

Qizhang Yan

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,433
citations

516710

16
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610901

24
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all docs

30
docs citations

30
times ranked

1818
citing authors

#	ARTICLE	IF	CITATIONS
1	A disordered rock salt anode for fast-charging lithium-ion batteries. <i>Nature</i> , 2020, 585, 63-67.	27.8	326
2	A fabrication process for flexible single-crystal perovskite devices. <i>Nature</i> , 2020, 583, 790-795.	27.8	278
3	Boosting lithium storage performance of Si nanoparticles via thin carbon and nitrogen/phosphorus co-doped two-dimensional carbon sheet dual encapsulation. <i>Rare Metals</i> , 2021, 40, 1347-1356.	7.1	115
4	A scalable 3D lithium metal anode. <i>Energy Storage Materials</i> , 2019, 16, 505-511.	18.0	95
5	Efficient Direct Recycling of Degraded LiMn_2O_4 Cathodes by One-Step Hydrothermal Relithiation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51546-51554.	8.0	88
6	Draining Over Blocking: Nano-Composite Janus Separators for Mitigating Internal Shorting of Lithium Batteries. <i>Advanced Materials</i> , 2020, 32, e1906836.	21.0	62
7	High-entropy monoborides: Towards superhard materials. <i>Scripta Materialia</i> , 2020, 189, 101-105.	5.2	57
8	Ultrahigh coulombic efficiency electrolyte enables Li SPAN batteries with superior cycling performance. <i>Materials Today</i> , 2021, 42, 17-28.	14.2	50
9	LiPO_2F_2 electrolyte additive for high-performance Li-rich cathode material. <i>Journal of Energy Chemistry</i> , 2021, 60, 564-571.	12.9	49
10	Elucidating the Limit of Li Insertion into the Spinel $\text{Li}_4\text{Ti}_5\text{O}_{12}$. , 2019, 1, 96-102.		45
11	Structure and Solution Dynamics of Lithium Methyl Carbonate as a Protective Layer For Lithium Metal. <i>ACS Applied Energy Materials</i> , 2018, 1, 1864-1869.	5.1	41
12	A new class of high-entropy M_3B_4 borides. <i>Journal of Advanced Ceramics</i> , 2021, 10, 166-172.	17.4	39
13	Sequence-Defined Peptoids with -OH and -COOH Groups As Binders to Reduce Cracks of Si Nanoparticles of Lithium-Ion Batteries. <i>Advanced Science</i> , 2020, 7, 2000749.	11.2	38
14	High-entropy rare earth tetraborides. <i>Journal of the European Ceramic Society</i> , 2021, 41, 2968-2973.	5.7	28
15	Bulk high-entropy hexaborides. <i>Journal of the European Ceramic Society</i> , 2021, 41, 5775-5781.	5.7	22
16	A facile synthesis of non-aqueous LiPO_2F_2 solution as the electrolyte additive for high performance lithium ion batteries. <i>Chinese Chemical Letters</i> , 2020, 31, 3209-3212.	9.0	19
17	A Perspective on interfacial engineering of lithium metal anodes and beyond. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	18
18	Oxidative Stabilization of Dilute Ether Electrolytes via Anion Modification. <i>ACS Energy Letters</i> , 2022, 7, 675-682.	17.4	15

#	ARTICLE	IF	CITATIONS
19	High-Rate Lithium Cycling and Structure Evolution in Mo_4O_{11} . Chemistry of Materials, 2022, 34, 4122-4133.	6.7	13
20	Synthesis and electrochemical performance of defected nano-micro structure sodium/lithium titanate composites materials for lithium-ion batteries. Vacuum, 2020, 177, 109402.	3.5	12
21	A new type of compositionally complex M_5Si_3 silicides: Cation ordering and unexpected phase stability. Scripta Materialia, 2022, 212, 114557.	5.2	11
22	Avoiding dendrite formation by confining lithium deposition underneath Li-Sn coatings. Journal of Materials Research, 2021, 36, 797-811.	2.6	4
23	Thermodynamics-driven interfacial engineering of alloy-type anode materials. Cell Reports Physical Science, 2022, 3, 100694.	5.6	4
24	Low-Cost Li SPAN Batteries Enabled by Sustained Additive Release. ACS Applied Energy Materials, 2021, 4, 6422-6429.	5.1	2
25	Cryogenic Milling Method to Fabricate Nanostructured Anodes. ACS Applied Energy Materials, 2020, 3, 11285-11292.	5.1	2