Yaping Zhang

List of Publications by Year
in descending order

54 papers	2,704 citations	201575 27 h-index	182361 51 g-index
54 all docs	54 docs citations	54 times ranked	3104 citing authors

#	Article	IF	Citations
1	Application of electrodialysis to the production of organic acids: State-of-the-art and recent developments. Journal of Membrane Science, 2007, 288, 1-12.	4.1	408
2	Exploring competitive features of stationary sodium ion batteries for electrochemical energy storage. Energy and Environmental Science, 2019, 12, 1512-1533.	15.6	402
3	Silicon Anode with High Initial Coulombic Efficiency by Modulated Trifunctional Binder for Highâ€Arealâ€Capacity Lithiumâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 1903110.	10.2	221
4	Sulfonated polyimide/s-MoS2 composite membrane with high proton selectivity and good stability for vanadium redox flow battery. Journal of Membrane Science, 2015, 490, 179-189.	4.1	121
5	Biological evaluation of human hair keratin scaffolds for skin wound repair and regeneration. Materials Science and Engineering C, 2013, 33, 648-655.	3.8	113
6	Sustainability-inspired cell design for a fully recyclable sodium ion battery. Nature Communications, 2019, 10, 1965.	5.8	77
7	Preparation and characterization of sulfonated polyimide/TiO2 composite membrane for vanadium redox flow battery. Journal of Solid State Electrochemistry, 2014, 18, 729-737.	1.2	71
8	Overwhelming the Performance of Single Atoms with Atomic Clusters for Platinum-Catalyzed Hydrogen Evolution. ACS Catalysis, 2019, 9, 8213-8223.	5.5	68
9	Sulfonated polyimide membranes with different non-sulfonated diamines for vanadium redox battery applications. Electrochimica Acta, 2014, 150, 114-122.	2.6	62
10	Alkali and alkaline earth metallic (AAEM) species leaching and Cu(II) sorption by biochar. Chemosphere, 2015, 119, 778-785.	4.2	53
11	Branched sulfonated polyimide membrane with ionic cross-linking for vanadium redox flow battery application. Journal of Power Sources, 2019, 438, 226993.	4.0	53
12	Alginate-Intervened Hydrothermal Synthesis of Hydroxyapatite Nanocrystals with Nanopores. Crystal Growth and Design, 2015, 15, 1949-1956.	1.4	52
13	Synthesis and properties of branched sulfonated polyimides for membranes in vanadium redox flow battery application. Electrochimica Acta, 2016, 210, 308-320.	2.6	51
14	Measurement-Based Transmission Line Parameter Estimation With Adaptive Data Selection Scheme. IEEE Transactions on Smart Grid, 2018, 9, 5764-5773.	6.2	49
15	In-situ and ex-situ degradation of sulfonated polyimide membrane for vanadium redox flow battery application. Journal of Membrane Science, 2017, 526, 281-292.	4.1	47
16	Novel branched sulfonated polyimide/molybdenum disulfide nanosheets composite membrane for vanadium redox flow battery application. Applied Surface Science, 2018, 448, 186-202.	3.1	43
17	Novel sulfonated polyimide/ZrO₂composite membrane as a separator of vanadium redox flow battery. Polymers for Advanced Technologies, 2014, 25, 1610-1615.	1.6	42
18	Branched sulfonated polyimide/functionalized silicon carbide composite membranes with improved chemical stabilities and proton selectivities for vanadium redox flow battery application. Journal of Materials Science, 2018, 53, 14506-14524.	1.7	41

#	ARTICLE	IF	CITATIONS
19	Materials Engineering in Perovskite for Optimized Oxygen Evolution Electrocatalysis in Alkaline Condition. Small, 2021, 17, e2006638.	5.2	41
20	A novel double branched sulfonated polyimide membrane with ultra-high proton selectivity for vanadium redox flow battery. Journal of Membrane Science, 2021, 628, 119259.	4.1	41
21	Sulfonated polyimide/AlOOH composite membranes with decreased vanadium permeability and increased stability for vanadium redox flow battery. Journal of Solid State Electrochemistry, 2014, 18, 3479-3490.	1.2	39
22	Effect of non-sulfonated diamine monomer on branched sulfonated polyimide membrane for vanadium redox flow battery application. Electrochimica Acta, 2017, 241, 50-62.	2.6	37
23	Sulfonated polyimide/chitosan composite membrane for vanadium redox flow battery: Influence of the infiltration time with chitosan solution. Solid State Ionics, 2012, 217, 6-12.	1.3	36
24	Sulfonated polyimide/chitosan composite membrane for vanadium redox flow battery: Membrane preparation, characterization, and single cell performance. Journal of Applied Polymer Science, 2013, 127, 4150-4159.	1.3	35
25	A novel porous polyimide membrane with ultrahigh chemical stability for application in vanadium redox flow battery. Chemical Engineering Journal, 2022, 428, 131203.	6.6	35
26	Variable effects on electrodeionization for removal of Cs+ ions from simulated wastewater. Desalination, 2014, 344, 212-218.	4.0	31
27	Novel highly efficient branched polyfluoro sulfonated polyimide membranes for application in vanadium redox flow battery. Journal of Power Sources, 2021, 485, 229354.	4.0	30
28	Branched Sulfonated Polyimide/Sulfonated Methylcellulose Composite Membranes with Remarkable Proton Conductivity and Selectivity for Vanadium Redox Flow Batteries. ChemElectroChem, 2020, 7, 937-945.	1.7	28
29	Recovery of L-lysine from L-lysine monohydrochloride by ion substitution using ion-exchange membrane. Desalination, 2011, 271, 163-168.	4.0	26
30	Fabricating nano-IrO₂@amorphous Ir-MOF composites for efficient overall water splitting: a one-pot solvothermal approach. Journal of Materials Chemistry A, 2020, 8, 25687-25695.	5.2	26
31	Nickel-substituted Ba_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{3âˆ'Î´}: a highly active perovskite oxygen electrode for reduced-temperature solid oxide fuel cells. Journal of Materials Chemistry A, 2019, 7, 12343-12349.	5.2	24
32	Removal of uranium(VI) from simulated wastewater by a novel porous membrane based on crosslinked chitosan, UiO-66-NH2 and polyvinyl alcohol. Journal of Radioanalytical and Nuclear Chemistry, 2021, 328, 397-410.	0.7	24
33	Highly ion-selective sulfonated polyimide membranes with covalent self-crosslinking and branching structures for vanadium redox flow battery. Chemical Engineering Journal, 2022, 437, 135414.	6.6	23
34	Fluorineâ€Containing Branched Sulfonated Polyimide Membrane for Vanadium Redox Flow Battery Applications. ChemElectroChem, 2018, 5, 3695-3707.	1.7	21
35	Sulfonated poly(imide-siloxane) membrane as a low vanadium ion permeable separator for a vanadium redox flow battery. Polymer Journal, 2015, 47, 701-708.	1.3	20
36	Sulfonated polyimide/chitosan composite membranes for a vanadium redox flow battery: influence of the sulfonation degree of the sulfonated polyimide. Polymer Journal, 2016, 48, 905-918.	1.3	19

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37	Konjac glucomannan/polyvinyl alcohol nanofibers with enhanced skin healing properties by improving fibrinogen adsorption. Materials Science and Engineering C, 2020, 110, 110718.	3.8	18
38	Branched sulfonated polyimide/s-MWCNTs composite membranes for vanadium redox flow battery application. International Journal of Hydrogen Energy, 2021, 46, 34767-34776.	3.8	17
39	Novel branched sulfonated polyimide membrane with remarkable vanadium permeability resistance and proton selectivity for vanadium redox flow battery application. International Journal of Hydrogen Energy, 2022, 47, 8883-8891.	3.8	17
40	Facile carboxylation of natural eggshell membrane for highly selective uranium (VI) adsorption from radioactive wastewater. Environmental Science and Pollution Research, 2021, 28, 45134-45143.	2.7	16
41	Genome hunting of carbonyl reductases from Candida glabrata for efficient preparation of chiral secondary alcohols. Bioresource Technology, 2018, 247, 553-560.	4.8	16
42	Stable covalent cross-linked polyfluoro sulfonated polyimide membranes with high proton conductance and vanadium resistance for application in vanadium redox flow batteries. Journal of Materials Chemistry A, 2021, 9, 24704-24711.	5.2	14
43	Highâ€Temperature Nitridation Induced Carbon Nanotubes@NiFeâ€Layeredâ€Doubleâ€Hydroxide Nanosheets Taking as an Oxygen Evolution Reaction Electrocatalyst for CO₂ Electroreduction. Advanced Materials Interfaces, 2021, 8, 2101165.	1.9	13
44	Hollow-sphere iron oxides exhibiting enhanced cycling performance as lithium-ion battery anodes. Chemical Communications, 2019, 55, 11638-11641.	2.2	12
45	Elemental Doping Induced Sulfur Vacancies Enable Efficient Electrochemical Reduction of CO₂ over CdS Nanorods. Journal of Physical Chemistry C, 2022, 126, 102-109.	1.5	12
46	Removal of Sr²⁺ions from simulated wastewater by electrodeionization. Desalination and Water Treatment, 2015, 53, 2125-2133.	1.0	11
47	A review of size engineering-enabled electrocatalysts for Liâ€“S chemistry. Nanoscale Advances, 2021, 3, 5777-5784.	2.2	10
48	CO₂ reduction to CH₄ on Cu-doped phosphorene: a first-principles study. Nanoscale, 2021, 13, 20541-20549.	2.8	9
49	A Sulfonated Polyimide/Nafion Blend Membrane with High Proton Selectivity and Remarkable Stability for Vanadium Redox Flow Battery. Membranes, 2021, 11, 946.	1.4	8
50	Electrochemical degradation of spent tributyl phosphate extractant by a boron-doped diamond anode. Journal of Radioanalytical and Nuclear Chemistry, 2018, 315, 29-37.	0.7	6
51	The electrocatalytic performance of Niâ€“AlO(OH)₃@RGO for the reduction of CO₂ to CO. New Journal of Chemistry, 2022, 46, 12023-12033.	1.4	6
52	Atomistic understanding of interfacial interactions between bone morphogenetic protein-7 and graphene with different oxidation degrees. Materials Chemistry Frontiers, 2019, 3, 1900-1908.	3.2	4
53	Production ofl-lysine froml-lysine monohydrochloride by bipolar membrane electrodialysis. Desalination and Water Treatment, 2012, 41, 105-113.	1.0	3
54	Production of L-lysine from L-lysine monohydrochloride by electrodialysis. Desalination and Water Treatment, 2011, 25, 291-296.	1.0	2