

Han-Qing Yu

List of Publications by Year in descending order

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669
papers

55,455
citations

1027

117
h-index

3100

193
g-index

681
all docs

681
docs citations

681
times ranked

43445
citing authors

#	ARTICLE	IF	CITATIONS
1	Revisiting the contribution of FeIVO ₂ ⁺ in Fe(II)/peroxydisulfate system. Chinese Chemical Letters, 2023, 34, 107555.	4.8	1
2	2D/2D FeNi-layered double hydroxide/bimetal-MOFs nanosheets for enhanced photo-Fenton degradation of antibiotics: Performance and synergetic degradation mechanism. Chemosphere, 2022, 287, 132061.	4.2	35
3	In-situ regeneration of tetracycline-saturated hierarchical porous carbon by peroxydisulfate oxidation process: Performance, mechanism and application. Chemical Engineering Journal, 2022, 427, 131749.	6.6	29
4	Revealing the mechanisms of rhamnolipid enhanced hydrogen production from dark fermentation of waste activated sludge. Science of the Total Environment, 2022, 806, 150347.	3.9	9
5	Edge electronic vacancy on ultrathin carbon nitride nanosheets anchoring O ₂ to boost H ₂ O ₂ photoproduction. Applied Catalysis B: Environmental, 2022, 302, 120845.	10.8	56
6	Peroxymonosulfate (PMS) activation by mackinawite for the degradation of organic pollutants: Underappreciated role of dissolved sulfur derivatives. Science of the Total Environment, 2022, 811, 151421.	3.9	22
7	Nondestructive 3D imaging and quantification of hydrated biofilm matrix by confocal Raman microscopy coupled with non-negative matrix factorization. Water Research, 2022, 210, 117973.	5.3	11
8	Sequential Assembly Tailored Interior of Porous Carbon Spheres for Boosted Water Decontamination through Peroxymonosulfate Activation. Advanced Functional Materials, 2022, 32, .	7.8	14
9	Evaluating the effect of diclofenac on hydrogen production by anaerobic fermentation of waste activated sludge. Journal of Environmental Management, 2022, 308, 114641.	3.8	11
10	Identification of Fenton-like active Cu sites by heteroatom modulation of electronic density. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	132
11	Ligand-Assisted Formation of Soluble Mn(III) and Bixbyite-like Mn ₂ O ₃ by <i>Shewanella putrefaciens</i> CN32. Environmental Science & Technology, 2022, 56, 3812-3820.	4.6	13
12	Unexpected role of electron transfer hub in direct degradation of pollutants by exoelectrogenic bacteria. Environmental Microbiology, 2022, 24, 1838-1848.	1.8	9
13	Zirconium-modified biochar as the efficient adsorbent for low-concentration phosphate: performance and mechanism. Environmental Science and Pollution Research, 2022, 29, 62347-62360.	2.7	7
14	Reversing Electron Transfer Chain for Light-Driven Hydrogen Production in Biotic–Abiotic Hybrid Systems. Journal of the American Chemical Society, 2022, 144, 6434-6441.	6.6	35
15	In-situ quantitative monitoring the organic contaminants uptake onto suspended microplastics in aquatic environments. Water Research, 2022, 215, 118235.	5.3	12
16	Hospital sewage treatment facilities witness the fighting against the COVID-19 pandemic. Journal of Environmental Management, 2022, 309, 114728.	3.8	1
17	Recovery of Iron-Dependent Autotrophic Denitrification Activity from Cell–Iron Mineral Aggregation-Induced Reversible Inhibition by Low-Intensity Ultrasonication. Environmental Science & Technology, 2022, 56, 595-604.	4.6	16
18	Reusing Sulfur-Poisoned Palladium Waste as a Highly Active, Nonradical Fenton-like Catalyst for Selective Degradation of Phenolic Pollutants. Environmental Science & Technology, 2022, 56, 564-574.	4.6	30

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19	Thermochemical Conversion of Lignocellulosic Biomass into Mass-Produced Fuels: Emerging Technology Progress and Environmental Sustainability Evaluation. <i>ACS Environmental Au</i> , 2022, 2, 98-114.	3.3	41
20	Sulfide enhances the Fe(II)/Fe(III) cycle in Fe(III)-peroxymonosulfate system for rapid removal of organic contaminants: Treatment efficiency, kinetics and mechanism. <i>Journal of Hazardous Materials</i> , 2022, 435, 128970.	6.5	24
21	PCGA: a comprehensive web server for phenotype-cell-gene association analysis. <i>Nucleic Acids Research</i> , 2022, 50, W568-W576.	6.5	4
22	Simultaneous nanocatalytic surface activation of pollutants and oxidants for highly efficient water decontamination. <i>Nature Communications</i> , 2022, 13, .	5.8	117
23	Semi-quantitative probing of reactive oxygen species in persulfate-based heterogeneous catalytic oxidation systems for elucidating the reaction mechanism. <i>Chemical Engineering Journal</i> , 2022, 446, 137237.	6.6	10
24	Mn-Doped Biochar Derived from Sewage Sludge for Ciprofloxacin Degradation. <i>Journal of Environmental Engineering, ASCE</i> , 2022, 148, .	0.7	1
25	Catalytic Oxygen Activation over the Defective CuO Nanoparticles for Ultrafast Dehalogenation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29964-29973.	4.0	5
26	Facilely tuning the intrinsic catalytic sites of the spinel oxide for peroxymonosulfate activation: From fundamental investigation to pilot-scale demonstration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	52
27	Repurposing CRISPR RNA-guided integrases system for one-step, efficient genomic integration of ultra-long DNA sequences. <i>Nucleic Acids Research</i> , 2022, 50, 7739-7750.	6.5	13
28	Understanding the interaction between triclocarban and denitrifiers. <i>Journal of Hazardous Materials</i> , 2021, 401, 123343.	6.5	16
29	Efficient degradation of bisphenol A via peroxydisulfate activation using in-situ N-doped carbon nanoparticles: Structure-function relationship and reaction mechanism. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 551-562.	5.0	52
30	Dependence of arsenic resistance and reduction capacity of <i>Aeromonas hydrophila</i> on carbon substrate. <i>Journal of Hazardous Materials</i> , 2021, 403, 123611.	6.5	19
31	A critical review on the mechanisms of persulfate activation by iron-based materials: Clarifying some ambiguity and controversies. <i>Chemical Engineering Journal</i> , 2021, 407, 127078.	6.6	101
32	Electro-assisted autohydrogenotrophic reduction of perchlorate and microbial community in a dual-chamber biofilm-electrode reactor. <i>Chemosphere</i> , 2021, 264, 128548.	4.2	8
33	Mechanistic insights into the effect of poly ferric sulfate on anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2021, 189, 116645.	5.3	95
34	TiO ₂ photoexcitation promoted horizontal transfer of resistance genes mediated by phage transduction. <i>Science of the Total Environment</i> , 2021, 760, 144040.	3.9	21
35	Anaerobic reduction of high-polarity nitroaromatic compounds by electrochemically active bacteria: Roles of Mtr respiratory pathway, molecular polarity, mediator and membrane permeability. <i>Environmental Pollution</i> , 2021, 268, 115943.	3.7	10
36	Advances in the characterization and monitoring of natural organic matter using spectroscopic approaches. <i>Water Research</i> , 2021, 190, 116759.	5.3	74

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37	Understanding the fate and impact of capsaicin in anaerobic co-digestion of food waste and waste activated sludge. <i>Water Research</i> , 2021, 188, 116539.	5.3	99
38	Understanding the mechanism of how anaerobic fermentation deteriorates sludge dewaterability. <i>Chemical Engineering Journal</i> , 2021, 404, 127026.	6.6	51
39	Rapid and highly efficient genomic engineering with a novel <i>CRISPR-Cas9</i> device for programming versatile extracellular electron transfer of electroactive bacteria. <i>Environmental Microbiology</i> , 2021, 23, 1238-1255.	1.8	14
40	Fine tuning of phosphorus active sites on g-C ₃ N ₄ nanosheets for enhanced photocatalytic decontamination. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10933-10944.	5.2	26
41	Density Functional Theory Investigation into the Effects of Dissolved Organic Matter on H ₂ O ₂ Activation over Fe ₂ O ₃ (001) Surfaces. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8508-8517.	1.5	7
42	Thickness-Dependence of Surface Reconstruction on the (001) Surface of Ultrathin Silicon Nanosheets by Density Functional Tight Binding Simulations. <i>Science of Advanced Materials</i> , 2021, 13, 387-397.	0.1	6
43	Efficient decontamination of organic pollutants under high salinity conditions by a nonradical peroxymonosulfate activation system. <i>Water Research</i> , 2021, 191, 116799.	5.3	259
44	Efficient Conversion of the Lignocellulosic Biomass Waste into 5-Hydroxymethylfurfural-Enriched Bio-Oil and Co Nanoparticle-Functionalized Biochar. <i>ACS ES&T Engineering</i> , 2021, 1, 895-904.	3.7	8
45	Enhancing the Thermal Stability of NASICON Solid Electrolyte Pellets against Metallic Lithium by Defect Modification. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18743-18749.	4.0	29
46	Highly selective electrochemical nitrate reduction using copper phosphide self-supported copper foam electrode: Performance, mechanism, and application. <i>Water Research</i> , 2021, 193, 116881.	5.3	121
47	Engineering a Rhamnose-Inducible System to Enhance the Extracellular Electron Transfer Ability of <i>Shewanella</i> Genus for Improved Cr(VI) Reduction. <i>ACS ES&T Engineering</i> , 2021, 1, 842-850.	3.7	14
48	Intracellular Hybrid Biosystem in a Protozoan to Trigger Visible-Light-Driven Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19846-19854.	4.0	3
49	Interface-Promoted Direct Oxidation of <i>p</i> -Arsanilic Acid and Removal of Total Arsenic by the Coupling of Peroxymonosulfate and Mn-Fe-Mixed Oxide. <i>Environmental Science & Technology</i> , 2021, 55, 7063-7071.	4.6	42
50	Roles of cation efflux pump in biomineralization of cadmium into quantum dots in <i>Escherichia coli</i> . <i>Journal of Hazardous Materials</i> , 2021, 412, 125248.	6.5	10
51	Tonalide facilitates methane production from anaerobic digestion of waste activated sludge. <i>Science of the Total Environment</i> , 2021, 779, 146195.	3.9	11
52	Iron Cycle Tuned by Outer-Membrane Cytochromes of Dissimilatory Metal-Reducing Bacteria: Interfacial Dynamics and Mechanisms In Vitro. <i>Environmental Science & Technology</i> , 2021, 55, 11424-11433.	4.6	14
53	Digestion liquid based alkaline pretreatment of waste activated sludge promotes methane production from anaerobic digestion. <i>Water Research</i> , 2021, 199, 117198.	5.3	63
54	Sequestosome 1/p62: A multitasker in the regulation of malignant tumor aggression (Review). <i>International Journal of Oncology</i> , 2021, 59, .	1.4	22

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55	Cation-induced surface cleavage of organic pollutants with $\cdot\text{OH}$ formation from H_2O for water treatment. <i>Science</i> , 2021, 24, 102874.	1.9	20
56	Soluble microbial products from the white-rot fungus <i>Phanerochaete chrysosporium</i> as the bioflocculant for municipal wastewater treatment. <i>Science of the Total Environment</i> , 2021, 780, 146662.	3.9	16
57	Plate-Based Kinetic Fluorescence Tests for High-Throughput Screening of Electrochemically Active Bacteria. <i>ACS ES&T Water</i> , 2021, 1, 2139-2145.	2.3	4
58	Enhanced Bioreduction of Radionuclides by Driving Microbial Extracellular Electron Pumping with an Engineered CRISPR Platform. <i>Environmental Science & Technology</i> , 2021, 55, 11997-12008.	4.6	18
59	Constructing N, P-dually doped biochar materials from biomass wastes for high-performance bifunctional oxygen electrocatalysts. <i>Chemosphere</i> , 2021, 278, 130508.	4.2	30
60	Quantitative Coassembly for Precise Synthesis of Mesoporous Nanospheres with Pore Structure-Dependent Catalytic Performance. <i>Advanced Materials</i> , 2021, 33, e2103130.	11.1	13
61	Enhancing methane production from anaerobic digestion of waste activated sludge with addition of sodium lauroyl sarcosinate. <i>Bioresource Technology</i> , 2021, 336, 125321.	4.8	11
62	Adopting vibration to alleviate the solute buildup and membrane fouling in a forward osmosis system. <i>Journal of Cleaner Production</i> , 2021, 323, 129202.	4.6	7
63	Extracellular electron transfer via multiple electron shuttles in waterborne <i>Aeromonas hydrophila</i> for bioreduction of pollutants. <i>Biotechnology and Bioengineering</i> , 2021, 118, 4760-4770.	1.7	7
64	In-depth research on percarbonate expediting zero-valent iron corrosion for conditioning anaerobically digested sludge. <i>Journal of Hazardous Materials</i> , 2021, 419, 126389.	6.5	23
65	A critical review on the application of biochar in environmental pollution remediation: Role of persistent free radicals (PFRs). <i>Journal of Environmental Sciences</i> , 2021, 108, 201-216.	3.2	76
66	Systematically assessing genetic strategies for engineering electroactive bacterium to promote bioelectrochemical performances and pollutant removal. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101506.	1.7	1
67	Unexpected alleviation of transparent exopolymer particles-associated membrane fouling through interaction with typical organic foulants. <i>Journal of Membrane Science</i> , 2021, 636, 119554.	4.1	13
68	Evaluation of antibacterial activities of silver nanoparticles on culturability and cell viability of <i>Escherichia coli</i> . <i>Science of the Total Environment</i> , 2021, 794, 148765.	3.9	22
69	Photocatalytic degradation of tetracycline by metal-organic frameworks modified with Bi_2WO_6 nanosheet under direct sunlight. <i>Chemosphere</i> , 2021, 284, 131386.	4.2	64
70	Enhancing Fenton-like catalytic efficiency of Bi_2WO_6 by iodine doping for pollutant degradation. <i>Separation and Purification Technology</i> , 2021, 277, 119447.	3.9	10
71	Integrating single-cobalt-site and electric field of boron nitride in dechlorination electrocatalysts by bioinspired design. <i>Nature Communications</i> , 2021, 12, 303.	5.8	97
72	Pyrolysis of Biomass Wastes to N-Doped Biochar-Stabilized Co Nanoparticles for Efficient Pollutant Degradation Via Peroxymonosulfate Activation. <i>ACS ES&T Engineering</i> , 2021, 1, 1715-1724.	3.7	19

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73	Controlling pathogenic risks of water treatment biotechnologies at the source by genetic editing means. <i>Environmental Microbiology</i> , 2021, 23, 7578-7590.	1.8	9
74	Why Should Tryptones Rather Than Bovine Serum Albumin Be Used as Model Proteins to Explore the Interactions between Proteins and Pollutants in Environments?. <i>Environmental Science and Technology Letters</i> , 2021, 8, 1038-1044.	3.9	11
75	How Does Chitosan Affect Methane Production in Anaerobic Digestion?. <i>Environmental Science & Technology</i> , 2021, 55, 15843-15852.	4.6	76
76	Multi-hydrolytic enzyme accumulation and microbial community structure of anaerobic co-digestion of food waste and waste-activated sludge. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 478-487.	1.2	10
77	Optimizing sludge dewatering with a combined conditioner of Fenton's reagent and cationic surfactant. <i>Journal of Environmental Sciences</i> , 2020, 88, 21-30.	3.2	41
78	The effects of thiosulfates on methane production from anaerobic co-digestion of waste activated sludge and food waste and mitigate method. <i>Journal of Hazardous Materials</i> , 2020, 384, 121363.	6.5	27
79	Degradation of benzoic acid in an advanced oxidation process: The effects of reducing agents. <i>Journal of Hazardous Materials</i> , 2020, 382, 121090.	6.5	79
80	Synergistic adsorption and electrocatalytic reduction of bromate by Pd/N-doped loofah sponge-derived biochar electrode. <i>Journal of Hazardous Materials</i> , 2020, 386, 121651.	6.5	49
81	Iron-nitrogen doped carbon with exclusive presence of FeN active sites as an efficient ORR electrocatalyst for Zn-air battery. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118405.	10.8	80
82	Enhanced dewaterability of anaerobically digested sludge by in-situ free nitrous acid treatment. <i>Water Research</i> , 2020, 169, 115264.	5.3	73
83	Interaction between perfluorooctanoic acid and aerobic granular sludge. <i>Water Research</i> , 2020, 169, 115249.	5.3	75
84	Denitrification with non-organic electron donor for treating low C/N ratio wastewaters. <i>Bioresource Technology</i> , 2020, 299, 122686.	4.8	98
85	Enhanced dark fermentative hydrogen production from waste activated sludge by combining potassium ferrate with alkaline pretreatment. <i>Science of the Total Environment</i> , 2020, 707, 136105.	3.9	39
86	Exclusive microbially driven autotrophic iron-dependent denitrification in a reactor inoculated with activated sludge. <i>Water Research</i> , 2020, 170, 115300.	5.3	89
87	The inhibitory effect of thiosulfate on volatile fatty acid and hydrogen production from anaerobic co-fermentation of food waste and waste activated sludge. <i>Bioresource Technology</i> , 2020, 297, 122428.	4.8	15
88	Bio-coal: A renewable and massively producible fuel from lignocellulosic biomass. <i>Science Advances</i> , 2020, 6, eaay0748.	4.7	81
89	Heterogeneous activation of persulfate by Ag doped BiFeO ₃ composites for tetracycline degradation. <i>Journal of Colloid and Interface Science</i> , 2020, 566, 33-45.	5.0	66
90	Influence of low voltage electric field stimulation on hydrogen generation from anaerobic digestion of waste activated sludge. <i>Science of the Total Environment</i> , 2020, 704, 135849.	3.9	15

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91	Microwave-assisted catalytic upgrading of co-pyrolysis vapor using HZSM-5 and MCM-41 for bio-oil production: Co-feeding of soapstock and straw in a downdraft reactor. <i>Bioresource Technology</i> , 2020, 299, 122611.	4.8	30
92	Spatiotemporal Organization of Biofilm Matrix Revealed by Confocal Raman Mapping Integrated with Non-negative Matrix Factorization Analysis. <i>Analytical Chemistry</i> , 2020, 92, 707-715.	3.2	23
93	±-Diimine nickel complexes bearing axially bulky terphenyl and equatorially bulky dibenzobarrelene groups: synthesis, characterization and olefin polymerization studies. <i>Polymer Chemistry</i> , 2020, 11, 6783-6793.	1.9	31
94	Enhancement of short-chain fatty acids production from microalgae by potassium ferrate addition: Feasibility, mechanisms and implications. <i>Bioresource Technology</i> , 2020, 318, 124266.	4.8	44
95	Hierarchically porous biochar for supercapacitor and electrochemical H ₂ O ₂ production. <i>Chemical Engineering Journal</i> , 2020, 402, 126171.	6.6	64
96	Catalytic degradation of ciprofloxacin by a visible-light-assisted peroxymonosulfate activation system: Performance and mechanism. <i>Water Research</i> , 2020, 173, 115559.	5.3	270
97	In situ organic Fenton-like catalysis triggered by anodic polymeric intermediates for electrochemical water purification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 30966-30972.	3.3	41
98	Phosphate-Suppressed Selenite Biotransformation by <i>Escherichia coli</i> . <i>Environmental Science & Technology</i> , 2020, 54, 10713-10721.	4.6	19
99	Microbial electrochemical production of energy and value-added chemicals from agri-food wastewater. , 2020, , 355-372.		1
100	Novel Bi-Doped Amorphous SnO ₂ Nanoshells for Efficient Electrochemical CO ₂ Reduction into Formate at Low Overpotentials. <i>Advanced Materials</i> , 2020, 32, e2002822.	11.1	104
101	Molecular mechanisms of microbial transmembrane electron transfer of electrochemically active bacteria. <i>Current Opinion in Chemical Biology</i> , 2020, 59, 104-110.	2.8	32
102	Surface functionalization of reverse osmosis membranes with sulfonic groups for simultaneous mitigation of silica scaling and organic fouling. <i>Water Research</i> , 2020, 185, 116203.	5.3	50
103	Structural Basis for a Quadratic Relationship between Electronic Absorption and Electronic Paramagnetic Resonance Parameters of Type 1 Copper Proteins. <i>Inorganic Chemistry</i> , 2020, 59, 10620-10627.	1.9	0
104	Envisaging wastewater-to-energy practices for sustainable urban water pollution control: Current achievements and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110134.	8.2	16
105	Enhanced anaerobic co-digestion of waste activated sludge and food waste by sulfidated microscale zerovalent iron: Insights in direct interspecies electron transfer mechanism. <i>Bioresource Technology</i> , 2020, 316, 123901.	4.8	67
106	Iron-assisted biological wastewater treatment: Synergistic effect between iron and microbes. <i>Biotechnology Advances</i> , 2020, 44, 107610.	6.0	64
107	Phosphorus Recovery from Wastewater Prominently through a Fe(II)-P Oxidizing Pathway in the Autotrophic Iron-Dependent Denitrification Process. <i>Environmental Science & Technology</i> , 2020, 54, 11576-11583.	4.6	27
108	Editorial overview: Microbial "cell factory" for bioenergy production from low-value carbon sources. <i>Current Opinion in Chemical Biology</i> , 2020, 59, A4-A6.	2.8	0

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109	Developing a population-state decision system for intelligently reprogramming extracellular electron transfer in <i>Shewanella oneidensis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23001-23010.	3.3	29
110	The fate and impact of TCC in nitrifying cultures. Water Research, 2020, 178, 115851.	5.3	28
111	Sustainable production of value-added carbon nanomaterials from biomass pyrolysis. Nature Sustainability, 2020, 3, 753-760.	11.5	124
112	Molecular Insights into Extracellular Polymeric Substances in Activated Sludge. Environmental Science & Technology, 2020, 54, 7742-7750.	4.6	213
113	Performance and Mechanism of Potassium Ferrate(VI) Enhancing Dark Fermentative Hydrogen Accumulation from Waste Activated Sludge. ACS Sustainable Chemistry and Engineering, 2020, 8, 8681-8691.	3.2	25
114	Longer persistence of quorum quenching bacteria over quorum sensing bacteria in aerobic granules. Water Research, 2020, 179, 115904.	5.3	21
115	Electron transfer via the non-Mtr respiratory pathway from <i>Shewanella putrefaciens</i> CN-32 for methyl orange bioreduction. Process Biochemistry, 2020, 95, 108-114.	1.8	6
116	Enhanced full solar spectrum photocatalysis by nitrogen-doped graphene quantum dots decorated BiO _{2-x} nanosheets: Ultrafast charge transfer and molecular oxygen activation. Applied Catalysis B: Environmental, 2020, 277, 119218.	10.8	79
117	Probing protein-induced membrane fouling with in-situ attenuated total reflectance fourier transform infrared spectroscopy and multivariate curve resolution-alternating least squares. Water Research, 2020, 183, 116052.	5.3	22
118	Pb(II) Adsorption by Nano-Goethite Loaded with Chestnut Shell Pigment. Emerging Materials Research, 2020, 9, 1-10.	0.4	2
119	Selective electrochemical CO ₂ reduction on Cu-Pd heterostructure. Applied Catalysis B: Environmental, 2020, 270, 118864.	10.8	66
120	Deteriorated biofilm-forming capacity and electroactivity of <i>Shewanella oneidensis</i> MR-1 induced by insertion sequence (IS) elements. Biosensors and Bioelectronics, 2020, 156, 112136.	5.3	6
121	Probing Microbial Extracellular Respiration Ability Using Riboflavin. Analytical Chemistry, 2020, 92, 10606-10612.	3.2	14
122	Stable Electrochemical Determination of Dopamine by a Fluorine-Terminated {001}-Exposed TiO ₂ Single Crystal Sensor. Analytical Chemistry, 2020, 92, 9629-9639.	3.2	10
123	Electrochemical Cr(VI) removal from aqueous media using titanium as anode: Simultaneous indirect electrochemical reduction of Cr(VI) and in-situ precipitation of Cr(III). Chemosphere, 2020, 260, 127537.	4.2	71
124	Fluorescence Sensor Based on Biosynthetic CdSe/CdS Quantum Dots and Liposome Carrier Signal Amplification for Mercury Detection. Analytical Chemistry, 2020, 92, 3990-3997.	3.2	81
125	Redirecting Electron Flux with an Engineered CRISPR-ddAsCpf1 System to Enhance the Pollutant Degradation Capacity of <i>Shewanella oneidensis</i> . Environmental Science & Technology, 2020, 54, 3599-3608.	4.6	38
126	Norfloxacin-induced effect on enhanced biological phosphorus removal from wastewater after long-term exposure. Journal of Hazardous Materials, 2020, 392, 122336.	6.5	21

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127	Increasing Poly(ethylene oxide) Stability to 4.5 V by Surface Coating of the Cathode. ACS Energy Letters, 2020, 5, 826-832.	8.8	192
128	Promoting bidirectional extracellular electron transfer of <i>Shewanella oneidensis</i> for hexavalent chromium reduction via elevating intracellular cAMP level. Biotechnology and Bioengineering, 2020, 117, 1294-1303.	1.7	48
129	Efficient electrochemical production of glucaric acid and H ₂ via glucose electrolysis. Nature Communications, 2020, 11, 265.	5.8	280
130	Effect of citric acid on extracellular polymeric substances disruption and cell lysis in the waste activated sludge by pH regulation. Bioresource Technology, 2020, 302, 122859.	4.8	31
131	Developing a base editing system to expand the carbon source utilization spectra of <i>Shewanella oneidensis</i> for enhanced pollutant degradation. Biotechnology and Bioengineering, 2020, 117, 2389-2400.	1.7	29
132	Modified MIL-100(Fe) for enhanced photocatalytic degradation of tetracycline under visible-light irradiation. Journal of Colloid and Interface Science, 2020, 574, 364-376.	5.0	100
133	Simultaneous evaluation of bioactivity and settleability of activated sludge using fractal dimension as an intermediate variable. Water Research, 2020, 178, 115834.	5.3	25
134	Raman micro-spectroscopy monitoring of cytochrome c redox state in <i>Candida utilis</i> during cell death under low-temperature plasma-induced oxidative stress. Analyst, The, 2020, 145, 3922-3930.	1.7	14
135	Determination of Saccharides in Environments Using a Sulfuric Acid-Fluorescence Approach. Environmental Science & Technology, 2020, 54, 6632-6638.	4.6	4
136	Electrochemical treatment of phenol-containing wastewater by facet-tailored TiO ₂ : Efficiency, characteristics and mechanisms. Water Research, 2019, 165, 114980.	5.3	58
137	A Near-Infrared Photoactuator Based on Shape Memory Semicrystalline Polymers toward Light-Fueled Crane, Grasper, and Walker. Advanced Optical Materials, 2019, 7, 1900784.	3.6	34
138	The underlying mechanism of calcium peroxide pretreatment enhancing methane production from anaerobic digestion of waste activated sludge. Water Research, 2019, 164, 114934.	5.3	184
139	Diagnosis of the unexpected fluorescent contaminants in quantifying dissolved organic matter using excitation-emission matrix fluorescence spectroscopy. Water Research, 2019, 163, 114873.	5.3	19
140	Acid-stimulated bioassembly of high-performance quantum dots in <i>Escherichia coli</i> . Journal of Materials Chemistry A, 2019, 7, 18480-18487.	5.2	16
141	Microwave pretreatment of polyacrylamide flocculated waste activated sludge: Effect on anaerobic digestion and polyacrylamide degradation. Bioresource Technology, 2019, 290, 121776.	4.8	31
142	Recent advances in photo-activated sulfate radical-advanced oxidation process (SR-AOP) for refractory organic pollutants removal in water. Chemical Engineering Journal, 2019, 378, 122149.	6.6	401
143	Hierarchical H-MOR Zeolite Supported Vanadium Oxide for Dimethyl Ether Direct Oxidation. Catalysts, 2019, 9, 628.	1.6	6
144	Modification of forward osmosis membrane with naturally-available humic acid: Towards simultaneously improved filtration performance and antifouling properties. Environment International, 2019, 131, 105045.	4.8	9

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145	Silica Removal Using Magnetic Iron-Aluminum Hybrid Nanomaterials: Measurements, Adsorption Mechanisms, and Implications for Silica Scaling in Reverse Osmosis. <i>Environmental Science & Technology</i> , 2019, 53, 13302-13311.	4.6	22
146	Single-molecule and -particle probing crystal edge/corner as highly efficient photocatalytic sites on a single TiO ₂ particle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18827-18833.	3.3	54
147	Carbon-Based Catalyst Synthesized and Immobilized under Calcium Salt Assistance To Boost Singlet Oxygen Evolution for Pollutant Degradation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43180-43187.	4.0	34
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