Lianghu Su

List of Publications by Year
in descending order

28 papers	1,023 citations	430874 18 h-index	501196 28 g-index
28 all docs	28 docs citations	28 times ranked	1073 citing authors

#	Article	IF	Citations
1	Unraveling the catalyzing behaviors of different iron species (Fe2+ vs. Fe0) in activating persulfate-based oxidation process with implications to waste activated sludge dewaterability. Water Research, 2018, 134, 101-114.	11.3	202
2	Stabilization of sewage sludge in the presence of nanoscale zero-valent iron (nZVI): abatement of odor and improvement of biogas production. Journal of Material Cycles and Waste Management, 2013, 15, 461-468.	3.0	118
3	Enhanced phosphate removal using nanostructured hydrated ferric-zirconium binary oxide confined in a polymeric anion exchanger. Chemical Engineering Journal, 2018, 345, 640-647.	12.7	67
4	Effective gel-like floc matrix destruction and water seepage for enhancing waste activated sludge dewaterability under hybrid microwave-initiated Fe(II)-persulfate oxidation process. Chemosphere, 2019, 221, 141-153.	8.2	62
5	Development of nano-CaO2-coated clinoptilolite for enhanced phosphorus adsorption and simultaneous removal of COD and nitrogen from sewage. Chemical Engineering Journal, 2017, 328, 35-43.	12.7	51
6	Characterization of controlled low-strength material obtained from dewatered sludge and refuse incineration bottom ash: Mechanical and microstructural perspectives. Journal of Environmental Management, 2013, 129, 183-189.	7.8	44
7	Performance evaluation of microbial electrochemical systems operated with Nafion and supported ionic liquid membranes. Chemosphere, 2017, 175, 350-355.	8.2	40
8	Development of montmorillonite-supported nano CaO2 for enhanced dewatering of waste-activated sludge by synergistic effects of filtration aid and peroxidation. Chemical Engineering Journal, 2017, 307, 418-426.	12.7	39
9	Inhibitory effects of a shock load of Fe(II)-mediated persulfate oxidation on waste activated sludge anaerobic digestion. Chemical Engineering Journal, 2013, 233, 274-281.	12.7	36
10	Copper leaching of MSWI bottom ash co-disposed with refuse: Effect of short-term accelerated weathering. Waste Management, 2013, 33, 1411-1417.	7.4	35
11	Effects of FeSO4 dosage on nitrogen loss and humification during the composting of cow dung and corn straw. Bioresource Technology, 2021, 341, 125867.	9.6	35
12	Continuous micro-current stimulation to upgrade methanolic wastewater biodegradation and biomethane recovery in an upflow anaerobic sludge blanket (UASB) reactor. Chemosphere, 2017, 180, 229-238.	8.2	33
13	Feasibility of micropollutants removal by solar-activated persulfate: Reactive oxygen species formation and influence on DBPs. Water Research, 2022, 210, 117981.	11.3	33
14	Exploring the potential of iTRAQ proteomics for tracking the transformation of extracellular proteins from enzyme-disintegrated waste activated sludge. Bioresource Technology, 2017, 225, 75-83.	9.6	32
15	The use of the coreâ€“shell structure of zero-valent iron nanoparticles (NZVI) for long-term removal of sulphide in sludge during anaerobic digestion. Environmental Sciences: Processes and Impacts, 2015, 17, 2013-2021.	3.5	31
16	Development of sludge-derived mesoporous material with loaded nano CaO2 and doped Fe for re-utilization of dewatered waste-activated sludge as dewatering aids. Chemical Engineering Journal, 2018, 335, 161-168.	12.7	26
17	Comparison of Biochar Materials Derived from Coconut Husks and Various Types of Livestock Manure, and Their Potential for Use in Removal of H2S from Biogas. Sustainability, 2021, 13, 6262.	3.2	21
18	Performance evaluation of zero-valent iron nanoparticles (NZVI) for high-concentration H₂S removal from biogas at different temperatures. RSC Advances, 2018, 8, 13798-13805.	3.6	20

#	Article	IF	Citations
19	Kinetic removal of acetaminophen and phenacetin during LED-UV365 photolysis of persulfate system: Reactive oxygen species generation. Chemosphere, 2021, 269, 129337.	8.2	20
20	An asymmetric supercapacitor with an interpenetrating crystalline Fe-MOF as the positive electrode and its congenetic derivative as the negative electrode. Inorganic Chemistry Frontiers, 2021, 8, 4878-4886.	6.0	16
21	Chemical reduction of odour in fresh sewage sludge in the presence of ferric hydroxide. Environmental Technology (United Kingdom), 2013, 34, 165-172.	2.2	15
22	Fluorescence characteristics of dissolved organic matter during anaerobic digestion of oil crop straw inoculated with rumen liquid. RSC Advances, 2021, 11, 14347-14356.	3.6	11
23	Insights into the potential release of dissolved organic matter from different agro-forest waste-derived hydrochars: A pilot study. Journal of Cleaner Production, 2021, 319, 128676.	9.3	9
24	Thermophilic Solid-State Anaerobic Digestion of Corn Straw, Cattle Manure, and Vegetable Waste: Effect of Temperature, Total Solid Content, and C/N Ratio. Archaea, 2020, 2020, 1-10.	2.3	8
25	New insight into the role of FDOM in heavy metal leaching behavior from MSWI bottom ash during accelerated weathering using fluorescence EEM-PARAFAC. Waste Management, 2022, 144, 153-162.	7.4	7
26	Crystal boron significantly enhances pollutants removal kinetics by Fe0/PMS system. Separation and Purification Technology, 2022, 292, 121055.	7.9	7
27	Enhanced nutrient removal from lake water via biodegradation of poly(<scp>l</scp>-lactide)/poly(3-hydroxybutyrate-co-4-hydroxybutyrate) blends. RSC Advances, 2016, 6, 6528-6539.	3.6	4
28	Sequestration of Sulphide from Biogas by thermal-treated iron nanoparticles synthesized using tea polyphenols. Environmental Technology (United Kingdom), 2020, 41, 741-750.	2.2	1