

Michael A Hickner

List of Publications by Year in descending order

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papers

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Non-Monotonic Temperature Dependence of Hydroxide Ion Diffusion in Anion Exchange Membranes. <i>Chemistry of Materials</i> , 2022, 34, 2133-2145.	3.2	25
2	Improving the efficiency of CO ₂ electrolysis by using a bipolar membrane with a weak-acid cation exchange layer. <i>Nature Chemistry</i> , 2021, 13, 33-40.	6.6	121
3	Designing anion exchange membranes for CO ₂ electrolyzers. <i>Nature Energy</i> , 2021, 6, 339-348.	19.8	209
4	Enhanced performance of poly(olefin)-based anion exchange membranes cross-linked by triallylmethyl ammonium iodine and divinylbenzene. <i>Journal of Membrane Science</i> , 2021, 637, 119629.	4.1	23
5	Using a vapor-fed anode and saline catholyte to manage ion transport in a proton exchange membrane electrolyzer. <i>Energy and Environmental Science</i> , 2021, 14, 6041-6049.	15.6	22
6	Orientation of Thin Polyamide Layer-by-Layer Films on Non-Porous Substrates. <i>Macromolecules</i> , 2021, 54, 11296-11303.	2.2	2
7	Using reverse osmosis membranes to control ion transport during water electrolysis. <i>Energy and Environmental Science</i> , 2020, 13, 3138-3148.	15.6	49
8	Mesoscale Simulations of Quaternary Ammonium-Tethered Triblock Copolymers: Effects of the Degree of Functionalization and Styrene Content. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16315-16323.	1.5	11
9	Fourier transform infrared spectroscopy investigation of water microenvironments in polyelectrolyte multilayers at varying temperatures. <i>Soft Matter</i> , 2020, 16, 2291-2300.	1.2	22
10	Resistance and Permselectivity of 3D-Printed Micropatterned Anion-Exchange Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26298-26306.	4.0	20
11	Ion Transport in Pendant and Backbone Polymerized Ionic Liquids. <i>Macromolecules</i> , 2019, 52, 6438-6448.	2.2	30
12	Electrokinetic Streaming-Current Methods to Probe the Electrode-Electrolyte Interface under Applied Potentials. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19493-19505.	1.5	14
13	Substrate-Dependent Molecular and Nanostructural Orientation of Nafion Thin Films. <i>Advanced Functional Materials</i> , 2019, 29, 1902699.	7.8	28
14	Hydroxide Ion Diffusion in Anion-Exchange Membranes at Low Hydration: Insights from Ab Initio Molecular Dynamics. <i>Chemistry of Materials</i> , 2019, 31, 5778-5787.	3.2	64
15	Biomimetic Separation of Transport and Matrix Functions in Lamellar Block Copolymer Channel-Based Membranes. <i>ACS Nano</i> , 2019, 13, 8292-8302.	7.3	37
16	Anion Exchange Membranes with Dynamic Redox-Responsive Properties. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29187-29194.	4.0	4
17	Balancing Water Dissociation and Current Densities To Enable Sustainable Hydrogen Production with Bipolar Membranes in Microbial Electrolysis Cells. <i>Environmental Science & Technology</i> , 2019, 53, 14761-14768.	4.6	28
18	Solvent-non-solvent rapid-injection for preparing nanostructured materials from micelles to hydrogels. <i>Nature Communications</i> , 2019, 10, 3855.	5.8	30

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19	Direct probe of the nuclear modes limiting charge mobility in molecular semiconductors. <i>Materials Horizons</i> , 2019, 6, 182-191.	6.4	53
20	Poly(olefin)-Based Anion Exchange Membranes Prepared Using Ziegler-Natta Polymerization. <i>Macromolecules</i> , 2019, 52, 4030-4041.	2.2	92
21	High Performance Anion Exchange Membrane Fuel Cells Enabled by Fluoropoly(olefin) Membranes. <i>Advanced Functional Materials</i> , 2019, 29, 1902059.	7.8	128
22	Ceramic-Salt Composite Electrolytes from Cold Sintering. <i>Advanced Functional Materials</i> , 2019, 29, 1807872.	7.8	72
23	Ab Initio Molecular Dynamics Study of Hydroxide Diffusion Mechanisms in Nanoconfined Structural Mimics of Anion Exchange Membranes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4638-4653.	1.5	43
24	Synthesis of Aromatic Anion Exchange Membranes by Friedel-Crafts Bromoalkylation and Cross-Linking of Polystyrene Block Copolymers. <i>Macromolecules</i> , 2019, 52, 2139-2147.	2.2	152
25	Multiscale Tortuous Diffusion in Anion and Cation Exchange Membranes. <i>Macromolecules</i> , 2019, 52, 24-35.	2.2	34
26	Creating cross-linked lamellar block copolymer supporting layers for biomimetic membranes. <i>Faraday Discussions</i> , 2018, 209, 179-191.	1.6	15
27	Modeling and Experimental Evaluation of Ni(II) and Pb(II) Sorption from Aqueous Solutions Using a Polyaniline/CoFeC ₆ N ₆ Nanocomposite. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 741-750.	1.0	22
28	Substrate-Dependent Physical Aging of Confined Nafion Thin Films. <i>ACS Macro Letters</i> , 2018, 7, 223-227.	2.3	10
29	Unraveling the Complex Hydration Behavior of Ionomers under Thin Film Confinement. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3471-3481.	1.5	15
30	Tuning the properties of poly(2,6-dimethyl-1,4-phenylene oxide) anion exchange membranes and their performance in H ₂ /O ₂ fuel cells. <i>Energy and Environmental Science</i> , 2018, 11, 435-446.	15.6	225
31	Exploring backbone-cation alkyl spacers for multi-cation side chain anion exchange membranes. <i>Journal of Power Sources</i> , 2018, 375, 433-441.	4.0	83
32	Electrolyte-resistant epoxy for bonding batteries based on sandwich structures. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46059.	1.3	6
33	Utilizing thiol-ene chemistry for crosslinked nickel cation-based anion exchange membranes. <i>Journal of Polymer Science Part A</i> , 2018, 56, 328-339.	2.5	20
34	Improved ATR-FTIR detection of hydrocarbons in water with semi-crystalline polyolefin coatings on ATR elements. <i>Analyst</i> , 2018, 143, 5589-5596.	1.7	7
35	Chemical and Thermal Stability of Poly(phenylene oxide)-Based Anion Exchange Membranes Containing Alkyl Side Chains. <i>Journal of the Electrochemical Society</i> , 2018, 165, F1133-F1138.	1.3	11
36	Solvent-cast 3D printing of polysulfone and polyaniline composites. <i>Polymer</i> , 2018, 152, 18-24.	1.8	29

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37	The balance of electric field and interfacial catalysis in promoting water dissociation in bipolar membranes. <i>Energy and Environmental Science</i> , 2018, 11, 2235-2245.	15.6	100
38	Quantifying Carboxylic Acid Concentration in Model Polyamide Desalination Membranes via Fourier Transform Infrared Spectroscopy. <i>Macromolecules</i> , 2018, 51, 6623-6629.	2.2	26
39	Thermodynamics of Counterion Release Is Critical for Anion Exchange Membrane Conductivity. <i>Journal of the American Chemical Society</i> , 2018, 140, 7961-7969.	6.6	61
40	Electrocatalyst Design for Direct Borohydride Oxidation Guided by First Principles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2872-2881.	1.5	13
41	Improved electrical power production of thermally regenerative batteries using a poly(phenylene) Tj ETQq1 1 0.784314 rgBT /Overlock	4.0	60
42	Carbonate Dynamics and Opportunities With Low Temperature, Anion Exchange Membrane-Based Electrochemical Carbon Dioxide Separators. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2017, 14, .	1.1	25
43	Mechanically Robust Anion Exchange Membranes via Long Hydrophilic Cross-Linkers. <i>Macromolecules</i> , 2017, 50, 2329-2337.	2.2	103
44	Anion exchange membranes by bromination of tetramethylbiphenol-based poly(sulfone)s. <i>Polymer Chemistry</i> , 2017, 8, 2442-2449.	1.9	30
45	Multifunctional structural lithium-ion battery for electric vehicles. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 1603-1613.	1.4	45
46	States of water in proton exchange membranes: Part A - Influence of chemical structure and composition. <i>Polymer</i> , 2017, 111, 297-306.	1.8	20
47	Cationic Side-Chain Attachment to Poly(Phenylene Oxide) Backbones for Chemically Stable and Conductive Anion Exchange Membranes. <i>Chemistry of Materials</i> , 2017, 29, 5321-5330.	3.2	133
48	Water Sorption in Electron-Beam Evaporated SiO ₂ on QCM Crystals and Its Influence on Polymer Thin Film Hydration Measurements. <i>Langmuir</i> , 2017, 33, 5261-5268.	1.6	20
49	Comparison of cathode catalyst binders for the hydrogen evolution reaction in microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 15739-15744.	3.8	23
50	Elastic Long-Chain Multication Cross-Linked Anion Exchange Membranes. <i>Macromolecules</i> , 2017, 50, 3323-3332.	2.2	159
51	Insight into the Mechanism of Thermal Stability of $\hat{\pm}$ -Diimine Nickel Complex in Catalyzing Ethylene Polymerization. <i>Organometallics</i> , 2017, 36, 1196-1203.	1.1	22
52	An Ionophore-Based Anion-Selective Optode Printed on Cellulose Paper. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11826-11830.	7.2	64
53	Investigation of polymer-solvent interactions in poly(styrene sulfonate) thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1365-1372.	2.4	22
54	Spectroscopic Characterization of Sulfonate Charge Density in Ion-Containing Polymers. <i>Journal of Physical Chemistry B</i> , 2017, 121, 11504-11510.	1.2	7

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55	Molecular Engineering Mechanically Programmable Hydrogels with Orthogonal Functionalization. <i>Chemistry of Materials</i> , 2017, 29, 9981-9989.	3.2	12
56	First-Principles Calculation of Pt Surface Energies in an Electrochemical Environment: Thermodynamic Driving Forces for Surface Faceting and Nanoparticle Reconstruction. <i>Langmuir</i> , 2017, 33, 7043-7052.	1.6	31
57	Flexible Ionic Diodes for Low-Frequency Mechanical Energy Harvesting. <i>Advanced Energy Materials</i> , 2017, 7, 1601983.	10.2	51
58	Multivariate analysis of attachment of biofouling organisms in response to material surface characteristics. <i>Biointerphases</i> , 2017, 12, 051003.	0.6	13
59	Mesoscale Simulations of Anion Exchange Membranes Based on Quaternary Ammonium Tethered Triblock Copolymers. <i>Macromolecules</i> , 2017, 50, 4397-4405.	2.2	62
60	3D Printing of Micropatterned Anion Exchange Membranes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16656-16663.	4.0	63
61	Increased Hydrogel Swelling Induced by Absorption of Small Molecules. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14263-14270.	4.0	42
62	Investigation of intricate, amphiphilic crosslinked hyperbranched fluoropolymers as anti-icing coatings for extreme environments. <i>Journal of Polymer Science Part A</i> , 2016, 54, 238-244.	2.5	29
63	Specific ion effects on the permselectivity of sulfonated poly(ether sulfone) cation exchange membranes. <i>Journal of Membrane Science</i> , 2016, 508, 146-152.	4.1	100
64	Functionalization of Poly(2,6-dimethyl-1,4-phenylene oxide)s with Hindered Fluorene Side Chains for Anion Exchange Membranes. <i>Macromolecules</i> , 2016, 49, 3300-3309.	2.2	107
65	Highly conductive side chain block copolymer anion exchange membranes. <i>Soft Matter</i> , 2016, 12, 5359-5371.	1.2	42
66	Side Chain Influence on the Mechanical Properties and Water Uptake of Confined Comb-Shaped Cationic Polymer Thin Films. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 2442-2451.	1.1	13
67	Highly ordered ion-conducting block copolymers by hydrophobic block modification. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15437-15449.	5.2	15
68	Click Cross-Linking-Improved Waterborne Polymers for Environment-Friendly Coatings and Adhesives. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17499-17510.	4.0	79
69	Bicarbonate and chloride anion transport in anion exchange membranes. <i>Journal of Membrane Science</i> , 2016, 514, 125-134.	4.1	60
70	N-Alkyl Interstitial Spacers and Terminal Pendants Influence the Alkaline Stability of Tetraalkylammonium Cations for Anion Exchange Membrane Fuel Cells. <i>Chemistry of Materials</i> , 2016, 28, 2589-2598.	3.2	113
71	Crosslinking of comb-shaped polymer anion exchange membranes via thiol-ene click chemistry. <i>Polymer Chemistry</i> , 2016, 7, 2464-2475.	1.9	131
72	Varying the microphase separation patterns of alkaline polymer electrolytes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4071-4081.	5.2	61

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73	Multication Side Chain Anion Exchange Membranes. <i>Macromolecules</i> , 2016, 49, 815-824.	2.2	303
74	Signal Enhanced FTIR Analysis of Alignment in NAFION Thin Films at SiO ₂ and Au Interfaces. <i>ACS Macro Letters</i> , 2016, 5, 83-87.	2.3	42
75	Imidazolium-based organic-inorganic hybrid anion exchange membranes for fuel cell applications. <i>Journal of Membrane Science</i> , 2016, 508, 7-14.	4.1	69
76	Sulfonated polymers containing polyhedral oligomeric silsesquioxane (POSS) core for high performance proton exchange membranes. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7135-7143.	3.8	14
77	Controlling crystallization to improve charge mobilities in transistors based on 2,7-dioctyl[1]benzothieno[3,2-b][1]benzothiophene. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8799-8803.	2.7	9
78	Miscibility and Acid Strength Govern Contact Doping of Organic Photovoltaics with Strong Polyelectrolytes. <i>Macromolecules</i> , 2015, 48, 5162-5171.	2.2	13
79	Design, manufacture and test of a novel structural battery based on sandwich construction. <i>Journal of Sandwich Structures and Materials</i> , 2015, 17, 666-690.	2.0	22
80	Measuring water hydrogen bonding distributions in proton exchange membranes using linear Fourier Transform Infrared spectroscopy. <i>Solid State Ionics</i> , 2015, 275, 66-70.	1.3	14
81	Effect of Superacidic Side Chain Structures on High Conductivity Aromatic Polymer Fuel Cell Membranes. <i>Macromolecules</i> , 2015, 48, 7117-7126.	2.2	57
82	Mechanically Tough and Chemically Stable Anion Exchange Membranes from Rigid-Flexible Semi-Interpenetrating Networks. <i>Chemistry of Materials</i> , 2015, 27, 6689-6698.	3.2	149
83	Characterization and Chemical Stability of Anion Exchange Membranes Cross-Linked with Polar Electron-Donating Linkers. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1047-F1055.	1.3	50
84	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.	1.2	3
85	New Polymer Structures for Anion Exchange Membranes. <i>ECS Transactions</i> , 2015, 69, 403-406.	0.3	3
86	Alkaline membrane fuel cells with in-situ cross-linked ionomers. <i>Electrochimica Acta</i> , 2015, 152, 93-100.	2.6	29
87	Polymer Physics: Impact of Substrate and Processing on Confinement of Nafion Thin Films (Adv. Funct. Tj ETQq1 1,0,784314,rgBT /Ove	7.8	0
88	Probing microphase separation and proton transport cooperativity in polymer-ethered tetrazoles. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 1375-1387.	2.4	1
89	Cross-Linked Anion Exchange Membranes for AEMFC. <i>ECS Transactions</i> , 2014, 64, 1229-1232.	0.3	1
90	Solution Synthesis of Cu ₃ PdN Nanocrystals as Ternary Metal Nitride Electrocatalysts for the Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2014, 26, 6226-6232.	3.2	82

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91	Amphoteric ion exchange membrane synthesized by direct polymerization for vanadium redox flow battery application. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16123-16131.	3.8	51
92	Influence of Sulfone Linkage on the Stability of Aromatic Quaternary Ammonium Polymers for Alkaline Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, F615-F621.	1.3	69
93	Impact of Substrate and Processing on Confinement of Nafion Thin Films. <i>Advanced Functional Materials</i> , 2014, 24, 4763-4774.	7.8	167
94	Contact Doping with Sub- μm Monolayers of Strong Polyelectrolytes for Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2014, 4, 1400439.	10.2	25
95	Metal-Ligand Based Anion Exchange Membranes. <i>ACS Symposium Series</i> , 2014, , 127-146.	0.5	6
96	Cross-linked comb-shaped anion exchange membranes with high base stability. <i>Chemical Communications</i> , 2014, 50, 4092.	2.2	148
97	Specific ion effects on membrane potential and the permselectivity of ion exchange membranes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21673-21681.	1.3	160
98	Anion-exchange membranes in electrochemical energy systems. <i>Energy and Environmental Science</i> , 2014, 7, 3135-3191.	15.6	1,617
99	Patterned ion exchange membranes for improved power production in microbial reverse-electrodialysis cells. <i>Journal of Power Sources</i> , 2014, 271, 437-443.	4.0	58
100	Salt Concentration Differences Alter Membrane Resistance in Reverse Electrodialysis Stacks. <i>Environmental Science and Technology Letters</i> , 2014, 1, 36-39.	3.9	91
101	Poly(vinylidene fluoride-co-hexafluoropropylene) phase inversion coating as a diffusion layer to enhance the cathode performance in microbial fuel cells. <i>Journal of Power Sources</i> , 2014, 269, 379-384.	4.0	29
102	Single-Step Fabrication Using a Phase Inversion Method of Poly(vinylidene fluoride) (PVDF) Activated Carbon Air Cathodes for Microbial Fuel Cells. <i>Environmental Science and Technology Letters</i> , 2014, 1, 416-420.	3.9	145
103	Low-temperature crosslinking of anion exchange membranes. <i>Polymer Chemistry</i> , 2014, 5, 2928-2935.	1.9	70
104	Assessing the Utility of Bipolar Membranes for use in Photoelectrochemical Water-Splitting Cells. <i>ChemSusChem</i> , 2014, 7, 3017-3020.	3.6	104
105	Spray-on polyvinyl alcohol separators and impact on power production in air-cathode microbial fuel cells with different solution conductivities. <i>Bioresource Technology</i> , 2014, 172, 156-161.	4.8	17
106	Reducing capacity fade in vanadium redox flow batteries by altering charging and discharging currents. <i>Journal of Power Sources</i> , 2014, 246, 767-774.	4.0	83
107	Anion Exchange Fuel Cell Membranes Prepared from C^{13}H Borylation and Suzuki Coupling Reactions. <i>Macromolecules</i> , 2014, 47, 1973-1980.	2.2	86
108	Tetrazolation of Side Chains and Anhydrous Conductivity in a Hydrophobic Polymer. <i>Macromolecules</i> , 2014, 47, 4243-4250.	2.2	5

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109	Poly(vinyl alcohol) separators improve the coulombic efficiency of activated carbon cathodes in microbial fuel cells. <i>Electrochemistry Communications</i> , 2013, 34, 150-152.	2.3	31
110	Optimized Anion Exchange Membranes for Vanadium Redox Flow Batteries. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7559-7566.	4.0	136
111	Composite blend polymer membranes with increased proton selectivity and lifetime for vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2013, 231, 301-306.	4.0	36
112	Ammonium Bicarbonate Transport in Anion Exchange Membranes for Salinity Gradient Energy. <i>ACS Macro Letters</i> , 2013, 2, 814-817.	2.3	29
113	Species transport mechanisms governing capacity loss in vanadium flow batteries: Comparing Nafion [®] and sulfonated Radel membranes. <i>Electrochimica Acta</i> , 2013, 98, 66-74.	2.6	108
114	Optimizing membrane thickness for vanadium redox flow batteries. <i>Journal of Membrane Science</i> , 2013, 437, 108-113.	4.1	81
115	Synthesis and structure-property relationships of poly(sulfone)s for anion exchange membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1790-1798.	2.4	25
116	Layer-by-layer self-assembly of PDDA/PSS-SPFEK composite membrane with low vanadium permeability for vanadium redox flow battery. <i>RSC Advances</i> , 2013, 3, 15467.	1.7	54
117	Ionic Resistance and Permselectivity Tradeoffs in Anion Exchange Membranes. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10294-10301.	4.0	232
118	FTIR Characterization of Water-Polymer Interactions in Superacid Polymers. <i>Journal of Physical Chemistry B</i> , 2013, 117, 16266-16274.	1.2	20
119	Water Uptake and Ion Mobility in Cross-Linked Bis(terpyridine)ruthenium-Based Anion Exchange Membranes. <i>Macromolecules</i> , 2013, 46, 9279-9287.	2.2	72
120	Self-Assembly and Transport Limitations in Confined Nafion Films. <i>Macromolecules</i> , 2013, 46, 867-873.	2.2	192
121	V5+ degradation of sulfonated Radel membranes for vanadium redox flow batteries. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11299.	1.3	134
122	Ion Motion in Anion and Proton-Conducting Triblock Copolymers. <i>Macromolecules</i> , 2013, 46, 949-956.	2.2	63
123	Quantitative ¹ H NMR Analysis of Chemical Stabilities in Anion-Exchange Membranes. <i>ACS Macro Letters</i> , 2013, 2, 49-52.	2.3	158
124	Selective anion exchange membranes for high coulombic efficiency vanadium redox flow batteries. <i>Electrochemistry Communications</i> , 2013, 26, 37-40.	2.3	191
125	Layered zirconium phosphate sulfophenylphosphonates reinforced sulfonated poly (fluorenyl ether) Tj ETQq1 1 0.784314 rgBT /Overl of Membrane Science, 2013, 443, 19-27.	4.1	42
126	Highly Stable, Anion Conductive, Comb-Shaped Copolymers for Alkaline Fuel Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 10124-10133.	6.6	471

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127	Confinement and Proton Transfer in NAFION Thin Films. <i>Macromolecules</i> , 2013, 46, 413-421.	2.2	48
128	Ion Clustering in Quaternary Ammonium Functionalized Benzylmethyl Containing Poly(arylene ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.2	134
129	Polymer electrolyte membranes based on poly(arylene ether sulfone) with pendant perfluorosulfonic acid. <i>Polymer Chemistry</i> , 2013, 4, 272-281.	1.9	61
130	Poly(Arylene Ether Sulfone) Ionomers with Different Acidity Strengths and Fuel Cell Membrane Properties. <i>ECS Transactions</i> , 2013, 50, 1031-1035.	0.3	1
131	Low-Cost, Damage-Free Patterning of Lead Zirconate Titanate Films. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2799-2805.	1.9	9
132	Anion exchange membranes: Current status and moving forward. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1727-1735.	2.4	367
133	Characterization of Anion Exchange Membrane Technology for Low Cost Electrolysis. <i>ECS Transactions</i> , 2013, 45, 121-130.	0.3	49
134	Anion Exchange Membranes for Vanadium Redox Flow Batteries. <i>ECS Transactions</i> , 2013, 53, 83-89.	0.3	7
135	Stable fluorinated sulfonated poly(arylene ether) membranes for vanadium redox flow batteries. <i>RSC Advances</i> , 2012, 2, 8087.	1.7	68
136	Solid-State Water Electrolysis with an Alkaline Membrane. <i>Journal of the American Chemical Society</i> , 2012, 134, 9054-9057.	6.6	424
137	Cationic fluorinated polymer binders for microbial fuel cell cathodes. <i>RSC Advances</i> , 2012, 2, 5856.	1.7	18
138	Antiplasticization and Water Uptake of Nafion Thin Films. <i>ACS Macro Letters</i> , 2012, 1, 291-295.	2.3	72
139	Directly fluorinated polyaromatic composite membranes for vanadium redox flow batteries. <i>Journal of Membrane Science</i> , 2012, 415-416, 139-144.	4.1	22
140	Novel anti-flooding poly(dimethylsiloxane) (PDMS) catalyst binder for microbial fuel cell cathodes. <i>Journal of Power Sources</i> , 2012, 218, 100-105.	4.0	70
141	Polymers in Energy Applications. , 2012, , 597-600.		1
142	Synthesis and characterization of quaternary ammonium functionalized fluorene-containing cardo polymers for potential anion exchange membrane water electrolyzer applications. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16168-16176.	3.8	21
143	Metal-Cation-Based Anion Exchange Membranes. <i>Journal of the American Chemical Society</i> , 2012, 134, 4493-4496.	6.6	295
144	Development and evaluation of carbon and binder loading in low-cost activated carbon cathodes for air-cathode microbial fuel cells. <i>RSC Advances</i> , 2012, 2, 12751-12758.	1.7	87

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145	Degradation of Imidazolium- and Quaternary Ammonium-Functionalized Poly(fluorenyl ether ketone) Tj ETQq1 1 0.784314 rgBT/Ove	4.0	220
146	Polymer Separators for High-Power, High-Efficiency Microbial Fuel Cells. ACS Applied Materials & Interfaces, 2012, 4, 6454-6457.	4.0	43
147	Poly(Arylene Ether Sulfone) Ionomers with Different Acidity Strengths and Fuel Cell Membrane Properties. ECS Meeting Abstracts, 2012, , .	0.0	0
148	Water-mediated transport in ion-containing polymers. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 9-20.	2.4	85
149	Transport properties and fuel cell performance of sulfonated poly(imide) proton exchange membranes. International Journal of Hydrogen Energy, 2012, 37, 6153-6160.	3.8	36
150	Chemical mapping and electrical conductivity of carbon nanotube patterned arrays. Journal of Materials Chemistry, 2011, 21, 14259.	6.7	1
151	Neutral hydrophilic cathode catalyst binders for microbial fuel cells. Energy and Environmental Science, 2011, 4, 928-934.	15.6	50
152	Zeta Potential of Ion-Conductive Membranes by Streaming Current Measurements. Langmuir, 2011, 27, 4721-4727.	1.6	86
153	Highly Conductive Aromatic Ionomers with Perfluorosulfonic Acid Side Chains for Elevated Temperature Fuel Cells. Macromolecules, 2011, 44, 4605-4609.	2.2	50
154	Block Copolymers for Fuel Cells. Macromolecules, 2011, 44, 1-11.	2.2	465
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