Shuiyu Sun

List of Publications by Year
in descending order

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87 papers	3,250 citations	126708 33 h-index	168136 53 g-index
87 all docs	87 docs citations	87 times ranked	2403 citing authors

#	Article	IF	Citations
1	Using vacuum pyrolysis and mechanical processing for recycling waste printed circuit boards. Journal of Hazardous Materials, 2010, 177, 626-632.	6.5	166
2	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, 631-642.	4.8	149
3	Co-combustion thermal conversion characteristics of textile dyeing sludge and pomelo peel using TGA and artificial neural networks. Applied Energy, 2018, 212, 786-795.	5.1	132
4	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.	4.8	123
5	Dewaterability of five sewage sludges in Guangzhou conditioned with Fenton's reagent/lime and pilot-scale experiments using ultrahigh pressure filtration system. Water Research, 2015, 84, 243-254.	5.3	110
6	Removal of metals from lead-zinc mine tailings using bioleaching and followed by sulfide precipitation. Chemosphere, 2017, 185, 1189-1196.	4.2	108
7	A rapid Fenton treatment technique for sewage sludge dewatering. Chemical Engineering Journal, 2015, 269, 391-398.	6.6	106
8	Co-pyrolytic mechanisms, kinetics, emissions and products of biomass and sewage sludge in N2, CO2 and mixed atmospheres. Chemical Engineering Journal, 2020, 397, 125372.	6.6	103
9	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.	4.8	92
10	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.	6.5	85
11	Co-combustion of sewage sludge and coffee grounds under increased O2/CO2 atmospheres: Thermodynamic characteristics, kinetics and artificial neural network modeling. Bioresource Technology, 2018, 250, 230-238.	4.8	80
12	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.	3.2	76
13	Bioleaching combined brine leaching of heavy metals from lead-zinc mine tailings: Transformations during the leaching process. Chemosphere, 2017, 168, 1115-1125.	4.2	73
14	A highly efficient conditioning process to improve sludge dewaterability by combining calcium hypochlorite oxidation, ferric coagulant re-flocculation, and walnut shell skeleton construction. Chemical Engineering Journal, 2019, 361, 1462-1478.	6.6	72
15	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.	6.6	70
16	Role of organic compounds from different EPS fractions and their effect on sludge dewaterability by combining anaerobically mesophilic digestion pre-treatment and Fentonâ€™s reagent/lime. Chemical Engineering Journal, 2017, 321, 123-138.	6.6	70
17	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.	4.8	69
18	Thermogravimetric analysis of (co-)combustion of oily sludge and litchi peels: combustion characterization, interactions and kinetics. Thermochimica Acta, 2018, 667, 207-218.	1.2	59

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19	Improving sewage sludge dewaterability with rapid and cost-effective in-situ generation of Fe2+ combined with oxidants. Chemical Engineering Journal, 2020, 380, 122499.	6.6	59
20	Thermogravimetric characteristics of textile dyeing sludge, coal and their blend in N2/O2 and CO2/O2 atmospheres. Applied Thermal Engineering, 2017, 111, 87-94.	3.0	55
21	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.	2.6	55
22	Assessing thermal behaviors and kinetics of (co-)combustion of textile dyeing sludge and sugarcane bagasse. Applied Thermal Engineering, 2018, 131, 874-883.	3.0	50
23	Quantifying thermal decomposition regimes of textile dyeing sludge, pomelo peel, and their blends. Renewable Energy, 2018, 122, 55-64.	4.3	46
24	Torrefaction, temperature, and heating rate dependencies of pyrolysis of coffee grounds: Its performances, bio-oils, and emissions. Bioresource Technology, 2022, 345, 126346.	4.8	46
25	Enhanced sludge dewaterability by a novel MnFe2O4-Biochar activated peroxymonosulfate process combined with Tannic acid. Chemical Engineering Journal, 2022, 429, 132280.	6.6	45
26	Analysis of the relationship of extracellular polymeric substances to the dewaterability and rheological properties of sludge treated by acidification and anaerobic mesophilic digestion. Journal of Hazardous Materials, 2019, 369, 31-39.	6.5	44
27	Bioleaching for detoxification of waste flotation tailings: Relationship between EPS substances and bioleaching behavior. Journal of Environmental Management, 2021, 279, 111795.	3.8	43
28	Synergistic reutilization of red mud and spent pot lining for recovering valuable components and stabilizing harmful element. Journal of Cleaner Production, 2020, 243, 118624.	4.6	41
29	Ultrasonic coupled bioleaching pretreatment for enhancing sewage sludge dewatering: Simultaneously mitigating antibiotic resistant genes and changing microbial communities. Ecotoxicology and Environmental Safety, 2020, 193, 110349.	2.9	41
30	Comprehensive insights into the inorganic coagulants on sludge dewatering: comparing aluminium and iron salts. Journal of Chemical Technology and Biotechnology, 2019, 94, 1534-1550.	1.6	39
31	Heterogeneous fenton-like degradation of amoxicillin using MOF-derived Fe0 embedded in mesoporous carbon as an effective catalyst. Journal of Cleaner Production, 2021, 313, 127754.	4.6	39
32	Thermogravimetric and mass-spectrometric analyses of combustion of spent potlining under N2/O2 and CO2/O2 atmospheres. Waste Management, 2019, 87, 237-249.	3.7	37
33	(Co-)combustion of additives, water hyacinth and sewage sludge: Thermogravimetric, kinetic, gas and thermodynamic modeling analyses. Waste Management, 2018, 81, 211-219.	3.7	36
34	Evaluation of the dewaterability, heavy metal toxicity and phytotoxicity of sewage sludge in different advanced oxidation processes. Journal of Cleaner Production, 2020, 265, 121839.	4.6	36
35	Improvement of pyrolysis oil obtained from co-pyrolysis of WPCBs and compound additive during two stage pyrolysis. Journal of Analytical and Applied Pyrolysis, 2018, 135, 415-421.	2.6	32
36	The effects of activated Al2O3 on the recycling of light oil from the catalytic pyrolysis of waste printed circuit boards. Chemical Engineering Research and Design, 2015, 98, 276-284.	2.7	31

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37	Oxidation of potassium n-butyl xanthate with ozone: Products and pathways. Journal of Cleaner Production, 2016, 139, 287-294.	4.6	31
38	The mixture of sewage sludge and biomass waste as solid biofuels: Process characteristic and environmental implication. Renewable Energy, 2019, 139, 707-717.	4.3	31
39	Decomposition of Nickel(â…¡)â^'Ethylenediaminetetraacetic acid by Fentonâ^'Like reaction over oxygen vacancies-based Cuâ^'Doped Fe3O4@Î³â^'Al2O3 catalyst: A synergy of oxidation and adsorption. Chemosphere, 2019, 221, 563-572.	4.2	29
40	Removal performances and mechanisms of action towards ethylenediaminetetraacetic acid nickel (II) salt by dithiocarbamate compounds having different carbon chain lengths. Journal of Cleaner Production, 2016, 122, 308-314.	4.6	28
41	A new strategy on biomining of low grade base-metal sulfide tailings. Bioresource Technology, 2019, 294, 122187.	4.8	28
42	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. Chemosphere, 2020, 247, 125859.	4.2	28
43	High-level waste activated sludge dewaterability using Fenton-like process based on pretreated zero valent scrap iron as an in-situ cycle iron donator. Journal of Hazardous Materials, 2020, 391, 122219.	6.5	27
44	Concentrations of Heavy Metals in Six Municipal Sludges from Guangzhou and Their Potential Ecological Risk Assessment for Agricultural Land Use. Polish Journal of Environmental Studies, 2015, 24, 165-174.	0.6	26
45	Simultaneous recovery of valuable metal ions and tailings toxicity reduction using a mixed culture bioleaching process. Journal of Cleaner Production, 2021, 316, 128319.	4.6	26
46	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.	6.5	26
47	Oxidation of aniline aerofloat in flotation wastewater by sodium hypochlorite solution. Environmental Science and Pollution Research, 2016, 23, 785-792.	2.7	24
48	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. Science of the Total Environment, 2021, 785, 147277.	3.9	24
49	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.	4.8	22
50	Electrokinetic-enhanced remediation of actual arsenic-contaminated soils with approaching cathode and Fe0 permeable reactive barrier. Journal of Soils and Sediments, 2020, 20, 1526-1533.	1.5	22
51	Effects of toxic organic flotation reagent (aniline aerofloat) on an A/O submerged membrane bioreactor (sMBR): Microbial community dynamics and performance. Ecotoxicology and Environmental Safety, 2017, 142, 14-21.	2.9	21
52	Production of lead concentrate from bioleached residue tailings by brine leaching followed by sulfide precipitation. Separation and Purification Technology, 2017, 183, 366-372.	3.9	21
53	Performance of the heavy fraction of pyrolysis oil derived from wasteÂprinted circuit boards in modifying asphalt. Journal of Environmental Management, 2013, 126, 1-6.	3.8	18
54	Decomplexation of heterogeneous catalytic ozonation assisted with heavy metal chelation for advanced treatment of coordination complexes of Ni. Science of the Total Environment, 2020, 732, 139223.	3.9	18

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55	The debrominated and lightweight oil generated from two stage pyrolysis of WPCBs by using compound chemical additives. Chemical Engineering Research and Design, 2018, 116, 654-662.	2.7	17
56	High-efficiency treatment of electroless nickel plating effluent using core-shell MnFe2O4-C@Al2O3 combined with ozonation: Performance and mechanism. Journal of Hazardous Materials, 2022, 433, 128768.	6.5	17
57	Production and characterization of polypropylene composites filled with glass fibre recycled from pyrolysed waste printed circuit boards. Environmental Technology (United Kingdom), 2014, 35, 2743-2751.	1.2	15
58	Dewaterability improvement and environmental risk mitigation of waste activated sludge using peroxymonosulfate activated by zero-valent metals: Fe0 vs. Al0. Chemosphere, 2021, 280, 130686.	4.2	15
59	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. Chemical Engineering Journal, 2022, 428, 131250.	6.6	15
60	Synthesis of magnetic dithiocarbamate chelating resin and its absorption behavior for ethylenediaminetetraacetic acid copper. Chemical Engineering Research and Design, 2019, 123, 130-139.	2.7	13
61	Improved methods to determine the electrochemical Peltier heat using a thermistor I: Improved heat-sensor electrodes and lumped-heat-capacity analysis. Journal of Electroanalytical Chemistry, 1995, 392, 13-19.	1.9	12
62	Improved methods to determine the electrochemical Peltier heat using a thermistor II: Extremum and optimization methods. Journal of Electroanalytical Chemistry, 1995, 392, 21-25.	1.9	12
63	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.	2.2	12
64	Novel insight into sludge dewaterability mechanism using polymeric aluminium ferric chloride and anaerobic mesophilic digestion treatment under ultrahigh pressure condition. Separation and Purification Technology, 2020, 234, 116137.	3.9	11
65	Feasibility of reduced iron species for promoting Li and Co recovery from spent LiCoO2 batteries using a mixed-culture bioleaching process. Science of the Total Environment, 2022, 830, 154577.	3.9	11
66	Continuous treatment of flotation collector wastewater using a membrane bioreactor. Water Science and Technology, 2016, 73, 1901-1909.	1.2	10
67	Thermodynamic Equilibrium Calculations on Cd Transformation during Sewage Sludge Incineration. Water Environment Research, 2016, 88, 548-556.	1.3	9
68	Thermal Behavior of Cd During Sludge Incineration: Experiments and Thermodynamic Equilibrium Model. Water Environment Research, 2016, 88, 2245-2256.	1.3	9
69	Disodium N,N-bis-(dithiocarboxy)ethanediamine: synthesis, performance, and mechanism of action toward trace ethylenediaminetetraacetic acid copper (II). Environmental Science and Pollution Research, 2016, 23, 19696-19706.	2.7	9
70	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.	1.7	9
71	Arsenic Partitioning Behavior During Sludge Co-combustion: Thermodynamic Equilibrium Simulation. Waste and Biomass Valorization, 2019, 10, 2297-2307.	1.8	9
72	Calcium oxide modification of activated sludge as a low-cost adsorbent: Preparation and application in Cd(II) removal. Ecotoxicology and Environmental Safety, 2021, 209, 111760.	2.9	9

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73	Research on magnetic separation for complex nickel deep removal and magnetic seed recycling. Environmental Science and Pollution Research, 2017, 24, 9294-9304.	2.7	8
74	Enhanced Electrokinetic Remediation of Cadmium (Cd)-Contaminated Soil with Interval Power Breaking. International Journal of Environmental Research, 2022, 16, .	1.1	8
75	Optimization of kinetics and operating parameters for the bioleaching of heavy metals from sewage sludge, using co-inoculation of two Acidithiobacillus species. Water Science and Technology, 2018, 2017, 390-403.	1.2	7
76	Evaluating the primary and ready biodegradability of dianilinodithiophosphoric acid. Environmental Monitoring and Assessment, 2016, 188, 232.	1.3	6
77	Thermogravimetric Analysis of Textile Dyeing Sludge (TDS) in N2/CO2/O2 Atmospheres and its Combustion Model with Coal. Water Environment Research, 2018, 90, 30-41.	1.3	6
78	Effect of diurnal temperature range on bioleaching of sulfide ore by an artificial microbial consortium. Science of the Total Environment, 2022, 806, 150234.	3.9	6
79	Preparation of High-Performance Activated Carbon from Coffee Grounds after Extraction of Bio-Oil. Molecules, 2021, 26, 257.	1.7	5
80	Calcium oxide-modified activated sludge as a low-cost biomass adsorbent for Cd(II) removal in aqueous solution: biosorption behavior and mechanism. Biomass Conversion and Biorefinery, 2023, 13, 8915-8925.	2.9	5
81	Study on vacuum pyrolysis of coffee industrial residue for bio-oil production. IOP Conference Series: Earth and Environmental Science, 2017, 59, 012065.	0.2	4
82	A designed moderately thermophilic consortia with a better performance for leaching high grade fine lead-zinc sulfide ore. Journal of Environmental Management, 2022, 303, 114192.	3.8	4
83	Experimental Study on Using Precipitation Flotation Process to Treat Electroplating Wastewater. , 2010, , .		3
84	Hydrophobicity-hydrophilicity balance relationships for collectorless flotation of sulphide minerals. Central South University, 1994, 1, 68-73.	0.5	2
85	Study on Polypropylene Matrix Composites Filled with Glass Fiber Recycled from Waste Printed Circuit Board. , 2011, , .		2
86	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. Separation and Purification Technology, 2021, 258, 118083.	3.9	2
87	Content and Chemical Speciations of Cu, Zn, Pb, Cr, Ni and Mn in Sewage Sludge from Guangzhou, China. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0