)combustion of oily sludge and litchi peels: combustion characterization, interactions and kinetics. *Thermochimica Acta*, **2018**, 667, 207-218 | 2.9 | 38 |
| 78 | Synergistic effects of surfactant-assisted ionic liquid pretreatment rice straw. *Bioresource Technology*, **2016**, 214, 371-375 | 11 | 37 |
| 77 | Kinetics, thermodynamics, gas evolution and empirical optimization of cattle manure combustion in air and oxy-fuel atmospheres. *Applied Thermal Engineering*, **2019**, 149, 119-131 | 5.8 | 37 |
| 76 | Assessing thermal behaviors and kinetics of (co-)combustion of textile dyeing sludge and sugarcane bagasse. *Applied Thermal Engineering*, **2018**, 131, 874-883 | 5.8 | 36 |
| 75 | Characterization of a thermophilic cellulase from Geobacillus sp. HTA426, an efficient cellulase-producer on alkali pretreated of lignocellulosic biomass. *PLoS ONE*, **2017**, 12, e0175004 | 3.7 | 35 |
| 74 | Quantifying thermal decomposition regimes of textile dyeing sludge, pomelo peel, and their blends. *Renewable Energy*, **2018**, 122, 55-64 | 8.1 | 34 |
| 73 | The effect of surfactant-assisted ultrasound-ionic liquid pretreatment on the structure and fermentable sugar production of a water hyacinth. *Bioresource Technology*, **2017**, 237, 27-30 | 11 | 33 |
| 72 | Pyrolysis performance, kinetic, thermodynamic, product and joint optimization analyses of incense sticks in N2 and CO2 atmospheres. *Renewable Energy*, **2019**, 141, 814-827 | 8.1 | 33 |
| 71 | Synergistic effects, gaseous products, and evolutions of NO precursors during (co-)pyrolysis of textile dyeing sludge and bamboo residues. *Journal of Hazardous Materials*, **2021**, 401, 123331 | 12.8 | 32 |

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| 70 | Pyrolysis dynamics of two medical plastic wastes: Drivers, behaviors, evolved gases, reaction mechanisms, and pathways. *Journal of Hazardous Materials*, **2021**, 402, 123472 | 12.8 | 30 |
| 69 | Effects of sulfur on lead partitioning during sludge incineration based on experiments and thermodynamic calculations. *Waste Management*, **2015**, 38, 336-48 | 8.6 | 28 |
| 68 | Bioenergy and emission characterizations of catalytic combustion and pyrolysis of litchi peels via TG-FTIR-MS and Py-GC/MS. *Renewable Energy*, **2020**, 148, 1074-1093 | 8.1 | 28 |
| 67 | Comparative (co-)pyrolytic performances and by-products of textile dyeing sludge and cattle manure: Deeper insights from Py-GC/MS, TG-FTIR, 2D-COS and PCA analyses. *Journal of Hazardous Materials*, **2021**, 401, 123276 | 12.8 | 28 |
| 66 | Thermal conversion behaviors and products of spent mushroom substrate in CO2 and N2 atmospheres: Kinetic, thermodynamic, TG and Py-GC/MS analyses. *Journal of Analytical and Applied Pyrolysis*, **2019**, 139, 177-186 | 6 | 27 |
| 65 | Combustion behaviors of Pteris vittata using thermogravimetric, kinetic, emission and optimization analyses. *Journal of Cleaner Production*, **2019**, 237, 117772 | 10.3 | 27 |
| 64 | Degradation of Ni□EDTA complex by Fenton reaction and ultrasonic treatment for the removal of Ni2+ ions. *Environmental Chemistry Letters*, **2010**, 8, 317-322 | 13.3 | 27 |
| 63 | Dynamic pyrolysis behaviors, products, and mechanisms of waste rubber and polyurethane bicycle tires. *Journal of Hazardous Materials*, **2021**, 402, 123516 | 12.8 | 27 |
| 62 | (Co-)combustion of additives, water hyacinth and sewage sludge: Thermogravimetric, kinetic, gas and thermodynamic modeling analyses. *Waste Management*, **2018**, 81, 211-219 | 8.6 | 27 |
| 61 | CO-assisted co-pyrolysis of textile dyeing sludge and hyperaccumulator biomass: Dynamic and comparative analyses of evolved gases, bio-oils, biochars, and reaction mechanisms. *Journal of Hazardous Materials*, **2020**, 400, 123190 | 12.8 | 26 |
| 60 | Enhanced dewaterability of textile dyeing sludge using micro-electrolysis pretreatment. *Journal of Environmental Management*, **2015**, 161, 181-187 | 7.9 | 25 |
| 59 | Response surface optimization, modeling and uncertainty analysis of mass loss response of co-combustion of sewage sludge and water hyacinth. *Applied Thermal Engineering*, **2017**, 125, 328-335 | 5.8 | 25 |
| 58 | The mixture of sewage sludge and biomass waste as solid biofuels: Process characteristic and environmental implication. *Renewable Energy*, **2019**, 139, 707-717 | 8.1 | 23 |
| 57 | Fate of volatile aromatic hydrocarbons in the wastewater from six textile dyeing wastewater treatment plants. *Chemosphere*, **2015**, 136, 50-5 | 8.4 | 21 |
| 56 | Catalytic combustion performances, kinetics, reaction mechanisms and gas emissions of Lentinus edodes. *Bioresource Technology*, **2020**, 300, 122630 | 11 | 20 |
| 55 | Heavy metal removal from MSS fly ash by thermal and chlorination treatments. *Scientific Reports*, **2015**, 5, 17270 | 4.9 | 19 |
| 54 | Thermogravimetric and mass-spectrometric analyses of combustion of spent potlining under N/O and CO/O atmospheres. *Waste Management*, **2019**, 87, 237-249 | 8.6 | 19 |
| 53 | Decomposition of Nickel(II)-Ethylenediaminetetraacetic acid by Fenton-Like reaction over oxygen vacancies-based Cu-Doped FeO@□AlO catalyst: A synergy of oxidation and adsorption. *Chemosphere*, **2019**, 221, 563-572 | 8.4 | 19 |

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| 52 | Kinetics of coffee industrial residue pyrolysis using distributed activation energy model and components separation of bio-oil by sequencing temperature-raising pyrolysis. *Bioresource Technology*, **2016**, 221, 534-540 | 11 | 17 |
| 51 | Effect of different sulfides on cadmium distribution during sludge combustion based on experimental and thermodynamic calculation approaches. *Environmental Science and Pollution Research*, **2015**, 22, 1113-26 | 5.1 | 15 |
| 50 | Evaluation of reaction mechanisms and emissions of oily sludge and coal co-combustions in O2/CO2 and O2/N2 atmospheres. *Renewable Energy*, **2021**, 171, 1327-1343 | 8.1 | 15 |
| 49 | Co-pyrolysis performances, synergistic mechanisms, and products of textile dyeing sludge and medical plastic wastes. *Science of the Total Environment*, **2021**, 799, 149397 | 10.2 | 15 |
| 48 | Spent mushroom substrate biochar as a potential amendment in pig manure and rice straw composting processes. *Environmental Technology (United Kingdom)*, **2017**, 38, 1765-1769 | 2.6 | 14 |
| 47 | Characterizing and optimizing (co-)pyrolysis as a function of different feedstocks, atmospheres, blend ratios, and heating rates. *Bioresource Technology*, **2019**, 277, 104-116 | 11 | 14 |
| 46 | Effect of K2FeO4/US treatment on textile dyeing sludge disintegration and dewaterability. *Journal of Environmental Management*, **2015**, 162, 81-6 | 7.9 | 12 |
| 45 | Effect of ultrasound on ionic liquid-hydrochloric acid pretreatment with rice straw. *Biomass Conversion and Biorefinery*, **2021**, 11, 1749-1757 | 2.3 | 12 |
| 44 | Uncertainty and sensitivity analyses of co-combustion/pyrolysis of textile dyeing sludge and incense sticks: Regression and machine-learning models. *Renewable Energy*, **2020**, 151, 463-474 | 8.1 | 12 |
| 43 | Do FeCl and FeCl/CaO conditioners change pyrolysis and incineration performances, emissions, and elemental fates of textile dyeing sludge?. *Journal of Hazardous Materials*, **2021**, 413, 125334 | 12.8 | 12 |
| 42 | Simultaneous reduction of antibiotics and antibiotic resistance genes in pig manure using a composting process with a novel microbial agent. *Ecotoxicology and Environmental Safety*, **2021**, 208, 111724 | 7 | 12 |
| 41 | Co-combustion, life-cycle circularity, and artificial intelligence-based multi-objective optimization of two plastics and textile dyeing sludge.. *Journal of Hazardous Materials*, **2021**, 426, 128069 | 12.8 | 11 |
| 40 | Oxy-fuel and air atmosphere combustions of Chinese medicine residues: Performances, mechanisms, flue gas emission, and ash properties. *Renewable Energy*, **2022**, 182, 102-118 | 8.1 | 11 |
| 39 | Combustion parameters, evolved gases, reaction mechanisms, and ash mineral behaviors of durian shells: A comprehensive characterization and joint-optimization. *Bioresource Technology*, **2020**, 314, 123689 | 11 | 10 |
| 38 | Optimizing environmental pollution controls in response to textile dyeing sludge, incineration temperature, CaO conditioner, and ash minerals. *Science of the Total Environment*, **2021**, 785, 147219 | 10.2 | 10 |
| 37 | Consequence of replacing nitrogen with carbon dioxide as atmosphere on suppressing the formation of polycyclic aromatic hydrocarbons in catalytic pyrolysis of sawdust. *Bioresource Technology*, **2020**, 297, 122417 | 11 | 9 |
| 36 | Thermal Behavior of Cd During Sludge Incineration: Experiments and Thermodynamic Equilibrium Model. *Water Environment Research*, **2016**, 88, 2245-2256 | 2.8 | 9 |
| 35 | Optimizing bioenergy and by-product outputs from durian shell pyrolysis. *Renewable Energy*, **2021**, 164, 407-418 | 8.1 | 9 |

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| 34 | Multi-response optimization toward efficient and clean (co-)combustions of textile dyeing sludge and second-generation feedstock. *Journal of Hazardous Materials*, **2021**, 408, 124824 | 12.8 | 9 |
| 33 | Coupled mechanisms of reaction kinetics, gas emissions, and ash mineral transformations during combustion of AlCl-conditioned textile dyeing sludge. *Journal of Hazardous Materials*, **2021**, 403, 123968 | 12.8 | 9 |
| 32 | Enhanced bioelectricity generation and azo dye treatment in a reversible photo-bioelectrochemical cell by using novel anthraquinone-2,6-disulfonate (AQDS)/MnO-doped polypyrrole film electrodes. *Bioresource Technology*, **2017**, 225, 40-47 | 11 | 8 |
| 31 | Thermal behaviors of fluorine during (co-)incinerations of spent potlining and red mud: Transformation, retention, leaching and thermodynamic modeling analyses. *Chemosphere*, **2020**, 249, 126204 | 8.4 | 8 |
| 30 | Parametric assessment of stochastic variability in co-combustion of textile dyeing sludge and shaddock peel. *Waste Management*, **2019**, 96, 128-135 | 8.6 | 8 |
| 29 | Temperature- and heating rate-dependent pyrolysis mechanisms and emissions of Chinese medicine residues and numerical reconstruction and optimization of their non-linear dynamics. *Renewable Energy*, **2021**, 164, 1408-1423 | 8.1 | 8 |
| 28 | Thermodynamic behaviors of Cu in interaction with chlorine, sulfur, phosphorus and minerals during sewage sludge co-incineration. *Chinese Journal of Chemical Engineering*, **2018**, 26, 1160-1170 | 3.2 | 7 |
| 27 | Enhanced Enzymatic Hydrolysis of Rice Straw Pretreated by Oxidants Assisted with Photocatalysis Technology. *Materials*, **2018**, 11, | 3.5 | 7 |
| 26 | Thermodynamic Equilibrium Calculations on Cd Transformation during Sewage Sludge Incineration. *Water Environment Research*, **2016**, 88, 548-56 | 2.8 | 7 |
| 25 | Arsenic Partitioning Behavior During Sludge Co-combustion: Thermodynamic Equilibrium Simulation. *Waste and Biomass Valorization*, **2019**, 10, 2297-2307 | 3.2 | 7 |
| 24 | Multiple drivers, interaction effects, and trade-offs of efficient and cleaner combustion of torrefied water hyacinth. *Science of the Total Environment*, **2021**, 786, 147278 | 10.2 | 7 |
| 23 | Catalytic combustions of two bamboo residues with sludge ash, CaO, and Fe2O3: Bioenergy, emission and ash deposition improvements. *Journal of Cleaner Production*, **2020**, 270, 122418 | 10.3 | 6 |
| 22 | Thermochemical behaviorsof textile dying sludge, paper mill sludge, and their blends during (co-)combustion. *Thermochimica Acta*, **2017**, 655, 101-105 | 2.9 | 6 |
| 21 | The effect of additives on migration and transformation of gaseous pollutants in the vacuum pyrolysis process of waste printed circuit boards. *Waste Management and Research*, **2017**, 35, 190-199 | 4 | 6 |
| 20 | Torrefaction, temperature, and heating rate dependencies of pyrolysis of coffee grounds: Its performances, bio-oils, and emissions. *Bioresource Technology*, **2021**, 345, 126346 | 11 | 6 |
| 19 | Efficiency, by-product valorization, and pollution control of co-pyrolysis of textile dyeing sludge and waste solid adsorbents: Their atmosphere, temperature, and blend ratio dependencies.. *Science of the Total Environment*, **2022**, 819, 152923 | 10.2 | 5 |
| 18 | Thermogravimetric Analysis of Textile Dyeing Sludge (TDS) in N/CO/O Atmospheres and its Combustion Model with Coal. *Water Environment Research*, **2018**, 90, 30-41 | 2.8 | 5 |
| 17 | Water-soluble fluorine detoxification mechanisms of spent potlining incineration in response to calcium compounds. *Environmental Pollution*, **2020**, 266, 115420 | 9.3 | 4 |

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| 16 | Combustion behaviors of complex incense stick residues: Multivariate Gaussian process-based optimization of thermal, kinetic, thermodynamic, emission, and ash responses. *Fuel*, **2021**, 293, 120439 | 7.1 | 4 |
| 15 | Ash-to-emission pollution controls on co-combustion of textile dyeing sludge and waste tea. *Science of the Total Environment*, **2021**, 794, 148667 | 10.2 | 4 |
| 14 | Sequential extraction for heavy metal distribution of bottom ash from fluidized bed co-combusted phosphorus-rich sludge under the agglomeration/defluidization process. *Waste Management and Research*, **2020**, 38, 122-133 | 4 | 3 |
| 13 | Dynamic insights into combustion drivers and responses of water hyacinth: Evolved gas and ash analyses. *Journal of Cleaner Production*, **2020**, 276, 124156 | 10.3 | 3 |
| 12 | Thermal behaviors, combustion mechanisms, evolved gasses, and ash analysis of spent potlining for a hazardous waste management. *Journal of Environmental Sciences*, **2021**, 107, 124-137 | 6.4 | 3 |
| 11 | Emission-to-ash detoxification mechanisms of co-combustion of spent pot lining and pulverized coal. *Journal of Hazardous Materials*, **2021**, 418, 126380 | 12.8 | 3 |
| 10 | Study on Polypropylene Matrix Composites Filled with Glass Fiber Recycled from Waste Printed Circuit Board **2011**, | | 2 |
| 9 | Oxy-fuel co-combustion dynamics of phytoremediation biomass and textile dyeing sludge: Gas-to-ash pollution abatement.. *Science of the Total Environment*, **2022**, 825, 153656 | 10.2 | 2 |
| 8 | Variational Characteristics and Implications of Gaseous Elemental Mercury for Three Continuous Typhoons in China. *Archives of Environmental Contamination and Toxicology*, **2016**, 70, 692-9 | 3.2 | 2 |
| 7 | Thermodynamic equilibrium predictions of zinc volatilization, migration, and transformation during sludge co-incineration. *Water Environment Research*, **2019**, 91, 208-221 | 2.8 | 1 |
| 6 | Effect of Phosphorus Concentration on Alkali and Heavy Metals Transformation Under Agglomeration/Defluidization During Fluidized Bed Simulated Sludge Co-combustion. *Waste and Biomass Valorization*, **2020**, 11, 6903-6916 | 3.2 | 1 |
| 5 | Conversion of rice husk into fermentable sugar and silica using acid-catalyzed ionic liquid pretreatment. *Environmental Science and Pollution Research*, **2021**, 28, 40715-40723 | 5.1 | 1 |
| 4 | Thermodynamic Equilibrium Simulations of Thallium Distributions in Interactions with Chlorine, Sulfur, Phosphorus, and Minerals During Sludge Co-combustion. *Waste and Biomass Valorization*, **2020**, 11, 1251-1259 | 3.2 | 1 |
| 3 | Experimental investigation of synthetic gas composition in a two-stage fluidized bed gasification process: effect of activated carbon as bed material. *Environmental Technology (United Kingdom)*, **2017**, 38, 1169-1175 | 2.6 | 0 |
| 2 | Technical and environmental feasibility of gas-solid decontamination by oxygen-enriched co-combustion of durian shell and textile dyeing sludge. *Journal of Cleaner Production*, **2022**, 131967 | 10.3 | 0 |
| 1 | Bottom slag-to-flue gas controls on S and Cl from co-combustion of textile dyeing sludge and waste biochar: Their interactions with temperature, atmosphere, and blend ratio.. *Journal of Hazardous Materials*, **2022**, 435, 129007 | 12.8 | 0 |