Chuan-Shu He

List of Publications by Year
in descending order

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Version: 2024-02-01

29	1,110	471509 17	501196 28
papers	citations	h-index	g-index

29	29	29	1073
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of Molecular Structure on Organic Contaminantsâ€™ Degradation Efficiency and Dominant ROS in the Advanced Oxidation Process with Multiple ROS. Environmental Science & Technology, 2022, 56, 8784-8795.	10.0	161
2	Electron acceptors for energy generation in microbial fuel cells fed with wastewaters: A mini-review. Chemosphere, 2015, 140, 12-17.	8.2	116
3	Impact of zero-valent iron nanoparticles on the activity of anaerobic granular sludge: From macroscopic to microcosmic investigation. Water Research, 2017, 127, 32-40.	11.3	110
4	Synthesis, application and catalytic performance of layered double hydroxide based catalysts in advanced oxidation processes for wastewater decontamination: A review. Chemical Engineering Journal, 2021, 414, 128713.	12.7	96
5	Changing profiles of bound water content and distribution in the activated sludge treatment by NaCl addition and pH modification. Chemosphere, 2017, 186, 702-708.	8.2	74
6	Interactions between nanoscale zero valent iron and extracellular polymeric substances of anaerobic sludge. Water Research, 2020, 178, 115817.	11.3	74
7	Efficient activation of PAA by FeS for fast removal of pharmaceuticals: The dual role of sulfur species in regulating the reactive oxidized species. Water Research, 2022, 217, 118402.	11.3	66
8	Cathode-Introduced Atomic H* for Fe(II)-Complex Regeneration to Effective Electro-Fenton Process at a Natural pH. Environmental Science & Technology, 2019, 53, 6927-6936.	10.0	54
9	Undiscovered Mechanism for Pyrogenic Carbonaceous Matter-Mediated Abiotic Transformation of Azo Dyes by Sulfide. Environmental Science & Technology, 2019, 53, 4397-4405.	10.0	42
10	Facilitated biological reduction of nitroaromatic compounds by reduced graphene oxide and the role of its surface characteristics. Scientific Reports, 2016, 6, 30082.	3.3	34
11	Enhanced hydrodeiodination of iodinated contrast medium by sulfide-modified nano-sized zero-valent iron: Kinetics, mechanisms and application prospects. Chemical Engineering Journal, 2020, 401, 126050.	12.7	31
12	Mixed-culture biocathodes for acetate production from CO2 reduction in the microbial electrosynthesis: Impact of temperature. Science of the Total Environment, 2021, 790, 148128.	8.0	31
13	Bioelectrochemical decolorization of a reactive diazo dye: Kinetics, optimization with a response surface methodology, and proposed degradation pathway. Bioelectrochemistry, 2019, 128, 9-16.	4.6	30
14	Process and kinetics of azo dye decolourization in bioelectrochemical systems: effect of several key factors. Scientific Reports, 2016, 6, 27243.	3.3	20
15	Hydrodynamics of an Electrochemical Membrane Bioreactor. Scientific Reports, 2015, 5, 10387.	3.3	19
16	Aerobic removal of iodinated contrast medium by nano-sized zero-valent iron: A combination of oxidation and reduction. Journal of Hazardous Materials, 2019, 373, 417-424.	12.4	19
17	Surface oxygen vacancies formation on Zn2SnO4 for bisphenol-A degradation under visible light: The tuning effect by peroxymonosulfate. Journal of Hazardous Materials, 2022, 426, 127828.	12.4	19
18	Active N dopant states of electrodes regulate extracellular electron transfer of Shewanella oneidensis MR-1 for bioelectricity generation: Experimental and theoretical investigations. Biosensors and Bioelectronics, 2020, 160, 112231.	10.1	15

#	Article	IF	Citations
19	A modified two-point titration method for the determination of volatile fatty acids in anaerobic systems. Chemosphere, 2018, 204, 251-256.	8.2	14
20	Formation of iodo-trihalomethanes (I-THMs) during disinfection with chlorine or chloramine: Impact of UV/H2O2 pre-oxidation. Science of the Total Environment, 2018, 640-641, 764-771.	8.0	14
21	Dehalogenation of diatrizoate using nanoscale zero-valent iron: impacts of various parameters and assessment of aerobic biological post-treatment. RSC Advances, 2017, 7, 27214-27223.	3.6	12
22	Size-Dependent Response of the Reductive Reactivity of Zerovalent Iron toward the Coexistence of Natural Organic Matter. ACS ES&T Engineering, 2021, 1, 1587-1596.	7.6	12
23	Coexistence of humic acid enhances the reductive removal of diatrizoate via depassivating zero-valent iron under aerobic conditions. Journal of Materials Chemistry A, 2020, 8, 14634-14643.	10.3	11
24	Enhanced reductive reactivity of zero-valent iron (ZVI) for pollutant removal by natural organic matters (NOMs) under aerobic conditions: Correlation between NOM properties and ZVI activity. Science of the Total Environment, 2022, 802, 149812.	8.0	11
25	The maximum specific hydrogen-producing activity of anaerobic mixed cultures: definition and determination. Scientific Reports, 2014, 4, 5239.	3.3	10
26	Insights into short- and long-term effects of loading nickel nanoparticles on anaerobic digestion with flocculent sludge. Environmental Science: Nano, 2019, 6, 2820-2831.	4.3	7
27	Progressive stress response of the anaerobic granular sludge to nickel nanoparticles: experimental investigations and mathematic modelling. Environmental Science: Nano, 2019, 6, 1536-1548.	4.3	6
28	Nano-sized Zero-Valent Iron Coupled with Sulfidation and Ferrous Implantation Enhances the Reductionâ€“Oxidation Removal of Iodinated Contrast Medium. ACS ES&T Water, 2021, 1, 2128-2138.	4.6	2
29	A fixed-point titration method for the determination of ammonium in anaerobic systems. Analytical Methods, 2018, 10, 3552-3556.	2.7	0