

Jifu Zheng

List of Publications by Year in descending order

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42
papers

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257450
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docs citations

42
times ranked

1265
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, synthesis and characterization of anion exchange membranes containing guanidinium salts with ultrahigh dimensional stability. Journal of Membrane Science, 2022, 643, 120008.	8.2	32
2	Fluorinated strategy of node structure of Zr-based MOF for construction of high-performance composite polymer electrolyte membranes. Journal of Membrane Science, 2022, 645, 120193.	8.2	15
3	The effect of side chain length on the morphology and transport properties of fluorene-based anion exchange membranes. International Journal of Hydrogen Energy, 2022, 47, 15044-15055.	7.1	18
4	Alkaline polymers of intrinsic microporosity: high-conduction and low-loss anhydrous proton exchange membranes for energy conversion. Journal of Materials Chemistry A, 2021, 9, 3925-3930.	10.3	32
5	Facile Preparation of Highly Alkaline Stable Poly(arylene-imidazolium) Anion Exchange Membranes through an Ionized Monomer Strategy. Macromolecules, 2021, 54, 2202-2212.	4.8	38
6	Preparation and characterization of side-chain poly(aryl ether ketone) anion exchange membranes by superacid-catalyzed reaction. Polymer, 2021, 222, 123639.	3.8	26
7	Synthesis of Fluorinated Poly(phenyl-alkane)s of Intrinsic Microporosity by Regioselective Aldehyde (A ₂) + Aromatics (B ₂) Friedel-Crafts Polycondensation. Macromolecules, 2021, 54, 6543-6551.	4.8	11
8	High flexible ether-free semi-crystalline fuel cell membranes: Molecular-level design, assembly structure and properties. Journal of Membrane Science, 2021, 627, 119240.	8.2	6
9	SCTF nanosheets@ sulfonated poly (p-phenylene-co-aryl ether ketone) composite proton exchange membranes for passive direct methanol fuel cells. International Journal of Hydrogen Energy, 2021, 46, 34344-34355.	7.1	2
10	Exploration of the Polarization Curve for Proton-Exchange Membrane Fuel Cells. ACS Applied Materials & Interfaces, 2021, 13, 58838-58847.	8.0	14
11	Novel proton exchange membranes based on sulfonated-phosphonated poly (p-phenylene-co-aryl ether) Tj ETQq1 1 0.784314 rgBT /Ove Membrane Science, 2020, 594, 117466.	8.2	23
12	High- κ polymers of intrinsic microporosity: a new class of high temperature and low loss dielectrics for printed electronics. Materials Horizons, 2020, 7, 592-597.	12.2	87
13	Preparation and properties of anion exchange membranes with exceptional alkaline stable polymer backbone and cation groups. Journal of Membrane Science, 2020, 596, 117720.	8.2	84
14	Amino-MIL-53(Al)-Nanosheets@Nafion Composite Membranes with Improved Proton/Methanol Selectivity for Passive Direct Methanol Fuel Cells. Industrial & Engineering Chemistry Research, 2020, 59, 14825-14833.	3.7	20
15	Controlled Superacid-Catalyzed Self-Cross-Linked Polymer of Intrinsic Microporosity for High-Performance CO ₂ Separation. Macromolecules, 2020, 53, 7988-7996.	4.8	18
16	A Microporous Polymer with Suspended Cations for Anion Exchange Membrane Fuel Cells. Macromolecules, 2020, 53, 10998-11008.	4.8	43
17	The effect of polymer backbones and cation functional groups on properties of anion exchange membranes for fuel cells. Journal of Membrane Science, 2020, 603, 118025.	8.2	49
18	Bi-guanidinium-based crosslinked anion exchange membranes: Synthesis, characterization, and properties. Journal of Membrane Science, 2020, 601, 117923.	8.2	50

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19	Azobenzene-assisted exfoliation of 2D covalent organic frameworks into large-area, few-layer nanosheets for high flux and selective molecular separation membrane. <i>Journal of Membrane Science</i> , 2020, 601, 117864.	8.2	46
20	Enhancement of proton/methanol selectivity via the in-situ cross-linking of sulfonated poly (p-phenylene-co-aryl ether ketone) and graphene oxide (GO) nanosheets. <i>Journal of Membrane Science</i> , 2020, 605, 118102.	8.2	19
21	High-performance functionalized polymer of intrinsic microporosity (PIM) composite membranes with thin and stable interconnected layer for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2019, 591, 117347.	8.2	47
22	Synthesis and property of novel anion exchange membrane based on poly(aryl ether sulfone)s bearing piperidinium moieties. <i>Journal of Membrane Science</i> , 2019, 591, 117334.	8.2	33
23	Highly stable polysulfone anion exchange membranes incorporated with bulky alkyl substituted guanidinium cations. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 1039-1047.	3.4	21
24	Renewable antibacterial and antifouling polysulfone membranes incorporating a PEO-grafted amphiphilic polymer and N-chloramine functional groups. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 658-667.	9.4	17
25	Rational design of hydrocarbon-based sulfonated copolymers for proton exchange membranes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11847-11857.	10.3	17
26	A Simple Self-Cross-Linking Strategy for Double-Layered Proton Exchange Membranes with Improved Methanol Resistance and Good Electrochemical Properties for Passive Direct Methanol Fuel Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 941-947.	5.1	16
27	Preparation and characterization of an antibacterial ultrafiltration membrane with N-chloramine functional groups. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 391-400.	9.4	22
28	Correlation of the polymer hydrophilicity and membrane fabrication process on the properties of asymmetric membranes in a vapor-induced phase-inversion process. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	5
29	Synthesis of novel guanidinium-based anion-exchange membranes with controlled microblock structures. <i>Journal of Membrane Science</i> , 2017, 537, 151-159.	8.2	80
30	Pyrrolidinium-functionalized poly(arylene ether sulfone)s for anion exchange membranes: Using densely concentrated ionic groups and block design to improve membrane performance. <i>Journal of Membrane Science</i> , 2017, 535, 301-311.	8.2	71
31	Integrated antimicrobial and antifouling ultrafiltration membrane by surface grafting PEO and N-chloramine functional groups. <i>Journal of Colloid and Interface Science</i> , 2017, 500, 333-340.	9.4	38
32	Novel quaternary ammonium microblock poly (p-phenylene-co-aryl ether ketone)s as anion exchange membranes for alkaline fuel cells. <i>Journal of Power Sources</i> , 2017, 342, 605-615.	7.8	70
33	Self-assembly prepared anion exchange membranes with high alkaline stability and organic solvent resistance. <i>Journal of Membrane Science</i> , 2017, 522, 159-167.	8.2	41
34	High performance tetra-sulfonated poly(p-phenylene-co-aryl ether ketone) membranes with microblock moieties for passive direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2016, 517, 47-56.	8.2	31
35	Novel hydrophilic-hydrophobic block copolymer based on cardo poly(arylene ether sulfone)s with bis-quaternary ammonium moieties for anion exchange membranes. <i>Journal of Membrane Science</i> , 2016, 518, 31-39.	8.2	62
36	Antifouling ultrafiltration membrane fabricated from poly (arylene ether ketone) bearing hydrophilic hydroxyl groups. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	11

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37	Enhanced proton conductivity of sulfonated poly(p-phenylene-co-aryl ether ketone) proton exchange membranes with controlled microblock structure. Journal of Power Sources, 2015, 278, 590-598.	7.8	33
38	Nafion-microporous organic polymer networks composite membranes. Journal of Membrane Science, 2015, 476, 571-579.	8.2	46
39	Preparation and characterization of high performance sulfonated poly(p-phenylene-co-aryl ether) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	7.8	29
40	Nanofiber mats electrospun from composite proton exchange membranes prepared from poly(aryl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.6	13
41	A stable anion exchange membrane based on imidazolium salt for alkaline fuel cell. Journal of Membrane Science, 2014, 467, 48-55.	8.2	92
42	Synthesis and characterization of a novel poly(arylene ether sulfone) containing pendent imidazole groups for high temperature proton exchange membranes. Journal of Materials Chemistry, 2012, 22, 22706.	6.7	36