

# Jing-Yong Liu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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.. <i>Science of the Total Environment</i> , <b>2022</b> , 819, 152923	10.2	5
104	Oxy-fuel co-combustion dynamics of phytoremediation biomass and textile dyeing sludge: Gas-to-ash pollution abatement.. <i>Science of the Total Environment</i> , <b>2022</b> , 825, 153656	10.2	2
103	Oxy-fuel and air atmosphere combustions of Chinese medicine residues: Performances, mechanisms, flue gas emission, and ash properties. <i>Renewable Energy</i> , <b>2022</b> , 182, 102-118	8.1	11
102	Technical and environmental feasibility of gas-solid decontamination by oxygen-enriched co-combustion of durian shell and textile dyeing sludge. <i>Journal of Cleaner Production</i> , <b>2022</b> , 131967	10.3	0
101	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.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 435, 129007	12.8	0
100	Torrefaction, temperature, and heating rate dependencies of pyrolysis of coffee grounds: Its performances, bio-oils, and emissions. <i>Bioresource Technology</i> , <b>2021</b> , 345, 126346	11	6
99	Co-combustion, life-cycle circularity, and artificial intelligence-based multi-objective optimization of two plastics and textile dyeing sludge.. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 426, 128069	12.8	11
98	Effect of ultrasound on ionic liquid-hydrochloric acid pretreatment with rice straw. <i>Biomass Conversion and Biorefinery</i> , <b>2021</b> , 11, 1749-1757	2.3	12
97	Conversion of rice husk into fermentable sugar and silica using acid-catalyzed ionic liquid pretreatment. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 40715-40723	5.1	1
96	Evaluation of reaction mechanisms and emissions of oily sludge and coal co-combustions in O <sub>2</sub> /CO <sub>2</sub> and O <sub>2</sub> /N <sub>2</sub> atmospheres. <i>Renewable Energy</i> , <b>2021</b> , 171, 1327-1343	8.1	15
95	Combustion behaviors of complex incense stick residues: Multivariate Gaussian process-based optimization of thermal, kinetic, thermodynamic, emission, and ash responses. <i>Fuel</i> , <b>2021</b> , 293, 120439	7.1	4
94	Do FeCl and FeCl/CaO conditioners change pyrolysis and incineration performances, emissions, and elemental fates of textile dyeing sludge?. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 413, 125334	12.8	12
93	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. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 401, 123276	12.8	28
92	Pyrolysis dynamics of two medical plastic wastes: Drivers, behaviors, evolved gases, reaction mechanisms, and pathways. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 402, 123472	12.8	30
91	Dynamic pyrolysis behaviors, products, and mechanisms of waste rubber and polyurethane bicycle tires. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 402, 123516	12.8	27
90	Synergistic effects, gaseous products, and evolutions of NO precursors during (co-)pyrolysis of textile dyeing sludge and bamboo residues. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 401, 123331	12.8	32
89	Optimizing bioenergy and by-product outputs from durian shell pyrolysis. <i>Renewable Energy</i> , <b>2021</b> , 164, 407-418	8.1	9

88	Simultaneous reduction of antibiotics and antibiotic resistance genes in pig manure using a composting process with a novel microbial agent. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 208, 111724	7	12
87	Multi-response optimization toward efficient and clean (co-)combustions of textile dyeing sludge and second-generation feedstock. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 408, 124824	12.8	9
86	Temperature- and heating rate-dependent pyrolysis mechanisms and emissions of Chinese medicine residues and numerical reconstruction and optimization of their non-linear dynamics. <i>Renewable Energy</i> , <b>2021</b> , 164, 1408-1423	8.1	8
85	Coupled mechanisms of reaction kinetics, gas emissions, and ash mineral transformations during combustion of AlCl <sub>3</sub> -conditioned textile dyeing sludge. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 123968	12.8	9
84	Optimizing environmental pollution controls in response to textile dyeing sludge, incineration temperature, CaO conditioner, and ash minerals. <i>Science of the Total Environment</i> , <b>2021</b> , 785, 147219	10.2	10
83	Thermal behaviors, combustion mechanisms, evolved gasses, and ash analysis of spent potlining for a hazardous waste management. <i>Journal of Environmental Sciences</i> , <b>2021</b> , 107, 124-137	6.4	3
82	Emission-to-ash detoxification mechanisms of co-combustion of spent pot lining and pulverized coal. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 418, 126380	12.8	3
81	Multiple drivers, interaction effects, and trade-offs of efficient and cleaner combustion of torrefied water hyacinth. <i>Science of the Total Environment</i> , <b>2021</b> , 786, 147278	10.2	7
80	Ash-to-emission pollution controls on co-combustion of textile dyeing sludge and waste tea. <i>Science of the Total Environment</i> , <b>2021</b> , 794, 148667	10.2	4
79	Co-pyrolysis performances, synergistic mechanisms, and products of textile dyeing sludge and medical plastic wastes. <i>Science of the Total Environment</i> , <b>2021</b> , 799, 149397	10.2	15
78	Catalytic combustions of two bamboo residues with sludge ash, CaO, and Fe <sub>2</sub> O <sub>3</sub> : Bioenergy, emission and ash deposition improvements. <i>Journal of Cleaner Production</i> , <b>2020</b> , 270, 122418	10.3	6
77	CO-assisted co-pyrolysis of textile dyeing sludge and hyperaccumulator biomass: Dynamic and comparative analyses of evolved gases, bio-oils, biochars, and reaction mechanisms. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 400, 123190	12.8	26
76	Combustion parameters, evolved gases, reaction mechanisms, and ash mineral behaviors of durian shells: A comprehensive characterization and joint-optimization. <i>Bioresource Technology</i> , <b>2020</b> , 314, 123689	11	10
75	Combustions of torrefaction-pretreated bamboo forest residues: Physicochemical properties, evolved gases, and kinetic mechanisms. <i>Bioresource Technology</i> , <b>2020</b> , 304, 122960	11	38
74	Pyrolysis of water hyacinth biomass parts: Bioenergy, gas emissions, and by-products using TG-FTIR and Py-GC/MS analyses. <i>Energy Conversion and Management</i> , <b>2020</b> , 207, 112552	10.6	70
73	Thermal behaviors of fluorine during (co-)incinerations of spent potlining and red mud: Transformation, retention, leaching and thermodynamic modeling analyses. <i>Chemosphere</i> , <b>2020</b> , 249, 126204	8.4	8
72	Effect of Phosphorus Concentration on Alkali and Heavy Metals Transformation Under Agglomeration/Defluidization During Fluidized Bed Simulated Sludge Co-combustion. <i>Waste and Biomass Valorization</i> , <b>2020</b> , 11, 6903-6916	3.2	1
71	Uncertainty and sensitivity analyses of co-combustion/pyrolysis of textile dyeing sludge and incense sticks: Regression and machine-learning models. <i>Renewable Energy</i> , <b>2020</b> , 151, 463-474	8.1	12

70	Catalytic combustion performances, kinetics, reaction mechanisms and gas emissions of <i>Lentinus edodes</i> . <i>Bioresource Technology</i> , <b>2020</b> , 300, 122630	11	20
69	Co-combustion of textile dyeing sludge with cattle manure: Assessment of thermal behavior, gaseous products, and ash characteristics. <i>Journal of Cleaner Production</i> , <b>2020</b> , 253, 119950	10.3	59
68	Sequential extraction for heavy metal distribution of bottom ash from fluidized bed co-combusted phosphorus-rich sludge under the agglomeration/defluidization process. <i>Waste Management and Research</i> , <b>2020</b> , 38, 122-133	4	3
67	Consequence of replacing nitrogen with carbon dioxide as atmosphere on suppressing the formation of polycyclic aromatic hydrocarbons in catalytic pyrolysis of sawdust. <i>Bioresource Technology</i> , <b>2020</b> , 297, 122417	11	9
66	Bioenergy and emission characterizations of catalytic combustion and pyrolysis of litchi peels via TG-FTIR-MS and Py-GC/MS. <i>Renewable Energy</i> , <b>2020</b> , 148, 1074-1093	8.1	28
65	Dynamic insights into combustion drivers and responses of water hyacinth: Evolved gas and ash analyses. <i>Journal of Cleaner Production</i> , <b>2020</b> , 276, 124156	10.3	3
64	Water-soluble fluorine detoxification mechanisms of spent potlining incineration in response to calcium compounds. <i>Environmental Pollution</i> , <b>2020</b> , 266, 115420	9.3	4
63	Thermodynamic Equilibrium Simulations of Thallium Distributions in Interactions with Chlorine, Sulfur, Phosphorus, and Minerals During Sludge Co-combustion. <i>Waste and Biomass Valorization</i> , <b>2020</b> , 11, 1251-1259	3.2	1
62	Thermodynamic equilibrium predictions of zinc volatilization, migration, and transformation during sludge co-incineration. <i>Water Environment Research</i> , <b>2019</b> , 91, 208-221	2.8	1
61	Combustion behaviors of pileus and stipe parts of <i>Lentinus edodes</i> using thermogravimetric-mass spectrometry and Fourier transform infrared spectroscopy analyses: Thermal conversion, kinetic, thermodynamic, gas emission and optimization analyses. <i>Bioresource Technology</i> , <b>2019</b> , 288, 121481	11	38
60	(Co-)combustion behaviors and products of spent potlining and textile dyeing sludge. <i>Journal of Cleaner Production</i> , <b>2019</b> , 224, 384-395	10.3	38
59	TG-FTIR and Py-GC/MS analyses of pyrolysis behaviors and products of cattle manure in CO <sub>2</sub> and N <sub>2</sub> atmospheres: Kinetic, thermodynamic, and machine-learning models. <i>Energy Conversion and Management</i> , <b>2019</b> , 195, 346-359	10.6	54
58	Pyrolysis performance, kinetic, thermodynamic, product and joint optimization analyses of incense sticks in N <sub>2</sub> and CO <sub>2</sub> atmospheres. <i>Renewable Energy</i> , <b>2019</b> , 141, 814-827	8.1	33
57	Thermal conversion behaviors and products of spent mushroom substrate in CO <sub>2</sub> and N <sub>2</sub> atmospheres: Kinetic, thermodynamic, TG and Py-GC/MS analyses. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2019</b> , 139, 177-186	6	27
56	The mixture of sewage sludge and biomass waste as solid biofuels: Process characteristic and environmental implication. <i>Renewable Energy</i> , <b>2019</b> , 139, 707-717	8.1	23
55	Kinetics, thermodynamics, gas evolution and empirical optimization of (co-)combustion performances of spent mushroom substrate and textile dyeing sludge. <i>Bioresource Technology</i> , <b>2019</b> , 280, 313-324	11	39
54	Pyrolytic kinetics, reaction mechanisms and products of waste tea via TG-FTIR and Py-GC/MS. <i>Energy Conversion and Management</i> , <b>2019</b> , 184, 436-447	10.6	90
53	Combustion behaviors of <i>Pteris vittata</i> using thermogravimetric, kinetic, emission and optimization analyses. <i>Journal of Cleaner Production</i> , <b>2019</b> , 237, 117772	10.3	27

52	Parametric assessment of stochastic variability in co-combustion of textile dyeing sludge and shaddock peel. <i>Waste Management</i> , <b>2019</b> , 96, 128-135	8.6	8
51	Combustion behaviors of three bamboo residues: Gas emission, kinetic, reaction mechanism and optimization patterns. <i>Journal of Cleaner Production</i> , <b>2019</b> , 235, 549-561	10.3	42
50	Thermogravimetric and mass-spectrometric analyses of combustion of spent potlining under N/O and CO/O atmospheres. <i>Waste Management</i> , <b>2019</b> , 87, 237-249	8.6	19
49	Characterizing and optimizing (co-)pyrolysis as a function of different feedstocks, atmospheres, blend ratios, and heating rates. <i>Bioresource Technology</i> , <b>2019</b> , 277, 104-116	11	14
48	Decomposition of Nickel(II)-Ethylenediaminetetraacetic acid by Fenton-Like reaction over oxygen vacancies-based Cu-Doped FeO@FAO catalyst: A synergy of oxidation and adsorption. <i>Chemosphere</i> , <b>2019</b> , 221, 563-572	8.4	19
47	Kinetics, thermodynamics, gas evolution and empirical optimization of cattle manure combustion in air and oxy-fuel atmospheres. <i>Applied Thermal Engineering</i> , <b>2019</b> , 149, 119-131	5.8	37
46	Arsenic Partitioning Behavior During Sludge Co-combustion: Thermodynamic Equilibrium Simulation. <i>Waste and Biomass Valorization</i> , <b>2019</b> , 10, 2297-2307	3.2	7
45	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. <i>Bioresource Technology</i> , <b>2018</b> , 255, 88-95	11	48
44	Quantifying thermal decomposition regimes of textile dyeing sludge, pomelo peel, and their blends. <i>Renewable Energy</i> , <b>2018</b> , 122, 55-64	8.1	34
43	Thermodynamic behaviors of Cu in interaction with chlorine, sulfur, phosphorus and minerals during sewage sludge co-incineration. <i>Chinese Journal of Chemical Engineering</i> , <b>2018</b> , 26, 1160-1170	3.2	7
42	Co-combustion thermal conversion characteristics of textile dyeing sludge and pomelo peel using TGA and artificial neural networks. <i>Applied Energy</i> , <b>2018</b> , 212, 786-795	10.7	85
41	Assessing thermal behaviors and kinetics of (co-)combustion of textile dyeing sludge and sugarcane bagasse. <i>Applied Thermal Engineering</i> , <b>2018</b> , 131, 874-883	5.8	36
40	Influence of catalysts on co-combustion of sewage sludge and water hyacinth blends as determined by TG-MS analysis. <i>Bioresource Technology</i> , <b>2018</b> , 247, 217-225	11	68
39	Enhanced Enzymatic Hydrolysis of Rice Straw Pretreated by Oxidants Assisted with Photocatalysis Technology. <i>Materials</i> , <b>2018</b> , 11,	3.5	7
38	Accelerated crystallization of magnetic 4A-zeolite synthesized from red mud for application in removal of mixed heavy metal ions. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 358, 441-449	12.8	50
37	Thermal degradations and processes of waste tea and tea leaves via TG-FTIR: Combustion performances, kinetics, thermodynamics, products and optimization. <i>Bioresource Technology</i> , <b>2018</b> , 268, 715-725	11	40
36	Thermogravimetric analysis of (co-)combustion of oily sludge and litchi peels: combustion characterization, interactions and kinetics. <i>Thermochimica Acta</i> , <b>2018</b> , 667, 207-218	2.9	38
35	Co-combustion of sewage sludge and coffee grounds under increased O/CO atmospheres: Thermodynamic characteristics, kinetics and artificial neural network modeling. <i>Bioresource Technology</i> , <b>2018</b> , 250, 230-238	11	55

34	(Co-)combustion of additives, water hyacinth and sewage sludge: Thermogravimetric, kinetic, gas and thermodynamic modeling analyses. <i>Waste Management</i> , <b>2018</b> , 81, 211-219	8.6	27
33	Thermogravimetric Analysis of Textile Dyeing Sludge (TDS) in N <sub>2</sub> /CO <sub>2</sub> /O <sub>2</sub> Atmospheres and its Combustion Model with Coal. <i>Water Environment Research</i> , <b>2018</b> , 90, 30-41	2.8	5
32	Interaction effects of chlorine and phosphorus on thermochemical behaviors of heavy metals during incineration of sulfur-rich textile dyeing sludge. <i>Chemical Engineering Journal</i> , <b>2018</b> , 351, 897-911	14.7	42
31	Combustion behaviors of spent mushroom substrate using TG-MS and TG-FTIR: Thermal conversion, kinetic, thermodynamic and emission analyses. <i>Bioresource Technology</i> , <b>2018</b> , 266, 389-397	11	96
30	The effect of surfactant-assisted ultrasound-ionic liquid pretreatment on the structure and fermentable sugar production of a water hyacinth. <i>Bioresource Technology</i> , <b>2017</b> , 237, 27-30	11	33
29	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. <i>Bioresource Technology</i> , <b>2017</b> , 225, 40-47	11	8
28	Characterization of a thermophilic cellulase from <i>Geobacillus</i> sp. HTA426, an efficient cellulase-producer on alkali pretreated of lignocellulosic biomass. <i>PLoS ONE</i> , <b>2017</b> , 12, e0175004	3.7	35
27	Response surface optimization, modeling and uncertainty analysis of mass loss response of co-combustion of sewage sludge and water hyacinth. <i>Applied Thermal Engineering</i> , <b>2017</b> , 125, 328-335	5.8	25
26	Thermochemical behavior of textile dyeing sludge, paper mill sludge, and their blends during (co-)combustion. <i>Thermochimica Acta</i> , <b>2017</b> , 655, 101-105	2.9	6
25	Investigation of co-combustion characteristics of sewage sludge and coffee grounds mixtures using thermogravimetric analysis coupled to artificial neural networks modeling. <i>Bioresource Technology</i> , <b>2017</b> , 225, 234-245	11	82
24	Experimental investigation of synthetic gas composition in a two-stage fluidized bed gasification process: effect of activated carbon as bed material. <i>Environmental Technology (United Kingdom)</i> , <b>2017</b> , 38, 1169-1175	2.6	0
23	Spent mushroom substrate biochar as a potential amendment in pig manure and rice straw composting processes. <i>Environmental Technology (United Kingdom)</i> , <b>2017</b> , 38, 1765-1769	2.6	14
22	The effect of additives on migration and transformation of gaseous pollutants in the vacuum pyrolysis process of waste printed circuit boards. <i>Waste Management and Research</i> , <b>2017</b> , 35, 190-199	4	6
21	Thermogravimetric characteristics of textile dyeing sludge, coal and their blend in N <sub>2</sub> /O <sub>2</sub> and CO <sub>2</sub> /O <sub>2</sub> atmospheres. <i>Applied Thermal Engineering</i> , <b>2017</b> , 111, 87-94	5.8	40
20	Impact of surfactant type for ionic liquid pretreatment on enhancing delignification of rice straw. <i>Bioresource Technology</i> , <b>2017</b> , 227, 388-392	11	49
19	Kinetics of coffee industrial residue pyrolysis using distributed activation energy model and components separation of bio-oil by sequencing temperature-raising pyrolysis. <i>Bioresource Technology</i> , <b>2016</b> , 221, 534-540	11	17
18	Combined effects of FeCl <sub>3</sub> and CaO conditioning on SO <sub>2</sub> , HCl and heavy metals emissions during the DDSS incineration. <i>Chemical Engineering Journal</i> , <b>2016</b> , 299, 449-458	14.7	55
17	Degradation of polycyclic aromatic hydrocarbons (PAHs) in textile dyeing sludge with ultrasound and Fenton processes: Effect of system parameters and synergistic effect study. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 307, 7-16	12.8	48

16	Thermodynamics and kinetics parameters of co-combustion between sewage sludge and water hyacinth in CO <sub>2</sub> /O <sub>2</sub> atmosphere as biomass to solid biofuel. <i>Bioresource Technology</i> , <b>2016</b> , 218, 631-42	11	103
15	Thermodynamic Equilibrium Calculations on Cd Transformation during Sewage Sludge Incineration. <i>Water Environment Research</i> , <b>2016</b> , 88, 548-56	2.8	7
14	Thermal Behavior of Cd During Sludge Incineration: Experiments and Thermodynamic Equilibrium Model. <i>Water Environment Research</i> , <b>2016</b> , 88, 2245-2256	2.8	9
13	Synergistic effects of surfactant-assisted ionic liquid pretreatment rice straw. <i>Bioresource Technology</i> , <b>2016</b> , 214, 371-375	11	37
12	Variational Characteristics and Implications of Gaseous Elemental Mercury for Three Continuous Typhoons in China. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2016</b> , 70, 692-9	3.2	2
11	Effect of K <sub>2</sub> FeO <sub>4</sub> /US treatment on textile dyeing sludge disintegration and dewaterability. <i>Journal of Environmental Management</i> , <b>2015</b> , 162, 81-6	7.9	12
10	Enhanced dewaterability of textile dyeing sludge using micro-electrolysis pretreatment. <i>Journal of Environmental Management</i> , <b>2015</b> , 161, 181-187	7.9	25
9	Effects of sulfur on lead partitioning during sludge incineration based on experiments and thermodynamic calculations. <i>Waste Management</i> , <b>2015</b> , 38, 336-48	8.6	28
8	Fate of volatile aromatic hydrocarbons in the wastewater from six textile dyeing wastewater treatment plants. <i>Chemosphere</i> , <b>2015</b> , 136, 50-5	8.4	21
7	Heavy metal removal from MSS fly ash by thermal and chlorination treatments. <i>Scientific Reports</i> , <b>2015</b> , 5, 17270	4.9	19
6	An experimental and thermodynamic equilibrium investigation of the Pb, Zn, Cr, Cu, Mn and Ni partitioning during sewage sludge incineration. <i>Journal of Environmental Sciences</i> , <b>2015</b> , 35, 43-54	6.4	58
5	Effect of different sulfides on cadmium distribution during sludge combustion based on experimental and thermodynamic calculation approaches. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 1113-26	5.1	15
4	Levels, composition profiles and risk assessment of polycyclic aromatic hydrocarbons (PAHs) in sludge from ten textile dyeing plants. <i>Environmental Research</i> , <b>2014</b> , 132, 112-8	7.9	85
3	Study of the heavy metals residual in the incineration slag of textile dyeing sludge. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2014</b> , 45, 1814-1820	5.3	41
2	Study on Polypropylene Matrix Composites Filled with Glass Fiber Recycled from Waste Printed Circuit Board <b>2011</b> ,		2
1	Degradation of NiEDTA complex by Fenton reaction and ultrasonic treatment for the removal of Ni <sup>2+</sup> ions. <i>Environmental Chemistry Letters</i> , <b>2010</b> , 8, 317-322	13.3	27