Xinhua Wang

List of Publications by Year
in descending order

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68	2,230	293460 24	263392 45
papers	citations	h-index	g-index

68	68	68	2234
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preparation of electrically enhanced forward osmosis (FO) membrane by two-dimensional MXenes for organic fouling mitigation. Chinese Chemical Letters, 2022, 33, 3818-3822.	4.8	18
2	A Novel Hybrid Reactor of Pressure-Retarded Osmosis Coupling with Activated Sludge Process for Simultaneously Treating Concentrated Seawater Brine and Wastewater and Recovering Energy. Membranes, 2022, 12, 380.	1.4	0
3	Engineering pressure retarded osmosis membrane bioreactor (PRO-MBR) for simultaneous water and energy recovery from municipal wastewater. Science of the Total Environment, 2022, 826, 154048.	3.9	9
4	Effect of Initial Water Flux on the Performance of Anaerobic Membrane Bioreactor: Constant Flux Mode versus Varying Flux Mode. Membranes, 2021, 11, 203.	1.4	3
5	A novel forward osmosis reactor assisted with microfiltration for deep thickening waste activated sludge: performance and implication. Water Research, 2021, 195, 116998.	5.3	14
6	Effect of anaerobic sludge on the bioelectricity generation enhancement of bufferless single-chamber microbial fuel cells. Bioelectrochemistry, 2020, 131, 107387.	2.4	10
7	Secret underneath: Fouling of membrane support layer in anaerobic osmotic membrane bioreactor (AnOMBR). Journal of Membrane Science, 2020, 614, 118530.	4.1	13
8	Self-generated electric field to suppress sludge production and fouling development in a membrane bioreactor for wastewater treatment. Chemosphere, 2020, 261, 128046.	4.2	10
9	Performance Improvement and Biofouling Mitigation in Osmotic Microbial Fuel Cells via In Situ Formation of Silver Nanoparticles on Forward Osmosis Membrane. Membranes, 2020, 10, 122.	1.4	20
10	Pressure retarded osmosis coupled with activated sludge process for wastewater treatment: Performance and fouling behaviors. Bioresource Technology, 2020, 307, 123224.	4.8	9
11	Fate of proteins of waste activated sludge during thermal alkali pretreatment in terms of sludge protein recovery. Frontiers of Environmental Science and Engineering, 2019, 13, 1.	3.3	20
12	Endogenous inorganic carbon buffers accumulation and self-buffering capacity enhancement of air-cathode microbial fuel cells through anolyte recycling. Science of the Total Environment, 2019, 676, 11-17.	3.9	15
13	In situ extracting organic-bound calcium: A novel approach to mitigating organic fouling in forward osmosis treating wastewater via gradient diffusion thin-films. Water Research, 2019, 156, 102-109.	5.3	18
14	A spontaneous electric field membrane bioreactor with the innovative Cuâ€nanowires conductive microfiltration membrane for membrane fouling mitigation and pollutant removal. Water Environment Research, 2019, 91, 780-787.	1.3	11
15	EDTA-based adsorption layer for mitigating FO membrane fouling via in situ removing calcium binding with organic foulants. Journal of Membrane Science, 2019, 578, 95-102.	4.1	17
16	Effect of driving force on the performance of anaerobic osmotic membrane bioreactors: New insight into enhancing water flux of FO membrane via controlling driving force in a two-stage pattern. Journal of Membrane Science, 2019, 569, 41-47.	4.1	31
17	Insight into the distribution of metallic elements in membrane bioreactor: Influence of operational temperature and role of extracellular polymeric substances. Journal of Environmental Sciences, 2019, 76, 111-120.	3.2	9
18	Osmotic membrane bioreactors assisted with microfiltration membrane for salinity control (MF-OMBR) operating at high sludge concentrations: Performance and implications. Chemical Engineering Journal, 2018, 337, 576-583.	6.6	38

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19	Enhanced bioelectricity generation of air-cathode buffer-free microbial fuel cells through short-term anolyte pH adjustment. Bioelectrochemistry, 2018, 120, 145-149.	2.4	16
20	Removal of cytostatic drugs from wastewater by an anaerobic osmotic membrane bioreactor. Chemical Engineering Journal, 2018, 339, 153-161.	6.6	62
21	Simultaneously recovering electricity and water from wastewater by osmotic microbial fuel cells: Performance and membrane fouling. Frontiers of Environmental Science and Engineering, 2018, 12, 1.	3.3	14
22	Effect of binderâ€free grapheneâ€“cetyltrimethylammonium bromide anode on the performance of microbial fuel cells. Journal of Chemical Technology and Biotechnology, 2017, 92, 157-162.	1.6	7
23	Development of a novel anaerobic membrane bioreactor simultaneously integrating microfiltration and forward osmosis membranes for low-strength wastewater treatment. Journal of Membrane Science, 2017, 527, 1-7.	4.1	84
24	Effect of stirring rates in anodic area of sediment microbial fuel cell on its power generation. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 23-28.	1.2	9
25	Effect of short-term alkaline intervention on the performance of buffer-free single-chamber microbial fuel cell. Bioelectrochemistry, 2017, 115, 41-46.	2.4	13
26	Synchronous recovery of iron and electricity using a single chamber air-cathode microbial fuel cell. RSC Advances, 2017, 7, 12503-12510.	1.7	11
27	Impacts of inorganic draw solutes on the performance of thin-film composite forward osmosis membrane in a microfiltration assisted anaerobic osmotic membrane bioreactor. RSC Advances, 2017, 7, 16057-16063.	1.7	31
28	Preparation of conductive microfiltration membrane and its performance in a coupled configuration of membrane bioreactor with microbial fuel cell. RSC Advances, 2017, 7, 20824-20832.	1.7	21
29	Behavior of copper in membrane-less sediment microbial fuel cell. Journal of Renewable and Sustainable Energy, 2017, 9, 023103.	0.8	7
30	Performance evaluation of a microfiltration-osmotic membrane bioreactor (MF-OMBR) during removing silver nanoparticles from simulated wastewater. Chemical Engineering Journal, 2017, 313, 171-178.	6.6	36
31	Integrating microbial fuel cells with anaerobic acidification and forward osmosis membrane for enhancing bio-electricity and water recovery from low-strength wastewater. Water Research, 2017, 110, 74-82.	5.3	62
32	Anolyte recycling enhanced bioelectricity generation of the buffer-free single-chamber air-cathode microbial fuel cell. Bioresource Technology, 2017, 244, 1183-1187.	4.8	15
33	Permeability recovery of fouled forward osmosis membranes by chemical cleaning during a long-term operation of anaerobic osmotic membrane bioreactors treating low-strength wastewater. Water Research, 2017, 123, 505-512.	5.3	56
34	New insight into sludge digestion mechanism for simultaneous sludge thickening and reduction using flat-sheet membrane-coupled aerobic digesters. Chemical Engineering Journal, 2017, 309, 41-48.	6.6	20
35	Metagenomic insights into the influence of salinity and cytostatic drugs on the composition and functional genes of microbial community in forward osmosis anaerobic membrane bioreactors. Chemical Engineering Journal, 2017, 326, 462-469.	6.6	46
36	Effect of Graphene-Graphene Oxide Modified Anode on the Performance of Microbial Fuel Cell. Nanomaterials, 2016, 6, 174.	1.9	9

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37	In-situ modified carbon cloth with polyaniline/graphene as anode to enhance performance of microbial fuel cell. International Journal of Hydrogen Energy, 2016, 41, 11369-11379.	3.8	110
38	Effect of Fe(<scp>iii</scp>) on the performance of sediment microbial fuel cells in treating waste-activated sludge. RSC Advances, 2016, 6, 47974-47980.	1.7	12
39	Effect of static magnetic field on the performances of and anode biofilms in microbial fuel cells. RSC Advances, 2016, 6, 82301-82308.	1.7	26
40	Nanoparticle fouling and its combination with organic fouling during forward osmosis process for silver nanoparticles removal from simulated wastewater. Scientific Reports, 2016, 6, 25859.	1.6	8
41	A pilot-scale forward osmosis membrane system for concentrating low-strength municipal wastewater: performance and implications. Scientific Reports, 2016, 6, 21653.	1.6	74
42	Effect of graphite fibers on the performance of sediment microbial fuel cell. Environmental Progress and Sustainable Energy, 2016, 35, 876-881.	1.3	2
43	Osmotic membrane bioreactor (OMBR) technology for wastewater treatment and reclamation: Advances, challenges, and prospects for the future. Journal of Membrane Science, 2016, 504, 113-132.	4.1	217
44	Comparison of biofouling mechanisms between cellulose triacetate (CTA) and thin-film composite (TFC) polyamide forward osmosis membranes in osmotic membrane bioreactors. Bioresource Technology, 2016, 202, 50-58.	4.8	96
45	A monolithic three-dimensional macroporous graphene anode with low cost for high performance microbial fuel cells. RSC Advances, 2016, 6, 21001-21010.	1.7	23
46	Impacts of Calcium on the Forward Osmosis Membrane Fouling in Osmotic Membrane Bioreactors Treating Municipal Wastewater. Current Environmental Engineering, 2015, 2, 19-25.	0.6	1
47	In situ observation of the growth of biofouling layer in osmotic membrane bioreactors by multiple fluorescence labeling and confocal laser scanning microscopy. Water Research, 2015, 75, 188-200.	5.3	126
48	Electricity generation from sulfide tailings using a double-chamber microbial fuel cell. RSC Advances, 2015, 5, 89062-89068.	1.7	6
49	Impacts of sludge retention time on sludge characteristics and membrane fouling in a submerged osmotic membrane bioreactor. Bioresource Technology, 2014, 161, 340-347.	4.8	118
50	Integration of micro-filtration into osmotic membrane bioreactors to prevent salinity build-up. Bioresource Technology, 2014, 167, 116-123.	4.8	94
51	Novel insights into the evaluation of submerged membrane bioreactors under different aeration intensities by carbon emission. Desalination, 2013, 325, 25-29.	4.0	8
52	Effect of polyanilineâ€graphene nanosheets modified cathode on the performance of sediment microbial fuel cell. Journal of Chemical Technology and Biotechnology, 2013, 88, 1946-1950.	1.6	58
53	Impact of calcium-to-magnesium ratio on the performance of submerged membrane bioreactors. Desalination and Water Treatment, 2012, 49, 181-188.	1.0	1
54	Reactive Extraction of Short-Chain Fatty Acids from Synthetic Acidic Fermentation Broth of Organic Solid Wastes and Their Stripping. Journal of Chemical & Engineering Data, 2012, 57, 46-51.	1.0	18

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55	Electricity generation from Taihu Lake cyanobacteria by sediment microbial fuel cells. Journal of Chemical Technology and Biotechnology, 2012, 87, 1567-1573.	1.6	61
56	Influences of sludge retention time on the performance of submerged membrane bioreactors with the addition of iron ion. Desalination, 2012, 296, 24-29.	4.0	25
57	Impacts of sludge retention time on the performance of submerged membrane bioreactor with the addition of calcium ion. Separation and Purification Technology, 2011, 82, 148-155.	3.9	47
58	Influence of aeration intensity on the performance of A/O-type sequencing batch MBR system treating azo dye wastewater. Frontiers of Environmental Science and Engineering in China, 2011, 5, 615-622.	0.8	9
59	Novel insights into destruction mechanisms in a hybrid membrane process for simultaneous sludge thickening and digestion by characterization of dissolved organic matter. Chemical Engineering Journal, 2011, 171, 897-903.	6.6	5
60	The application of membrane bioreactor technology to the treatment of wastewater from a multifunctional supermarket. Environmental Progress and Sustainable Energy, 2010, 29, 52-59.	1.3	0
61	A hybrid membrane process for simultaneous thickening and digestion of waste activated sludge. Frontiers of Environmental Science and Engineering in China, 2010, 4, 272-279.	0.8	4
62	Simulation and assessment of sludge concentration and rheology in the process of waste activated sludge treatment. Journal of Environmental Sciences, 2009, 21, 1639-1645.	3.2	13
63	Floc destruction and its impact on dewatering properties in the process of using flat-sheet membrane for simultaneous thickening and digestion of waste activated sludge. Bioresource Technology, 2009, 100, 1937-1942.	4.8	18
64	Identification of sustainable flux in the process of using flat-sheet membrane for simultaneous thickening and digestion of waste activated sludge. Journal of Hazardous Materials, 2009, 162, 1397-1403.	6.5	20
65	Membrane fouling mechanisms in the process of using flat-sheet membrane for simultaneous thickening and digestion of activated sludge. Separation and Purification Technology, 2008, 63, 676-683.	3.9	26
66	Research and applications of membrane bioreactors in China: Progress and prospect. Separation and Purification Technology, 2008, 62, 249-263.	3.9	114
67	Effects of various factors on critical flux in submerged membrane bioreactors for municipal wastewater treatment. Separation and Purification Technology, 2008, 62, 56-63.	3.9	69
68	Application of flat-sheet membrane to thickening and digestion of waste activated sludge (WAS). Journal of Hazardous Materials, 2008, 154, 535-542.	6.5	37