

Li-Min Zhu

List of Publications by Year in descending order

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45
papers

1,688
citations

279798

23
h-index

289244

40
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45
all docs

45
docs citations

45
times ranked

1547
citing authors

#	ARTICLE	IF	CITATIONS
1	ZIF-67-Derived N-Doped Co/C Nanocubes as High-Performance Anode Materials for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 16619-16628.	8.0	191
2	Conjugated Carbonyl Compounds as High-Performance Cathode Materials for Rechargeable Batteries. Chemistry of Materials, 2019, 31, 8582-8612.	6.7	163
3	Liquid Alloy Interlayer for Aqueous Zinc-Ion Battery. ACS Energy Letters, 2021, 6, 675-683.	17.4	135
4	A multifunctional self-healing G-PyB/KCl hydrogel: smart conductive, rapid room-temperature phase-selective gelation, and ultrasensitive detection of alpha-fetoprotein. Chemical Communications, 2019, 55, 7922-7925.	4.1	94
5	Cathode materials for aqueous zinc-ion batteries: A mini review. Journal of Colloid and Interface Science, 2022, 605, 828-850.	9.4	92
6	Self-doped polypyrrole with ionizable sodium sulfonate as a renewable cathode material for sodium ion batteries. Chemical Communications, 2013, 49, 11370.	4.1	89
7	Fe(CN) ₆ ⁴⁻ -doped polypyrrole: a high-capacity and high-rate cathode material for sodium-ion batteries. RSC Advances, 2012, 2, 5495.	3.6	64
8	The bond evolution mechanism of covalent sulfurized carbon during electrochemical sodium storage process. Science China Materials, 2019, 62, 1127-1138.	6.3	58
9	New Insight on K ₂ Zn ₂ V ₁₀ O ₂₈ as an Advanced Cathode for Rechargeable Aqueous Zinc-Ion Batteries. Small, 2022, 18, e2107102.	10.0	57
10	Rod-like NaV ₃ O ₈ as cathode materials with high capacity and stability for sodium storage. Chemical Engineering Journal, 2019, 372, 1056-1065.	12.7	56
11	LiV ₃ O ₈ /Polydiphenylamine Composites with Significantly Improved Electrochemical Behavior as Cathode Materials for Rechargeable Lithium Batteries. ACS Applied Materials & Interfaces, 2018, 10, 10909-10917.	8.0	43
12	Hollow-sphere ZnSe wrapped around carbon particles as a cycle-stable and high-rate anode material for reversible Li-ion batteries. New Journal of Chemistry, 2017, 41, 6693-6699.	2.8	40
13	Na ₃ V ₂ (PO ₄) ₃ @NC composite derived from polyaniline as cathode material for high-rate and ultralong-life sodium-ion batteries. International Journal of Energy Research, 2020, 44, 4586-4594.	4.5	39
14	Polymer Electrode Materials for High-Performance Lithium/Sodium-Ion Batteries: A Review. Energy Technology, 2019, 7, 1800759.	3.8	35
15	A positive-temperature-coefficient electrode with thermal protection mechanism for rechargeable lithium batteries. Science Bulletin, 2012, 57, 4205-4209.	1.7	31
16	Na ₃ V ₂ (PO ₄) ₃ nanoparticles confined in functional carbon framework towards high-rate and ultralong-life sodium storage. Journal of Alloys and Compounds, 2019, 791, 296-306.	5.5	30
17	NaV ₃ O ₈ /poly(3,4-ethylenedioxythiophene) composites as high-rate and long-lifespan cathode materials for reversible sodium storage. Rare Metals, 2020, 39, 865-873.	7.1	30
18	LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ /polypyrrole composites as cathode materials for high-performance lithium-ion batteries. International Journal of Energy Research, 2020, 44, 298-308.	4.5	29

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19	Catalyst and additive-free oxidative dual C-H sulfenylation of imidazoheterocycles with elemental sulfur using DMSO as a solvent and an oxidant. <i>Chemical Communications</i> , 2020, 56, 5751-5754.	4.1	29
20	Enhancing electrochemical performances of small quinone toward lithium and sodium energy storage. <i>Rare Metals</i> , 2022, 41, 425-437.	7.1	28
21	Wet-chemistry synthesis of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ as anode materials rendering high-rate Li-ion storage. <i>International Journal of Energy Research</i> , 2020, 44, 4211-4223.	4.5	27
22	Enhancing Lithium Storage Performances of the $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Anode by Introducing the CuV_2O_6 Phase. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39170-39180.	8.0	27
23	Rare earth metal La-doped induced electrochemical evolution of LiV_3O_8 with an oxygen vacancy toward a high energy-storage capacity. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1845-1858.	10.3	27
24	Revealing the unique process of alloying reaction in Ni-Co-Sb/C nanosphere anode for high-performance lithium storage. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 730-740.	9.4	24
25	Anthraquinones with Ionizable Sodium Sulfonate Groups as Renewable Cathode Materials for Sodium-ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 787-792.	3.4	23
26	Graphene-wrapped poly(2,5-dihydroxy-1,4-benzoquinone-3,6-methylene) nanoflowers as low-cost and high-performance cathode materials for sodium-ion batteries. <i>International Journal of Energy Research</i> , 2019, 43, 7635.	4.5	20
27	Recent Developments and Challenges of Vanadium Oxides (V_xO_y) Cathodes for Aqueous Zinc-ion Batteries. <i>Chemical Record</i> , 2022, 22, e202100275.	5.8	20
28	Synthesis and electrochemical performances of LiV_3O_8 /poly(3,4-ethylenedioxythiophene) composites as cathode materials for rechargeable lithium batteries. <i>Solid State Ionics</i> , 2017, 310, 30-37.	2.7	19
29	LiV_3O_8 /Polytriphenylamine Composites with Enhanced Electrochemical Performances as Cathode Materials for Rechargeable Lithium Batteries. <i>Materials</i> , 2017, 10, 344.	2.9	16
30	Ethylene Glycol-Assisted Sol-Gel Method for Preparing $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ as Cathode Material for Lithium-ion Batteries with Excellent Electrochemical Performance. <i>ChemistrySelect</i> , 2019, 4, 11475-11482.	1.5	15
31	Facile preparation of NaV_3O_8 /polytriphenylamine composites as cathode materials towards high-performance sodium storage. <i>International Journal of Energy Research</i> , 2020, 44, 3215-3223.	4.5	15
32	Preparation and Electrochemical Properties of $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ /Carbon Composites as Cathode Materials for Lithium-Ion Batteries. <i>Nanomaterials</i> , 2017, 7, 52.	4.1	14
33	NaV_3O_8 with superior rate capability and cycle stability as cathode materials for sodium-ion batteries. <i>Ionics</i> , 2018, 24, 943-949.	2.4	14
34	Stabilization of LiV_3O_8 Rod-like Structure by Protective $\text{Mg}_3(\text{PO}_4)_2$ Layer for Advanced Lithium Storage Cathodes. <i>Energy Technology</i> , 2018, 6, 2479-2487.	3.8	13
35	$\text{Na}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ composites as low-cost and high-performance cathode materials for sodium-ion batteries. <i>International Journal of Energy Research</i> , 2021, 45, 4534-4542.	4.5	12
36	Nitrogen-doped carbon-coated $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ as cathode materials for high-performance lithium storage. <i>Ionics</i> , 2021, 27, 507-515.	2.4	11

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37	The improved cycling stability and rate capability of Nb-doped NaV ₃ O ₈ cathode for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 890, 161885.	5.5	11
38	Research on the electrochemical performance of polyoxovanadate material K ₄ Na ₂ V ₁₀ O ₂₈ as a novel aqueous zinc-ion batteries cathode. <i>Electrochimica Acta</i> , 2022, 424, 140621.	5.2	11
39	LiV ₃ O ₈ /poly(1,5-diaminoanthraquinone) composite as a high performance cathode material for rechargeable lithium batteries. <i>Materials Letters</i> , 2017, 206, 225-228.	2.6	10
40	Facile synthesis of nanorods Na ₂ Ti ₆ O ₁₃ as anode materials for high-performance sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 906, 164306.	5.5	8
41	Poly(1,5-anthraquinonyl sulfide)/reduced graphene oxide composites towards high Li and Na storage both in half- and full-cells. <i>Electrochimica Acta</i> , 2021, 394, 139116.	5.2	6
42	Preparation and electrochemical performances of rod-like LiV ₃ O ₈ /carbon composites using polyaniline as carbon source. <i>Electronic Materials Letters</i> , 2015, 11, 650-657.	2.2	5
43	Tailoring Oxygen Site Defects of Vanadium-Based Materials through Bromine Anion Doping for Advanced Energy Storage. <i>ACS Applied Energy Materials</i> , 2021, 4, 10783-10798.	5.1	4
44	Electrochemically inert aluminum cations coordinated with tetrahydroxybenzoquinone toward high-energy storage. <i>ACS Applied Energy Materials</i> , 2021, 4, 8538-8549.	5.1	2
45	A Novel Strategy toward High-Performance Lithium Storage of Li ₄ Ti ₅ O ₁₂ Using Cu ₂ V ₂ O ₇ as Additive. <i>Energy Technology</i> , 0, , 2100834.	3.8	1