Luguang Wang

List of Publications by Year
in descending order

20 papers	906 citations	516215 16 h-index	752256 20 g-index
20 all docs	20 docs citations	20 times ranked	1135 citing authors

#	Article	IF	Citations
1	Extraordinary expansion of a Sorangium cellulosum genome from an alkaline milieu. Scientific Reports, 2013, 3, 2101.	1.6	143
2	Prediction of anaerobic digestion performance and identification of critical operational parameters using machine learning algorithms. Bioresource Technology, 2020, 298, 122495.	4.8	119
3	Electrocatalytic Hydrogen Evolution in Neutral pH Solutions: Dual-Phase Synergy. ACS Catalysis, 2019, 9, 8712-8718.	5.5	103
4	Predicting the performance of anaerobic digestion using machine learning algorithms and genomic data. Water Research, 2021, 199, 117182.	5.3	73
5	A 3D porous NCNT sponge anode modified with chitosan and Polyaniline for high-performance microbial fuel cell. Bioelectrochemistry, 2019, 129, 144-153.	2.4	59
6	Linking internal resistance with design and operation decisions in microbial electrolysis cells. Environment International, 2019, 126, 611-618.	4.8	59
7	Performance prediction of ZVI-based anaerobic digestion reactor using machine learning algorithms. Waste Management, 2021, 121, 59-66.	3.7	56
8	Impact of tobramycin on the performance of microbial fuel cell. Microbial Cell Factories, 2014, 13, 91.	1.9	41
9	Selective inhibition of methanogenesis by acetylene in single chamber microbial electrolysis cells. Bioresource Technology, 2019, 274, 557-560.	4.8	35
10	Breaking the loop: Tackling homoacetogenesis by chloroform to halt hydrogen production-consumption loop in single chamber microbial electrolysis cells. Chemical Engineering Journal, 2020, 389, 124436.	6.6	30
11	Hydrogen production from lignocellulosic hydrolysate in an up-scaled microbial electrolysis cell with stacked bio-electrodes. Bioresource Technology, 2021, 320, 124314.	4.8	28
12	Revealing the impact of hydrogen production-consumption loop against efficient hydrogen recovery in single chamber microbial electrolysis cells (MECs). International Journal of Hydrogen Energy, 2018, 43, 13064-13071.	3.8	26
13	Impact of nano-TiO₂ on horizontal transfer of resistance genes mediated by filamentous phage transduction. Environmental Science: Nano, 2020, 7, 1214-1224.	2.2	26
14	Urea removal coupled with enhanced electricity generation in single-chambered microbial fuel cells. Environmental Science and Pollution Research, 2017, 24, 20401-20408.	2.7	24
15	Anaerobically photoreductive degradation by CdS nanocrystal: Biofabrication process and bioelectron-driven reaction coupled with Shewanella oneidensis MR-1. Biochemical Engineering Journal, 2020, 154, 107466.	1.8	20
16	Improved Simultaneous Decolorization and Power Generation in a Microbial Fuel Cell with the Sponge Anode Modified by Polyaniline and Chitosan. Applied Biochemistry and Biotechnology, 2020, 192, 698-718.	1.4	18
17	Scaling-up up-flow microbial electrolysis cells with a compact electrode configuration for continuous hydrogen production. Bioresource Technology, 2021, 331, 125030.	4.8	17
18	Enhanced redox conductivity and enriched Geobacteraceae of exoelectrogenic biofilms in response to static magnetic field. Applied Microbiology and Biotechnology, 2018, 102, 7611-7621.	1.7	15

#	Article	IF	Citations
19	Anaerobic reduction of high-polarity nitroaromatic compounds by electrochemically active bacteria: Roles of Mtr respiratory pathway, molecular polarity, mediator and membrane permeability. Environmental Pollution, 2021, 268, 115943.	3.7	10
20	Accelerated tests for evaluating the air-cathode aging in microbial fuel cells. Bioresource Technology, 2020, 297, 122479.	4.8	4