Euntae Yang

List of Publications by Year in descending order

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39 papers	1,653 citations	331538 21 h-index	289141 40 g-index
40 all docs	40 docs citations	40 times ranked	1903 citing authors

#	Article	IF	Citations
1	MXene Materials for Designing Advanced Separation Membranes. Advanced Materials, 2020, 32, e1906697.	11.1	295
2	Tunable semi-permeability of graphene-based membranes by adjusting reduction degree of laminar graphene oxide layer. Journal of Membrane Science, 2018, 547, 73-79.	4.1	128
3	Enhanced desalination performance of forward osmosis membranes based on reduced graphene oxide laminates coated with hydrophilic polydopamine. Carbon, 2017, 117, 293-300.	5.4	125
4	Polydopamine coating effects on ultrafiltration membrane to enhance power density and mitigate biofouling of ultrafiltration microbial fuel cells (UF-MFCs). Water Research, 2014, 54, 62-68.	5.3	105
5	Critical review of bioelectrochemical systems integrated with membrane-based technologies for desalination, energy self-sufficiency, and high-efficiency water and wastewater treatment. Desalination, 2019, 452, 40-67.	4.0	98
6	A review on self-sustainable microbial electrolysis cells for electro-biohydrogen production via coupling with carbon-neutral renewable energy technologies. Bioresource Technology, 2021, 320, 124363.	4.8	89
7	Sulfonated polyether ether ketone (SPEEK)-based composite proton exchange membrane reinforced with nanofibers for microbial electrolysis cells. Chemical Engineering Journal, 2014, 254, 393-398.	6.6	75
8	Concurrent performance improvement and biofouling mitigation in osmotic microbial fuel cells using a silver nanoparticle-polydopamine coated forward osmosis membrane. Journal of Membrane Science, 2016, 513, 217-225.	4.1	64
9	Laminar reduced graphene oxide membrane modified with silver nanoparticle-polydopamine for water/ion separation and biofouling resistance enhancement. Desalination, 2018, 426, 21-31.	4.0	60
10	Underwater superoleophobic modified polysulfone electrospun membrane with efficient antifouling for ultrafast gravitational oil-water separation. Separation and Purification Technology, 2018, 200, 284-293.	3.9	51
11	Addressing scale-up challenges and enhancement in performance of hydrogen-producing microbial electrolysis cell through electrode modifications. Energy Reports, 2022, 8, 2726-2746.	2.5	49
12	Scalability of microbial electrochemical technologies: Applications and challenges. Bioresource Technology, 2022, 345, 126498.	4.8	46
13	Foulant characterization and distribution in spiral wound reverse osmosis membranes from different pressure vessels. Desalination, 2015, 370, 44-52.	4.0	42
14	Scalable fabrication of graphene-based laminate membranes for liquid and gas separations by crosslinking-induced gelation and doctor-blade casting. Carbon, 2019, 155, 129-137.	5.4	40
15	Fouling characteristics and their implications on cleaning of a FO-RO pilot process for treating brackish surface water. Desalination, 2016, 394, 91-100.	4.0	39
16	Evaluation of hydrogen production and internal resistance in forward osmosis membrane integrated microbial electrolysis cells. Bioresource Technology, 2015, 187, 106-112.	4.8	38
17	Transition metal/carbon nanoparticle composite catalysts as platinum substitutes for bioelectrochemical hydrogen production using microbial electrolysis cells. International Journal of Hydrogen Energy, 2019, 44, 2258-2265.	3.8	35
18	2D materials-based membranes for hydrogen purification: Current status and future prospects. International Journal of Hydrogen Energy, 2021, 46, 11389-11410.	3.8	35

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19	Asymmetric mixed-matrix membranes incorporated with nitrogen-doped graphene nanosheets for highly selective gas separation. Journal of Membrane Science, 2020, 615, 118293.	4.1	32
20	Graphene-Based Membranes for CO2/CH4 Separation: Key Challenges and Perspectives. Applied Sciences (Switzerland), 2019, 9, 2784.	1.3	29
21	Effect of initial salt concentrations on cell performance and distribution of internal resistance in microbial desalination cells. Environmental Technology (United Kingdom), 2015, 36, 852-860.	1.2	21
22	The effect of doping temperature on the nitrogen-bonding configuration of nitrogen-doped graphene by hydrothermal treatment. RSC Advances, 2017, 7, 20738-20741.	1.7	18
23	Assessment of different ceramic filtration membranes as a separator in microbial fuel cells. Desalination and Water Treatment, 2016, 57, 28077-28085.	1.0	17
24	Antiviral Nanomaterials for Designing Mixed Matrix Membranes. Membranes, 2021, 11, 458.	1.4	16
25	Comparison of different semipermeable membranes for power generation and water flux in osmotic microbial fuel cells. Journal of Chemical Technology and Biotechnology, 2016, 91, 2305-2312.	1.6	14
26	Outstanding performance of direct urea/hydrogen peroxide fuel cell based on precious metal-free catalyst electrodes. Energy, 2021, 228, 120584.	4.5	10
27	Preparation of adsorptive polyethyleneimine/polyvinyl chloride electrospun nanofiber membrane: Characterization and application. Journal of Environmental Management, 2022, 316, 115155.	3.8	10
28	Improvement of biohydrogen generation and seawater desalination in a microbial electrodialysis cell by installing the direct proton transfer pathway between the anode and cathode chambers. Desalination and Water Treatment, 2013, 51, 6362-6369.	1.0	9
29	Influence of pressurized anode chamber on ion transports and power generation of UF membrane microbial fuel cells (UF-MFCs). Journal of Power Sources, 2015, 279, 731-736.	4.0	9
30	Recent Progress in One- and Two-Dimensional Nanomaterial-Based Electro-Responsive Membranes: Versatile and Smart Applications from Fouling Mitigation to Tuning Mass Transport. Membranes, 2021, 11, 5.	1.4	9
31	Tunable atomic level surface functionalization of a multi-layered graphene oxide membrane to break the permeability-selectivity trade-off in salt removal of brackish water. Separation and Purification Technology, 2021, 274, 119047.	3.9	8
32	Anode direct contact for enhancing power generation and biofouling reduction in ultrafiltration microbial fuel cells. Journal of Chemical Technology and Biotechnology, 2014, 89, 1767-1771.	1.6	7
33	Evaluation of energy and water recovery in forward osmosisâ€“bioelectrochemical hybrid system with cellulose triacetate and polyamide asymmetric membrane in different orientations. Desalination and Water Treatment, 2016, 57, 7406-7413.	1.0	7
34	Effects of aeration on/off times and hydraulic retention times in an intermittently aerated membrane bioreactor. Desalination and Water Treatment, 2016, 57, 7574-7581.	1.0	5
35	Enhancing the Dye-Rejection Efficiencies and Stability of Graphene Oxide-Based Nanofiltration Membranes via Divalent Cation Intercalation and Mild Reduction. Membranes, 2022, 12, 402.	1.4	5
36	Microbial desalination cell for concurrent hydrogen peroxide production and desalination. Journal of Environmental Engineering and Science, 2014, 9, 197-206.	0.3	3

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37	Recent Application of Nanomaterials to Overcome Technological Challenges of Microbial Electrolysis Cells. Nanomaterials, 2022, 12, 1316.	1.9	3
38	Bioelectrochemical Production of Hydrogen from Organic Waste. Biofuels and Biorefineries, 2015, , 249-281.	0.5	2
39	Development of Graphene Nanocomposite Membrane Using Layer-by-layer Technique for Desalination. Membrane Journal, 2018, 28, 75-82.	0.2	1