Akshay Deshmukh

List of Publications by Citations

Source: https://exaly.com/author-pdf/4164054/akshay-deshmukh-publications-by-citations.pdf

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

25 2,296 18 27 g-index

27 3,033 13.5 5.71 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
25	Membrane distillation at the water-energy nexus: limits, opportunities, and challenges. <i>Energy and Environmental Science</i> , 2018 , 11, 1177-1196	35.4	458
24	The Critical Need for Increased Selectivity, Not Increased Water Permeability, for Desalination Membranes. <i>Environmental Science and Technology Letters</i> , 2016 , 3, 112-120	11	392
23	Pressure-retarded osmosis for power generation from salinity gradients: is it viable?. <i>Energy and Environmental Science</i> , 2016 , 9, 31-48	35.4	240
22	Nanophotonics-enabled solar membrane distillation for off-grid water purification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6936-6941	11.5	227
21	Comparison of energy consumption in desalination by capacitive deionization and reverse osmosis. <i>Desalination</i> , 2019 , 455, 100-114	10.3	149
20	High-Pressure Reverse Osmosis for Energy-Efficient Hypersaline Brine Desalination: Current Status, Design Considerations, and Research Needs. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 467	-475	114
19	The relative insignificance of advanced materials in enhancing the energy efficiency of desalination technologies. <i>Energy and Environmental Science</i> , 2020 , 13, 1694-1710	35.4	105
18	Desalination by forward osmosis: Identifying performance limiting parameters through module-scale modeling. <i>Journal of Membrane Science</i> , 2015 , 491, 159-167	9.6	96
17	Understanding the impact of membrane properties and transport phenomena on the energetic performance of membrane distillation desalination. <i>Journal of Membrane Science</i> , 2017 , 539, 458-474	9.6	86
16	Can batch or semi-batch processes save energy in reverse-osmosis desalination?. <i>Desalination</i> , 2017 , 402, 109-122	10.3	78
15	Mechanism of Heterogeneous Fenton Reaction Kinetics Enhancement under Nanoscale Spatial Confinement. <i>Environmental Science & Enhancement</i> , 2020, 54, 10868-10875	10.3	56
14	Monte Carlo Simulations of Framework Defects in Layered Two-Dimensional Nanomaterial Desalination Membranes: Implications for Permeability and Selectivity. <i>Environmental Science & Environmental Science</i>	10.3	48
13	Minimal and zero liquid discharge with reverse osmosis using low-salt-rejection membranes. <i>Water Research</i> , 2020 , 170, 115317	12.5	45
12	Asymmetric membranes for membrane distillation and thermo-osmotic energy conversion. <i>Desalination</i> , 2019 , 452, 141-148	10.3	33
11	Relating Selectivity and Separation Performance of Lamellar Two-Dimensional Molybdenum Disulfide (MoS) Membranes to Nanosheet Stacking Behavior. <i>Environmental Science & Emp; Technology</i> , 2020 , 54, 9640-9651	10.3	31
10	Multifunctional nanocoated membranes for high-rate electrothermal desalination of hypersaline waters. <i>Nature Nanotechnology</i> , 2020 , 15, 1025-1032	28.7	28
9	Techno-economic assessment of a closed-loop osmotic heat engine. <i>Journal of Membrane Science</i> , 2017 , 535, 178-187	9.6	27

LIST OF PUBLICATIONS

8	Economic performance of membrane distillation configurations in optimal solar thermal desalination systems. <i>Desalination</i> , 2019 , 472, 114164	10.3	27
7	Response to comments on Domparison of energy consumption in desalination by capacitive deionization and reverse osmosis Desalination, 2019 , 462, 48-55	10.3	14
6	Novel Positively Charged Metal-Coordinated Nanofiltration Membrane for Lithium Recovery. <i>ACS Applied Materials & District Membrane for Lithium Recovery. ACS Applied Materials & District Membrane for Lithium Recovery. ACS Applied Materials & District Membrane for Lithium Recovery. ACS Applied Materials & District Membrane for Lithium Recovery. ACS Applied Materials & District Membrane for Lithium Recovery. ACS Applied Materials & District Membrane for Lithium Recovery. ACS Applied Materials & District Membrane for Lithium Recovery. ACS Applied Materials & District Membrane for Lithium Recovery. ACS Applied Materials & District Membrane for Lithium Recovery. ACS Applied Materials & District Membrane for Lithium Recovery. ACS Applied Materials & District Membrane for Lithium Recovery. ACS Applied Materials & District Membrane for Lithium Recovery. ACS Applied Materials & District Membrane for Lithium Recovery. ACS Applied Materials & District Membrane for Lithium Recovery. ACS Applied Materials & District Membrane for Lithium Recovery. ACS Applied Membrane </i>	9.5	13
5	Membrane distillation assisted by heat pump for improved desalination energy efficiency. <i>Desalination</i> , 2020 , 496, 114694	10.3	10
4	Membrane desalination performance governed by molecular reflection at the liquid-vapor interface. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 140, 1006-1022	4.9	9
3	Solute displacement in the aqueous phase of water-NaCl-organic ternary mixtures relevant to solvent-driven water treatment <i>RSC Advances</i> , 2020 , 10, 29516-29527	3.7	7
2	Multicomponent Fickian solution-diffusion model for osmotic transport through membranes. Journal of Membrane Science, 2021 , 640, 119819	9.6	1
1	Thermodynamics of solvent-driven water extraction from hypersaline brines using dimethyl ether. Chemical Engineering Journal, 2022, 434, 134391	14.7	Ο