

Geoffrey M Geise

List of Publications by Year in descending order

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54
papers

4,719
citations

186265
28
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49
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docs citations

57
times ranked

4421
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review and commentary on recent progress of additive manufacturing and its impact on membrane technology. <i>Journal of Membrane Science</i> , 2022, 645, 120041.	8.2	38
2	Characterization of a Centrifugal Microfluidic Orthogonal Flow Platform. <i>Micromachines</i> , 2022, 13, 487.	2.9	2
3	Counterion Mobility in Ion-Exchange Membranes: Spatial Effect and Valency-Dependent Electrostatic Interaction. <i>ACS ES&T Engineering</i> , 2022, 2, 1274-1286.	7.6	24
4	Bridging membrane transport models. <i>Science</i> , 2022, 377, 152-152.	12.6	0
5	Influence of Salt Concentration on Hydrated Polymer Relative Permittivity and State of Water Properties. <i>Macromolecules</i> , 2021, 54, 637-646.	4.8	14
6	Layer-by-layer approach to enable polyamide formation on microporous supports for thin-film composite membranes. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51201.	2.6	0
7	Methoxy groups increase water and decrease salt permeability properties of sulfonated polysulfone desalination membranes. <i>Journal of Membrane Science</i> , 2021, 630, 119298.	8.2	10
8	The impact of cation and anion pairing in ionic salts on surface defect passivation in cesium lead bromide nanocrystals. <i>Journal of Materials Chemistry C</i> , 2021, 9, 991-999.	5.5	0
9	Why polyamide reverse-osmosis membranes work so well. <i>Science</i> , 2021, 371, 31-32.	12.6	42
10	Thermodynamic Interactions as a Descriptor of Cross-Over in Nonaqueous Redox Flow Battery Membranes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 49331-49339.	8.0	6
11	Local Water Transport in Rubbery versus Glassy Separation Membranes and Analogous Solutions. <i>Macromolecules</i> , 2021, 54, 11187-11197.	4.8	6
12	Dielectric Permittivity Properties of Hydrated Polymers: Measurement and Connection to Ion Transport Properties. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5205-5217.	3.7	24
13	Stable and Highly Conductive Polycationic Polybenzimidazole Membrane Blends for Intermediate Temperature Polymer Electrolyte Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 573-585.	5.1	41
14	Connecting the Ion Separation Factor to the Sorption and Diffusion Selectivity of Ion Exchange Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14189-14206.	3.7	28
15	Generalized Approach for Rapid Aqueous MOF Synthesis by Controlling Solution pH. <i>Crystal Growth and Design</i> , 2020, 20, 6787-6795.	3.0	26
16	Effects of fixed charge group physicochemistry on anion exchange membrane permselectivity and ion transport. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7283-7293.	2.8	20
17	Experimental characterization of polymeric membranes for selective ion transport. <i>Current Opinion in Chemical Engineering</i> , 2020, 28, 36-42.	7.8	22
18	Conductivity, permeability, and stability properties of chemically tailored poly(phenylene oxide) membranes for Li ⁺ conductive non-aqueous redox flow battery separators. <i>Journal of Power Sources</i> , 2020, 460, 228107.	7.8	18

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19	Engineering Selective Desalination Membranes via Molecular Control of Polymer Functional Groups. <i>Environmental Science and Technology Letters</i> , 2019, 6, 462-466.	8.7	22
20	Functional group configuration influences salt transport in desalination membrane materials. <i>Journal of Membrane Science</i> , 2019, 590, 117295.	8.2	17
21	Assembling a Natural Small Molecule into a Supramolecular Network with High Structural Order and Dynamic Functions. <i>Journal of the American Chemical Society</i> , 2019, 141, 12804-12814.	13.7	190
22	Anion Exchange Membranes with Dynamic Redox-Responsive Properties. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29187-29194.	8.0	4
23	Water content, relative permittivity, and ion sorption properties of polymers for membrane desalination. <i>Journal of Membrane Science</i> , 2019, 574, 24-32.	8.2	37
24	Increasing salt size selectivity in low water content polymers via polymer backbone dynamics. <i>Journal of Membrane Science</i> , 2018, 552, 43-50.	8.2	24
25	Water and Salt Transport Properties of Triptycene-Containing Sulfonated Polysulfone Materials for Desalination Membrane Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4102-4112.	8.0	45
26	Influence of Rubbery versus Glassy Backbone Dynamics on Multiscale Transport in Polymer Membranes. <i>Macromolecules</i> , 2018, 51, 9222-9233.	4.8	22
27	Specific co-ion sorption and diffusion properties influence membrane permselectivity. <i>Journal of Membrane Science</i> , 2018, 563, 492-504.	8.2	49
28	The Role of Experimental Factors in Membrane Permselectivity Measurements. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7559-7566.	3.7	27
29	Increased Hydrogel Swelling Induced by Absorption of Small Molecules. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14263-14270.	8.0	42
30	Modeling the water permeability and water/salt selectivity tradeoff in polymer membranes. <i>Journal of Membrane Science</i> , 2016, 520, 790-800.	8.2	93
31	Water and salt transport properties of zwitterionic polymers film. <i>Journal of Membrane Science</i> , 2015, 491, 73-81.	8.2	53
32	Reducing nitrogen crossover in microbial reverse-electrodialysis cells by using adjacent anion exchange membranes and anion exchange resin. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 865-873.	2.4	3
33	Fundamental water and salt transport properties of polymeric materials. <i>Progress in Polymer Science</i> , 2014, 39, 1-42.	24.7	597
34	Free volume characterization of sulfonated styrenic pentablock copolymers using positron annihilation lifetime spectroscopy. <i>Journal of Membrane Science</i> , 2014, 453, 425-434.	8.2	45
35	Specific ion effects on membrane potential and the permselectivity of ion exchange membranes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21673-21681.	2.8	160
36	Patterned ion exchange membranes for improved power production in microbial reverse-electrodialysis cells. <i>Journal of Power Sources</i> , 2014, 271, 437-443.	7.8	58

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37	Salt Concentration Differences Alter Membrane Resistance in Reverse Electrodialysis Stacks. <i>Environmental Science and Technology Letters</i> , 2014, 1, 36-39.	8.7	91
38	Assessing the Utility of Bipolar Membranes for use in Photoelectrochemical Water-Splitting Cells. <i>ChemSusChem</i> , 2014, 7, 3017-3020.	6.8	104
39	Polymeric Membrane Characterization by PALS. , 2014, , 1-2.		0
40	Positron Annihilation Lifetime Spectroscopy (PALS). , 2014, , 1-2.		0
41	Ammonium Bicarbonate Transport in Anion Exchange Membranes for Salinity Gradient Energy. <i>ACS Macro Letters</i> , 2013, 2, 814-817.	4.8	29
42	Ionic Resistance and Permselectivity Tradeoffs in Anion Exchange Membranes. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10294-10301.	8.0	232
43	Enhanced desalination performance of polyamide bi-layer membranes prepared by sequential interfacial polymerization. <i>Journal of Membrane Science</i> , 2013, 437, 33-39.	8.2	37
44	Sodium chloride diffusion in sulfonated polymers for membrane applications. <i>Journal of Membrane Science</i> , 2013, 427, 186-196.	8.2	101
45	Characterization of Aluminum-Neutralized Sulfonated Styrenic Pentablock Copolymer Films. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 1056-1068.	3.7	47
46	Sodium chloride sorption in sulfonated polymers for membrane applications. <i>Journal of Membrane Science</i> , 2012, 423-424, 195-208.	8.2	128
47	Polyamide interfacial composite membranes prepared from m-phenylene diamine, trimesoyl chloride and a new disulfonated diamine. <i>Journal of Membrane Science</i> , 2012, 403-404, 152-161.	8.2	321
48	Influence of processing history on water and salt transport properties of disulfonated polysulfone random copolymers. <i>Polymer</i> , 2012, 53, 1581-1592.	3.8	46
49	Disulfonated Poly(arylene ether sulfone) Random Copolymer Blends Tuned for Rapid Water Permeation via Cation Complexation with Poly(ethylene glycol) Oligomers. <i>Chemistry of Materials</i> , 2011, 23, 1039-1049.	6.7	39
50	Effect of Free Volume on Water and Salt Transport Properties in Directly Copolymerized Disulfonated Poly(arylene ether sulfone) Random Copolymers. <i>Macromolecules</i> , 2011, 44, 4428-4438.	4.8	133
51	Comparison of the Permeation of MgCl ₂ versus NaCl in Highly Charged Sulfonated Polymer Membranes. <i>ACS Symposium Series</i> , 2011, , 239-245.	0.5	2
52	Water permeability and water/salt selectivity tradeoff in polymers for desalination. <i>Journal of Membrane Science</i> , 2011, 369, 130-138.	8.2	641
53	Characterization of a sulfonated pentablock copolymer for desalination applications. <i>Polymer</i> , 2010, 51, 5815-5822.	3.8	160
54	Water purification by membranes: The role of polymer science. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1685-1718.	2.1	798