

Ji Hoon Kim

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,187
citations

471061

17
h-index

752256

20
g-index

20
all docs

20
docs citations

20
times ranked

1391
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermally induced phase separation and electrospinning methods for emerging membrane applications: A review. <i>AIChE Journal</i> , 2016, 62, 461-490.	1.8	271
2	<i>N</i> -Aryl ϵ -linked spirocyclic polymers for membrane separations of complex hydrocarbon mixtures. <i>Science</i> , 2020, 369, 310-315.	6.0	139
3	Microporous poly(vinylidene fluoride) hollow fiber membranes fabricated with PolarClean as water-soluble green diluent and additives. <i>Journal of Membrane Science</i> , 2015, 479, 204-212.	4.1	112
4	A robust thin film composite membrane incorporating thermally rearranged polymer support for organic solvent nanofiltration and pressure retarded osmosis. <i>Journal of Membrane Science</i> , 2018, 550, 322-331.	4.1	100
5	PVDF hollow fiber membranes prepared from green diluent via thermally induced phase separation: Effect of PVDF molecular weight. <i>Journal of Membrane Science</i> , 2014, 471, 237-246.	4.1	97
6	Lithium recovery from artificial brine using energy-efficient membrane distillation and nanofiltration. <i>Journal of Membrane Science</i> , 2020, 598, 117683.	4.1	83
7	Thermally rearranged polymer membranes for desalination. <i>Energy and Environmental Science</i> , 2016, 9, 878-884.	15.6	53
8	Enhanced, hydrophobic, fluorine-containing, thermally rearranged (TR) nanofiber membranes for desalination via membrane distillation. <i>Journal of Membrane Science</i> , 2018, 550, 545-553.	4.1	45
9	Dually cross-linked polymer electrolyte membranes for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2015, 282, 211-222.	4.0	36
10	Effect of end-group cross-linking on transport properties of sulfonated poly(phenylene sulfide) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	4.0	35
11	Open-source predictive simulators for scale-up of direct contact membrane distillation modules for seawater desalination. <i>Desalination</i> , 2017, 402, 72-87.	4.0	35
12	Highly lithium-ion conductive battery separators from thermally rearranged polybenzoxazole. <i>Chemical Communications</i> , 2015, 51, 2068-2071.	2.2	31
13	A compact and scalable fabrication method for robust thin film composite membranes. <i>Green Chemistry</i> , 2018, 20, 1887-1898.	4.6	31
14	Electrochemical performance of a thermally rearranged polybenzoxazole nanocomposite membrane as a separator for lithium-ion batteries at elevated temperature. <i>Journal of Power Sources</i> , 2016, 305, 259-266.	4.0	24
15	A highly robust and water permeable thin film composite membranes for pressure retarded osmosis generating 26 $\text{W}\cdot\text{m}^{-2}$ at 21 bar . <i>Desalination</i> , 2020, 483, 114409.	4.0	24
16	Thin film composite on fluorinated thermally rearranged polymer nanofibrous membrane achieves power density of 87 $\text{W}\cdot\text{m}^{-2}$ in pressure retarded osmosis, improving economics of osmotic heat engine. <i>Journal of Membrane Science</i> , 2020, 607, 118120.	4.1	20
17	Low energy intensity production of fuel-grade bio-butanol enabled by membrane-based extraction. <i>Energy and Environmental Science</i> , 2020, 13, 4862-4871.	15.6	18
18	Proton conducting, composite sulfonated polymer membrane for medium temperature and low relative humidity fuel cells. <i>Journal of Power Sources</i> , 2014, 262, 162-168.	4.0	15

#	ARTICLE	IF	CITATIONS
19	Design Optimization of PZT-Based Piezoelectric Cantilever Beam by Using Computational Experiments. Journal of Electronic Materials, 2016, 45, 3848-3858.	1.0	13
20	Mode-Controlled Wideband Slot-Fed Ground Radiation Antenna Utilizing Metal Loads for Mobile Applications. IEEE Transactions on Antennas and Propagation, 2016, , 1-1.	3.1	5