

Yang Mu

List of Publications by Year in descending order

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110
papers

5,598
citations

61984

43
h-index

82547

72
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110
all docs

110
docs citations

110
times ranked

5976
citing authors

#	ARTICLE	IF	CITATIONS
1	Decolorization of Azo Dyes in Bioelectrochemical Systems. <i>Environmental Science & Technology</i> , 2009, 43, 5137-5143.	10.0	299
2	Insight into electro-Fenton and photo-Fenton for the degradation of antibiotics: Mechanism study and research gaps. <i>Chemical Engineering Journal</i> , 2018, 347, 379-397.	12.7	287
3	Degradation Chemistry and Stabilization of Exfoliated Few-Layer Black Phosphorus in Water. <i>Journal of the American Chemical Society</i> , 2018, 140, 7561-7567.	13.7	273
4	Defective titanium dioxide single crystals exposed by high-energy {001} facets for efficient oxygen reduction. <i>Nature Communications</i> , 2015, 6, 8696.	12.8	263
5	Nitrobenzene Removal in Bioelectrochemical Systems. <i>Environmental Science & Technology</i> , 2009, 43, 8690-8695.	10.0	191
6	Reductive degradation of nitrobenzene in aqueous solution by zero-valent iron. <i>Chemosphere</i> , 2004, 54, 789-794.	8.2	175
7	Effects of Molecular Structure on Organic Contaminantsâ€™ Degradation Efficiency and Dominant ROS in the Advanced Oxidation Process with Multiple ROS. <i>Environmental Science & Technology</i> , 2022, 56, 8784-8795.	10.0	161
8	Kinetic modeling of batch hydrogen production process by mixed anaerobic cultures. <i>Bioresource Technology</i> , 2006, 97, 1302-1307.	9.6	150
9	Enhancing Extracellular Electron Transfer of <i>Shewanella oneidensis</i> MR-1 through Coupling Improved Flavin Synthesis and Metal-Reducing Conduit for Pollutant Degradation. <i>Environmental Science & Technology</i> , 2017, 51, 5082-5089.	10.0	141
10	A kinetic approach to anaerobic hydrogen-producing process. <i>Water Research</i> , 2007, 41, 1152-1160.	11.3	137
11	Biological hydrogen production in a UASB reactor with granules. I: Physicochemical characteristics of hydrogen-producing granules. <i>Biotechnology and Bioengineering</i> , 2006, 94, 980-987.	3.3	118
12	Electron acceptors for energy generation in microbial fuel cells fed with wastewaters: A mini-review. <i>Chemosphere</i> , 2015, 140, 12-17.	8.2	116
13	Impact of zero-valent iron nanoparticles on the activity of anaerobic granular sludge: From macroscopic to microcosmic investigation. <i>Water Research</i> , 2017, 127, 32-40.	11.3	110
14	Efficient nitro reduction and dechlorination of 2,4-dinitrochlorobenzene through the integration of bioelectrochemical system into upflow anaerobic sludge blanket: A comprehensive study. <i>Water Research</i> , 2016, 88, 257-265.	11.3	102
15	Substantial enhancement of anaerobic pyridine bio-mineralization by electrical stimulation. <i>Water Research</i> , 2018, 130, 291-299.	11.3	101
16	Remediation of Petroleum-Contaminated Soil and Simultaneous Recovery of Oil by Fast Pyrolysis. <i>Environmental Science & Technology</i> , 2018, 52, 5330-5338.	10.0	87
17	Decoupling of DAMO archaea from DAMO bacteria in a methane-driven microbial fuel cell. <i>Water Research</i> , 2017, 110, 112-119.	11.3	86
18	Coupling of a bioelectrochemical system for p-nitrophenol removal in an upflow anaerobic sludge blanket reactor. <i>Water Research</i> , 2014, 67, 11-18.	11.3	85

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19	Microbial electrochemistry for bioremediation. <i>Environmental Science and Ecotechnology</i> , 2020, 1, 100013.	13.5	83
20	The role of pH in the fermentative H ₂ production from an acidogenic granule-based reactor. <i>Chemosphere</i> , 2006, 64, 350-358.	8.2	76
21	Stimulation of oxygen to bioanode for energy recovery from recalcitrant organic matter aniline in microbial fuel cells (MFCs). <i>Water Research</i> , 2015, 81, 72-83.	11.3	76
22	Interactions between nanoscale zero valent iron and extracellular polymeric substances of anaerobic sludge. <i>Water Research</i> , 2020, 178, 115817.	11.3	74
23	Carbonate-activated hydrogen peroxide oxidation process for azo dye decolorization: Process, kinetics, and mechanisms. <i>Chemosphere</i> , 2018, 192, 372-378.	8.2	72
24	Efficient activation of PAA by FeS for fast removal of pharmaceuticals: The dual role of sulfur species in regulating the reactive oxidized species. <i>Water Research</i> , 2022, 217, 118402.	11.3	66
25	Coupling of iron shavings into the anaerobic system for enhanced 2,4-dinitroanisole reduction in wastewater. <i>Water Research</i> , 2016, 101, 457-466.	11.3	63
26	Rheological and fractal characteristics of granular sludge in an upflow anaerobic reactor. <i>Water Research</i> , 2006, 40, 3596-3602.	11.3	61
27	A modeling approach to describe ZVI-based anaerobic system. <i>Water Research</i> , 2013, 47, 6007-6013.	11.3	60
28	Enhancement of azo dye decolourization in a MFC-MEC coupled system. <i>Bioresource Technology</i> , 2016, 202, 93-100.	9.6	60
29	Facilitated bio-mineralization of N,N-dimethylformamide in anoxic denitrification system: Long-term performance and biological mechanism. <i>Water Research</i> , 2020, 186, 116306.	11.3	60
30	Substantially enhanced anaerobic reduction of nitrobenzene by biochar stabilized sulfide-modified nanoscale zero-valent iron: Process and mechanisms. <i>Environment International</i> , 2019, 131, 105020.	10.0	59
31	Rapid Release of Arsenite from Roxarsone Bioreduction by Exoelectrogenic Bacteria. <i>Environmental Science and Technology Letters</i> , 2017, 4, 350-355.	8.7	58
32	Boosting photo-Fenton process enabled by ligand-to-cluster charge transfer excitations in iron-based metal organic framework. <i>Applied Catalysis B: Environmental</i> , 2022, 302, 120882.	20.2	58
33	Cathode-Introduced Atomic H* for Fe(II)-Complex Regeneration to Effective Electro-Fenton Process at a Natural pH. <i>Environmental Science & Technology</i> , 2019, 53, 6927-6936.	10.0	54
34	Hydrodynamics of upflow anaerobic sludge blanket reactors. <i>AIChE Journal</i> , 2009, 55, 516-528.	3.6	52
35	Biochar enhanced biological nitrobenzene reduction with a mixed culture in anaerobic systems: Short-term and long-term assessments. <i>Chemical Engineering Journal</i> , 2018, 351, 912-921.	12.7	52
36	Two-stage chromium isotope fractionation during microbial Cr(VI) reduction. <i>Water Research</i> , 2019, 148, 10-18.	11.3	51

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37	High power generation in mixed-culture microbial fuel cells with corncob-derived three-dimensional N-doped bioanodes and the impact of N dopant states. <i>Chemical Engineering Journal</i> , 2020, 399, 125848.	12.7	51
38	Drag Coefficient of Porous and Permeable Microbial Granules. <i>Environmental Science & Technology</i> , 2008, 42, 1718-1723.	10.0	50
39	Simultaneous debromination and mineralization of bromophenol in an up-flow electricity-stimulated anaerobic system. <i>Water Research</i> , 2019, 157, 8-18.	11.3	50
40	Permeabilities of anaerobic CH ₄ -producing granules. <i>Water Research</i> , 2006, 40, 1811-1815.	11.3	49
41	Bioelectrochemical system for recalcitrant p-nitrophenol removal. <i>Journal of Hazardous Materials</i> , 2012, 209-210, 516-519.	12.4	45
42	Fabrication of polypyrrole/β ² -MnO ₂ modified graphite felt anode for enhancing recalcitrant phenol degradation in a bioelectrochemical system. <i>Electrochimica Acta</i> , 2017, 244, 119-128.	5.2	45
43	Comprehensive comparison of bacterial communities in a membrane-free bioelectrochemical system for removing different mononitrophenols from wastewater. <i>Bioresource Technology</i> , 2016, 216, 645-652.	9.6	44
44	Bioaugmentation potential of a newly isolated strain <i>Sphingomonas</i> sp. NJUST37 for the treatment of wastewater containing highly toxic and recalcitrant triclyazole. <i>Bioresource Technology</i> , 2018, 264, 98-105.	9.6	44
45	Redox mediator-modified biocathode enables highly efficient microbial electro-synthesis of methane from carbon dioxide. <i>Applied Energy</i> , 2020, 274, 115292.	10.1	44
46	Dehalogenation of Iodinated X-ray Contrast Media in a Bioelectrochemical System. <i>Environmental Science & Technology</i> , 2011, 45, 782-788.	10.0	43
47	Role of molecular structure on bioelectrochemical reduction of mononitrophenols from wastewater. <i>Water Research</i> , 2013, 47, 5511-5519.	11.3	42
48	Metal Respiratory Pathway-Independent Cr Isotope Fractionation during Cr(VI) Reduction by <i>Shewanella oneidensis</i> MR-1. <i>Environmental Science and Technology Letters</i> , 2017, 4, 500-504.	8.7	42
49	Undiscovered Mechanism for Pyrogenic Carbonaceous Matter-Mediated Abiotic Transformation of Azo Dyes by Sulfide. <i>Environmental Science & Technology</i> , 2019, 53, 4397-4405.	10.0	42
50	Temperature dependence of bioelectrochemical CO ₂ conversion and methane production with a mixed-culture biocathode. <i>Bioelectrochemistry</i> , 2018, 119, 180-188.	4.6	40
51	Highly selective hydrogenation of CO ₂ into formic acid on a nano-Ni catalyst at ambient temperature: Process, mechanisms and catalyst stability. <i>Journal of CO₂ Utilization</i> , 2017, 19, 157-164.	6.8	36
52	Effects of Goodâ€™s Buffers and pH on the Structural Transformation of Zero Valent Iron and the Oxidative Degradation of Contaminants. <i>Environmental Science & Technology</i> , 2018, 52, 1393-1403.	10.0	35
53	Structure-based synergistic mechanism for the degradation of typical antibiotics in electro-Fenton process using Pdâ€™Fe ₃ O ₄ model catalyst: Theoretical and experimental study. <i>Journal of Catalysis</i> , 2018, 365, 184-194.	6.2	35
54	Kinetics of reductive degradation of Orange II in aqueous solution by zero-valent iron. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 1429-1431.	3.2	34

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55	Facilitated biological reduction of nitroaromatic compounds by reduced graphene oxide and the role of its surface characteristics. <i>Scientific Reports</i> , 2016, 6, 30082.	3.3	34
56	Differences in the colloid properties of sodium alginate and polysaccharides in extracellular polymeric substances with regard to membrane fouling. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 318-324.	9.4	32
57	Enhanced hydrodeiodination of iodinated contrast medium by sulfide-modified nano-sized zero-valent iron: Kinetics, mechanisms and application prospects. <i>Chemical Engineering Journal</i> , 2020, 401, 126050.	12.7	31
58	Mixed-culture biocathodes for acetate production from CO ₂ reduction in the microbial electrosynthesis: Impact of temperature. <i>Science of the Total Environment</i> , 2021, 790, 148128.	8.0	31
59	Bioelectrochemical decolorization of a reactive diazo dye: Kinetics, optimization with a response surface methodology, and proposed degradation pathway. <i>Bioelectrochemistry</i> , 2019, 128, 9-16.	4.6	30
60	Role of NOM molecular size on iodo-trihalomethane formation during chlorination and chloramination. <i>Water Research</i> , 2016, 102, 533-541.	11.3	29
61	Nitrate stimulation of N-Methylpyrrolidone biodegradation by <i>Paracoccus pantotrophus</i> : Metabolite mechanism and Genomic characterization. <i>Bioresource Technology</i> , 2019, 294, 122185.	9.6	28
62	Removal of halogenated emerging contaminants from water by nitrogen-doped graphene decorated with palladium nanoparticles: Experimental investigation and theoretical analysis. <i>Water Research</i> , 2016, 98, 235-241.	11.3	26
63	Effect of surface modification on carbon nanotubes (CNTs) catalyzed nitrobenzene reduction by sulfide. <i>Journal of Hazardous Materials</i> , 2018, 357, 235-243.	12.4	26
64	Mechanistic study of Fe(III) chelate reduction in a neutral electro-Fenton process. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119347.	20.2	25
65	Electricity-stimulated anaerobic system (ESAS) for enhanced energy recovery and pollutant removal: A critical review. <i>Chemical Engineering Journal</i> , 2021, 411, 128548.	12.7	25
66	Optimization of S/Fe ratio for enhanced nitrobenzene biological removal in anaerobic system amended with sulfide-modified nanoscale zerovalent iron. <i>Chemosphere</i> , 2020, 247, 125832.	8.2	23
67	Simultaneous removal of pyridine and denitrification in an integrated bioelectro-photocatalytic system utilizing N-doped graphene/Fe ₂ O ₃ modified photoanode. <i>Electrochimica Acta</i> , 2021, 366, 137425.	5.2	22
68	Process and kinetics of azo dye decolourization in bioelectrochemical systems: effect of several key factors. <i>Scientific Reports</i> , 2016, 6, 27243.	3.3	20
69	Ag-TiO ₂ /biofilm/nitrate interface enhanced visible light-assisted biodegradation of tetracycline: The key role of nitrate as the electron acceptor. <i>Water Research</i> , 2022, 215, 118212.	11.3	20
70	Hydrodynamics of an Electrochemical Membrane Bioreactor. <i>Scientific Reports</i> , 2015, 5, 10387.	3.3	19
71	Aerobic removal of iodinated contrast medium by nano-sized zero-valent iron: A combination of oxidation and reduction. <i>Journal of Hazardous Materials</i> , 2019, 373, 417-424.	12.4	19
72	Catalytic CO ₂ reduction to valuable chemicals using NiFe-based nanoclusters: a first-principles theoretical evaluation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28344-28353.	2.8	18

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73	Simultaneous high-concentration pyridine removal and denitrification in an electricity assisted bio-photodegradation system. <i>Chemical Engineering Journal</i> , 2022, 430, 132598.	12.7	18
74	Potential regulates metabolism and extracellular respiration of electroactive <i>Geobacter</i> biofilm. <i>Biotechnology and Bioengineering</i> , 2019, 116, 961-971.	3.3	17
75	Active N dopant states of electrodes regulate extracellular electron transfer of <i>Shewanella oneidensis</i> MR-1 for bioelectricity generation: Experimental and theoretical investigations. <i>Biosensors and Bioelectronics</i> , 2020, 160, 112231.	10.1	15
76	An MFC-Based Online Monitoring and Alert System for Activated Sludge Process. <i>Scientific Reports</i> , 2014, 4, 6779.	3.3	14
77	A modified two-point titration method for the determination of volatile fatty acids in anaerobic systems. <i>Chemosphere</i> , 2018, 204, 251-256.	8.2	14
78	Formation of iodo-trihalomethanes (I-THMs) during disinfection with chlorine or chloramine: Impact of UV/H ₂ O ₂ pre-oxidation. <i>Science of the Total Environment</i> , 2018, 640-641, 764-771.	8.0	14
79	Efficient bioanode from poultry feather wastes-derived N-doped activated carbon: Performance and mechanisms. <i>Journal of Cleaner Production</i> , 2020, 271, 122012.	9.3	14
80	Modification of regenerated cellulose ultrafiltration membranes with multi-walled carbon nanotubes for enhanced antifouling ability: Field test and mechanism study. <i>Science of the Total Environment</i> , 2021, 780, 146657.	8.0	14
81	Metal organic framework decorated with molybdenum disulfide for visible-light-driven reduction of hexavalent chromium: Performance and mechanism. <i>Journal of Cleaner Production</i> , 2021, 318, 128513.	9.3	14
82	Electrical stimulation enhancing anaerobic digestion under ammonia inhibition: A comprehensive investigation including proteomic analysis. <i>Environmental Research</i> , 2022, 211, 113006.	7.5	14
83	Response of anodic biofilm to hydrodynamic shear in two-chamber bioelectrochemical systems. <i>Electrochimica Acta</i> , 2017, 258, 1304-1310.	5.2	13
84	Tailoring the Electrochemical Protonation Behavior of CO ₂ by Tuning Surface Noncovalent Interactions. <i>ACS Catalysis</i> , 2021, 11, 14986-14994.	11.2	13
85	Dehalogenation of diatrizoate using nanoscale zero-valent iron: impacts of various parameters and assessment of aerobic biological post-treatment. <i>RSC Advances</i> , 2017, 7, 27214-27223.	3.6	12
86	Modeling of acetate-type fermentation of sugar-containing wastewater under acidic pH conditions. <i>Bioresource Technology</i> , 2018, 248, 148-155.	9.6	12
87	Polyaniline-decorated honeycomb-like structured macroporous carbon composite as an anode modifier for enhanced bioelectricity generation. <i>Science of the Total Environment</i> , 2019, 696, 133980.	8.0	12
88	Iodo-trihalomethanes formation during chlorination and chloramination of iodide-containing waters in the presence of Cu ²⁺ . <i>Science of the Total Environment</i> , 2019, 671, 101-107.	8.0	12
89	Size-Dependent Response of the Reductive Reactivity of Zerovalent Iron toward the Coexistence of Natural Organic Matter. <i>ACS ES&T Engineering</i> , 2021, 1, 1587-1596.	7.6	12
90	Structural characteristics and microbial function of biofilm in membrane-aerated biofilm reactor for the biodegradation of volatile pyridine. <i>Journal of Hazardous Materials</i> , 2022, 437, 129370.	12.4	12

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91	Coexistence of humic acid enhances the reductive removal of diatrizoate via de-passivating zero-valent iron under aerobic conditions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14634-14643.	10.3	11
92	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. <i>Science of the Total Environment</i> , 2022, 802, 149812.	8.0	11
93	Advances in interfacial engineering for enhanced microbial extracellular electron transfer. <i>Bioresource Technology</i> , 2022, 345, 126562.	9.6	11
94	The maximum specific hydrogen-producing activity of anaerobic mixed cultures: definition and determination. <i>Scientific Reports</i> , 2014, 4, 5239.	3.3	10
95	Treatment of iodine-containing water by the UV/NH ₂ Cl process: Dissolved organic matters transformation, iodinated trihalomethane formation and toxicity variation. <i>Water Research</i> , 2021, 200, 117256.	11.3	9
96	Anchoring MnO_2 into Polypyrrole Wrapping for Modifying Graphite Felt Anodes: The Effect of MnO_2 Type on Phenol Degradation. <i>Chemistry Letters</i> , 2017, 46, 1769-1772.	1.3	8
97	Insights into short- and long-term effects of loading nickel nanoparticles on anaerobic digestion with flocculent sludge. <i>Environmental Science: Nano</i> , 2019, 6, 2820-2831.	4.3	7
98	Efficiency of sequential UV/H ₂ O ₂ and biofilm process for the treatment of secondary effluent. <i>Environmental Science and Pollution Research</i> , 2019, 26, 577-585.	5.3	7
99	Progressive stress response of the anaerobic granular sludge to nickel nanoparticles: experimental investigations and mathematic modelling. <i>Environmental Science: Nano</i> , 2019, 6, 1536-1548.	4.3	6
100	Beyond traditional water splitting for energy-efficient waste-to-hydrogen conversion with an inorganic-carbon hybrid nanosheet electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5364-5373.	10.3	5
101	Biogas. , 2019, , 110-127.		4
102	Carbon nanotubes mediated chemical and biological decolorization of azo dye: Understanding the structure-activity relationship. <i>Environmental Research</i> , 2022, 210, 112897.	7.5	4
103	Nutrient limitation regulates the properties of extracellular electron transfer and hydraulic shear resistance of electroactive biofilm. <i>Environmental Research</i> , 2022, 212, 113408.	7.5	4
104	Surface characteristics of acidogenic sludge in H ₂ -producing process. <i>Journal of Water and Environment Technology</i> , 2007, 5, 1-12.	0.7	2
105	Nano-sized Zero-Valent Iron Coupled with Sulfidation and Ferrous Implantation Enhances the Reduction-Oxidation Removal of Iodinated Contrast Medium. <i>ACS ES&T Water</i> , 2021, 1, 2128-2138.	4.6	2
106	Nitrogen-doped pyrogenic carbonaceous matter facilitates azo dye decolorization by sulfide: The important role of graphitic nitrogen. <i>Chinese Chemical Letters</i> , 2023, 34, 107326.	9.0	2
107	Generation of iodinated trihalomethanes during chloramination in the presence of solid copper corrosion products. <i>Water Research</i> , 2022, 220, 118630.	11.3	2
108	Bioelectrodegradation of Hazardous Organic Contaminants from Industrial Wastewater. , 2019, , 93-119.		1

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109	A fixed-point titration method for the determination of ammonium in anaerobic systems. <i>Analytical Methods</i> , 2018, 10, 3552-3556.	2.7	0
110	Microbial Electro-respiration Enhanced Biodegradation and Bioremediation: Challenges and Future Perspectives. , 2019, , 293-300.		0