

Bin Huang

List of Publications by Year in descending order

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28
papers

1,933
citations

394421

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501196

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docs citations

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times ranked

2595
citing authors

#	ARTICLE	IF	CITATIONS
1	Recycling of lithium-ion batteries: Recent advances and perspectives. <i>Journal of Power Sources</i> , 2018, 399, 274-286.	7.8	587
2	Novel Carbon-Encapsulated Porous SnO ₂ Anode for Lithium-Ion Batteries with Much Improved Cyclic Stability. <i>Small</i> , 2016, 12, 1945-1955.	10.0	247
3	Synthesis of Mg-doped LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ oxide and its electrochemical behavior in high-voltage lithium-ion batteries. <i>Ceramics International</i> , 2014, 40, 13223-13230.	4.8	126
4	A comprehensive study on electrochemical performance of Mn-surface-modified LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ synthesized by an in situ oxidizing-coating method. <i>Journal of Power Sources</i> , 2014, 252, 200-207.	7.8	125
5	Tin-based materials as versatile anodes for alkali (earth)-ion batteries. <i>Journal of Power Sources</i> , 2018, 395, 41-59.	7.8	98
6	A facile process for coating amorphous FePO ₄ onto LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ and the effects on its electrochemical properties. <i>Materials Letters</i> , 2014, 131, 210-213.	2.6	86
7	Phase Transition Induced Synthesis of Layered/Spinel Heterostructure with Enhanced Electrochemical Properties. <i>Advanced Functional Materials</i> , 2017, 27, 1604349.	14.9	80
8	High-Rate LiTi ₂ (PO ₄) ₃ @N-C Composite via Bi-nitrogen Sources Doping. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28337-28345.	8.0	77
9	A novel carbamide-assistant hydrothermal process for coating Al ₂ O ₃ onto LiMn _{1.5} Ni _{0.5} O ₄ particles used for cathode material of lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2014, 583, 313-319.	5.5	61
10	Fabrication of 2D NiO Porous Nanosheets with Superior Lithium Storage Performance via a Facile Thermal-Decomposition Method. <i>ACS Applied Energy Materials</i> , 2019, 2, 8262-8273.	5.1	59
11	Enhancing sodium-ion storage performance of MoO ₂ /N-doped carbon through interfacial Mo-N-C bond. <i>Science China Materials</i> , 2021, 64, 85-95.	6.3	48
12	A graphite functional layer covering the surface of LiMn ₂ O ₄ electrode to improve its electrochemical performance. <i>Electrochemistry Communications</i> , 2013, 36, 6-9.	4.7	40
13	Sodium ion storage performance and mechanism in orthorhombic V ₂ O ₅ single-crystalline nanowires. <i>Science China Materials</i> , 2021, 64, 557-570.	6.3	36
14	Carbon encapsulated Sn-Co alloy: A stabilized tin-based material for sodium storage. <i>Materials Letters</i> , 2018, 210, 321-324.	2.6	34
15	Mesoporous Tungsten Trioxide Polyaniline Nanocomposite as an Anode Material for High-Performance Lithium-Ion Batteries. <i>ChemNanoMat</i> , 2016, 2, 281-289.	2.8	32
16	Enhancing high-voltage performance of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathode material via surface modification with lithium-conductive Li ₃ Fe ₂ (PO ₄) ₃ . <i>Journal of Alloys and Compounds</i> , 2019, 773, 519-526.	5.5	32
17	Layered Cathode Materials: Precursors, Synthesis, Microstructure, Electrochemical Properties, and Battery Performance. <i>Small</i> , 2022, 18, e2107697.	10.0	28
18	Enhanced electrochemical performance in LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ cathode material: Resulting from Mn-surface-modification using a facile oxidizing-coating method. <i>Materials Letters</i> , 2014, 115, 49-52.	2.6	26

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19	NiS ₂ wrapped into graphene with strong Ni-O interaction for advanced sodium and potassium ion batteries. <i>Electrochimica Acta</i> , 2021, 369, 137704.	5.2	21
20	Controllable construction of yolk-shell Sn@Co@void@C and its advantages in Na-ion storage. <i>Rare Metals</i> , 2021, 40, 2392-2401.	7.1	21
21	Dually Decorated Na ₃ V ₂ (PO ₄) ₂ F ₃ by Carbon and 3D Graphene as Cathode Material for Sodium-Ion Batteries with High Energy and Power Densities. <i>ChemElectroChem</i> , 2020, 7, 3975-3983.	3.4	17
22	Microspherical LiFePO _{3.98} F _{0.02} /3DG/C as an advanced cathode material for high-energy lithium-ion battery with a superior rate capability and long-term cyclability. <i>Ionics</i> , 2021, 27, 1-11.	2.4	12
23	LiMn ₂ O ₄ Cathode Materials with Excellent Performances by Synergistic Enhancement of Double-Cation (Na ⁺ , Mg ²⁺) Doping and 3DG Coating for Power Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26106-26116.	3.1	11
24	Comparative Study and Electrochemical Properties of LiFePO ₄ F Synthesized by Different Routes. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 2315-2319.	1.9	11
25	Electrochemical Performance and Behavior Mechanism for Zn/LiFePO ₄ Battery in a Slightly Acidic Aqueous Electrolyte. <i>ChemSusChem</i> , 2022, 15, .	6.8	5
26	Decarbonylative/decarboxylative [4 + 2] annulation of phthalic anhydrides and cyclic iodoniums towards triphenylenes. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 3913-3916.	2.8	5
27	Monodisperse SnO ₂ /Co ₃ O ₄ nanocubes synthesized via phase separation and their advantages in electrochemical Li-ion storage. <i>Ionics</i> , 2020, 26, 6125-6132.	2.4	4
28	Porous MoS ₂ nanosheets for the fast decomposition of energetic compounds. <i>Dalton Transactions</i> , 2022, 51, 5278-5284.	3.3	4