

Shuiyu Sun

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.

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 | 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 |
| 83 | 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 |
| 82 | 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 |
| 81 | 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 |
| 80 | 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 |
| 79 | 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 |
| 78 | 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 |
| 77 | 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 |
| 76 | 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 |
| 75 | Preparation of High-Performance Activated Carbon from Coffee Grounds after Extraction of Bio-Oil. <i>Molecules</i> , 2021 , 26, | 4.8 | 1 |
| 74 | 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 |
| 73 | 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 |
| 72 | 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 |
| 71 | Heterogeneous fenton-like degradation of amoxicillin using MOF-derived Fe ₀ embedded in mesoporous carbon as an effective catalyst. <i>Journal of Cleaner Production</i> , 2021 , 313, 127754 | 10.3 | 12 |
| 70 | 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 |
| 69 | 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 |
| 68 | 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 |

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| 67 | 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 |
| 66 | 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 |
| 65 | High-level waste activated sludge dewaterability using Fenton-like process based on pretreated zero valent scrap iron as an in-situ cycle iron donor. <i>Journal of Hazardous Materials</i> , 2020 , 391, 122219 | 12.8 | 15 |
| 64 | 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 |
| 63 | 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 |
| 62 | 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 |
| 61 | 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 |
| 60 | Electrokinetic-enhanced remediation of actual arsenic-contaminated soils with approaching cathode and Fe ₀ permeable reactive barrier. <i>Journal of Soils and Sediments</i> , 2020 , 20, 1526-1533 | 3.4 | 10 |
| 59 | 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 |
| 58 | 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 |
| 57 | 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 |
| 56 | 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 |
| 55 | A new strategy on biomining of low grade base-metal sulfide tailings. <i>Bioresource Technology</i> , 2019 , 294, 122187 | 11 | 16 |
| 54 | Thermogravimetric and mass-spectrometric analyses of combustion of spent potlining under N ₂ and CO ₂ atmospheres. <i>Waste Management</i> , 2019 , 87, 237-249 | 8.6 | 19 |
| 53 | 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 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |

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| 49 | Arsenic Partitioning Behavior During Sludge Co-combustion: Thermodynamic Equilibrium Simulation. <i>Waste and Biomass Valorization</i> , 2019 , 10, 2297-2307 | 3.2 | 7 |
| 48 | 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 |
| 47 | 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 |
| 46 | Quantifying thermal decomposition regimes of textile dyeing sludge, pomelo peel, and their blends. <i>Renewable Energy</i> , 2018 , 122, 55-64 | 8.1 | 34 |
| 45 | 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 |
| 44 | 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 |
| 43 | 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 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 37 | (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 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | 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 |

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| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | Evaluating the primary and ready biodegradability of dianilinodithiophosphoric acid. <i>Environmental Monitoring and Assessment</i> , 2016 , 188, 232 | 3.1 | 2 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |
| 17 | Thermodynamic Equilibrium Calculations on Cd Transformation during Sewage Sludge Incineration. <i>Water Environment Research</i> , 2016 , 88, 548-56 | 2.8 | 7 |
| 16 | Thermal Behavior of Cd During Sludge Incineration: Experiments and Thermodynamic Equilibrium Model. <i>Water Environment Research</i> , 2016 , 88, 2245-2256 | 2.8 | 9 |
| 15 | Continuous treatment of flotation collector wastewater using a membrane bioreactor. <i>Water Science and Technology</i> , 2016 , 73, 1901-9 | 2.2 | 9 |
| 14 | Oxidation of potassium n -butyl xanthate with ozone: Products and pathways. <i>Journal of Cleaner Production</i> , 2016 , 139, 287-294 | 10.3 | 19 |

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| 13 | A rapid Fenton treatment technique for sewage sludge dewatering. <i>Chemical Engineering Journal</i> , 2015 , 269, 391-398 | 14.7 | 86 |
| 12 | 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 |
| 11 | 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 |
| 10 | 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 |
| 9 | 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 |
| 8 | 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 |
| 7 | 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 |
| 6 | Study on Polypropylene Matrix Composites Filled with Glass Fiber Recycled from Waste Printed Circuit Board 2011 , | | 2 |
| 5 | 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 |
| 4 | 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 |
| 3 | 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 |
| 2 | Hydrophobicity-hydrophilicity balance relationships for collectorless flotation of sulphide minerals. <i>Central South University</i> , 1994 , 1, 68-73 | | 1 |
| 1 | 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 |