Weiwei Cai

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5189748/publications.pdf

Version: 2024-02-01

45	2,178	218677	233421
papers	citations	26 h-index	45 g-index

45	45	45	2111
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Characterizing membrane fouling formation during ultrafiltration of high-salinity organic wastewater. Chemosphere, 2022, 287, 132057.	8.2	15
2	Simultaneous coupling of fluidized granular activated carbon (GAC) and powdered activated carbon (PAC) with ultrafiltration process: A promising synergistic alternative for water treatment. Separation and Purification Technology, 2022, 282, 120085.	7.9	10
3	Development of rapid CO2 utilizing microbial ecosystem onto the novel & porous FPUF@nZVI@TAC@ASP hybrid for green coal desulphurization. Chemical Engineering Journal, 2022, 433, 134361.	12.7	32
4	Chemically induced alteration in PAC characteristics and its influences on PAC/UF water treatment: Implications for on-line membrane cleaning with NaClO. Separation and Purification Technology, 2022, 294, 121130.	7.9	7
5	Discarded antibiotic mycelial residues derived nitrogen-doped porous carbon for electrochemical energy storage and simultaneous reduction of antibiotic resistance genes(ARGs). Environmental Research, 2021, 192, 110261.	7.5	8
6	Effects of High Salinity on Alginate Fouling during Ultrafiltration of High-Salinity Organic Synthetic Wastewater. Membranes, 2021, 11, 590.	3.0	1
7	New insights into membrane fouling formation during ultrafiltration of organic wastewater with high salinity. Journal of Membrane Science, 2021, 635, 119446.	8.2	43
8	Effect of magnesium ion on polysaccharide fouling. Chemical Engineering Journal, 2020, 379, 122351.	12.7	60
9	Reinjection oilfield wastewater treatment using bioelectrochemical system and consequent corrosive community evolution on pipe material. Journal of Bioscience and Bioengineering, 2020, 129, 199-205.	2.2	16
10	Formation mechanisms of emerging organic contaminants during on-line membrane cleaning with NaOCl in MBR. Journal of Hazardous Materials, 2020, 386, 121966.	12.4	29
11	Mitigation of antibiotic resistance in a pilot-scale system treating wastewater from high-speed railway trains. Chemosphere, 2020, 245, 125484.	8.2	13
12	Using cold-adapted river-bottom sediment as seed sludge for sulfur-based autotrophic denitrification operated at mesophilic and psychrophilic temperatures. Science of the Total Environment, 2020, 735, 139345.	8.0	8
13	Semiquantitative Detection of Hydrogen-Associated or Hydrogen-Free Electron Transfer within Methanogenic Biofilm of Microbial Electrosynthesis. Applied and Environmental Microbiology, 2020, 86, .	3.1	24
14	Minimizing extracellular DNA improves the precision of microbial community dynamic analysis in response to thermal hydrolysis. Bioresource Technology, 2020, 304, 122938.	9.6	7
15	Florfenicol restructured the microbial interaction network for wastewater treatment by microbial electrolysis cells. Environmental Research, 2020, 183, 109145.	7.5	14
16	A wireless charger powered the extracellular electron transfer for hydrogen recovery from organics. Environmental Research, 2020, 186, 109524.	7.5	2
17	Electro-driven methanogenic microbial community diversity and variability in the electron abundant niche. Science of the Total Environment, 2019, 661, 178-186.	8.0	26
18	Applying rhamnolipid to enhance hydrolysis and acidogenesis of waste activated sludge: retarded methanogenic community evolution and methane production. RSC Advances, 2019, 9, 2034-2041.	3.6	14

#	Article	IF	Citations
19	Enhanced nitrate removal in an Fe⁰-driven autotrophic denitrification system using hydrogen-rich water. Environmental Science: Water Research and Technology, 2019, 5, 1380-1388.	2.4	11
20	Enhanced organic matter and nutrient release from waste activated sludge using ultrasound and surfactant synergetic pre-treatment. Bioresource Technology Reports, 2019, 6, 32-38.	2.7	13
21	Deterministic Assembly and Diversity Gradient Altered the Biofilm Community Performances of Bioreactors. Environmental Science & Technology, 2019, 53, 1315-1324.	10.0	109
22	Response of chloramphenicol-reducing biocathode resistome to continuous electrical stimulation. Water Research, 2019, 148, 398-406.	11.3	90
23	mcrA sequencing reveals the role of basophilic methanogens in a cathodic methanogenic community. Water Research, 2018, 136, 192-199.	11.3	77
24	Oxidative stress induced membrane biofouling and its implications to on-line chemical cleaning in MBR. Chemical Engineering Journal, 2018, 334, 1917-1926.	12.7	21
25	Ni5P4-NiP2 nanosheet matrix enhances electron-transfer kinetics for hydrogen recovery in microbial electrolysis cells. Applied Energy, 2018, 209, 56-64.	10.1	39
26	Comparative study of dissolved organic matter generated from activated sludge during exposure to hypochlorite, hydrogen peroxide, acid and alkaline: Implications for on-line chemical cleaning of MBR. Chemosphere, 2018, 193, 295-303.	8.2	26
27	Electron Fluxes in Biocathode Bioelectrochemical Systems Performing Dechlorination of Chlorinated Aliphatic Hydrocarbons. Frontiers in Microbiology, 2018, 9, 2306.	3.5	18
28	Comparison of chemosynthetic and biological surfactants on accelerating hydrogen production from waste activated sludge in a short-cut fermentation-bioelectrochemical system. International Journal of Hydrogen Energy, 2017, 42, 9044-9050.	7.1	26
29	Efficient Methane Production from Beer Wastewater in a Membraneless Microbial Electrolysis Cell with a Stacked Cathode: The Effect of the Cathode/Anode Ratio on Bioenergy Recovery. Energy & Fuels, 2017, 31, 615-620.	5.1	52
30	Fate of dissolved organic matter and byproducts generated from on-line chemical cleaning with sodium hypochlorite in MBR. Chemical Engineering Journal, 2017, 323, 233-242.	12.7	50
31	An integrated engineering system for maximizing bioenergy production from food waste. Applied Energy, 2017, 206, 83-89.	10.1	74
32	Computational and experimental analysis of organic degradation positively regulated by bioelectrochemistry in an anaerobic bioreactor system. Water Research, 2017, 125, 170-179.	11.3	64
33	Biodiversity and species competition regulate the resilience of microbial biofilm community. Molecular Ecology, 2017, 26, 6170-6182.	3.9	299
34	Soil bacterial quantification approaches coupling with relative abundances reflecting the changes of taxa. Scientific Reports, 2017, 7, 4837.	3.3	131
35	Enhanced membrane biofouling potential by on-line chemical cleaning in membrane bioreactor. Journal of Membrane Science, 2016, 511, 84-91.	8.2	77
36	Hydrogen production from buffer-free anaerobic fermentation liquid of waste activated sludge using microbial electrolysis system. RSC Advances, 2016, 6, 38769-38773.	3.6	14

#	Article	IF	Citations
37	Quorum sensing alters the microbial community of electrode-respiring bacteria and hydrogen scavengers toward improving hydrogen yield in microbial electrolysis cells. Applied Energy, 2016, 183, 1133-1141.	10.1	76
38	Generation of dissolved organic matter and byproducts from activated sludge during contact with sodium hypochlorite and its implications to on-line chemical cleaning in MBR. Water Research, 2016, 104, 44-52.	11.3	72
39	Biocathodic Methanogenic Community in an Integrated Anaerobic Digestion and Microbial Electrolysis System for Enhancement of Methane Production from Waste Sludge. ACS Sustainable Chemistry and Engineering, 2016, 4, 4913-4921.	6.7	106
40	Methane production enhancement by an independent cathode in integrated anaerobic reactor with microbial electrolysis. Bioresource Technology, 2016, 208, 13-18.	9.6	73
41	Microbial electrolysis contribution to anaerobic digestion of waste activated sludge, leading to accelerated methane production. Renewable Energy, 2016, 91, 334-339.	8.9	140
42	Enhanced hydrogen production in microbial electrolysis cell with 3D self-assembly nickel foam-graphene cathode. Biosensors and Bioelectronics, 2016, 80, 118-122.	10.1	87
43	Enhanced short chain fatty acids production from waste activated sludge conditioning with typical agricultural residues: carbon source composition regulates community functions. Biotechnology for Biofuels, 2015, 8, 192.	6.2	51
44	Combination of ultrasound and Fenton treatment for improving the hydrolysis and acidification of waste activated sludge. RSC Advances, 2015, 5, 48468-48473.	3.6	27
45	Improvement of bioelectrochemical property and energy recovery by acylhomoserine lactones (AHLs) in microbial electrolysis cells (MECs). Journal of Power Sources, 2015, 284, 56-59.	7.8	26