

Razi Epsztein

List of Publications by Citations

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30
papers

1,296
citations

15
h-index

34
g-index

34
ext. papers

1,954
ext. citations

11.4
avg, IF

5.18
L-index

#	Paper	IF	Citations
30	Comparison of energy consumption in desalination by capacitive deionization and reverse osmosis. <i>Desalination</i> , 2019 , 455, 100-114	10.3	149
29	Selective removal of divalent cations by polyelectrolyte multilayer nanofiltration membrane: Role of polyelectrolyte charge, ion size, and ionic strength. <i>Journal of Membrane Science</i> , 2018 , 559, 98-106	9.6	140
28	Towards single-species selectivity of membranes with subnanometre pores. <i>Nature Nanotechnology</i> , 2020 , 15, 426-436	28.7	138
27	Selective nitrate removal from groundwater using a hybrid nanofiltration reverse osmosis filtration scheme. <i>Chemical Engineering Journal</i> , 2015 , 279, 372-378	14.7	130
26	Critical Knowledge Gaps in Mass Transport through Single-Digit Nanopores: A Review and Perspective. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 21309-21326	3.8	121
25	Role of Ionic Charge Density in Donnan Exclusion of Monovalent Anions by Nanofiltration. <i>Environmental Science & Technology</i> , 2018 , 52, 4108-4116	10.3	113
24	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
23	Activation behavior for ion permeation in ion-exchange membranes: Role of ion dehydration in selective transport. <i>Journal of Membrane Science</i> , 2019 , 580, 316-326	9.6	77
22	Intrapore energy barriers govern ion transport and selectivity of desalination membranes. <i>Science Advances</i> , 2020 , 6,	14.3	58
21	Biocatalytic and salt selective multilayer polyelectrolyte nanofiltration membrane. <i>Journal of Membrane Science</i> , 2018 , 549, 357-365	9.6	42
20	Controlling pore structure of polyelectrolyte multilayer nanofiltration membranes by tuning polyelectrolyte-salt interactions. <i>Journal of Membrane Science</i> , 2019 , 581, 413-420	9.6	40
19	Elucidating the mechanisms underlying the difference between chloride and nitrate rejection in nanofiltration. <i>Journal of Membrane Science</i> , 2018 , 548, 694-701	9.6	31
18	Energy barriers to anion transport in polyelectrolyte multilayer nanofiltration membranes: Role of intra-pore diffusion. <i>Journal of Membrane Science</i> , 2020 , 603, 117921	9.6	26
17	Similarities and differences between potassium and ammonium ions in liquid water: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 2540-2548	3.6	16
16	High-rate hydrogenotrophic denitrification in a pressurized reactor. <i>Chemical Engineering Journal</i> , 2016 , 286, 578-584	14.7	15
15	Response to comments on "Comparison of energy consumption in desalination by capacitive deionization and reverse osmosis" <i>Desalination</i> , 2019 , 462, 48-55	10.3	14
14	Induced Charge Anisotropy: A Hidden Variable Affecting Ion Transport through Membranes. <i>Matter</i> , 2020 , 2, 735-750	12.7	14

13	Rethinking the role of in-line coagulation in tertiary membrane filtration of municipal effluents. <i>Separation and Purification Technology</i> , 2014 , 125, 11-20	8.3	9
12	Pressurized hydrogenotrophic denitrification reactor for small water systems. <i>Journal of Environmental Management</i> , 2018 , 216, 315-319	7.9	8
11	Enthalpic and Entropic Selectivity of Water and Small Ions in Polyamide Membranes. <i>Environmental Science & Technology</i> , 2021 , 55, 14863-14875	10.3	7
10	Optimization of coagulation step in membrane treatment of municipal secondary effluents. <i>Desalination and Water Treatment</i> , 2011 , 35, 62-67		6
9	Machine learning reveals key ion selectivity mechanisms in polymeric membranes with subnanometer pores.. <i>Science Advances</i> , 2022 , 8, eabl5771	14.3	6
8	Capacitive deionization for simultaneous removal of salt and uncharged organic contaminants from water. <i>Separation and Purification Technology</i> , 2020 , 237, 116388	8.3	6
7	Simplified model for hydrogenotrophic denitrification in an unsaturated-flow pressurized reactor. <i>Chemical Engineering Journal</i> , 2016 , 306, 233-241	14.7	5
6	Co-reduction of nitrate and perchlorate in a pressurized hydrogenotrophic reactor with complete H ₂ utilization. <i>Chemical Engineering Journal</i> , 2017 , 328, 133-140	14.7	4
5	Indications of ion dehydration in diffusion-only and pressure-driven nanofiltration. <i>Journal of Membrane Science</i> , 2022 , 648, 120358	9.6	3
4	Selective Fluoride Transport in Subnanometer TiO Pores. <i>ACS Nano</i> , 2021 , 15, 16828-16838	16.7	2
3	Submerged bed versus unsaturated flow reactor: A pressurized hydrogenotrophic denitrification reactor as a case study. <i>Chemosphere</i> , 2016 , 161, 151-156	8.4	2
2	A pressurized hydrogenotrophic denitrification reactor system for removal of nitrates at high concentrations. <i>Journal of Water Process Engineering</i> , 2021 , 42, 102140	6.7	1
1	Desalinated brackish water with improved mineral composition using monovalent-selective nanofiltration followed by reverse osmosis. <i>Desalination</i> , 2021 , 520, 115364	10.3	0