

Youngjin Kim

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,515
citations

279701

23
h-index

345118

36
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all docs

37
docs citations

37
times ranked

1341
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane distillation hybrids for water production and energy efficiency enhancement: A critical review. <i>Applied Energy</i> , 2019, 254, 113698.	5.1	126
2	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.	4.1	107
3	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.	3.8	99
4	Hierarchical Composite Membranes with Robust Omniphobic Surface Using Layer-By-Layer Assembly Technique. <i>Environmental Science & Technology</i> , 2018, 52, 2186-2196.	4.6	90
5	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.	4.2	75
6	Evaluation of different cleaning strategies for different types of forward osmosis membrane fouling and scaling. <i>Journal of Membrane Science</i> , 2020, 596, 117731.	4.1	75
7	Organic fouling mechanisms in forward osmosis membrane process under elevated feed and draw solution temperatures. <i>Desalination</i> , 2015, 355, 169-177.	4.0	70
8	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.	3.9	70
9	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.	3.9	68
10	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.	4.8	66
11	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.	4.1	54
12	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.	4.1	53
13	Osmotically and Thermally Isolated Forward Osmosis Membrane Distillation (FO-MD) Integrated Module. <i>Environmental Science & Technology</i> , 2019, 53, 3488-3498.	4.6	51
14	Assessing the removal of organic micropollutants by a novel baffled osmotic membrane bioreactor-microfiltration hybrid system. <i>Bioresource Technology</i> , 2018, 262, 98-106.	4.8	47
15	Treatment of medical radioactive liquid waste using Forward Osmosis (FO) membrane process. <i>Journal of Membrane Science</i> , 2018, 556, 238-247.	4.1	38
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.	4.1	38
17	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.	5.3	37
18	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.	4.8	36

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19	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.	4.8	32
20	Methane production in an anaerobic osmotic membrane bioreactor using forward osmosis: Effect of reverse salt flux. <i>Bioresource Technology</i> , 2017, 239, 285-293.	4.8	30
21	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.	3.8	30
22	Impact of reverse nutrient diffusion on membrane biofouling in fertilizer-drawn forward osmosis. <i>Journal of Membrane Science</i> , 2017, 539, 108-115.	4.1	28
23	Understanding the organic micropollutants transport mechanisms in the fertilizer-drawn forward osmosis process. <i>Journal of Environmental Management</i> , 2019, 248, 109240.	3.8	26
24	Facultative hybrid RO-PRO concept to improve economic performance of PRO: Feasibility and maximizing efficiency. <i>Desalination</i> , 2020, 478, 114268.	4.0	18
25	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.	6.5	18
26	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.	1.2	17
27	Comprehensive review of osmotic dilution/concentration using FO membranes for practical applications. <i>Desalination</i> , 2021, 515, 115190.	4.0	17
28	Dynamic feed spacer for fouling minimization in forward osmosis process. <i>Desalination</i> , 2021, 515, 115198.	4.0	17
29	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.	3.8	16
30	Surface chemical heterogeneity of polyamide RO membranes: Measurements and implications. <i>Desalination</i> , 2015, 367, 154-160.	4.0	13
31	Evaluation of membrane-based desalting processes for RO brine treatment. <i>Desalination and Water Treatment</i> , 2016, 57, 7432-7439.	1.0	12
32	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.	4.1	11
33	Hole-Type Spacers for More Stable Shale Gas-Produced Water Treatment by Forward Osmosis. <i>Membranes</i> , 2021, 11, 34.	1.4	11
34	Application of fouling index for forward osmosis hybrid system: A pilot demonstration. <i>Journal of Membrane Science</i> , 2021, 617, 118624.	4.1	10
35	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.	1.0	5
36	Influence of solution chemistry on the surface heterogeneity of reverse osmosis membrane. <i>Desalination and Water Treatment</i> , 2012, 43, 308-313.	1.0	3

#	ARTICLE	IF	CITATIONS
37	Recent developments in forward osmosis and its implication in expanding applications. , 2021, , 149-186.		1