

Youngjin Kim

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37
papers

1,014
citations

19
h-index

31
g-index

37
ext. papers

1,272
ext. citations

9.4
avg, IF

4.88
L-index

#	Paper	IF	Citations
37	Graphene/PVDF flat-sheet membrane for the treatment of RO brine from coal seam gas produced water by air gap membrane distillation. <i>Journal of Membrane Science</i> , 2016 , 513, 74-84	9.6	80
36	Membrane distillation hybrids for water production and energy efficiency enhancement: A critical review. <i>Applied Energy</i> , 2019 , 254, 113698	10.7	74
35	Evaluation of fertilizer-drawn forward osmosis for sustainable agriculture and water reuse in arid regions. <i>Journal of Environmental Management</i> , 2017 , 187, 137-145	7.9	71
34	Hierarchical Composite Membranes with Robust Omniphobic Surface Using Layer-By-Layer Assembly Technique. <i>Environmental Science & Technology</i> , 2018 , 52, 2186-2196	10.3	62
33	Organic fouling mechanisms in forward osmosis membrane process under elevated feed and draw solution temperatures. <i>Desalination</i> , 2015 , 355, 169-177	10.3	61
32	Selection of suitable fertilizer draw solute for a novel fertilizer-drawn forward osmosis-anaerobic membrane bioreactor hybrid system. <i>Bioresource Technology</i> , 2016 , 210, 26-34	11	59
31	Treatment of industrial wastewater produced by desulfurization process in a coal-fired power plant via FO-MD hybrid process. <i>Chemosphere</i> , 2018 , 210, 44-51	8.4	51
30	Fertilizer drawn forward osmosis process for sustainable water reuse to grow hydroponic lettuce using commercial nutrient solution. <i>Separation and Purification Technology</i> , 2017 , 181, 18-28	8.3	48
29	Comparison of filtration and treatment performance between polymeric and ceramic membranes in anaerobic membrane bioreactor treatment of domestic wastewater. <i>Separation and Purification Technology</i> , 2018 , 199, 182-188	8.3	47
28	Evaluation of fertilizer-drawn forward osmosis for coal seam gas reverse osmosis brine treatment and sustainable agricultural reuse. <i>Journal of Membrane Science</i> , 2017 , 537, 22-31	9.6	43
27	Assessing the removal of organic micro-pollutants from anaerobic membrane bioreactor effluent by fertilizer-drawn forward osmosis. <i>Journal of Membrane Science</i> , 2017 , 533, 84-95	9.6	42
26	Evaluation of different cleaning strategies for different types of forward osmosis membrane fouling and scaling. <i>Journal of Membrane Science</i> , 2020 , 596, 117731	9.6	36
25	Osmotically and Thermally Isolated Forward Osmosis-Membrane Distillation (FO-MD) Integrated Module. <i>Environmental Science & Technology</i> , 2019 , 53, 3488-3498	10.3	34
24	Assessing the removal of organic micropollutants by a novel baffled osmotic membrane bioreactor-microfiltration hybrid system. <i>Bioresource Technology</i> , 2018 , 262, 98-106	11	34
23	Treatment of medical radioactive liquid waste using Forward Osmosis (FO) membrane process. <i>Journal of Membrane Science</i> , 2018 , 556, 238-247	9.6	30
22	Methane production in an anaerobic osmotic membrane bioreactor using forward osmosis: Effect of reverse salt flux. <i>Bioresource Technology</i> , 2017 , 239, 285-293	11	26
21	Influence of fertilizer draw solution properties on the process performance and microbial community structure in a side-stream anaerobic fertilizer-drawn forward osmosis - ultrafiltration bioreactor. <i>Bioresource Technology</i> , 2017 , 240, 149-156	11	25

20	Performance of a novel baffled osmotic membrane bioreactor-microfiltration hybrid system under continuous operation for simultaneous nutrient removal and mitigation of brine discharge. <i>Bioresource Technology</i> , 2017 , 240, 50-58	11	25
19	Impact of reverse nutrient diffusion on membrane biofouling in fertilizer-drawn forward osmosis. <i>Journal of Membrane Science</i> , 2017 , 539, 108-115	9.6	22
18	Understanding the organic micropollutants transport mechanisms in the fertilizer-drawn forward osmosis process. <i>Journal of Environmental Management</i> , 2019 , 248, 109240	7.9	16
17	Performance of a Novel Fertilizer-Drawn Forward Osmosis Aerobic Membrane Bioreactor (FDFO-MBR): Mitigating Salinity Build-Up by Integrating Microfiltration. <i>Water (Switzerland)</i> , 2017 , 9, 21	3	14
16	Co-axially electrospun superhydrophobic nanofiber membranes with 3D-hierarchically structured surface for desalination by long-term membrane distillation. <i>Journal of Membrane Science</i> , 2021 , 623, 119028	9.6	14
15	Surface chemical heterogeneity of polyamide RO membranes: Measurements and implications. <i>Desalination</i> , 2015 , 367, 154-160	10.3	12
14	Combining high performance fertiliser with surfactants to reduce the reverse solute flux in the fertiliser drawn forward osmosis process. <i>Journal of Environmental Management</i> , 2018 , 226, 217-225	7.9	12
13	Facultative hybrid RO-PRO concept to improve economic performance of PRO: Feasibility and maximizing efficiency. <i>Desalination</i> , 2020 , 478, 114268	10.3	12
12	Evaluation of membrane-based desalting processes for RO brine treatment. <i>Desalination and Water Treatment</i> , 2016 , 57, 7432-7439		10
11	Investigation of flux stability and fouling mechanism during simultaneous treatment of different produced water streams using forward osmosis and membrane distillation. <i>Water Research</i> , 2021 , 198, 117157	12.5	10
10	Towards sustainable circular brine reclamation using seawater reverse osmosis, membrane distillation and forward osmosis hybrids: An experimental investigation. <i>Journal of Environmental Management</i> , 2021 , 293, 112836	7.9	10
9	Effect of organic micropollutants on biofouling in a forward osmosis process integrating seawater desalination and wastewater reclamation. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123386	12.8	6
8	Application of fouling index for forward osmosis hybrid system: A pilot demonstration. <i>Journal of Membrane Science</i> , 2021 , 617, 118624	9.6	5
7	Hole-Type Spacers for More Stable Shale Gas-Produced Water Treatment by Forward Osmosis. <i>Membranes</i> , 2021 , 11,	3.8	5
6	Characterization of natural organic matters using flow field-flow fractionation and its implication to membrane fouling. <i>Desalination and Water Treatment</i> , 2013 , 51, 6378-6391		4
5	Impact of osmotic and thermal isolation barrier on concentration and temperature polarization and energy efficiency in a novel FO-MD integrated module. <i>Journal of Membrane Science</i> , 2021 , 620, 118811	9.6	4
4	Comprehensive review of osmotic dilution/concentration using FO membranes for practical applications. <i>Desalination</i> , 2021 , 515, 115190	10.3	4
3	Influence of solution chemistry on the surface heterogeneity of reverse osmosis membrane. <i>Desalination and Water Treatment</i> , 2012 , 43, 308-313		3

2 Dynamic feed spacer for fouling minimization in forward osmosis process. *Desalination*, **2021**, 515, 115198.3 2

1 Recent developments in forward osmosis and its implication in expanding applications **2021**, 149-186 1