# Jifu Zheng

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3086086/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 42 papers | 1,464 citations | 257450 24 h-index | 315739 38 g-index |
| 42 all docs | 42 docs citations | 42 times ranked | 1265 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A stable anion exchange membrane based on imidazolium salt for alkaline fuel cell. Journal of Membrane Science, 2014, 467, 48-55. | 8.2 | 92 |
| 2 | High-Î² 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 |
| 3 | 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 |
| 4 | Synthesis of novel guanidinium-based anion-exchange membranes with controlled microblock structures. Journal of Membrane Science, 2017, 537, 151-159. | 8.2 | 80 |
| 5 | Pyrrolidinium-functionalized poly(arylene ether sulfone)s for anion exchange membranes: Using densely concentrated ionic groups and block design to improve membrane performance. Journal of Membrane Science, 2017, 535, 301-311. | 8.2 | 71 |
| 6 | Novel quaternary ammonium microblock poly (p-phenylene-co-aryl ether ketone)s as anion exchange membranes for alkaline fuel cells. Journal of Power Sources, 2017, 342, 605-615. | 7.8 | 70 |
| 7 | Novel hydrophilic-hydrophobic block copolymer based on cardo poly(arylene ether sulfone)s with bis-quaternary ammonium moieties for anion exchange membranes. Journal of Membrane Science, 2016, 518, 31-39. | 8.2 | 62 |
| 8 | Bi-guanidinium-based crosslinked anion exchange membranes: Synthesis, characterization, and properties. Journal of Membrane Science, 2020, 601, 117923. | 8.2 | 50 |
| 9 | 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 |
| 10 | High-performance functionalized polymer of intrinsic microporosity (PIM) composite membranes with thin and stable interconnected layer for organic solvent nanofiltration. Journal of Membrane Science, 2019, 591, 117347. | 8.2 | 47 |
| 11 | Nafion-microporous organic polymer networks composite membranes. Journal of Membrane Science, 2015, 476, 571-579. | 8.2 | 46 |
| 12 | Azobenzene-assisted exfoliation of 2D covalent organic frameworks into large-area, few-layer nanosheets for high flux and selective molecular separation membrane. Journal of Membrane Science, 2020, 601, 117864. | 8.2 | 46 |
| 13 | A Microporous Polymer with Suspended Cations for Anion Exchange Membrane Fuel Cells. Macromolecules, 2020, 53, 10998-11008. | 4.8 | 43 |
| 14 | Self-assembly prepared anion exchange membranes with high alkaline stability and organic solvent resistance. Journal of Membrane Science, 2017, 522, 159-167. | 8.2 | 41 |
| 15 | Integrated antimicrobial and antifouling ultrafiltration membrane by surface grafting PEO and N-chloramine functional groups. Journal of Colloid and Interface Science, 2017, 500, 333-340. | 9.4 | 38 |
| 16 | Facile Preparation of Highly Alkaline Stable Poly(aryleneâ€“imidazolium) Anion Exchange Membranes through an Ionized Monomer Strategy. Macromolecules, 2021, 54, 2202-2212. | 4.8 | 38 |
| 17 | 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 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Synthesis and property of novel anion exchange membrane based on poly(aryl ether sulfone)s bearing piperidinium moieties. Journal of Membrane Science, 2019, 591, 117334. | 8.2 | 33 |
| 20 | 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 |
| 21 | 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 |
| 22 | High performance tetra-sulfonated poly(p-phenylene-co-aryl ether ketone) membranes with microblock moieties for passive direct methanol fuel cells. Journal of Membrane Science, 2016, 517, 47-56. | 8.2 | 31 |
| 23 | Preparation and characterization of high performance sulfonated poly(p-phenylene-co-aryl ether) Tj ETQq1 1 0.784314 rgBT /Overlock 1 | 7.8 | 29 |
| 24 | Preparation and characterization of side-chain poly(aryl ether ketone) anion exchange membranes by superacid-catalyzed reaction. Polymer, 2021, 222, 123639. | 3.8 | 26 |
| 25 | Novel proton exchange membranes based on sulfonated-phosphonated poly (p-phenylene-co-aryl ether) Tj ETQq1 1 0.784314 rgBT /Ove<br>Membrane Science, 2020, 594, 117466. | 8.2 | 23 |
| 26 | Preparation and characterization of an antibacterial ultrafiltration membrane with N-chloramine functional groups. Journal of Colloid and Interface Science, 2017, 496, 391-400. | 9.4 | 22 |
| 27 | Highly stable polysulfone anion exchange membranes incorporated with bulky alkyl substituted guanidinium cations. Molecular Systems Design and Engineering, 2019, 4, 1039-1047. | 3.4 | 21 |
| 28 | 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 |
| 29 | 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. Journal of Membrane Science, 2020, 605, 118102. | 8.2 | 19 |
| 30 | Controlled Superacid-Catalyzed Self-Cross-Linked Polymer of Intrinsic Microporosity for High-Performance CO<sub>2</sub> Separation. Macromolecules, 2020, 53, 7988-7996. | 4.8 | 18 |
| 31 | 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 |
| 32 | Renewable antibacterial and antifouling polysulfone membranes incorporating a PEO-grafted amphiphilic polymer and N-chloramine functional groups. Journal of Colloid and Interface Science, 2019, 554, 658-667. | 9.4 | 17 |
| 33 | Rational design of hydrocarbon-based sulfonated copolymers for proton exchange membranes. Journal of Materials Chemistry A, 2019, 7, 11847-11857. | 10.3 | 17 |
| 34 | 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. ACS Applied Energy Materials, 2018, 1, 941-947. | 5.1 | 16 |
| 35 | 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 |
| 36 | Exploration of the Polarization Curve for Proton-Exchange Membrane Fuel Cells. ACS Applied Materials & Interfaces, 2021, 13, 58838-58847. | 8.0 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Nanofiber mats electrospun from composite proton exchange membranes prepared from poly(aryl) Tj ETQq1 1 0.784314 rgBT /Overlock | 3.6 | 13 |
| 38 | Antifouling ultrafiltration membrane fabricated from poly (arylene ether ketone) bearing hydrophilic hydroxyl groups. Journal of Applied Polymer Science, 2016, 133, . | 2.6 | 11 |
| 39 | Synthesis of Fluorinated Poly(phenyl-alkane)s of Intrinsic Microporosity by Regioselective Aldehyde (A<sub>2</sub>) + Aromatics (B<sub>2</sub>) Friedelâ€“Crafts Polycondensation. Macromolecules, 2021, 54, 6543-6551. | 4.8 | 11 |
| 40 | 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 |
| 41 | Correlation of the polymer hydrophilicity and membrane fabrication process on the properties of asymmetric membranes in a vaporâ€induced phaseâ€inversion process. Journal of Applied Polymer Science, 2017, 134, . | 2.6 | 5 |
| 42 | 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 |