List of Publications by Year
in descending order

55 papers	1,845 citations	370663 20 h-index	291473 40 g-index
55 all docs	55 docs citations	55 times ranked	1675 citing authors

#	Article	IF	Citations
1	High-performance zinc-ion batteries enabled by taurine-modulated inner Helmholtz plane. Materials Today Energy, 2025, 48, 101791.	5.3	5
2	Synergistic Solvation and Nucleation Regulation for Enhanced Stability and Longevity in Aqueous Zinc-Ion Batteries with <scp>d</scp>-Pantothenic Acid Additive. ACS Sustainable Chemistry and Engineering, 2025, 13, 834-845.	7.0	6
3	Advancing aqueous zinc-ion battery performance with pullulan through preferential adsorption on zinc anode surfaces and enhanced zinc ion desolvation. Materials Today Energy, 2025, 48, 101790.	5.3	4
4	Study on the performance of electric double-layer capacitors based on lignocellulose gel polymer electrolytes with different pH values for Zn2+-lignocellulose coordination mechanism. Chemical Engineering Journal, 2025, 507, 160418.	11.9	0
5	Multi-functional additive to enhance cycling performance of Zn anode in aqueous battery. Journal of Power Sources, 2024, 595, 234075.	8.1	6
6	Modulation of water reactivity by ethyl acetate/water co-solvent for zinc-metal batteries. Chemical Engineering Journal, 2024, 487, 150588.	11.9	22
7	Enhancing Kinetics in Sodium Super Ion Conductor Na₃MnTi(PO₄)₃ through Microbe-Assisted and Structural Optimization. ACS Applied Materials & Interfaces, 2024, 16, 22035-22047.	8.1	14
8	Regulating chiral nematic liquid crystal of hydroxypropyl methylcellulose coating on separator for High-Safety Lithium-Ion batteries. Chemical Engineering Journal, 2024, 502, 158155.	11.9	10
9	Cotton Fiber/PVA-Based Neutral Hydrogel with Al³⁺ as an Electrolyte Additive for High-Performance Supercapacitors. ACS Applied Energy Materials, 2023, 6, 644-656.	5.4	21
10	Hydroxypropylmethylcellulose: Functional material carrier for in-situ solid electrolyte engineering of advanced lithium metal batteries. Energy Storage Materials, 2023, 59, 102777.	18.1	7
11	Accelerated ion transport and charging dynamics in more ionophobic sub-nanometer channels. Energy Storage Materials, 2023, 59, 102797.	18.1	13
12	Multi-protection of zinc anode via employing a natural additive in aqueous zinc ion batteries. Chemical Engineering Journal, 2023, 468, 143834.	11.9	118
13	Evolution effect of -CF2- group amount in hydrofluoroether on the solvation structure and high voltage cycle performance of Ether-based localized High-concentration electrolytes. Chemical Engineering Journal, 2023, 469, 144012.	11.9	15
14	Organic active materials in rechargeable batteries: Recent advances and prospects. Energy Storage Materials, 2023, 63, 103046.	18.1	11
15	Hydroxypropyl methyl cellulose-based gel polymer electrolyte provides a fast migration channel for sodium-ion batteries. Journal of Materials Science, 2022, 57, 4311-4322.	3.5	13
16	Economical preparation of porous polyacrylonitrile-derived carbon/molybdenum disulfide composite anode for high-performance lithium-ion battery. Journal of Materials Science, 2022, 57, 1246-1260.	3.5	7
17	New nonflammable tributyl phosphate based localized high concentration electrolytes for lithium metal batteries. Sustainable Energy and Fuels, 2022, 6, 2198-2206.	4.0	12
18	Gel polymer electrolytes with high performance based on a polyvinylidene fluoride composite with eco-friendly lignocellulose for lithium-ion batteries. New Journal of Chemistry, 2022, 46, 8010-8021.	2.5	6

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19	Mn²⁺ Ions Capture and Uniform Composite Electrodes with PEI Aqueous Binder for Advanced LiMn₂O₄-Based Battery. ACS Applied Materials & Interfaces, 2022, 14, 14226-14234.	8.1	18
20	Gel polymer electrolyte combined lignocellulose with sodium alginate in lithium-ion battery. Functional Materials Letters, 2022, 15, .	1.2	10
21	Novel Sulfur-Containing Polymeric Cathode Material Prepared via an Inverse Vulcanization Method for Advanced Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2022, 5, 7617-7626.	5.4	18
22	Novel organic anode based on o-benzene active material for high-performance lithium ion batteries. Journal of Power Sources, 2022, 546, 231992.	8.1	16
23	Eco-Friendly Lignocellulosic Gel Polymer Electrolyte for Aqueous Zinc Energy Storage Devices. ACS Sustainable Chemistry and Engineering, 2022, 10, 12751-12762.	7.0	53
24	Advanced gel polymer electrolytes for safe and durable lithium metal batteries: Challenges, strategies, and perspectives. Energy Storage Materials, 2021, 34, 515-535.	18.1	329
25	A new environmentally friendly gel polymer electrolyte based on cotton-PVA composited membrane for alkaline supercapacitors with increased operating voltage. Journal of Materials Science, 2021, 56, 11027-11043.	3.5	21
26	Gel polymer electrolyte with high performances based on poly(methyl methacrylate) composited with hydroxypropyl methyl cellulose by phase inversion method for lithium-ion batteries. Functional Materials Letters, 2021, 14, 2151017.	1.2	4
27	3-Thiopheneboronic acid: an effective additive for regulation on electrode/electrolyte interphase of lithium metal battery with high-loading cathode. Electrochimica Acta, 2021, 386, 138485.	5.4	22
28	Natural Biomass Hydrogel Based on Cotton Fibers/PVA for Acid Supercapacitors. ACS Applied Energy Materials, 2021, 4, 9144-9153.	5.4	28
29	Building more secure LMBs with gel polymer electrolytes based on dual matrices of PAN and HPMC by improving compatibility with anode and tuning lithium ion transference. Electrochimica Acta, 2021, 391, 138950.	5.4	13
30	An optimized 3D polymer alloy interface for durability and safety for Li metal batteries. Chemical Engineering Journal, 2021, 420, 130002.	11.9	23
31	Insight into the microscopic morphology and electrochemical performance correlation mechanism upon calcination at different temperatures of a novel spherical cobalt-free 0.6Li₂MnO₃Â·0.4Li[Fe_{1/3}Ni_{1/3}Mn_{1/3}]O₂ cathode. Sustainable Energy and Fuels, 2021, 5, 2934-2942.	4.0	7
32	Enhanced electrochemical performance of Si/C electrode through surface modification using SrF2 particle. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 1621-1628.	7.1	9
33	Newly comprehensive understanding of Li₂S₈ as additive in liquid electrolyte for lithium-sulfur battery through reconstructing the cathode and SEI. Functional Materials Letters, 2021, 14, 2151001.	1.2	2
34	Yeast Template-Derived Multielectron Reaction NASICON Structure Na₃MnTi(PO₄)₃ for High-Performance Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 58585-58595.	8.1	53
35	A lignocellulose-based neutral hydrogel electrolyte for high-voltage supercapacitors with overlong cyclic stability. Electrochimica Acta, 2020, 363, 137241.	5.4	32
36	Stable Lithium Sulfur Battery Based on In Situ Electrocatalytically Formed Li₂S on Metallic MoS₂â€“Carbon Cloth Support. Small Methods, 2020, 4, .	9.0	61

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37	Graphene-like Vanadium Oxygen Hydrate (VOH) Nanosheets Intercalated and Exfoliated by Polyaniline (PANI) for Aqueous Zinc-Ion Batteries (ZIBs). ACS Applied Materials & Interfaces, 2020, 12, 31564-31574.	8.1	185
38	Gel polymer electrolyte with high performances based on polyacrylonitrile composite natural polymer of lignocellulose in lithium ion battery. Journal of Materials Science, 2020, 55, 12249-12263.	3.5	30
39	Performance enhanced high-nickel lithium metal batteries through stable cathode and anode electrolyte interfaces. Sustainable Energy and Fuels, 2020, 4, 2875-2883.	4.0	6
40	Atomic scale insight into the fundamental mechanism of Mn doped LiFePO₄. Sustainable Energy and Fuels, 2020, 4, 2741-2751.	4.0	46
41	An Acidâ€Resistant Gel Polymer Electrolyte Based on Lignocellulose of Natural Biomass for Supercapacitors. Energy Technology, 2020, 8, .	3.4	17
42	Highâ€Performance Gel Polymer Electrolyte Based on Chitosanâ€"Lignocellulose for Lithiumâ€Ion Batteries. ChemElectroChem, 2020, 7, 1213-1224.	3.0	45
43	A Composited Interlayer with Dualâ€Effect Trap and Repulsion for Inhibition of Polysulfides in Lithiumâ€Sulfur Batteries. ChemElectroChem, 2020, 7, 2190-2198.	3.0	4
44	An Ecofriendly Gel Polymer Electrolyte Based on Natural Lignocellulose with Ultrahigh Electrolyte Uptake and Excellent Ionic Conductivity for Alkaline Supercapacitors. ACS Applied Energy Materials, 2019, 2, 6031-6042.	5.4	39
45	Upgrading comprehensive performances of gel polymer electrolyte based on polyacrylonitrile via copolymerizing acrylonitrile with N-vinylpryrrolidone. Electrochimica Acta, 2019, 320, 134572.	5.4	14
46	A novel porous gel polymer electrolyte based on poly(acrylonitrileâ€"maleic anhydride) composite by polyhedral oligomeric silsesquioxane for lithium-ion batteries. Journal of Applied Electrochemistry, 2019, 49, 1167-1179.	2.5	13
47	Gel polymer electrolyte with high performances based on biodegradable polymer polyvinyl alcohol composite lignocellulose. Materials Chemistry and Physics, 2019, 229, 232-241.	4.5	42
48	Novel lignocellulose based gel polymer electrolyte with higher comprehensive performances for rechargeable lithiumâ€"sulfur battery. Journal of Membrane Science, 2018, 556, 203-213.	8.3	101
49	A novel polyacrylonitrile-based porous structure gel polymer electrolyte composited by incorporating polyhedral oligomeric silsesquioxane by phase inversion method. Journal of Solid State Electrochemistry, 2018, 22, 1771-1783.	2.3	18
50	Liâ€Rich Li[Li_{1/6}Fe_{1/6}Ni_{1/6}Mn_{1/2}]O₂ (LFNMO) Cathodes: Atomic Scale Insight on the Mechanisms of Cycling Decay and of the Improvement due to Cobalt Phosphate Surface Modification. Small, 2018, 14, .	11.5	47
51	Optimal synthetic conditions for a novel and high performance Ni-rich cathode material of LiNi_{0.68}Co_{0.10}Mn_{0.22}O₂. Sustainable Energy and Fuels, 2018, 2, 1772-1780.	4.0	29
52	Gel polymer electrolyte with high performances based on pure natural polymer matrix of potato starch composite lignocellulose. Electrochimica Acta, 2017, 245, 981-992.	5.4	73
53	Gel polymer electrolyte based on polyethylene glycol composite lignocellulose matrix with higher comprehensive performances. Electrochimica Acta, 2017, 247, 505-515.	5.4	52
54	A high-performance and environment-friendly gel polymer electrolyte for lithium ion battery based on composited lignin membrane. Journal of Solid State Electrochemistry, 2017, 22, 807-816.	2.3	74

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55	Cation/Anion Doping Strategy for Na₄MnV(PO₄)₃ with High Energy Density and Long Cycling Life through Construction by <i>Aspergillus niger</i>. ACS Applied Materials & Interfaces, 0, , .	8.1	1