

Shuiyu Sun

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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.

84
papers

2,045
citations

25
h-index

42
g-index

87
ext. papers

2,619
ext. citations

8
avg, IF

5.13
L-index

#	Paper	IF	Citations
84	Using vacuum pyrolysis and mechanical processing for recycling waste printed circuit boards. <i>Journal of Hazardous Materials</i> , 2010 , 177, 626-32	12.8	133
83	Thermodynamics and kinetics parameters of co-combustion between sewage sludge and water hyacinth in CO ₂ /O ₂ atmosphere as biomass to solid biofuel. <i>Bioresource Technology</i> , 2016 , 218, 631-42	11	103
82	A rapid Fenton treatment technique for sewage sludge dewatering. <i>Chemical Engineering Journal</i> , 2015 , 269, 391-398	14.7	86
81	Co-combustion thermal conversion characteristics of textile dyeing sludge and pomelo peel using TGA and artificial neural networks. <i>Applied Energy</i> , 2018 , 212, 786-795	10.7	85
80	Dewaterability of five sewage sludges in Guangzhou conditioned with Fenton's reagent/lime and pilot-scale experiments using ultrahigh pressure filtration system. <i>Water Research</i> , 2015 , 84, 243-54	12.5	82
79	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> , 2017 , 225, 234-245	11	82
78	Removal of metals from lead-zinc mine tailings using bioleaching and followed by sulfide precipitation. <i>Chemosphere</i> , 2017 , 185, 1189-1196	8.4	79
77	Co-pyrolytic mechanisms, kinetics, emissions and products of biomass and sewage sludge in N ₂ , CO ₂ and mixed atmospheres. <i>Chemical Engineering Journal</i> , 2020 , 397, 125372	14.7	69
76	Influence of catalysts on co-combustion of sewage sludge and water hyacinth blends as determined by TG-MS analysis. <i>Bioresource Technology</i> , 2018 , 247, 217-225	11	68
75	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> , 2015 , 35, 43-54	6.4	58
74	Role of organic compounds from different EPS fractions and their effect on sludge dewaterability by combining anaerobically mesophilic digestion pre-treatment and Fenton's reagent/lime. <i>Chemical Engineering Journal</i> , 2017 , 321, 123-138	14.7	56
73	Combined effects of FeCl ₃ and CaO conditioning on SO ₂ , HCl and heavy metals emissions during the DDSS incineration. <i>Chemical Engineering Journal</i> , 2016 , 299, 449-458	14.7	55
72	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> , 2018 , 250, 230-238	11	55
71	Bioleaching combined brine leaching of heavy metals from lead-zinc mine tailings: Transformations during the leaching process. <i>Chemosphere</i> , 2017 , 168, 1115-1125	8.4	53
70	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> , 2018 , 358, 441-449	12.8	50
69	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> , 2018 , 255, 88-95	11	48
68	Thermogravimetric characteristics of textile dyeing sludge, coal and their blend in N ₂ /O ₂ and CO ₂ /O ₂ atmospheres. <i>Applied Thermal Engineering</i> , 2017 , 111, 87-94	5.8	40

67	A highly efficient conditioning process to improve sludge dewaterability by combining calcium hypochlorite oxidation, ferric coagulant re-flocculation, and walnut shell skeleton construction. <i>Chemical Engineering Journal</i> , 2019 , 361, 1462-1478	14.7	40
66	Thermogravimetric analysis of (co-)combustion of oily sludge and litchi peels: combustion characterization, interactions and kinetics. <i>Thermochimica Acta</i> , 2018 , 667, 207-218	2.9	38
65	Assessing thermal behaviors and kinetics of (co-)combustion of textile dyeing sludge and sugarcane bagasse. <i>Applied Thermal Engineering</i> , 2018 , 131, 874-883	5.8	36
64	Quantifying thermal decomposition regimes of textile dyeing sludge, pomelo peel, and their blends. <i>Renewable Energy</i> , 2018 , 122, 55-64	8.1	34
63	Thermal conversion behaviors and products of spent mushroom substrate in CO ₂ and N ₂ atmospheres: Kinetic, thermodynamic, TG and Py-GC/MS analyses. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 139, 177-186	6	27
62	Analysis of the relationship of extracellular polymeric substances to the dewaterability and rheological properties of sludge treated by acidification and anaerobic mesophilic digestion. <i>Journal of Hazardous Materials</i> , 2019 , 369, 31-39	12.8	27
61	Improving sewage sludge dewaterability with rapid and cost-effective in-situ generation of Fe ²⁺ combined with oxidants. <i>Chemical Engineering Journal</i> , 2020 , 380, 122499	14.7	27
60	(Co-)combustion of additives, water hyacinth and sewage sludge: Thermogravimetric, kinetic, gas and thermodynamic modeling analyses. <i>Waste Management</i> , 2018 , 81, 211-219	8.6	27
59	The mixture of sewage sludge and biomass waste as solid biofuels: Process characteristic and environmental implication. <i>Renewable Energy</i> , 2019 , 139, 707-717	8.1	23
58	The effects of activated Al ₂ O ₃ on the recycling of light oil from the catalytic pyrolysis of waste printed circuit boards. <i>Chemical Engineering Research and Design</i> , 2015 , 98, 276-284	5.5	23
57	Bioleaching for detoxification of waste flotation tailings: Relationship between EPS substances and bioleaching behavior. <i>Journal of Environmental Management</i> , 2021 , 279, 111795	7.9	21
56	Evaluation of the dewaterability, heavy metal toxicity and phytotoxicity of sewage sludge in different advanced oxidation processes. <i>Journal of Cleaner Production</i> , 2020 , 265, 121839	10.3	20
55	Synergistic reutilization of red mud and spent pot lining for recovering valuable components and stabilizing harmful element. <i>Journal of Cleaner Production</i> , 2020 , 243, 118624	10.3	20
54	Oxidation of potassium n -butyl xanthate with ozone: Products and pathways. <i>Journal of Cleaner Production</i> , 2016 , 139, 287-294	10.3	19
53	Thermogravimetric and mass-spectrometric analyses of combustion of spent potlining under N ₂ /O ₂ and CO ₂ /O ₂ atmospheres. <i>Waste Management</i> , 2019 , 87, 237-249	8.6	19
52	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> , 2019 , 221, 563-572	8.4	19
51	Concentrations of Heavy Metals in Six Municipal Sludges from Guangzhou and Their Potential Ecological Risk Assessment for Agricultural Land Use. <i>Polish Journal of Environmental Studies</i> , 2015 , 24, 165-174	2.3	18
50	Mechanism of zero valent iron and anaerobic mesophilic digestion combined with hydrogen peroxide pretreatment to enhance sludge dewaterability: Relationship between soluble EPS and rheological behavior. <i>Chemosphere</i> , 2020 , 247, 125859	8.4	18

49	Comprehensive insights into the inorganic coagulants on sludge dewatering: comparing aluminium and iron salts. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 1534-1550	3.5	18
48	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> , 2016 , 221, 534-540	11	17
47	Production of lead concentrate from bioleached residue tailings by brine leaching followed by sulfide precipitation. <i>Separation and Purification Technology</i> , 2017 , 183, 366-372	8.3	16
46	Ultrasonic coupled bioleaching pretreatment for enhancing sewage sludge dewatering: Simultaneously mitigating antibiotic resistant genes and changing microbial communities. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 193, 110349	7	16
45	Removal performances and mechanisms of action towards ethylenediaminetetraacetic acid nickel (II) salt by dithiocarbamate compounds having different carbon chain lengths. <i>Journal of Cleaner Production</i> , 2016 , 122, 308-314	10.3	16
44	A new strategy on biomining of low grade base-metal sulfide tailings. <i>Bioresource Technology</i> , 2019 , 294, 122187	11	16
43	Oxidation of aniline aerofloat in flotation wastewater by sodium hypochlorite solution. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 785-92	5.1	15
42	High-level waste activated sludge dewaterability using Fenton-like process based on pretreated zero valent scrap iron as an in-situ cycle iron donator. <i>Journal of Hazardous Materials</i> , 2020 , 391, 122219	12.8	15
41	Effects of toxic organic flotation reagent (aniline aerofloat) on an A/O submerged membrane bioreactor (SMBR): Microbial community dynamics and performance. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 142, 14-21	7	14
40	Improvement of pyrolysis oil obtained from co-pyrolysis of WPCBs and compound additive during two stage pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 135, 415-421	6	14
39	Performance of the heavy fraction of pyrolysis oil derived from waste printed circuit boards in modifying asphalt. <i>Journal of Environmental Management</i> , 2013 , 126, 1-6	7.9	13
38	Production and characterization of polypropylene composites filled with glass fibre recycled from pyrolysed waste printed circuit boards. <i>Environmental Technology (United Kingdom)</i> , 2014 , 35, 2743-51	2.6	12
37	Heterogeneous fenton-like degradation of amoxicillin using MOF-derived FeO embedded in mesoporous carbon as an effective catalyst. <i>Journal of Cleaner Production</i> , 2021 , 313, 127754	10.3	12
36	Improved methods to determine the electrochemical Peltier heat using a thermistor II: Extremum and optimization methods. <i>Journal of Electroanalytical Chemistry</i> , 1995 , 392, 21-25	4.1	11
35	Decomplexation of heterogeneous catalytic ozonation assisted with heavy metal chelation for advanced treatment of coordination complexes of Ni. <i>Science of the Total Environment</i> , 2020 , 732, 139223	10.2	10
34	Improved methods to determine the electrochemical Peltier heat using a thermistor I: Improved heat-sensor electrodes and lumped-heat-capacity analysis. <i>Journal of Electroanalytical Chemistry</i> , 1995 , 392, 13-19	4.1	10
33	Electrokinetic-enhanced remediation of actual arsenic-contaminated soils with approaching cathode and FeO permeable reactive barrier. <i>Journal of Soils and Sediments</i> , 2020 , 20, 1526-1533	3.4	10
32	Synthesis of magnetic dithiocarbamate chelating resin and its absorption behavior for ethylenediaminetetraacetic acid copper. <i>Chemical Engineering Research and Design</i> , 2019 , 123, 130-139	5.5	10

31	The debrominated and lightweight oil generated from two stage pyrolysis of WPCBs by using compound chemical additives. <i>Chemical Engineering Research and Design</i> , 2018 , 116, 654-662	5.5	10
30	Thermal Behavior of Cd During Sludge Incineration: Experiments and Thermodynamic Equilibrium Model. <i>Water Environment Research</i> , 2016 , 88, 2245-2256	2.8	9
29	Continuous treatment of flotation collector wastewater using a membrane bioreactor. <i>Water Science and Technology</i> , 2016 , 73, 1901-9	2.2	9
28	Novel insight into sludge dewaterability mechanism using polymeric aluminium ferric chloride and anaerobic mesophilic digestion treatment under ultrahigh pressure condition. <i>Separation and Purification Technology</i> , 2020 , 234, 116137	8.3	8
27	In situ electrokinetic (EK) remediation of the total and plant available cadmium (Cd) in paddy agricultural soil using low voltage gradients at pilot and full scales. <i>Science of the Total Environment</i> , 2021 , 785, 147277	10.2	8
26	Research on magnetic separation for complex nickel deep removal and magnetic seed recycling. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 9294-9304	5.1	7
25	Thermodynamic behaviors of Cu in interaction with chlorine, sulfur, phosphorus and minerals during sewage sludge co-incineration. <i>Chinese Journal of Chemical Engineering</i> , 2018 , 26, 1160-1170	3.2	7
24	Thermodynamic Equilibrium Calculations on Cd Transformation during Sewage Sludge Incineration. <i>Water Environment Research</i> , 2016 , 88, 548-56	2.8	7
23	Arsenic Partitioning Behavior During Sludge Co-combustion: Thermodynamic Equilibrium Simulation. <i>Waste and Biomass Valorization</i> , 2019 , 10, 2297-2307	3.2	7
22	Simultaneous recovery of valuable metal ions and tailings toxicity reduction using a mixed culture bioleaching process. <i>Journal of Cleaner Production</i> , 2021 , 316, 128319	10.3	7
21	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> , 2017 , 35, 190-199	4	6
20	Torrefaction, temperature, and heating rate dependencies of pyrolysis of coffee grounds: Its performances, bio-oils, and emissions. <i>Bioresource Technology</i> , 2021 , 345, 126346	11	6
19	Simultaneous and efficient removal of organic Ni and Cu complexes from electroless plating effluent using integrated catalytic ozonation and chelating precipitation process in a continuous pilot-scale system. <i>Chemical Engineering Journal</i> , 2022 , 428, 131250	14.7	6
18	Enhanced sludge dewaterability by a novel MnFe ₂ O ₄ -Biochar activated peroxymonosulfate process combined with Tannic acid. <i>Chemical Engineering Journal</i> , 2022 , 429, 132280	14.7	6
17	Optimization of kinetics and operating parameters for the bioleaching of heavy metals from sewage sludge, using co-inoculation of two <i>Acidithiobacillus</i> species. <i>Water Science and Technology</i> , 2018 , 2017, 390-403	2.2	5
16	Disodium N,N-bis-(dithiocarboxy)ethanediamine: synthesis, performance, and mechanism of action toward trace ethylenediaminetetraacetic acid copper (II). <i>Environmental Science and Pollution Research</i> , 2016 , 23, 19696-706	5.1	5
15	Thermogravimetric Analysis of Textile Dyeing Sludge (TDS) in N ₂ /CO ₂ /O ₂ Atmospheres and its Combustion Model with Coal. <i>Water Environment Research</i> , 2018 , 90, 30-41	2.8	5
14	Dewaterability improvement and environmental risk mitigation of waste activated sludge using peroxymonosulfate activated by zero-valent metals: Fe vs. Al. <i>Chemosphere</i> , 2021 , 280, 130686	8.4	5

13	Study on vacuum pyrolysis of coffee industrial residue for bio-oil production. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017 , 59, 012065	0.3	4
12	Effect of diurnal temperature range on bioleaching of sulfide ore by an artificial microbial consortium. <i>Science of the Total Environment</i> , 2022 , 806, 150234	10.2	3
11	Evaluating the primary and ready biodegradability of dianilinodithiophosphoric acid. <i>Environmental Monitoring and Assessment</i> , 2016 , 188, 232	3.1	2
10	Study on Polypropylene Matrix Composites Filled with Glass Fiber Recycled from Waste Printed Circuit Board 2011 ,		2
9	Calcium oxide modification of activated sludge as a low-cost adsorbent: Preparation and application in Cd(II) removal. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 209, 111760	7	2
8	Hydrophobicity-hydrophilicity balance relationships for collectorless flotation of sulphide minerals. <i>Central South University</i> , 1994 , 1, 68-73		1
7	A high-efficiency process for the separation of chromium and aluminum from waste aluminum sludge with a high chromium content using a combined oxidation and dispersion process. <i>Separation and Purification Technology</i> , 2021 , 258, 118083	8.3	1
6	Preparation of High-Performance Activated Carbon from Coffee Grounds after Extraction of Bio-Oil. <i>Molecules</i> , 2021 , 26,	4.8	1
5	Calcium oxide-modified activated sludge as a low-cost biomass adsorbent for Cd(II) removal in aqueous solution: biosorption behavior and mechanism. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	1
4	High-efficiency treatment of electroless nickel plating effluent using core-shell MnFeO-C@AlO combined with ozonation: Performance and mechanism.. <i>Journal of Hazardous Materials</i> , 2022 , 433, 128768 ^{12.8}		1
3	Feasibility of reduced iron species for promoting Li and Co recovery from spent LiCoO batteries using a mixed-culture bioleaching process.. <i>Science of the Total Environment</i> , 2022 , 830, 154577	10.2	1
2	A designed moderately thermophilic consortia with a better performance for leaching high grade fine lead-zinc sulfide ore. <i>Journal of Environmental Management</i> , 2021 , 303, 114192	7.9	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.. <i>Journal of Hazardous Materials</i> , 2022 , 435, 129007	12.8	0