

# Baikun Li

## List of Publications by Year in descending order

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151  
papers

9,710  
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22132

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all docs

167  
docs citations

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times ranked

7526  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Bacterial adhesion to glass and metal-oxide surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004, 36, 81-90.   | 2.5 | 501       |
| 2  | Performance and microbial community analysis of a novel DEAMOX based on partial-denitrification and anammox treating ammonia and nitrate wastewaters. <i>Water Research</i> , 2017, 108, 46-56.  | 5.3 | 416       |
| 3  | Stratification of Extracellular Polymeric Substances (EPS) for Aggregated Anammox Microorganisms. <i>Environmental Science &amp; Technology</i> , 2017, 51, 3260-3268.   | 4.6 | 389       |
| 4  | Detection of nitrifiers and evaluation of partial nitrification for wastewater treatment: A review. <i>Chemosphere</i> , 2015, 140, 85-98.   | 4.2 | 341       |
| 5  | Treating low carbon/nitrogen (C/N) wastewater in simultaneous nitrification-endogenous denitrification and phosphorous removal (SNDPR) systems by strengthening anaerobic intracellular carbon storage. <i>Water Research</i> , 2015, 77, 191-200. | 5.3 | 264       |
| 6  | A pilot-scale study on utilizing multi-anode/cathode microbial fuel cells (MAC MFCs) to enhance the power production in wastewater treatment. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 876-884.                                 | 3.8 | 218       |
| 7  | Characterization of EPS compositions and microbial community in an Anammox SBBR system treating landfill leachate. <i>Bioresource Technology</i> , 2018, 249, 108-116.   | 4.8 | 176       |
| 8  | Mechanisms and microbial structure of partial denitrification with high nitrite accumulation. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 2011-2021.  | 1.7 | 172       |
| 9  | High-throughput profiling of microbial community structures in an ANAMMOX-UASB reactor treating high-strength wastewater. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6457-6467.  | 1.7 | 168       |
| 10 | Manganese dioxide as a new cathode catalyst in microbial fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 2586-2591.   | 4.0 | 165       |
| 11 | Effect of temperature on short chain fatty acids (SCFAs) accumulation and microbiological transformation in sludge alkaline fermentation with Ca(OH) <sub>2</sub> adjustment. <i>Water Research</i> , 2014, 61, 34-45.                             | 5.3 | 162       |
| 12 | A novel simultaneous partial nitrification Anammox and denitrification (SNAD) with intermittent aeration for cost-effective nitrogen removal from mature landfill leachate. <i>Chemical Engineering Journal</i> , 2017, 313, 619-628.              | 6.6 | 159       |
| 13 | The variation of power generation with organic substrates in single-chamber microbial fuel cells (SCMFCs). <i>Bioresource Technology</i> , 2010, 101, 1844-1850.   | 4.8 | 153       |
| 14 | Ammonia Gas Sensor Using Polypyrrole-Coated TiO <sub>2</sub> /ZnO Nanofibers. <i>Electroanalysis</i> , 2009, 21, 1432-1438.  | 1.5 | 150       |
| 15 | Granular activated carbon single-chamber microbial fuel cells (GAC-SCMFCs): A design suitable for large-scale wastewater treatment processes. <i>Biochemical Engineering Journal</i> , 2009, 47, 31-37.  | 1.8 | 142       |
| 16 | Nitrite production in a partial denitrifying upflow sludge bed (USB) reactor equipped with gas automatic circulation (GAC). <i>Water Research</i> , 2016, 90, 309-316.   | 5.3 | 141       |
| 17 | Machine Learning: New Ideas and Tools in Environmental Science and Engineering. <i>Environmental Science &amp; Technology</i> , 2021, 55, 12741-12754.   | 4.6 | 140       |
| 18 | Optimizing energy harvest in wastewater treatment by combining anaerobic hydrogen producing biofermentor (HPB) and microbial fuel cell (MFC). <i>International Journal of Hydrogen Energy</i> , 2010, 35, 3789-3797.                               | 3.8 | 139       |

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|----|--|-----|-----------|
| 19 | Start-up of single-stage partial nitrification-anammox process treating low-strength swage and its restoration from nitrate accumulation. <i>Bioresource Technology</i> , 2016, 218, 771-779.  | 4.8 | 132       |
| 20 | Effect of carbon source type on intracellular stored polymers during endogenous denitrification (ED) treating landfill leachate. <i>Water Research</i> , 2016, 100, 405-412.   | 5.3 | 129       |
| 21 | A batch-mode cube microbial fuel cell based "shock" biosensor for wastewater quality monitoring. <i>Biosensors and Bioelectronics</i> , 2014, 62, 308-314.   | 5.3 | 128       |
| 22 | The effects of carbon electrode surface properties on bacteria attachment and start up time of microbial fuel cells. <i>Carbon</i> , 2014, 67, 128-139.  | 5.4 | 122       |
| 23 | Long-term effect of pH on short-chain fatty acids accumulation and microbial community in sludge fermentation systems. <i>Bioresource Technology</i> , 2015, 197, 56-63.   | 4.8 | 114       |
| 24 | Power generation from wastewater using single chamber microbial fuel cells (MFCs) with platinum-free cathodes and pre-colonized anodes. <i>Biochemical Engineering Journal</i> , 2012, 62, 8-16.                                     | 1.8 | 111       |
| 25 | Enhanced nitrogen and phosphorus removal from municipal wastewater in an anaerobic-aerobic-anoxic sequencing batch reactor with sludge fermentation products as carbon source. <i>Bioresource Technology</i> , 2017, 244, 1158-1165. | 4.8 | 110       |
| 26 | Volatile fatty acids (VFAs) accumulation and microbial community structure of excess sludge (ES) at different pHs. <i>Bioresource Technology</i> , 2014, 152, 124-129.   | 4.8 | 105       |
| 27 | The comparison of alkalinity and ORP as indicators for nitrification and denitrification in a sequencing batch reactor (SBR). <i>Biochemical Engineering Journal</i> , 2007, 34, 248-255.  | 1.8 | 104       |
| 28 | Synergy of partial-denitrification and anammox in continuously fed upflow sludge blanket reactor for simultaneous nitrate and ammonia removal at room temperature. <i>Bioresource Technology</i> , 2019, 274, 386-394.               | 4.8 | 103       |
| 29 | Parameters characterization and optimization of activated carbon (AC) cathodes for microbial fuel cell application. <i>Bioresource Technology</i> , 2014, 163, 54-63.  | 4.8 | 102       |
| 30 | Hydrogen production from diluted molasses by anaerobic hydrogen producing bacteria in an anaerobic baffled reactor (ABR). <i>International Journal of Hydrogen Energy</i> , 2007, 32, 3274-3283.                                     | 3.8 | 101       |
| 31 | Shortcut nitrification "denitrification by real-time control strategies. <i>Bioresource Technology</i> , 2009, 100, 2298-2300.   | 4.8 | 96        |
| 32 | Enhancing ammonium oxidizing bacteria activity was key to single-stage partial nitrification-anammox system treating low-strength sewage under intermittent aeration condition. <i>Bioresource Technology</i> , 2017, 231, 36-44.    | 4.8 | 93        |
| 33 | Power generation and organics removal from wastewater using activated carbon nanofiber (ACNF) microbial fuel cells (MFCs). <i>International Journal of Hydrogen Energy</i> , 2013, 38, 1588-1597.                                    | 3.8 | 91        |
| 34 | Surface Modification of Microbial Fuel Cells Anodes: Approaches to Practical Design. <i>Electrochimica Acta</i> , 2014, 134, 116-126.  | 2.6 | 89        |
| 35 | Microbial Fuel Cells: The Effects of Configurations, Electrolyte Solutions, and Electrode Materials on Power Generation. <i>Applied Biochemistry and Biotechnology</i> , 2010, 160, 168-181.   | 1.4 | 88        |
| 36 | Long term effect of alkali types on waste activated sludge hydrolytic acidification and microbial community at low temperature. <i>Bioresource Technology</i> , 2016, 200, 587-597.  | 4.8 | 84        |

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|----|--|-----|-----------|
| 37 | Activated carbon nanofibers (ACNF) as cathode for single chamber microbial fuel cells (SCMFCs). <i>Journal of Power Sources</i> , 2013, 243, 499-507.  | 4.0 | 83        |
| 38 | Integrated anaerobic ammonium oxidization with partial denitrification process for advanced nitrogen removal from high-strength wastewater. <i>Bioresource Technology</i> , 2016, 221, 37-46.                            | 4.8 | 80        |
| 39 | Power generation and contaminant removal in single chamber microbial fuel cells (SCMFCs) treating human urine. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11543-11551.                                  | 3.8 | 78        |
| 40 | Energy-positive nitrogen removal using the integrated short-cut nitrification and autotrophic denitrification microbial fuel cells (MFCs). <i>Applied Energy</i> , 2016, 163, 352-360.                                   | 5.1 | 78        |
| 41 | Effects of gas diffusion layer (GDL) and micro porous layer (MPL) on cathode performance in microbial fuel cells (MFCs). <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13096-13104.                        | 3.8 | 76        |
| 42 | Short-chain fatty acids production and microbial community in sludge alkaline fermentation: Long-term effect of temperature. <i>Bioresource Technology</i> , 2016, 211, 685-690.   | 4.8 | 75        |
| 43 | A novel stoichiometries methodology to quantify functional microorganisms in simultaneous (partial) nitrification-endogenous denitrification and phosphorus removal (SNEDPR). <i>Water Research</i> , 2016, 95, 319-329. | 5.3 | 73        |
| 44 | Achieve efficient nitrogen removal from real sewage in a plug-flow integrated fixed-film activated sludge (IFAS) reactor via partial nitrification/anammox pathway. <i>Bioresource Technology</i> , 2017, 239, 294-301.  | 4.8 | 73        |
| 45 | A miniaturized electrochemical toxicity biosensor based on graphene oxide quantum dots/carboxylated carbon nanotubes for assessment of priority pollutants. <i>Journal of Hazardous Materials</i> , 2017, 324, 272-280.  | 6.5 | 73        |
| 46 | Recent progress in the detection of emerging contaminants PFASs. <i>Journal of Hazardous Materials</i> , 2021, 408, 124437.  | 6.5 | 72        |
| 47 | Effect of Inoculum Types on Bacterial Adhesion and Power Production in Microbial Fuel Cells. <i>Applied Biochemistry and Biotechnology</i> , 2010, 160, 182-196.   | 1.4 | 69        |
| 48 | Activated carbon nanofiber anodes for microbial fuel cells. <i>Carbon</i> , 2013, 53, 19-28.   | 5.4 | 69        |
| 49 | Achieving simultaneous nitrogen removal of low C/N wastewater and external sludge reutilization in a sequencing batch reactor. <i>Chemical Engineering Journal</i> , 2016, 306, 925-932.                                 | 6.6 | 69        |
| 50 | Simultaneous domestic wastewater and nitrate sewage treatment by DENitrifying AMmonium OXidation (DEAMOX) in sequencing batch reactor. <i>Chemosphere</i> , 2017, 174, 399-407.  | 4.2 | 69        |
| 51 | Degradation pathways, microbial community and electricity properties analysis of antibiotic sulfamethoxazole by bio-electro-Fenton system. <i>Bioresource Technology</i> , 2020, 298, 122501.                            | 4.8 | 68        |
| 52 | Free nitrous acid pretreatment of wasted activated sludge to exploit internal carbon source for enhanced denitrification. <i>Bioresource Technology</i> , 2015, 179, 20-25.  | 4.8 | 66        |
| 53 | Power recovery with multi-anode/cathode microbial fuel cells suitable for future large-scale applications. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 8683-8689.  | 3.8 | 65        |
| 54 | Hybrid binuclear-cobalt-phthalocyanine as oxygen reduction reaction catalyst in single chamber microbial fuel cells. <i>Journal of Power Sources</i> , 2014, 272, 320-327.   | 4.0 | 65        |

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|----|--|-----|-----------|
| 55 | Energy-positive wastewater treatment and desalination in an integrated microbial desalination cell (MDC)-microbial electrolysis cell (MEC). <i>Journal of Power Sources</i> , 2017, 356, 529-538.                                      | 4.0 | 65        |
| 56 | Current generation in membraneless single chamber microbial fuel cells (MFCs) treating urine. <i>Journal of Power Sources</i> , 2013, 238, 190-196.  | 4.0 | 63        |
| 57 | Performance evaluation of activated carbon-based electrodes with novel power management system for long-term benthic microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 21847-21856.                    | 3.8 | 63        |
| 58 | Flat microliter membrane-based microbial fuel cell as "on-line sticker sensor" for self-supported in situ monitoring of wastewater shocks. <i>Bioresource Technology</i> , 2015, 197, 244-251.   | 4.8 | 63        |
| 59 | Advanced nitrogen removal from landfill leachate using real-time controlled three-stage sequence batch reactor (SBR) system. <i>Bioresource Technology</i> , 2014, 159, 258-265.   | 4.8 | 62        |
| 60 | High-efficient nitrogen removal from municipal wastewater via two-stage nitrification/anammox process: Long-term stability assessment and mechanism analysis. <i>Bioresource Technology</i> , 2019, 271, 150-158.                      | 4.8 | 62        |
| 61 | Water formation at the cathode and sodium recovery using Microbial Fuel Cells (MFCs). <i>Sustainable Energy Technologies and Assessments</i> , 2014, 7, 187-194.   | 1.7 | 60        |
| 62 | Metals as electron acceptors in single-chamber microbial fuel cells. <i>Journal of Power Sources</i> , 2014, 269, 430-439.   | 4.0 | 60        |
| 63 | Power generation of microbial fuel cells (MFCs) with low cathodic platinum loading. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 692-700.   | 3.8 | 59        |
| 64 | Disposable self-support paper-based multi-anode microbial fuel cell (PMMFC) integrated with power management system (PMS) as the real time "shock" biosensor for wastewater. <i>Biosensors and Bioelectronics</i> , 2016, 85, 232-239. | 5.3 | 59        |
| 65 | Sensitive Hydrazine Detection Using a Porous Mn <sub>2</sub> O <sub>3</sub> Nanofibers-Based Sensor. <i>Electroanalysis</i> , 2011, 23, 1245-1251.   | 1.5 | 52        |
| 66 | Electricity generation in continuous flow microbial fuel cells (MFCs) with manganese dioxide (MnO <sub>2</sub> ) cathodes. <i>Biochemical Engineering Journal</i> , 2011, 54, 10-15.   | 1.8 | 51        |
| 67 | Advanced nitrogen removal via nitrite using stored polymers in a modified sequencing batch reactor treating landfill leachate. <i>Bioresource Technology</i> , 2015, 192, 354-360.   | 4.8 | 51        |
| 68 | Multiplexed colorimetric detection of SARS-CoV-2 and other pathogens in wastewater on a 3D printed integrated microfluidic chip. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130242.   | 4.0 | 51        |
| 69 | Self-sustained reduction of multiple metals in a microbial fuel cell "microbial electrolysis cell hybrid system. <i>Bioresource Technology</i> , 2015, 192, 238-246.   | 4.8 | 49        |
| 70 | The impact of ultraviolet light on bacterial adhesion to glass and metal oxide-coated surface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 41, 153-161.  | 2.5 | 47        |
| 71 | Stability characterization and modeling of robust distributed benthic microbial fuel cell (DBMFC) system. <i>Bioresource Technology</i> , 2013, 144, 477-484.  | 4.8 | 47        |
| 72 | Towards high power output of scaled-up benthic microbial fuel cells (BMFCs) using multiple electron collectors. <i>Biosensors and Bioelectronics</i> , 2016, 79, 435-441.  | 5.3 | 47        |

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|----|--|-----|-----------|
| 73 | Rapid nitrite production <i>via</i> partial denitrification: pilot-scale operation and microbial community analysis. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 80-86.                           | 1.2 | 45        |
| 74 | High Power Generation by a Membraneless Single Chamber Microbial Fuel Cell (SCMFC) Using Enzymatic Bilirubin Oxidase (BOx) Air-Breathing Cathode. <i>Journal of the Electrochemical Society</i> , 2013, 160, H720-H726.      | 1.3 | 44        |
| 75 | Cobalt porphyrin-based material as methanol tolerant cathode in single chamber microbial fuel cells (SCMFCs). <i>Journal of Power Sources</i> , 2014, 257, 246-253.  | 4.0 | 44        |
| 76 | From Cu <sub>2</sub> (OH) <sub>3</sub> Cl to nanostructured sisal-like Cu(OH) <sub>2</sub> and CuO: Synthesis and characterization. <i>Journal of Applied Physics</i> , 2009, 105, .   | 1.1 | 43        |
| 77 | Bio-Electron-Fenton (BEF) process driven by sediment microbial fuel cells (SMFCs) for antibiotics desorption and degradation. <i>Biosensors and Bioelectronics</i> , 2019, 136, 8-15.  | 5.3 | 43        |
| 78 | Optimizing the production of hydrogen and 1,3-propanediol in anaerobic fermentation of biodiesel glycerol. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 3196-3205.  | 3.8 | 42        |
| 79 | Electro-osmotic-based catholyte production by Microbial Fuel Cells for carbon capture. <i>Water Research</i> , 2015, 86, 108-115.  | 5.3 | 42        |
| 80 | Exposure, health effects, sensing, and remediation of the emerging PFAS contaminants – Scientific challenges and potential research directions. <i>Science of the Total Environment</i> , 2021, 780, 146399.                 | 3.9 | 42        |
| 81 | Optimizing hydrogen production from organic wastewater treatment in batch reactors through experimental and kinetic analysis. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 6171-6180.                         | 3.8 | 41        |
| 82 | Real-time in situ sensing of multiple water quality related parameters using micro-electrode array (MEA) fabricated by inkjet-printing technology (IPT). <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 1108-1119.    | 4.0 | 41        |
| 83 | Bioenergy production from glycerol in hydrogen producing bioreactors (HPBs) and microbial fuel cells (MFCs). <i>International Journal of Hydrogen Energy</i> , 2011, 36, 3853-3861.  | 3.8 | 40        |
| 84 | Real-Time in Situ Monitoring of Nitrogen Dynamics in Wastewater Treatment Processes using Wireless, Solid-State, and Ion-Selective Membrane Sensors. <i>Environmental Science &amp; Technology</i> , 2019, 53, 3140-3148.    | 4.6 | 40        |
| 85 | Toward Long-Term Accurate and Continuous Monitoring of Nitrate in Wastewater Using Poly(tetrafluoroethylene) (PTFE) – Solid-State Ion-Selective Electrodes (S-ISEs). <i>ACS Sensors</i> , 2020, 5, 3182-3193.                | 4.0 | 39        |
| 86 | High-temperature annealing enabled iridium oxide nanofibers for both non-enzymatic glucose and solid-state pH sensing. <i>Electrochimica Acta</i> , 2018, 281, 117-126.  | 2.6 | 38        |
| 87 | Effects of alkali types on waste activated sludge (WAS) fermentation and microbial communities. <i>Chemosphere</i> , 2017, 186, 864-872.   | 4.2 | 35        |
| 88 | Performance of plug flow microbial fuel cell (PF-MFC) and complete mixing microbial fuel cell (CM-MFC) for wastewater treatment and power generation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 5383-5388. | 3.8 | 34        |
| 89 | Integrating waste activated sludge (WAS) acidification with denitrification by adding nitrite (NO <sub>2</sub> <sup>-</sup> ). <i>Biomass and Bioenergy</i> , 2014, 67, 460-465.   | 2.9 | 33        |
| 90 | Determine the operational boundary of a pilot-scale single-stage partial nitrification/anammox system with granular sludge. <i>Water Science and Technology</i> , 2016, 73, 2085-2092.                                       | 1.2 | 33        |

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|-----|--|-----|-----------|
| 91  | Distributed multiple-anodes benthic microbial fuel cell as reliable power source for subsea sensors. <i>Journal of Power Sources</i> , 2015, 286, 210-216.   | 4.0 | 31        |
| 92  | Evaluation of single and combined toxicity of bisphenol A and its analogues using a highly-sensitive micro-biosensor. <i>Journal of Hazardous Materials</i> , 2020, 381, 120908.   | 6.5 | 31        |
| 93  | Electrochemical sensors for nitrogen species: A review. <i>Sensors and Actuators Reports</i> , 2020, 2, 100022.  | 2.3 | 31        |
| 94  | The effect of salinity on waste activated sludge alkaline fermentation and kinetic analysis. <i>Journal of Environmental Sciences</i> , 2016, 43, 80-90.   | 3.2 | 30        |
| 95  | Achieving energy-efficient nitrogen removal and excess sludge reutilization by partial nitrification and simultaneous anammox denitrification and sludge fermentation process. <i>Chemosphere</i> , 2019, 218, 705-714.                          | 4.2 | 30        |
| 96  | Mechanisms of nitrite addition for simultaneous sludge fermentation/nitrite removal (SFNR). <i>Water Research</i> , 2014, 64, 13-22.   | 5.3 | 29        |
| 97  | The effects of wastewater types on power generation and phosphorus removal of microbial fuel cells (MFCs) with activated carbon (AC) cathodes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 21796-21802.                          | 3.8 | 28        |
| 98  | Pyrolyzed binuclear-cobalt-phthalocyanine as electrocatalyst for oxygen reduction reaction in microbial fuel cells. <i>Bioresource Technology</i> , 2015, 193, 545-548.  | 4.8 | 27        |
| 99  | Evaluation of Water Transport and Oxygen Presence in Single Chamber Microbial Fuel Cells with Carbon-Based Cathodes. <i>Journal of the Electrochemical Society</i> , 2013, 160, G3128-G3134.   | 1.3 | 26        |
| 100 | Forward-Looking Roadmaps for Long-Term Continuous Water Quality Monitoring: Bottlenecks, Innovations, and Prospects in a Critical Review. <i>Environmental Science &amp; Technology</i> , 2022, 56, 5334-5354.                                   | 4.6 | 26        |
| 101 | Single chamber microbial fuel cells (SCMFCs) treating wastewater containing methanol. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 2340-2344.   | 3.8 | 23        |
| 102 | Integrating sludge microbial fuel cell with inclined plate settling and membrane filtration for electricity generation, efficient sludge reduction and high wastewater quality. <i>Chemical Engineering Journal</i> , 2018, 331, 152-160.        | 6.6 | 23        |
| 103 | Long-term continuous and real-time in situ monitoring of Pb(II) toxic contaminants in wastewater using solid-state ion selective membrane (S-ISM) Pb and pH auto-correction assembly. <i>Journal of Hazardous Materials</i> , 2020, 400, 123299. | 6.5 | 23        |
| 104 | Flat enzyme-based lactate biofuel cell integrated with power management system: Towards long term in situ power supply for wearable sensors. <i>Applied Energy</i> , 2017, 194, 71-80.   | 5.1 | 22        |
| 105 | Quantitative determination and toxicity evaluation of 2,4-dichlorophenol using poly(eosin) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50   | 1.6 | 20        |
| 106 | La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> nanofibers for in situ, real-time, and stable high temperature oxygen sensing. <i>RSC Advances</i> , 2012, 2, 3872.   | 1.7 | 19        |
| 107 | Novel insights into integrated fermentation and nitrogen removal by free nitrous acid (FNA) serving as treatment method. <i>Journal of Hazardous Materials</i> , 2020, 381, 120835.  | 6.5 | 19        |
| 108 | Enhancing anaerobic fermentation performance through eccentrically stirred mixing: Experimental and modeling methodology. <i>Chemical Engineering Journal</i> , 2018, 334, 1383-1391.  | 6.6 | 18        |

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| 109 | Tunable p <sup>n</sup> transition behaviour of a p-La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> /n-CeO <sub>2</sub> nanofibers heterojunction for the development of selective high temperature propane sensors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11651.                          | 5.2 | 17        |
| 110 | Carbonized Hemoglobin Nanofibers for Enhanced H <sub>2</sub> O <sub>2</sub> Detection. <i>Electroanalysis</i> , 2010, 22, 1911-1917.  | 1.5 | 15        |
| 111 | Towards water-saving irrigation methodology: Field test of soil moisture profiling using flat thin mm-sized soil moisture sensors (MSMSs). <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126857.  | 4.0 | 15        |
| 112 | Miniature microbial fuel cells integrated with triggered power management systems to power wastewater sensors in an uninterrupted mode. <i>Applied Energy</i> , 2021, 302, 117556.  | 5.1 | 15        |
| 113 | Nitrogen-doped Hollow Co <sub>3</sub> O <sub>4</sub> Nanofibers for both Solid-state pH Sensing and Improved Non-enzymatic Glucose Sensing. <i>Electroanalysis</i> , 2019, 31, 678-687.   | 1.5 | 14        |
| 114 | Real-time in situ auto-correction of K <sup>+</sup> interference for continuous and long-term NH <sub>4</sub> <sup>+</sup> monitoring in wastewater using solid-state ion selective membrane (S-ISM) sensor assembly. <i>Environmental Research</i> , 2020, 189, 109891.                                      | 3.7 | 14        |
| 115 | Enhancing long-term accuracy and durability of wastewater monitoring using electrosprayed ultra-thin solid-state ion selective membrane sensors. <i>Journal of Membrane Science</i> , 2022, 643, 119997.  | 4.1 | 14        |
| 116 | Enhancing the Understanding of Soil Nitrogen Fate Using a 3D-Electrospray Sensor Roll Casted with a Thin-Layer Hydrogel. <i>Environmental Science &amp; Technology</i> , 2022, 56, 4905-4914.   | 4.6 | 14        |
| 117 | Optimization of denitrifying phosphorus removal in a pre-denitrification anaerobic/anoxic/post-aeration + nitrification sequence batch reactor (pre-A2NSBR) system: Nitrate recycling, carbon/nitrogen ratio and carbon source type. <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1. | 3.3 | 13        |
| 118 | Self-sustained high-rate anammox: from biological to bioelectrochemical processes. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 1022-1031.  | 1.2 | 12        |
| 119 | An integrated E-Tube cap for sample preparation, isothermal amplification and label-free electrochemical detection of DNA. <i>Biosensors and Bioelectronics</i> , 2021, 186, 113306.  | 5.3 | 12        |
| 120 | Solving Sensor Reading Drifting Using Denoising Data Processing Algorithm (DDPA) for Long-Term Continuous and Accurate Monitoring of Ammonium in Wastewater. <i>ACS ES&amp;T Water</i> , 2021, 1, 530-541.  | 2.3 | 12        |
| 121 | Influence of Electrode Characteristics on Coulombic Efficiency (CE) in Microbial Fuel Cells (MFCs) Treating Wastewater. <i>Journal of the Electrochemical Society</i> , 2013, 160, G3117-G3122.   | 1.3 | 10        |
| 122 | Electrospraying Zwitterionic Copolymers as an Effective Biofouling Control for Accurate and Continuous Monitoring of Wastewater Dynamics in a Real-Time and Long-Term Manner. <i>Environmental Science &amp; Technology</i> , 2022, 56, 8176-8186.  | 4.6 | 9         |
| 123 | The Correlation of the Anodic and Cathodic Open Circuit Potential (OCP) and Power Generation in Microbial Fuel Cells (MFCs). <i>ECS Transactions</i> , 2012, 41, 45-53.   | 0.3 | 8         |
| 124 | Effect of Salinity on Enhancing Waste Activated Sludge Alkaline Fermentation at Different Temperatures. <i>Clean - Soil, Air, Water</i> , 2016, 44, 1750-1758.  | 0.7 | 8         |
| 125 | In-situ oil presence sensor using simple-structured upward open-channel microbial fuel cell (UOC-MFC). <i>Biosensors and Bioelectronics: X</i> , 2019, 1, 100014.   | 0.9 | 8         |
| 126 | Effects of Anode and Cathode Areas on Organic Compounds Removal and Power Generation in Membraneless Microbial Fuel Cell (MFC). <i>ECS Transactions</i> , 2012, 41, 57-63.  | 0.3 | 7         |



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|-----|--|-----|-----------|
| 127 | A biomass-based marine sediment energy harvesting system. , 2013, , .  |     | 7         |
| 128 | Flat flexible thin milli-electrode array for real-time in situ water quality monitoring in distribution systems. Environmental Science: Water Research and Technology, 2017, 3, 865-874.   | 1.2 | 7         |
| 129 | Flat thin mm-sized soil moisture sensor (MSMS) fabricated by gold compact discs etching for real-time in situ profiling. Sensors and Actuators B: Chemical, 2018, 255, 1166-1172.  | 4.0 | 7         |
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