Yang Mu

List of Publications by Year
in descending order

110 papers	5,598 citations	61984 43 h-index	82547 72 g-index
110 all docs	110 docs citations	110 times ranked	5976 citing authors

#	Article	IF	Citations
1	Nitrogen-doped pyrogenic carbonaceous matter facilitates azo dye decolorization by sulfide: The important role of graphitic nitrogen. Chinese Chemical Letters, 2023, 34, 107326.	9.0	2
2	Simultaneous high-concentration pyridine removal and denitrification in an electricity assisted bio-photodegradation system. Chemical Engineering Journal, 2022, 430, 132598.	12.7	18
3	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
4	Boosting photo-Fenton process enabled by ligand-to-cluster charge transfer excitations in iron-based metal organic framework. Applied Catalysis B: Environmental, 2022, 302, 120882.	20.2	58
5	Advances in interfacial engineering for enhanced microbial extracellular electron transfer. Bioresource Technology, 2022, 345, 126562.	9.6	11
6	Carbon nanotubes mediated chemical and biological decolorization of azo dye: Understanding the structure-activity relationship. Environmental Research, 2022, 210, 112897.	7.5	4
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	Ag-TiO2/biofilm/nitrate interface enhanced visible light-assisted biodegradation of tetracycline: The key role of nitrate as the electron accepter. Water Research, 2022, 215, 118212.	11.3	20
9	Electrical stimulation enhancing anaerobic digestion under ammonia inhibition: A comprehensive investigation including proteomic analysis. Environmental Research, 2022, 211, 113006.	7.5	14
10	Nutrient limitation regulates the properties of extracellular electron transfer and hydraulic shear resistance of electroactive biofilm. Environmental Research, 2022, 212, 113408.	7.5	4
11	Generation of iodinated trihalomethanes during chloramination in the presence of solid copper corrosion products. Water Research, 2022, 220, 118630.	11.3	2
12	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
13	Structural characteristics and microbial function of biofilm in membrane-aerated biofilm reactor for the biodegradation of volatile pyridine. Journal of Hazardous Materials, 2022, 437, 129370.	12.4	12
14	Simultaneous removal of pyridine and denitrification in an integrated bioelectro-photocatalytic system utilizing N-doped graphene/Î±-Fe2O3 modified photoanode. Electrochimica Acta, 2021, 366, 137425.	5.2	22
15	Beyond traditional water splitting for energy-efficient waste-to-hydrogen conversion with an inorganicâ€“carbon hybrid nanosheet electrocatalyst. Journal of Materials Chemistry A, 2021, 9, 5364-5373.	10.3	5
16	Electricity-stimulated anaerobic system (ESAS) for enhanced energy recovery and pollutant removal: A critical review. Chemical Engineering Journal, 2021, 411, 128548.	12.7	25
17	Treatment of iodine-containing water by the UV/NH2Cl process: Dissolved organic matters transformation, iodinated trihalomethane formation and toxicity variation. Water Research, 2021, 200, 117256.	11.3	9
18	Modification of regenerated cellulose ultrafiltration membranes with multi-walled carbon nanotubes for enhanced antifouling ability: Field test and mechanism study. Science of the Total Environment, 2021, 780, 146657.	8.0	14

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19	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
20	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
21	Metal organic framework decorated with molybdenum disulfide for visible-light-driven reduction of hexavalent chromium: Performance and mechanism. Journal of Cleaner Production, 2021, 318, 128513.	9.3	14
22	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
23	Tailoring the Electrochemical Protonation Behavior of CO₂ by Tuning Surface Noncovalent Interactions. ACS Catalysis, 2021, 11, 14986-14994.	11.2	13
24	Facilitated bio-mineralization of N,N-dimethylformamide in anoxic denitrification system: Long-term performance and biological mechanism. Water Research, 2020, 186, 116306.	11.3	60
25	Mechanistic study of Fe(III) chelate reduction in a neutral electro-Fenton process. Applied Catalysis B: Environmental, 2020, 278, 119347.	20.2	25
26	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
27	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
28	High power generation in mixed-culture microbial fuel cells with corncob-derived three-dimensional N-doped bioanodes and the impact of N dopant states. Chemical Engineering Journal, 2020, 399, 125848.	12.7	51
29	Efficient bioanode from poultry feather wastes-derived N-doped activated carbon: Performance and mechanisms. Journal of Cleaner Production, 2020, 271, 122012.	9.3	14
30	Redox mediator-modified biocathode enables highly efficient microbial electro-synthesis of methane from carbon dioxide. Applied Energy, 2020, 274, 115292.	10.1	44
31	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
32	Optimization ofS/Fe ratio for enhanced nitrobenzene biological removal in anaerobicSystem amended withSulfide-modified nanoscale zerovalent iron. Chemosphere, 2020, 247, 125832.	8.2	23
33	Microbial electrochemistry for bioremediation. Environmental Science and Ecotechnology, 2020, 1, 100013.	13.5	83
34	Interactions between nanoscale zero valent iron and extracellular polymeric substances of anaerobic sludge. Water Research, 2020, 178, 115817.	11.3	74
35	Microbial Electro-respiration Enhanced Biodegradation and Bioremediation: Challenges and Future Perspectives. , 2019, , 293-300.		0
36	Bioelectrodegradation of Hazardous Organic Contaminants from Industrial Wastewater. , 2019, , 93-119.		1

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37	Substantially enhanced anaerobic reduction of nitrobenzene by biochar stabilized sulfide-modified nanoscale zero-valent iron: Process and mechanisms. Environment International, 2019, 131, 105020.	10.0	59
38	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
39	Polyaniline-decorated honeycomb-like structured macroporous carbon composite as an anode modifier for enhanced bioelectricity generation. Science of the Total Environment, 2019, 696, 133980.	8.0	12
40	Nitrate stimulation of N-Methylpyrrolidone biodegradation by Paracoccus pantotrophus: Metabolite mechanism and Genomic characterization. Bioresource Technology, 2019, 294, 122185.	9.6	28
41	Potential regulates metabolism and extracellular respiration of electroactive Geobacter biofilm. Biotechnology and Bioengineering, 2019, 116, 961-971.	3.3	17
42	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
43	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
44	Undiscovered Mechanism for Pyrogenic Carbonaceous Matter-Mediated Abiotic Transformation of Azo Dyes by Sulfide. Environmental Science & Technology, 2019, 53, 4397-4405.	10.0	42
45	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
46	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
47	Simultaneous debromination and mineralization of bromophenol in an up-flow electricity-stimulated anaerobic system. Water Research, 2019, 157, 8-18.	11.3	50
48	Iodo-trihalomethanes formation during chlorination and chloramination of iodide-containing waters in the presence of Cu2+. Science of the Total Environment, 2019, 671, 101-107.	8.0	12
49	Efficiency of sequential UV/H2O2 and biofilm process for the treatment of secondary effluent. Environmental Science and Pollution Research, 2019, 26, 577-585.	5.3	7
50	Differences in the colloid properties of sodium alginate and polysaccharides in extracellular polymeric substances with regard to membrane fouling. Journal of Colloid and Interface Science, 2019, 535, 318-324.	9.4	32
51	Two-stage chromium isotope fractionation during microbial Cr(VI) reduction. Water Research, 2019, 148, 10-18.	11.3	51
52	Biogas. , 2019, , 110-127.		4
53	Insight into electro-Fenton and photo-Fenton for the degradation of antibiotics: Mechanism study and research gaps. Chemical Engineering Journal, 2018, 347, 379-397.	12.7	287
54	A modified two-point titration method for the determination of volatile fatty acids in anaerobic systems. Chemosphere, 2018, 204, 251-256.	8.2	14

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55	Remediation of Petroleum-Contaminated Soil and Simultaneous Recovery of Oil by Fast Pyrolysis. Environmental Science & Technology, 2018, 52, 5330-5338.	10.0	87
56	Effects of Goodâ€™s Buffers and pH on the Structural Transformation of Zero Valent Iron and the Oxidative Degradation of Contaminants. Environmental Science & Technology, 2018, 52, 1393-1403.	10.0	35
57	Degradation Chemistry and Stabilization of Exfoliated Few-Layer Black Phosphorus in Water. Journal of the American Chemical Society, 2018, 140, 7561-7567.	13.7	273
58	Modeling of acetate-type fermentation of sugar-containing wastewater under acidic pH conditions. Bioresource Technology, 2018, 248, 148-155.	9.6	12
59	Temperature dependence of bioelectrochemical CO2 conversion and methane production with a mixed-culture biocathode. Bioelectrochemistry, 2018, 119, 180-188.	4.6	40
60	Substantial enhancement of anaerobic pyridine bio-mineralization by electrical stimulation. Water Research, 2018, 130, 291-299.	11.3	101
61	Carbonate-activated hydrogen peroxide oxidation process for azo dye decolorization: Process, kinetics, and mechanisms. Chemosphere, 2018, 192, 372-378.	8.2	72
62	Bioaugmentation potential of a newly isolated strain Sphingomonas sp. NJUST37 for the treatment of wastewater containing highly toxic and recalcitrant tricyclazole. Bioresource Technology, 2018, 264, 98-105.	9.6	44
63	Biochar enhanced biological nitrobenzene reduction with a mixed culture in anaerobic systems: Short-term and long-term assessments. Chemical Engineering Journal, 2018, 351, 912-921.	12.7	52
64	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
65	Structure-based synergistic mechanism for the degradation of typical antibiotics in electro-Fenton process using Pdâ€“Fe3O4 model catalyst: Theoretical and experimental study. Journal of Catalysis, 2018, 365, 184-194.	6.2	35
66	A fixed-point titration method for the determination of ammonium in anaerobic systems. Analytical Methods, 2018, 10, 3552-3556.	2.7	0
67	Effect of surface modification on carbon nanotubes (CNTs) catalyzed nitrobenzene reduction by sulfide. Journal of Hazardous Materials, 2018, 357, 235-243.	12.4	26
68	Enhancing Extracellular Electron Transfer of Shewanella oneidensis MR-1 through Coupling Improved Flavin Synthesis and Metal-Reducing Conduit for Pollutant Degradation. Environmental Science & Technology, 2017, 51, 5082-5089.	10.0	141
69	Fabrication of polypyrrole/Î²-MnO 2 modified graphite felt anode for enhancing recalcitrant phenol degradation in a bioelectrochemical system. Electrochimica Acta, 2017, 244, 119-128.	5.2	45
70	Highly selective hydrogenation of CO 2 into formic acid on a nano-Ni catalyst at ambient temperature: Process, mechanisms and catalyst stability. Journal of CO2 Utilization, 2017, 19, 157-164.	6.8	36
71	Decoupling of DAMO archaea from DAMO bacteria in a methane-driven microbial fuel cell. Water Research, 2017, 110, 112-119.	11.3	86
72	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

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73	Catalytic CO₂ reduction to valuable chemicals using NiFe-based nanoclusters: a first-principles theoretical evaluation. Physical Chemistry Chemical Physics, 2017, 19, 28344-28353.	2.8	18
74	Anchoring Î±-, Î²-, or Î³-MnO₂ into Polypyrrole Wrapping for Modifying Graphite Felt Anodes: The Effect of MnO₂ Type on Phenol Degradation. Chemistry Letters, 2017, 46, 1769-1772.	1.3	8
75	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
76	Response of anodic biofilm to hydrodynamic shear in two-chamber bioelectrochemical systems. Electrochimica Acta, 2017, 258, 1304-1310.	5.2	13
77	Metal Respiratory Pathway-Independent Cr Isotope Fractionation during Cr(VI) Reduction by Shewanella oneidensis MR-1. Environmental Science and Technology Letters, 2017, 4, 500-504.	8.7	42
78	Rapid Release of Arsenite from Roxarsone Bioreduction by Exoelectrogenic Bacteria. Environmental Science and Technology Letters, 2017, 4, 350-355.	8.7	58
79	Removal of halogenated emerging contaminants from water by nitrogen-doped graphene decorated with palladium nanoparticles: Experimental investigation and theoretical analysis. Water Research, 2016, 98, 235-241.	11.3	26
80	Coupling of iron shavings into the anaerobic system for enhanced 2,4-dinitroanisole reduction in wastewater. Water Research, 2016, 101, 457-466.	11.3	63
81	Role of NOM molecular size on iodo-trihalomethane formation during chlorination and chloramination. Water Research, 2016, 102, 533-541.	11.3	29
82	Process and kinetics of azo dye decolourization in bioelectrochemical systems: effect of several key factors. Scientific Reports, 2016, 6, 27243.	3.3	20
83	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
84	Comprehensive comparison of bacterial communities in a membrane-free bioelectrochemical system for removing different mononitrophenols from wastewater. Bioresource Technology, 2016, 216, 645-652.	9.6	44
85	Enhancement of azo dye decolourization in a MFCâ€“MEC coupled system. Bioresource Technology, 2016, 202, 93-100.	9.6	60
86	Efficient nitro reduction and dechlorination of 2,4-dinitrochlorobenzene through the integration of bioelectrochemical system into upflow anaerobic sludge blanket: A comprehensive study. Water Research, 2016, 88, 257-265.	11.3	102
87	Stimulation of oxygen to bioanode for energy recovery from recalcitrant organic matter aniline inÂmicrobial fuel cells (MFCs). Water Research, 2015, 81, 72-83.	11.3	76
88	Hydrodynamics of an Electrochemical Membrane Bioreactor. Scientific Reports, 2015, 5, 10387.	3.3	19
89	Electron acceptors for energy generation in microbial fuel cells fed with wastewaters: A mini-review. Chemosphere, 2015, 140, 12-17.	8.2	116
90	Defective titanium dioxide single crystals exposed by high-energy {001} facets for efficient oxygen reduction. Nature Communications, 2015, 6, 8696.	12.8	263

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91	Coupling of a bioelectrochemical system for p-nitrophenol removal in an upflow anaerobic sludge blanket reactor. Water Research, 2014, 67, 11-18.	11.3	85
92	The maximum specific hydrogen-producing activity of anaerobic mixed cultures: definition and determination. Scientific Reports, 2014, 4, 5239.	3.3	10
93	An MFC-Based Online Monitoring and Alert System for Activated Sludge Process. Scientific Reports, 2014, 4, 6779.	3.3	14
94	Role of molecular structure on bioelectrochemical reduction of mononitrophenols from wastewater. Water Research, 2013, 47, 5511-5519.	11.3	42
95	A modeling approach to describe ZVI-based anaerobic system. Water Research, 2013, 47, 6007-6013.	11.3	60
96	Bioelectrochemical system for recalcitrant p-nitrophenol removal. Journal of Hazardous Materials, 2012, 209-210, 516-519.	12.4	45
97	Dehalogenation of Iodinated X-ray Contrast Media in a Bioelectrochemical System. Environmental Science & Technology, 2011, 45, 782-788.	10.0	43
98	Hydrodynamics of upflow anaerobic sludge blanket reactors. AICHE Journal, 2009, 55, 516-528.	3.6	52
99	Decolorization of Azo Dyes in Bioelectrochemical Systems. Environmental Science & Technology, 2009, 43, 5137-5143.	10.0	299
100	Nitrobenzene Removal in Bioelectrochemical Systems. Environmental Science & Technology, 2009, 43, 8690-8695.	10.0	191
101	Drag Coefficient of Porous and Permeable Microbial Granules. Environmental Science & Technology, 2008, 42, 1718-1723.	10.0	50
102	A kinetic approach to anaerobic hydrogen-producing process. Water Research, 2007, 41, 1152-1160.	11.3	137
103	Surface characteristics of acidogenic sludge in H2-producing process. Journal of Water and Environment Technology, 2007, 5, 1-12.	0.7	2
104	The role of pH in the fermentative H2 production from an acidogenic granule-based reactor. Chemosphere, 2006, 64, 350-358.	8.2	76
105	Permeabilities of anaerobic CH4-producing granules. Water Research, 2006, 40, 1811-1815.	11.3	49
106	Rheological and fractal characteristics of granular sludge in an upflow anaerobic reactor. Water Research, 2006, 40, 3596-3602.	11.3	61
107	Kinetic modeling of batch hydrogen production process by mixed anaerobic cultures. Bioresource Technology, 2006, 97, 1302-1307.	9.6	150
108	Biological hydrogen production in a UASB reactor with granules. I: Physicochemical characteristics of hydrogen-producing granules. Biotechnology and Bioengineering, 2006, 94, 980-987.	3.3	118

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109	Kinetics of reductive degradation of Orange II in aqueous solution by zero-valent iron. Journal of Chemical Technology and Biotechnology, 2004, 79, 1429-1431.	3.2	34
110	Reductive degradation of nitrobenzene in aqueous solution by zero-valent iron. Chemosphere, 2004, 54, 789-794.	8.2	175