

Zhen He

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

251
papers

14,944
citations

68
h-index

113
g-index

260
ext. papers

16,911
ext. citations

9.2
avg, IF

7.39
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 251 | Activation of persulfate for degradation of sodium dodecyl sulfate by a hybrid catalyst hematite/cuprous sulfide with enhanced Fe/Fe redox cycling.. <i>Chemosphere</i> , 2022 , 133839 | 8.4 | 0 |
| 250 | Liquid-Liquid Phase Separation in Nucleation Process of Biomineralization.. <i>Frontiers in Chemistry</i> , 2022 , 10, 834503 | 5 | 0 |
| 249 | Hematite/selenium disulfide hybrid catalyst for enhanced Fe(III)/Fe(II) redox cycling in advanced oxidation processes. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127376 | 12.8 | 4 |
| 248 | Microbial electrochemical ammonia recovery from anaerobic digester centrate and subsequent application to fertilize Arabidopsis thaliana. <i>Water Research</i> , 2022 , 220, 118667 | 12.5 | 2 |
| 247 | EDTA-Na as a recoverable draw solute for water extraction in forward osmosis.. <i>Environmental Research</i> , 2021 , 205, 112521 | 7.9 | 0 |
| 246 | Ammonia recovery from simulated anaerobic digestate using a two-stage direct contact membrane distillation process. <i>Water Environment Research</i> , 2021 , 93, 1619-1626 | 2.8 | 0 |
| 245 | Enhanced volatile fatty acids accumulation in anaerobic digestion through arresting methanogenesis by using hydrogen peroxide. <i>Water Environment Research</i> , 2021 , 93, 2051-2059 | 2.8 | 2 |
| 244 | Enhancing anammox resistance to low operating temperatures with the use of PVA gel beads. <i>Science of the Total Environment</i> , 2021 , 774, 144826 | 10.2 | 6 |
| 243 | Effects of operating parameters on salinity accumulation in a bioelectrochemically-assisted osmotic membrane bioreactor. <i>Bioresource Technology</i> , 2021 , 319, 124208 | 11 | 0 |
| 242 | A comprehensive review of nutrient-energy-water-solute recovery by hybrid osmotic membrane bioreactors. <i>Bioresource Technology</i> , 2021 , 320, 124300 | 11 | 9 |
| 241 | Enhancing the performance of a microbial electrochemical system with carbon-based dynamic membrane as both anode electrode and filtration media. <i>Environmental Science: Water Research and Technology</i> , 2021 , 7, 870-878 | 4.2 | 2 |
| 240 | Biophotocatalysis for renewable energy and environmental applications. <i>IScience</i> , 2021 , 24, 102828 | 12.8 | 5 |
| 239 | Enhanced microalgae cultivation using wastewater nutrients extracted by a microbial electrochemical system. <i>Water Research</i> , 2021 , 206, 117722 | 12.5 | 0 |
| 238 | A facile and fast strategy for cathodic electroactive-biofilm assembly via magnetic nanoparticle bioconjugation. <i>Biosensors and Bioelectronics</i> , 2021 , 190, 113464 | 11.8 | 2 |
| 237 | Electrolysis-assisted recovery of reverse-fluxed solutes in forward osmosis. <i>Desalination</i> , 2021 , 520, 115346 | 14.6 | 0 |
| 236 | Mitigating nutrient accumulation with microalgal growth towards enhanced nutrient removal and biomass production in an osmotic photobioreactor. <i>Water Research</i> , 2020 , 182, 116038 | 12.5 | 9 |
| 235 | Decreased formation of disinfection by-products during electrochemical leachate oxidation and their post-removal by electro-adsorption. <i>Science of the Total Environment</i> , 2020 , 730, 139171 | 10.2 | 9 |

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| 234 | Resource recovery from wastewater can be an application niche of microbial desalination cells. <i>Environment International</i> , 2020 , 142, 105855 | 12.9 | 10 |
| 233 | Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater – a perspective. <i>Environmental Science: Nano</i> , 2020 , 7, 2178-2194 | 7.1 | 31 |
| 232 | Efficient Photoelectron Capture by Ni Decoration in Methanosarcina barkeri-CdS Biohybrids for Enhanced Photocatalytic CO-to-CH Conversion. <i>IScience</i> , 2020 , 23, 101287 | 6.1 | 21 |
| 231 | Effects of bacterial inoculation and nitrogen loading on bacterial-algal consortium composition and functions in an integrated photobioelectrochemical system. <i>Science of the Total Environment</i> , 2020 , 716, 137135 | 10.2 | 5 |
| 230 | Powering microbial electrolysis cells by electricity generation from simulated waste heat of anaerobic digesters using thermoelectric generators. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 4065-4072 | 6.7 | 6 |
| 229 | Electrochemical nitrate removal with simultaneous magnesium recovery from a mimicked RO brine assisted by in situ chloride ions. <i>Journal of Hazardous Materials</i> , 2020 , 388, 122085 | 12.8 | 18 |
| 228 | Synergistically coupling membrane electrochemical reactor with Fenton process to enhance landfill leachate treatment. <i>Chemosphere</i> , 2020 , 247, 125954 | 8.4 | 11 |
| 227 | Novel design of volume of detention tanks assisted by a multi-source pollution overflow model towards pollution control in urban drainage basins. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 12781-12791 | 5.1 | 4 |
| 226 | Grape pomace and its secondary waste management: Biochar production for a broad range of lead (Pb) removal from water. <i>Environmental Research</i> , 2020 , 186, 109442 | 7.9 | 24 |
| 225 | Minimizing effects of chloride and calcium towards enhanced nutrient recovery from sidestream centrate in a decoupled electrodialysis driven by solar energy. <i>Journal of Cleaner Production</i> , 2020 , 263, 121419 | 10.3 | 8 |
| 224 | Improving hydrogen production in microbial electrolysis cells through hydraulic connection with thermoelectric generators. <i>Process Biochemistry</i> , 2020 , 94, 51-57 | 4.8 | 8 |
| 223 | Bioelectrochemically assisted osmotic membrane bioreactor with reusable polyelectrolyte draw solutes. <i>Bioresource Technology</i> , 2020 , 296, 122352 | 11 | 6 |
| 222 | University-utility partnerships: Best practices for water innovation and collaboration. <i>Water Environment Research</i> , 2020 , 92, 314-319 | 2.8 | 2 |
| 221 | Flexible control of biohythane composition and production by dual cathodes in a bioelectrochemical system. <i>Bioresource Technology</i> , 2020 , 295, 122270 | 11 | 3 |
| 220 | Reduction of reverse solute flux induced solute buildup in the feed solution of forward osmosis. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 423-435 | 4.2 | 8 |
| 219 | Dominant formation of unregulated disinfection by-products during electrocoagulation treatment of landfill leachate. <i>Environmental Research</i> , 2020 , 182, 109006 | 7.9 | 8 |
| 218 | Selective recovery of lead and zinc through controlling cathodic potential in a bioelectrochemically-assisted electrodeposition system. <i>Journal of Hazardous Materials</i> , 2020 , 386, 121941 | 12.8 | 20 |
| 217 | Resource recovery from wastewater by bioelectrochemical systems 2020 , 183-200 | | |

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| 216 | Frontier review on metal removal in bioelectrochemical systems: mechanisms, performance, and perspectives. <i>Journal of Hazardous Materials Letters</i> , 2020 , 1, 100002 | 3.3 | 7 |
| 215 | Integration of membranes into bioelectrochemical systems for enhanced treatment performance 2020 , 35-51 | | |
| 214 | Electrochemical Relithiation for Direct Regeneration of LiCoO ₂ Materials from Spent Lithium-Ion Battery Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 11596-11605 | 8.3 | 27 |
| 213 | Enhanced Performance of Microbial Fuel Cells with Electron Mediators from Anthraquinone/Polyphenol-Abundant Herbal Plants. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 11263-11275 | 8.3 | 8 |
| 212 | Toward enhanced performance of integrated photo-bioelectrochemical systems: Taxa and functions in bacteria-algae communities. <i>Current Opinion in Chemical Biology</i> , 2020 , 59, 130-139 | 9.7 | 6 |
| 211 | Demystifying terms for understanding bioelectrochemical systems towards sustainable wastewater treatment. <i>Current Opinion in Electrochemistry</i> , 2020 , 19, 14-19 | 7.2 | 17 |
| 210 | Formation of disinfection byproducts during Fenton's oxidation of chloride-rich landfill leachate. <i>Journal of Hazardous Materials</i> , 2020 , 382, 121213 | 12.8 | 13 |
| 209 | Exceptional capacitive deionization rate and capacity by block copolymer-based porous carbon fibers. <i>Science Advances</i> , 2020 , 6, eaaz0906 | 14.3 | 47 |
| 208 | Energy advantage of anode electrode rotation over anolyte recirculation for operating a tubular microbial fuel cell. <i>Electrochemistry Communications</i> , 2019 , 106, 106529 | 5.1 | 8 |
| 207 | Life Cycle Environmental Impact Comparison of Bioelectrochemical Systems for Wastewater Treatment. <i>Procedia CIRP</i> , 2019 , 80, 382-388 | 1.8 | 15 |
| 206 | Mitigation of solute buildup by using a biodegradable and reusable polyelectrolyte as a draw solute in an osmotic membrane bioreactor. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 19-27 | 4.2 | 10 |
| 205 | Ammonia removal and recovery from diluted forward osmosis draw solution by using a tubular microbial desalination cell. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 224-230 | 4.2 | 11 |
| 204 | Bioelectrochemical deposition of palladium nanoparticles as catalysts by <i>Shewanella oneidensis</i> MR-1 towards enhanced hydrogen production in microbial electrolysis cells. <i>Electrochimica Acta</i> , 2019 , 318, 794-800 | 6.7 | 25 |
| 203 | Production of electricity and water in an osmotic microbial fuel cell by using EDTA-Na as a recoverable draw solute. <i>Science of the Total Environment</i> , 2019 , 677, 382-389 | 10.2 | 14 |
| 202 | Utilization of residual organics of Labaneh whey for renewable energy generation through bioelectrochemical processes: Strategies for enhanced substrate conversion and energy generation. <i>Bioresource Technology</i> , 2019 , 286, 121409 | 11 | 19 |
| 201 | Light-driven nitrous oxide production via autotrophic denitrification by self-photosensitized <i>Thiobacillus denitrificans</i> . <i>Environment International</i> , 2019 , 127, 353-360 | 12.9 | 50 |
| 200 | Theoretical understanding of the optimum conditions for a mainstream granular nitrification-anammox reactor coupled with anaerobic pretreatment. <i>Science of the Total Environment</i> , 2019 , 669, 683-691 | 10.2 | 11 |
| 199 | Sustainable management of landfill leachate concentrate through recovering humic substance as liquid fertilizer by loose nanofiltration. <i>Water Research</i> , 2019 , 157, 555-563 | 12.5 | 42 |

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| 198 | Examination of inorganic-based draw solutes and mitigation of their reverse solute flux in osmotic microbial fuel cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 2107-2114 | 3.5 | 4 |
| 197 | Mitigation of bidirectional solute flux in forward osmosis via membrane surface coating of zwitterion functionalized carbon nanotubes. <i>Environment International</i> , 2019 , 131, 104970 | 12.9 | 17 |
| 196 | Light-driven carbon dioxide reduction to methane by <i>Methanosarcina barkeri</i> -CdS biohybrid. <i>Applied Catalysis B: Environmental</i> , 2019 , 257, 117916 | 21.8 | 48 |
| 195 | Removal of landfill leachate ultraviolet quenching substances by electricity induced humic acid precipitation and electrooxidation in a membrane electrochemical reactor. <i>Science of the Total Environment</i> , 2019 , 689, 571-579 | 10.2 | 13 |
| 194 | Precise control of iron activating persulfate by current generation in an electrochemical membrane reactor. <i>Environment International</i> , 2019 , 131, 105024 | 12.9 | 19 |
| 193 | LINC00473/miR-497-5p Regulates Esophageal Squamous Cell Carcinoma Progression Through Targeting PRKAA1. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2019 , 34, 650-659 | 3.9 | 19 |
| 192 | Reduction of reagent requirements and sludge generation in Fenton's oxidation of landfill leachate by synergistically incorporating forward osmosis and humic acid recovery. <i>Water Research</i> , 2019 , 151, 310-317 | 12.5 | 35 |
| 191 | Critical review of bioelectrochemical systems integrated with membrane-based technologies for desalination, energy self-sufficiency, and high-efficiency water and wastewater treatment. <i>Desalination</i> , 2019 , 452, 40-67 | 10.3 | 69 |
| 190 | Tackle reverse solute flux in forward osmosis towards sustainable water recovery: reduction and perspectives. <i>Water Research</i> , 2019 , 149, 362-374 | 12.5 | 57 |
| 189 | Effects of external recirculation on a two-stage mainstream anaerobic-anammox treatment system. <i>Water Environment Research</i> , 2019 , 91, 87-92 | 2.8 | 4 |
| 188 | Forward osmosis promoted in-situ formation of struvite with simultaneous water recovery from digested swine wastewater. <i>Chemical Engineering Journal</i> , 2018 , 342, 274-280 | 14.7 | 47 |
| 187 | Enhancing forward osmosis water recovery from landfill leachate by desalinating brine and recovering ammonia in a microbial desalination cell. <i>Bioresource Technology</i> , 2018 , 255, 76-82 | 11 | 38 |
| 186 | Enhancing sludge methanogenesis with improved redox activity of extracellular polymeric substances by hematite in red mud. <i>Water Research</i> , 2018 , 134, 54-62 | 12.5 | 97 |
| 185 | Biosynthesis of palladium nanoparticles using <i>Shewanella loihica</i> PV-4 for excellent catalytic reduction of chromium(VI). <i>Environmental Science: Nano</i> , 2018 , 5, 730-739 | 7.1 | 47 |
| 184 | Effective algal harvesting by using mesh membrane for enhanced energy recovery in an innovative integrated photobioelectrochemical system. <i>Bioresource Technology</i> , 2018 , 253, 33-40 | 11 | 9 |
| 183 | Enhanced treatment of petroleum refinery wastewater by short-term applied voltage in single chamber microbial fuel cell. <i>Bioresource Technology</i> , 2018 , 253, 16-21 | 11 | 55 |
| 182 | Modeling assisted evaluation of direct electricity generation from waste heat of wastewater via a thermoelectric generator. <i>Science of the Total Environment</i> , 2018 , 635, 1215-1224 | 10.2 | 14 |
| 181 | Evaluation of energy consumption of treating nitrate-contaminated groundwater by bioelectrochemical systems. <i>Science of the Total Environment</i> , 2018 , 636, 881-890 | 10.2 | 42 |

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| 180 | Highly-efficient photocatalytic disinfection of Escherichia coli under visible light using carbon supported Vanadium Tetrasulfide nanocomposites. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 383-393 | 21.8 | 72 |
| 179 | Cylindrical graphite based microbial fuel cell for the treatment of industrial wastewaters and bioenergy generation. <i>Bioresource Technology</i> , 2018 , 247, 753-758 | 11 | 42 |
| 178 | Response of enhanced sludge methanogenesis by red mud to temperature: Spectroscopic and electrochemical elucidation of endogenous redox mediators. <i>Water Research</i> , 2018 , 143, 240-249 | 12.5 | 19 |
| 177 | Nitrogen removal from water of recirculating aquaculture system by a microbial fuel cell. <i>Aquaculture</i> , 2018 , 497, 74-81 | 4.4 | 16 |
| 176 | Life cycle assessment of a microbial desalination cell for sustainable wastewater treatment and saline water desalination. <i>Journal of Cleaner Production</i> , 2018 , 200, 900-910 | 10.3 | 26 |
| 175 | NEW Resource recovery from wastewater using bioelectrochemical systems: Moving forward with functions. <i>Frontiers of Environmental Science and Engineering</i> , 2018 , 12, 1 | 5.8 | 35 |
| 174 | A review of landfill leachate induced ultraviolet quenching substances: Sources, characteristics, and treatment. <i>Water Research</i> , 2018 , 145, 297-311 | 12.5 | 66 |
| 173 | Efficiently "pumping out" value-added resources from wastewater by bioelectrochemical systems: A review from energy perspectives. <i>Water Research</i> , 2018 , 131, 62-73 | 12.5 | 90 |
| 172 | Passive separation of recovered ammonia from catholyte for reduced energy consumption in microbial electrolysis cells. <i>Chemical Engineering Journal</i> , 2018 , 334, 2303-2307 | 14.7 | 25 |
| 171 | Enhancing recovery of magnesium as struvite from landfill leachate by pretreatment of calcium with simultaneous reduction of liquid volume via forward osmosis. <i>Science of the Total Environment</i> , 2018 , 610-611, 137-146 | 10.2 | 37 |
| 170 | Cathode-enhanced wastewater treatment in bioelectrochemical systems. <i>Npj Clean Water</i> , 2018 , 1, | 11.2 | 16 |
| 169 | Respirometric activities of unacclimatized and mixed culture bacteria in sequencing batch reactor systems in response to acrylamide and its biodegradation products.. <i>RSC Advances</i> , 2018 , 8, 34911-34920 | 3.7 | 2 |
| 168 | Enhanced Removal of Azo Dye by a Bioelectrochemical System Integrated with a Membrane Biofilm Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16433-16441 | 3.9 | 17 |
| 167 | Status, Challenges, and Perspectives of Mainstream Nitritation-Anammox for Wastewater Treatment. <i>Water Environment Research</i> , 2018 , 90, 634-649 | 2.8 | 46 |
| 166 | Enhancing the performance of an osmotic microbial fuel cell through self-buffering with reverse-fluxed sodium bicarbonate. <i>Chemical Engineering Journal</i> , 2018 , 349, 241-248 | 14.7 | 23 |
| 165 | Bioelectrochemically-assisted mitigation of salinity buildup and recovery of reverse-fluxed draw solute in an osmotic membrane bioreactor. <i>Water Research</i> , 2018 , 141, 259-267 | 12.5 | 19 |
| 164 | Bioelectricity generation from treatment of petroleum refinery wastewater with simultaneous seawater desalination in microbial desalination cells. <i>Energy Conversion and Management</i> , 2017 , 141, 101-107 | 10.6 | 48 |
| 163 | Enhancing hydrogen production in microbial electrolysis cells by in situ hydrogen oxidation for self-buffering pH through periodic polarity reversal. <i>Journal of Power Sources</i> , 2017 , 347, 21-28 | 8.9 | 18 |

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| 162 | Development of Microbial Fuel Cells Needs To Go beyond Power Density ACS Energy Letters, 2017 , 2, 700-702 | 20.1 | 38 |
| 161 | Ensemble engineering and statistical modeling for parameter calibration towards optimal design of microbial fuel cells. <i>Journal of Power Sources</i> , 2017 , 356, 288-298 | 8.9 | 12 |
| 160 | Electrolysis-assisted mitigation of reverse solute flux in a three-chamber forward osmosis system. <i>Water Research</i> , 2017 , 115, 111-119 | 12.5 | 14 |
| 159 | Ammonium removal from synthetic wastewater promoted by current generation and water flux in an osmotic microbial fuel cell. <i>Journal of Cleaner Production</i> , 2017 , 149, 856-862 | 10.3 | 51 |
| 158 | Mathematical modeling of the dynamic behavior of an integrated photo-bioelectrochemical system for simultaneous wastewater treatment and bioenergy recovery. <i>Energy</i> , 2017 , 124, 227-237 | 7.9 | 15 |
| 157 | Enhanced nitrogen removal by membrane-aerated nitrification-anammox in a bioelectrochemical system. <i>Bioresource Technology</i> , 2017 , 238, 22-29 | 11 | 31 |
| 156 | Resource recovery by osmotic bioelectrochemical systems towards sustainable wastewater treatment. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 583-592 | 4.2 | 17 |
| 155 | Nutrient-energy-water recovery from synthetic sidestream centrate using a microbial electrolysis cell - forward osmosis hybrid system. <i>Journal of Cleaner Production</i> , 2017 , 154, 16-25 | 10.3 | 68 |
| 154 | Platinum Group Metal-free Catalysts for Hydrogen Evolution Reaction in Microbial Electrolysis Cells. <i>Chemical Record</i> , 2017 , 17, 641-652 | 6.6 | 23 |
| 153 | Simultaneous formation of nanoscale zero-valent iron and degradation of nitrobenzene in wastewater in an impinging stream-rotating packed bed reactor. <i>Chemical Engineering Journal</i> , 2017 , 321, 564-571 | 14.7 | 50 |
| 152 | Energy consumption by forward osmosis treatment of landfill leachate for water recovery. <i>Waste Management</i> , 2017 , 63, 284-291 | 8.6 | 51 |
| 151 | Unravelling and Reconstructing the Nexus of Salinity, Electricity, and Microbial Ecology for Bioelectrochemical Desalination. <i>Environmental Science & Technology</i> , 2017 , 51, 12672-12682 | 10.3 | 18 |
| 150 | Percarbonate oxidation of landfill leachates towards removal of ultraviolet quenchers. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 1162-1170 | 4.2 | 10 |
| 149 | Simultaneous energy generation and UV quencher removal from landfill leachate using a microbial fuel cell. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 26040-26048 | 5.1 | 10 |
| 148 | Mainstream upflow nitrification-anammox system with hybrid anaerobic pretreatment: Long-term performance and microbial community dynamics. <i>Water Research</i> , 2017 , 125, 298-308 | 12.5 | 88 |
| 147 | A thermal model for nanosecond pulsed laser ablation of aluminum. <i>AIP Advances</i> , 2017 , 7, 075010 | 1.5 | 15 |
| 146 | Microbial reduction of vanadium (V) in groundwater: Interactions with coexisting common electron acceptors and analysis of microbial community. <i>Environmental Pollution</i> , 2017 , 231, 1362-1369 | 9.3 | 61 |
| 145 | Sustainable operation of osmotic microbial fuel cells through effective reproduction of polyelectrolyte draw solutes facilitated by cathodic pH increase. <i>Journal of Cleaner Production</i> , 2017 , 168, 1143-1149 | 10.3 | 16 |

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| 144 | Efficient recovery of polyelectrolyte draw solutes in forward osmosis towards sustainable water treatment. <i>Desalination</i> , 2017 , 422, 134-141 | 10.3 | 24 |
| 143 | Effective control of biohythane composition through operational strategies in an innovative microbial electrolysis cell. <i>Applied Energy</i> , 2017 , 206, 879-886 | 10.7 | 31 |
| 142 | Rapid Photocatalytic Decolorization of Methyl Orange under Visible Light Using VS4/Carbon Powder Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7690-7699 | 8.3 | 66 |
| 141 | Electrodialysis recovery of reverse-fluxed fertilizer draw solute during forward osmosis water treatment. <i>Chemical Engineering Journal</i> , 2017 , 330, 550-558 | 14.7 | 28 |
| 140 | Treatment of metallurgical industry wastewater for organic contaminant removal in China: status, challenges, and perspectives. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 1015-1031 | 14.2 | 36 |
| 139 | Emulsified behaviors for the formation of Methanol-Diesel oil under high gravity environment. <i>Energy</i> , 2017 , 141, 2387-2396 | 7.9 | 4 |
| 138 | Integrated experimental and modeling evaluation of energy consumption for ammonia recovery in bioelectrochemical systems. <i>Chemical Engineering Journal</i> , 2017 , 327, 924-931 | 14.7 | 34 |
| 137 | Optimal interval of periodic polarity reversal under automated control for maximizing hydrogen production in microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 20260-20268 | 6.7 | 6 |
| 136 | Applications of high gravity technologies for wastewater treatment: A review. <i>Chemical Engineering Journal</i> , 2017 , 313, 912-927 | 14.7 | 74 |
| 135 | Algal-microbial community collaboration for energy recovery and nutrient remediation from wastewater in integrated photobioelectrochemical systems. <i>Algal Research</i> , 2017 , 24, 527-539 | 5 | 34 |
| 134 | Energy consumption of water recovery from wastewater in a submerged forward osmosis system using commercial liquid fertilizer as a draw solute. <i>Separation and Purification Technology</i> , 2017 , 174, 432-438 | 8.3 | 32 |
| 133 | Effects of current generation and electrolyte pH on reverse salt flux across thin film composite membrane in osmotic microbial fuel cells. <i>Water Research</i> , 2016 , 105, 583-590 | 12.5 | 28 |
| 132 | Ni-Coated Carbon Fiber as an Alternative Cathode Electrode Material to Improve Cost Efficiency of Microbial Fuel Cells. <i>Electrochimica Acta</i> , 2016 , 222, 338-346 | 6.7 | 27 |
| 131 | Energy Consumption by Recirculation: A Missing Parameter When Evaluating Forward Osmosis. <i>Environmental Science & Technology</i> , 2016 , 50, 6827-9 | 10.3 | 32 |
| 130 | Enhanced disinfection of Escherichia coli and bacteriophage MS2 in water using a copper and silver loaded titanium dioxide nanowire membrane. <i>Frontiers of Environmental Science and Engineering</i> , 2016 , 10, 1 | 5.8 | 33 |
| 129 | Development of a dynamic mathematical model for membrane bioelectrochemical reactors with different configurations. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 3897-906 | 5.1 | 11 |
| 128 | Cathodic fluidized granular activated carbon assisted-membrane bioelectrochemical reactor for wastewater treatment. <i>Separation and Purification Technology</i> , 2016 , 169, 241-246 | 8.3 | 29 |
| 127 | Nitrogen-doped graphene/CoNi alloy encased within bamboo-like carbon nanotube hybrids as cathode catalysts in microbial fuel cells. <i>Journal of Power Sources</i> , 2016 , 307, 561-568 | 8.9 | 113 |

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| 126 | Resource recovery from landfill leachate using bioelectrochemical systems: Opportunities, challenges, and perspectives. <i>Bioresource Technology</i> , 2016 , 201, 347-54 | 11 | 84 |
| 125 | Investigation of multiphysics in tubular microbial fuel cells by coupled computational fluid dynamics with multi-order Butler-Volmer reactions. <i>Chemical Engineering Journal</i> , 2016 , 296, 377-385 | 14.7 | 19 |
| 124 | Long-term performance of a 200 liter modularized microbial fuel cell system treating municipal wastewater: treatment, energy, and cost. <i>Environmental Science: Water Research and Technology</i> , 2016 , 2, 274-281 | 4.2 | 158 |
| 123 | Nitrogen removal by granular nitrification-anammox in an upflow membrane-aerated biofilm reactor. <i>Water Research</i> , 2016 , 94, 23-31 | 12.5 | 120 |
| 122 | Real-Time Trajectory Planning for Autonomous Urban Driving: Framework, Algorithms, and Verifications. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 740-753 | 5.5 | 134 |
| 121 | Mathematical modeling assisted investigation of forward osmosis as pretreatment for microbial desalination cells to achieve continuous water desalination and wastewater treatment. <i>Journal of Membrane Science</i> , 2016 , 502, 116-123 | 9.6 | 37 |
| 120 | Bioelectricity inhibits back diffusion from the anolyte into the desalinated stream in microbial desalination cells. <i>Water Research</i> , 2016 , 88, 266-273 | 12.5 | 27 |
| 119 | Integrated experimental investigation and mathematical modeling of a membrane bioelectrochemical reactor with an external membrane module. <i>Chemical Engineering Journal</i> , 2016 , 287, 321-328 | 14.7 | 23 |
| 118 | Recovery of nitrogen and water from landfill leachate by a microbial electrolysis cell-forward osmosis system. <i>Bioresource Technology</i> , 2016 , 200, 485-92 | 11 | 76 |
| 117 | Sustainable Ammonia Recovery from Wastewater by Using Bioelectrochemical Systems. <i>Proceedings of the Water Environment Federation</i> , 2016 , 2016, 484-493 | | |
| 116 | A Review of Modeling Bioelectrochemical Systems: Engineering and Statistical Aspects. <i>Energies</i> , 2016 , 9, 111 | 3.1 | 49 |
| 115 | Mathematical modeling based evaluation and simulation of boron removal in bioelectrochemical systems. <i>Science of the Total Environment</i> , 2016 , 569-570, 1380-1389 | 10.2 | 13 |
| 114 | Understanding Ammonium Transport in Bioelectrochemical Systems towards its Recovery. <i>Scientific Reports</i> , 2016 , 6, 22547 | 4.9 | 20 |
| 113 | □□C Pathway Analysis for the Role of Formate in Electricity Generation by <i>Shewanella Oneidensis</i> MR-1 Using Lactate in Microbial Fuel Cells. <i>Scientific Reports</i> , 2016 , 6, 20941 | 4.9 | 20 |
| 112 | Treatment and desalination of domestic wastewater for water reuse in a four-chamber microbial desalination cell. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 17236-45 | 5.1 | 9 |
| 111 | Enhancing wastewater reuse by forward osmosis with self-diluted commercial fertilizers as draw solutes. <i>Water Research</i> , 2016 , 99, 235-243 | 12.5 | 91 |
| 110 | Membrane aeration as an energy-efficient method for supplying oxygen to microbial fuel cells. <i>RSC Advances</i> , 2016 , 6, 49787-49791 | 3.7 | 8 |
| 109 | Nanoparticulate Ni(OH) ₂ Films Synthesized from Macrocyclic Nickel(II) Cyclam for Hydrogen Production in Microbial Electrolysis Cells. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F437-F442 | 3.9 | 11 |

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| 108 | Long-term performance and microbial community characterization of an osmotic anammox system for removing reverse-fluxed ammonium. <i>Bioresource Technology</i> , 2016 , 211, 628-35 | 11 | 11 |
| 107 | Oxygen reduction reaction catalysts used in microbial fuel cells for energy-efficient wastewater treatment: a review. <i>Materials Horizons</i> , 2016 , 3, 382-401 | 14.4 | 257 |
| 106 | Computational investigation of the flow field contribution to improve electricity generation in granular activated carbon-assisted microbial fuel cells. <i>Journal of Power Sources</i> , 2016 , 333, 83-87 | 8.9 | 26 |
| 105 | Enhanced boron removal by electricity generation in a microbial fuel cell. <i>Desalination</i> , 2016 , 398, 165-170 | 10.3 | 8 |
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