Zhe Sun

List of Publications by Year
in descending order

24 papers	1,405 citations	361296 20 h-index	610775 24 g-index
24 all docs	24 docs citations	24 times ranked	1338 citing authors

#	Article	IF	Citations
1	Ionic liquidâ€“based click-ionogels. Science Advances, 2019, 5, eaax0648.	4.7	230
2	Anionâ€Exchange Membranes for Alkaline Fuelâ€Cell Applications: The Effects of Cations. ChemSusChem, 2018, 11, 58-70.	3.6	194
3	Base Stable Pyrrolidinium Cations for Alkaline Anion Exchange Membrane Applications. Macromolecules, 2014, 47, 6740-6747.	2.2	125
4	Moistureâ€Wicking, Breathable, and Intrinsically Antibacterial Electronic Skin Based on Dualâ€Gradient Poly(ionic liquid) Nanofiber Membranes. Advanced Materials, 2022, 34, e2106570.	11.1	110
5	The Alkaline Stability of Anion Exchange Membrane for Fuel Cell Applications: The Effects of Alkaline Media. Advanced Science, 2018, 5, 1800065.	5.6	107
6	Recyclable, Healable, and Tough Ionogels Insensitive to Crack Propagation. Advanced Materials, 2022, 34, e2203049.	11.1	82
7	Alkaline stable imidazolium-based ionomers containing poly(arylene ether sulfone) side chains for alkaline anion exchange membranes. Journal of Materials Chemistry A, 2014, 2, 4413.	5.2	73
8	Integrated Endotoxin Adsorption and Antibacterial Properties of Cationic Polyurethane Foams for Wound Healing. ACS Applied Materials & Interfaces, 2019, 11, 2860-2869.	4.0	67
9	Imidazolium-based ionic polyurethanes with high toughness, tunable healing efficiency and antibacterial activities. Polymer Chemistry, 2020, 11, 867-875.	1.9	45
10	Spirocyclic quaternary ammonium cations for alkaline anion exchange membrane applications: an experimental and theoretical study. RSC Advances, 2016, 6, 94387-94398.	1.7	43
11	Interaction Regulation Between Ionomer Binder and Catalyst: Active Tripleâ€Phase Boundary and High Performance Catalyst Layer for Anion Exchange Membrane Fuel Cells. Advanced Science, 2021, 8, e2101744.	5.6	34
12	Synthesis and characterization of main-chain type polyimidazolium-based alkaline anion exchange membranes. Journal of Membrane Science, 2020, 610, 118283.	4.1	33
13	Robust and High-Temperature-Resistant Nanofiber Membrane Separators for Liâ€“Metal, Liâ€“Sulfur, and Aqueous Li-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 16289-16299.	4.0	30
14	Machine learning analysis and prediction models of alkaline anion exchange membranes for fuel cells. Energy and Environmental Science, 2021, 14, 3965-3975.	15.6	29
15	High-density sulfonic acid-grafted covalent organic frameworks with efficient anhydrous proton conduction. Journal of Materials Chemistry A, 2022, 10, 6499-6507.	5.2	27
16	Antibacterial Amino Acid-Based Poly(ionic liquid) Membranes: Effects of Chirality, Chemical Bonding Type, and Application for MRSA Skin Infections. ACS Applied Bio Materials, 2019, 2, 4418-4426.	2.3	26
17	Flexible cationic side chains for enhancing the hydroxide ion conductivity of olefinic-type copolymer-based anion exchange membranes: An experimental and theoretical study. Journal of Membrane Science, 2021, 620, 118794.	4.1	26
18	Poly(ionic liquid)-Based Conductive Interlayer as an Efficient Polysulfide Adsorbent for a Highly Stable Lithiumâ€“Sulfur Battery. ACS Sustainable Chemistry and Engineering, 2020, 8, 11396-11403.	3.2	25

#	Article	IF	Citations
19	Highly Conductive and Dimensionally Stable Anion Exchange Membranes Based on Poly(dimethoxybenzene-co-methyl 4-formylbenzoate) Ionomers. Macromolecules, 2021, 54, 5557-5566.	2.2	24
20	Antimicrobial polyurethane foams having cationic ammonium groups. Journal of Applied Polymer Science, 2017, 134, 45473.	1.3	23
21	Alkaline stable pyrrolidinium-type main-chain polymer: The synergetic effect between adjacent cations. Journal of Membrane Science, 2021, 618, 118689.	4.1	20
22	Poly(ionic liquid)â€Based Energy and Electronic Devices. Chinese Journal of Chemistry, 2022, 40, 1099-1108.	2.6	15
23	UV-crosslinkable anthracene-based ionomer derived gas â€œExpresswayâ€• for anion exchange membrane fuel cells. Journal of Materials Chemistry A, 2022, 10, 13355-13367.	5.2	15
24	Recyclable and Intrinsically Antiâ€cyanobacterial Polyanionic Membranes. Chemistry - an Asian Journal, 2017, 12, 2950-2955.	1.7	2