

Heyang Yuan

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,807
citations

361413

20
h-index

580821

25
g-index

28
all docs

28
docs citations

28
times ranked

2374
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen reduction reaction catalysts used in microbial fuel cells for energy-efficient wastewater treatment: a review. <i>Materials Horizons</i> , 2016, 3, 382-401.	12.2	322
2	Graphene-modified electrodes for enhancing the performance of microbial fuel cells. <i>Nanoscale</i> , 2015, 7, 7022-7029.	5.6	166
3	Integrating membrane filtration into bioelectrochemical systems as next generation energy-efficient wastewater treatment technologies for water reclamation: A review. <i>Bioresource Technology</i> , 2015, 195, 202-209.	9.6	134
4	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.	7.8	128
5	Microbial desalination cells as a versatile technology: Functions, optimization and prospective. <i>Desalination</i> , 2015, 371, 9-17.	8.2	123
6	Mainstream upflow nitrification-anammox system with hybrid anaerobic pretreatment: Long-term performance and microbial community dynamics. <i>Water Research</i> , 2017, 125, 298-308.	11.3	118
7	Facile Synthesis of MoS ₂ @CNT as an Effective Catalyst for Hydrogen Production in Microbial Electrolysis Cells. <i>ChemElectroChem</i> , 2014, 1, 1828-1833.	3.4	107
8	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.	7.5	96
9	Enhancing desalination and wastewater treatment by coupling microbial desalination cells with forward osmosis. <i>Chemical Engineering Journal</i> , 2015, 270, 437-443.	12.7	88
10	Porous Carbon Nanosheets Codoped with Nitrogen and Sulfur for Oxygen Reduction Reaction in Microbial Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18672-18678.	8.0	86
11	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.	9.2	59
12	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.	9.3	47
13	When Bioelectrochemical Systems Meet Forward Osmosis: Accomplishing Wastewater Treatment and Reuse through Synergy. <i>Water (Switzerland)</i> , 2015, 7, 38-50.	2.7	45
14	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.	8.2	44
15	Effects of electron acceptors on removal of antibiotic resistant <i>Escherichia coli</i> , resistance genes and class 1 integrons under anaerobic conditions. <i>Science of the Total Environment</i> , 2016, 569-570, 1587-1594.	8.0	43
16	Energy Consumption by Recirculation: A Missing Parameter When Evaluating Forward Osmosis. <i>Environmental Science & Technology</i> , 2016, 50, 6827-6829.	10.0	40
17	Platinum Group Metal-free Catalysts for Hydrogen Evolution Reaction in Microbial Electrolysis Cells. <i>Chemical Record</i> , 2017, 17, 641-652.	5.8	36
18	Unravelling and Reconstructing the Nexus of Salinity, Electricity, and Microbial Ecology for Bioelectrochemical Desalination. <i>Environmental Science & Technology</i> , 2017, 51, 12672-12682.	10.0	30

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19	Bioelectrochemical production of hydrogen in an innovative pressure-retarded osmosis/microbial electrolysis cell system: experiments and modeling. <i>Biotechnology for Biofuels</i> , 2015, 8, 116.	6.2	21
20	Effect of acclimation and nutrient supply on 5-tolyltriazole biodegradation with activated sludge communities. <i>Bioresource Technology</i> , 2014, 163, 381-385.	9.6	15
21	Determination of optimal conditions for 5-methyl-benzotriazole biodegradation with activated sludge communities by dilution of the inoculum. <i>Science of the Total Environment</i> , 2014, 487, 756-762.	8.0	9
22	Linking population dynamics to microbial kinetics for hybrid modeling of bioelectrochemical systems. <i>Water Research</i> , 2021, 202, 117418.	11.3	8
23	Electrically charged forward osmosis: Promoting reverse salt flux to enhance water recovery and struvite precipitation. <i>Resources, Conservation and Recycling</i> , 2022, 186, 106522.	10.8	8
24	Emerging investigator series: modeling of wastewater treatment bioprocesses: current development and future opportunities. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 208-225.	2.4	7