

Qing Ai

List of Publications by Year in descending order

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29
papers

2,071
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304743

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3106
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile Fabrication of Nitrogen-Doped Porous Carbon as Superior Anode Material for Potassium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1802386.	19.5	393
2	Defect-Engineering-Enabled High-Efficiency All-Inorganic Perovskite Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1903448.	21.0	143
3	A large-area free-standing graphene oxide multilayer membrane with high stability for nanofiltration applications. <i>Chemical Engineering Journal</i> , 2018, 345, 536-544.	12.7	136
4	Lithium Dendrite Suppression and Enhanced Interfacial Compatibility Enabled by an Ex Situ SEI on Li Anode for LAGP-Based All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18610-18618.	8.0	123
5	Flexible all-solid-state supercapacitors based on freestanding, binder-free carbon nanofibers@polypyrrole@graphene film. <i>Chemical Engineering Journal</i> , 2018, 334, 184-190.	12.7	113
6	Chemical dealloying synthesis of porous silicon anchored by in situ generated graphene sheets as anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 287, 177-183.	7.8	102
7	Lithium-conducting covalent-organic-frameworks as artificial solid-electrolyte-interphase on silicon anode for high performance lithium ion batteries. <i>Nano Energy</i> , 2020, 72, 104657.	16.0	93
8	Li7P3S11/poly(ethylene oxide) hybrid solid electrolytes with excellent interfacial compatibility for all-solid-state batteries. <i>Journal of Power Sources</i> , 2018, 400, 212-217.	7.8	88
9	Walnut-inspired micro-sized porous silicon/graphene core-shell composites for high-performance lithium-ion battery anodes. <i>Nano Research</i> , 2017, 10, 4274-4283.	10.4	72
10	Nitrogen and sulfur co-doped porous carbon fibers film for flexible symmetric all-solid-state supercapacitors. <i>Carbon</i> , 2020, 158, 456-464.	10.3	72
11	Dendrite-free Li metal anode enabled by a 3D free-standing lithiophilic nitrogen-enriched carbon sponge. <i>Journal of Power Sources</i> , 2018, 386, 77-84.	7.8	65
12	High-performance red phosphorus/carbon nanofibers/graphene free-standing paper anode for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1574-1581.	10.3	65
13	In Situ Synthesis of Lead-Free Halide Perovskite-COF Nanocomposites as Photocatalysts for Photoinduced Polymerization in Both Organic and Aqueous Phases. , 2022, 4, 464-471.		63
14	An electrochemically stable homogeneous glassy electrolyte formed at room temperature for all-solid-state sodium batteries. <i>Nature Communications</i> , 2022, 13, .	12.8	62
15	Artificial Solid Electrolyte Interphase Coating to Reduce Lithium Trapping in Silicon Anode for High Performance Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901187.	3.7	54
16	Sandwich-Like FeCl ₃ @C as High-Performance Anode Materials for Potassium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800606.	3.7	53
17	Composite solid electrolyte of Na ₃ PS ₄ -PEO for all-solid-state SnS ₂ /Na batteries with excellent interfacial compatibility between electrolyte and Na metal. <i>Journal of Energy Chemistry</i> , 2020, 41, 73-78.	12.9	48
18	Nanostructured LiMn ₂ O ₄ composite as high-rate cathode for high performance aqueous Li-ion hybrid supercapacitors. <i>Journal of Power Sources</i> , 2018, 392, 116-122.	7.8	46

#	ARTICLE	IF	CITATIONS
19	Microstructure engineering of solid-state composite cathode via solvent-assisted processing. <i>Joule</i> , 2021, 5, 1845-1859.	24.0	42
20	High-Energy All-Solid-State Organic ⁺ Lithium Batteries Based on Ceramic Electrolytes. <i>ACS Energy Letters</i> , 2021, 6, 201-207.	17.4	37
21	Growth direction control of lithium dendrites in a heterogeneous lithiophilic host for ultra-safe lithium metal batteries. <i>Journal of Power Sources</i> , 2019, 416, 141-147.	7.8	31
22	A heart-coronary arteries structure of carbon nanofibers/graphene/silicon composite anode for high performance lithium ion batteries. <i>Scientific Reports</i> , 2017, 7, 9642.	3.3	28
23	Sb ₂ S ₃ @PPy Coaxial Nanorods: A Versatile and Robust Host Material for Reversible Storage of Alkali Metal Ions. <i>Nanomaterials</i> , 2019, 9, 560.	4.1	25
24	Facile construction of a hybrid artificial protective layer for stable lithium metal anode. <i>Chemical Engineering Journal</i> , 2020, 391, 123542.	12.7	25
25	High performance hierarchically nanostructured graphene oxide/covalent organic framework hybrid membranes for stable organic solvent nanofiltration. <i>Applied Materials Today</i> , 2020, 20, 100791.	4.3	23
26	High Current Enabled Stable Lithium Anode for Ultralong Cycling Life of Lithium ⁺ Oxygen Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30793-30800.	8.0	21
27	Perovskite ⁺ Derivative Valleytronics. <i>Advanced Materials</i> , 2020, 32, e2004111.	21.0	19
28	Li ₇ P ₃ S ₁₁ solid electrolyte coating silicon for high-performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2018, 276, 325-332.	5.2	18
29	Synergistic double-shell coating of graphene and Li ₄ SiO ₄ on silicon for high performance lithium-ion battery application. <i>Diamond and Related Materials</i> , 2018, 88, 60-66.	3.9	11