Fengxiang Zhang

List of Publications by Year
in descending order

55 papers	2,363 citations	201674 27 h-index	214800 47 g-index
55 all docs	55 docs citations	55 times ranked	2200 citing authors

#	Article	IF	Citations
1	Complementary side chain promotes microphase separation in the membranes for alkali fuel cells. Polymer, 2022, 238, 124403.	3.8	5
2	Stable alkoxy chain enhanced anion exchange membrane and its fuel cell. Journal of Membrane Science, 2022, 644, 120179.	8.2	13
3	Etch-evaporation enabled defect engineering to prepare high-loading Mn single atom catalyst for Li-S battery applications. Chemical Engineering Journal, 2022, 442, 136258.	12.7	30
4	Oxygen vacancy enabled fabrication of dual-atom Mn/Co catalysts for high-performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2022, 10, 11702-11711.	10.3	24
5	Hydrophilicâ€“Hydrophobic Bulky Units Modified Anion Exchange Membranes for Fuel Cell Application. ACS Sustainable Chemistry and Engineering, 2022, 10, 5748-5757.	6.7	19
6	Metalâ€“Organic Framework-Derived NiSe₂ Nanoparticles on Graphene for Polysulfide Conversion in Lithiumâ€“Sulfur Batteries. ACS Applied Nano Materials, 2022, 5, 7402-7409.	5.0	13
7	Competing reduction induced homogeneous oxygen doping to unlock MoS2 basal planes for faster polysulfides conversion. Journal of Energy Chemistry, 2022, 73, 26-34.	12.9	15
8	Block copolymer anion exchange membrane containing polymer of intrinsic microporosity for fuel cell application. International Journal of Hydrogen Energy, 2021, 46, 2269-2281.	7.1	28
9	Sulfonated covalent organic framework modified separators suppress the shuttle effect in lithium-sulfur batteries. Nanotechnology, 2021, 32, 275708.	2.6	15
10	Side-chain manipulation of poly (phenylene oxide) based anion exchange membrane: Alkoxyl extender integrated with flexible spacer. Journal of Membrane Science, 2021, 624, 119088.	8.2	47
11	Branched, Side-Chain Grafted Polyarylpiperidine Anion Exchange Membranes for Fuel Cell Application. ACS Applied Energy Materials, 2021, 4, 6957-6967.	5.1	50
12	Dual-Side-Chain-Grafted Poly(phenylene oxide) Anion Exchange Membranes for Fuel-Cell and Electrodialysis Applications. ACS Sustainable Chemistry and Engineering, 2021, 9, 8611-8622.	6.7	23
13	Octopus-like side chain grafted poly(arylene piperidinium) membranes for fuel cell application. Journal of Membrane Science, 2021, 636, 119529.	8.2	34
14	Facile Synthesis of Heterostructured MoS₂â€“MoO₃ Nanosheets with Active Electrocatalytic Sites for High-Performance Lithiumâ€“Sulfur Batteries. ACS Nano, 2021, 15, 20478-20488.	14.6	115
15	Blend anion exchange membranes containing polymer of intrinsic microporosity for fuel cell application. Journal of Membrane Science, 2020, 595, 117541.	8.2	32
16	Quaternized polymer binder for lithiumâ€“sulfur batteries: The effect of cation structure on battery performance. Journal of Energy Chemistry, 2020, 43, 165-172.	12.9	22
17	Hydrophilic Flexible Ether Containing, Cross-Linked Anion-Exchange Membrane Quaternized with DABCO. ACS Applied Materials & Interfaces, 2020, 12, 3510-3521.	8.0	53
18	Allyl group-enabled side chain grafting for anion exchange membrane fabrication. Ionics, 2020, 26, 1939-1950.	2.4	4

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19	A heterostuctured Co3S4/MnS nanotube array as a catalytic sulfur host for lithiumâ€“sulfur batteries. Electrochimica Acta, 2020, 330, 135311.	5.2	47
20	Partially fluorinated, multication cross-linked poly(arylene piperidinium) membranes with improved conductivity and reduced swelling for fuel cell application. Ionics, 2020, 26, 5617-5627.	2.4	15
21	â€œRoom-likeâ€•TiO₂ Array as a Sulfur Host for Lithium-Sulfur Batteries: Combining Advantages of Array and Closed Structures. ACS Sustainable Chemistry and Engineering, 2020, 8, 7609-7616.	6.7	24
22	Cyclodextrin modified, multication cross-linked high performance anion exchange membranes for fuel cell application. Journal of Membrane Science, 2020, 607, 118190.	8.2	38
23	Hierarchical, nitrogenous hollow carbon spheres filled with porous carbon nanosheets for use as efficient sulfur hosts for lithium-sulfur batteries. Journal of Alloys and Compounds, 2020, 836, 155295.	5.5	14
24	Nitrogen-Doped Porous Carbon Networks with Active Feâ€“N_x Sites to Enhance Catalytic Conversion of Polysulfides in Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 31860-31868.	8.0	39
25	Li4Ti5O12 nanowire array as a sulfur host for high performance lithium sulfur battery. Journal of Alloys and Compounds, 2019, 805, 873-879.	5.5	18
26	Electron regulation enabled selective lithium deposition for stable anodes of lithium-metal batteries. Journal of Materials Chemistry A, 2019, 7, 2184-2191.	10.3	30
27	Cyclodextrin templated nanoporous anion exchange membrane for vanadium flow battery application. Journal of Membrane Science, 2019, 586, 98-105.	8.2	21
28	Anion exchange membrane with a novel quaternized ammonium containing long ether substituent. Journal of Membrane Science, 2019, 581, 293-302.	8.2	45
29	Graphene Oxide Induced Growth of Nitrogenâ€Doped Carbon Nanotubes as a 1D/2D Composite for Highâ€Performance Lithiumâ€Sulfur Batteries. ChemElectroChem, 2019, 6, 1115-1121.	3.4	13
30	Novel Synergistic Strategy for Developing High-Performance Lithium Sulfur Batteries of Large Areal Sulfur Loading by SEI Modified Separator. ACS Applied Energy Materials, 2018, 1, 932-940.	5.1	15
31	Facile and green fabrication of polybenzoxazine-based composite anion-exchange membranes with a self-cross-linked structure. Ionics, 2018, 24, 3053-3063.	2.4	16
32	Bent-twisted block copolymer anion exchange membrane with improved conductivity. Journal of Membrane Science, 2018, 550, 59-71.	8.2	64
33	Highly branched side chain grafting for enhanced conductivity and robustness of anion exchange membranes. Ionics, 2018, 24, 189-199.	2.4	12
34	Facile fabrication of amphoteric semi-interpenetrating network membranes for vanadium flow battery applications. Journal of Energy Chemistry, 2018, 27, 1189-1197.	12.9	36
35	Side chain hydrolysis method to prepare nanoporous membranes for vanadium flow battery application. Journal of Membrane Science, 2018, 560, 67-76.	8.2	20
36	A N,S-codoped hierarchical carbon Foam@Porous carbon composite as freestanding cathode for high-performance lithium-sulfur batteries. Journal of Alloys and Compounds, 2018, 768, 495-502.	5.5	23

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37	A Mn₃O₄ nano-wall array based binder-free cathode for high performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 6447-6454.	10.3	55
38	Facile Formation of a Solid Electrolyte Interface as a Smart Blocking Layer for Highâ€Stability Sulfur Cathode. Advanced Materials, 2017, 29, 1700273.	21.0	83
39	Hybrid anion exchange membrane of hydroxyl-modified polysulfone incorporating guanidinium-functionalized graphene oxide. Ionics, 2017, 23, 3085-3096.	2.4	22
40	Hierarchical sulfur confinement by graphene oxide wrapped, walnut-like carbon spheres for cathode of Li-S battery. Journal of Alloys and Compounds, 2017, 714, 311-317.	5.5	32
41	Synthesis of novel pyridinium <scp>N</scp>â€chloramine precursors and its antimicrobial application on cotton fabrics. Journal of Applied Polymer Science, 2017, 134, 45323.	2.6	17
42	Synthesis of quaternary phosphonium N-chloramine biocides for antimicrobial applications. RSC Advances, 2017, 7, 13244-13249.	3.6	25
43	Nitrogen-doped hollow porous carbon nanospheres coated with MnO₂ nanosheets as excellent sulfur hosts for Liâ€“S batteries. Nanotechnology, 2017, 28, 475401.	2.6	13
44	Coreâ€“Shell Structured o-LiMnO₂@Li₂CO₃ Nanosheet Array Cathode for High-Performance, Wide-Temperature-Tolerance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 16116-16124.	8.0	31
45	Guanidimidazole-quanternized and cross-linked alkaline polymer electrolyte membrane for fuel cell application. Journal of Membrane Science, 2016, 501, 100-108.	8.2	56
46	Imidazolium functionalized polysulfone electrolyte membranes with varied chain structures: a comparative study. RSC Advances, 2016, 6, 31336-31346.	3.6	20
47	A mini-review on anion exchange membranes forÂfuel cell applications: Stability issue and addressing strategies. International Journal of Hydrogen Energy, 2015, 40, 7348-7360.	7.1	260
48	An integrally thin skinned asymmetric architecture design for advanced anion exchange membranes for vanadium flow batteries. Journal of Materials Chemistry A, 2015, 3, 16948-16952.	10.3	59
49	Advanced charged membranes with highly symmetric spongy structures for vanadium flow battery application. Energy and Environmental Science, 2013, 6, 776.	30.8	123
50	A modified hierarchical porous carbon for lithium/sulfur batteries with improved capacity and cycling stability. Journal of Solid State Electrochemistry, 2013, 17, 2243-2250.	2.5	25
51	A Dication Crossâ€Linked Composite Anionâ€Exchange Membrane for Allâ€Vanadium Flow Battery Applications. ChemSusChem, 2013, 6, 2290-2298.	6.8	44
52	Influence of Solvent on Polymer Prequaternization toward Anion-Conductive Membrane Fabrication for All-Vanadium Flow Battery. Journal of Physical Chemistry B, 2012, 116, 9016-9022.	2.6	41
53	A high-performance anion exchange membrane based on bi-guanidinium bridged polysilsesquioxane for alkaline fuel cell application. Journal of Materials Chemistry, 2012, 22, 8203.	6.7	91
54	Imidazolium functionalized polysulfone anion exchange membrane for fuel cell application. Journal of Materials Chemistry, 2011, 21, 12744.	6.7	281

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55	PTFE based composite anion exchange membranes: thermally induced in situ polymerization and direct hydrazine hydrate fuel cell application. Journal of Materials Chemistry, 2010, 20, 8139.	6.7	53