

Ultrathin composite membrane of alkaline polymer elec

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Best Practices for Investigating Anion Exchange Membrane Suitability for Alkaline Electrochemical Devices: Case Study Using Quaternary Ammonium Poly(2,6-dimethyl 1,4-phenylene)oxide Anion Exchange Membranes. <i>Journal of the Electrochemical Society</i> , 2013, 160, F1258-F1274.	2.9	85
3	Highly Stable Alkaline Polymer Electrolyte Based on a Poly(ether ether ketone) Backbone. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 13405-13411.	8.0	91
4	SPEEK/Graphene oxide nanocomposite membranes with superior cyclability for highly efficient vanadium redox flow battery. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12423-12432.	10.3	244
5	Anion-exchange membranes in electrochemical energy systems. <i>Energy and Environmental Science</i> , 2014, 7, 3135-3191.	30.8	1,617
6	Preparation and characterization of directional conducting and lower methanol permeable ultrathin membrane based on poly (vinyl alcohol) and imidazolium compounds. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17191-17200.	7.1	7
7	Anion-Exchange Membranes for Fuel Cells: Synthesis Strategies, Properties and Perspectives. <i>Fuel Cells</i> , 2015, 15, 761-780.	2.4	83
8	An Effective Approach for Alleviating Cation-Induced Backbone Degradation in Aromatic Ether-Based Alkaline Polymer Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2809-2816.	8.0	79
9	Manipulating Water in High-Performance Hydroxide Exchange Membrane Fuel Cells through Asymmetric Humidification and Wetproofing. <i>Journal of the Electrochemical Society</i> , 2015, 162, F483-F488.	2.9	71
10	Effect of different ion-aggregating structures on the property of proton conducting membrane based on polyvinyl alcohol. <i>Journal of Membrane Science</i> , 2015, 490, 38-45.	8.2	10
11	Highly branched sulfonated poly(flourenyl ether ketone sulfone)s membrane for energy efficient vanadium redox flow battery. <i>Journal of Power Sources</i> , 2015, 285, 109-118.	7.8	66
12	Mechanically Tough and Chemically Stable Anion Exchange Membranes from Rigid-Flexible Semi-Interpenetrating Networks. <i>Chemistry of Materials</i> , 2015, 27, 6689-6698.	6.7	149
13	Protein mediated textile dye filtration using graphene oxide-polysulfone composite membranes. <i>RSC Advances</i> , 2015, 5, 71011-71021.	3.6	8
14	Pt-Ru catalyzed hydrogen oxidation in alkaline media: oxophilic effect or electronic effect?. <i>Energy and Environmental Science</i> , 2015, 8, 177-181.	30.8	418
15	Effect of grafting density of the side chain on the microstructure and properties of proton exchange membranes based on polyvinyl alcohol and poly(ionic liquid). <i>RSC Advances</i> , 2016, 6, 58890-58897.	3.6	7
16	Varying the microphase separation patterns of alkaline polymer electrolytes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4071-4081.	10.3	61
17	Crosslinked poly(phenylene oxide)-based nanofiber composite membranes for alkaline fuel cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 132-141.	10.3	81
18	Mechanically Robust Anion Exchange Membranes via Long Hydrophilic Cross-Linkers. <i>Macromolecules</i> , 2017, 50, 2329-2337.	4.8	103
19	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.	6.7	133

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20	A comprehensive study on the stability and ion transport in cross-linked anion exchange membranes based on polysulfone for solid alkaline fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 17229-17241.	7.1	40
21	Elastic Long-Chain Multication Cross-Linked Anion Exchange Membranes. <i>Macromolecules</i> , 2017, 50, 3323-3332.	4.8	159
22	Effect of humidity on the interaction of CO ₂ with alkaline anion exchange membranes probed using the quartz crystal microbalance. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 24301-24307.	7.1	9
23	Fe/N/C Nanotubes with Atomic Fe Sites: A Highly Active Cathode Catalyst for Alkaline Polymer Electrolyte Fuel Cells. <i>ACS Catalysis</i> , 2017, 7, 6485-6492.	11.2	141
24	Phase separated nanofibrous anion exchange membranes with polycationic side chains. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15326-15341.	10.3	39
25	Advances and challenges in alkaline anion exchange membrane fuel cells. <i>Progress in Energy and Combustion Science</i> , 2018, 66, 141-175.	31.2	388
26	Fuel permeability of anion exchange membranes under electric field. <i>Electrochimica Acta</i> , 2018, 266, 357-363.	5.2	3
27	Enhanced Fe dispersion via "pinning" effect of thiocyanate ion on ferric ion in Fe-N-S-doped catalyst as an excellent oxygen reduction reaction electrode. <i>Journal of Power Sources</i> , 2018, 376, 161-167.	7.8	30
28	Analysis of alkaline exchange membrane fuel cells performance at different operating conditions using DC and AC methods. <i>Journal of Power Sources</i> , 2018, 375, 185-190.	7.8	22
29	Rational design of polyaromatic ionomers for alkaline membrane fuel cells with $>1 \text{ W cm}^{-2}$ power density. <i>Energy and Environmental Science</i> , 2018, 11, 3283-3291.	30.8	209
30	Sulfonated Nanobamboo Fiber-Reinforced Quaternary Ammonia Poly(ether ether ketone) Membranes for Alkaline Polymer Electrolyte Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33581-33588.	8.0	24
31	Anion Exchange Membranes™ Evolution toward High Hydroxide Ion Conductivity and Alkaline Resiliency. <i>ACS Applied Energy Materials</i> , 2018, 1, 2991-3012.	5.1	211
32	Recent advances in multi-scale design and construction of materials for direct methanol fuel cells. <i>Nano Energy</i> , 2019, 65, 104048.	16.0	187
33	Hydrophobic Side-Chain Attached Polyarylether-Based Anion Exchange Membranes with Enhanced Alkaline Stability. <i>ACS Applied Energy Materials</i> , 2019, 2, 8052-8059.	5.1	20
34	Carbon dots for in vivo fluorescence imaging of adipose tissue-derived mesenchymal stromal cells. <i>Carbon</i> , 2019, 152, 434-443.	10.3	49
35	Pendent piperidinium-functionalized blend anion exchange membrane for fuel cell application. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 15482-15493.	7.1	58
36	Effect of Micromorphology on Alkaline Polymer Electrolyte Stability. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 469-477.	8.0	36
37	Composite membranes from quaternized chitosan reinforced with surface-functionalized PVDF electrospun nanofibers for alkaline direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2020, 611, 118242.	8.2	49

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38	A highly stable Cu(OH) ₂ -Poly(vinyl alcohol) nanocomposite membrane for dramatically enhanced direct borohydride fuel cell performance. <i>Journal of Power Sources</i> , 2020, 467, 228312.	7.8	8
39	Alcohol-Treated Porous PTFE Substrate for the Penetration of PTFE-Incompatible Hydrocarbon-Based Ionomer Solutions. <i>Langmuir</i> , 2021, 37, 3694-3701.	3.5	18
40	Ultrathin Self-Cross-Linked Alkaline Polymer Electrolyte Membrane for APEFC Applications. <i>ACS Applied Energy Materials</i> , 2021, 4, 4297-4301.	5.1	5
41	Green preparation of highly alkali-resistant PTFE composite membranes for advanced alkaline water electrolysis. <i>Chemical Engineering Journal</i> , 2021, 426, 131340.	12.7	36
43	Reinforced poly(fluorenyl-co-terphenyl piperidinium) anion exchange membranes for fuel cells. <i>Journal of Membrane Science</i> , 2022, 644, 120160.	8.2	23
44	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies. <i>Chemical Reviews</i> , 2022, 122, 6117-6321.	47.7	195
45	Cationization of <i>Eucalyptus</i> Kraft LignoBoost Lignin: Preparation, Properties, and Potential Applications. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 3503-3515.	3.7	5
46	Ultrathin anion exchange membranes with an improved OH ⁻ transfer rate for high-performance AEMFCs. <i>Journal of Materials Chemistry A</i> , 2022, 10, 21503-21511.	10.3	24
47	Tuning the Hydrophobic Component in Reinforced Poly(arylimidazolium)-Based Anion Exchange Membranes for Alkaline Fuel Cells. <i>ACS Applied Energy Materials</i> , 2022, 5, 15211-15221.	5.1	5
49	Design and introduction of quaternary ammonium hydroxide- ϵ -functionalized graphene oxide quantum dots as a pseudo-homogeneous catalyst for epoxidation of α,β -unsaturated ketones. <i>Scientific Reports</i> , 2023, 13, .	3.3	0
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52	pH-Swing membrane adsorption of perfluoroalkyl substances: Anion-exchange brushes and role of water chemistry. <i>Separation and Purification Technology</i> , 2024, 329, 124800.	7.9	2
53	Bio-mimetic selectivity in Hg ²⁺ sensing developed via electro-copolymerized PEDOT and benzothiazole-Au nanoparticles composite. <i>Mikrochimica Acta</i> , 2023, 190, .	5.0	1
54	Surface grafting of a zwitterionic copolymer onto a cellulose nanofiber membrane for oil/water separation. <i>Cellulose</i> , 2023, 30, 9635-9645.	4.9	1
56	Ultra-thin, mechanically durable reinforced sulfonated poly(fluorenyl biphenyl) indole proton exchange membrane for fuel cell. <i>Journal of Membrane Science</i> , 2024, 694, 122393.	8.2	0