Bin Huang

List of Publications by Year
in descending order

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28	1,933	394421 19	501196 28
papers	citations	h-index	g-index

28	28	28	2595
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Porous MoS₂ nanosheets for the fast decomposition of energetic compounds. Dalton Transactions, 2022, 51, 5278-5284.	3.3	4
2	Layered Cathode Materials: Precursors, Synthesis, Microstructure, Electrochemical Properties, and Battery Performance. Small, 2022, 18, e2107697.	10.0	28
3	Electrochemical Performance and Behavior Mechanism for Zn/LiFePO₄ Battery in a Slightly Acidic Aqueous Electrolyte. ChemSusChem, 2022, 15, .	6.8	5
4	Decarbonylative/decarboxylative [4 + 2] annulation of phthalic anhydrides and cyclic iodoniums towards triphenylenes. Organic and Biomolecular Chemistry, 2022, 20, 3913-3916.	2.8	5
5	Enhancing sodium-ion storage performance of MoO2/N-doped carbon through interfacial Mo-N-C bond. Science China Materials, 2021, 64, 85-95.	6.3	48
6	Microspherical LiFePO3.98F0.02/3DG/C as an advanced cathode material for high-energy lithium-ion battery with a superior rate capability and long-term cyclability. Ionics, 2021, 27, 1-11.	2.4	12
7	Sodium ion storage performance and mechanism in orthorhombic V2O5 single-crystalline nanowires. Science China Materials, 2021, 64, 557-570.	6.3	36
8	NiS2 wrapped into graphene with strong Ni-O interaction for advanced sodium and potassium ion batteries. Electrochimica Acta, 2021, 369, 137704.	5.2	21
9	Controllable construction of yolkâ€“shell Snâ€“Co@void@C and its advantages in Na-ion storage. Rare Metals, 2021, 40, 2392-2401.	7.1	21
10	LiMn₂O₄ Cathode Materials with Excellent Performances by Synergistic Enhancement of Double-Cation (Na⁺, Mg²⁺) Doping and 3DG Coating for Power Lithium-Ion Batteries. Journal of Physical Chemistry C, 2020, 124, 26106-26116.	3.1	11
11	Dually Decorated Na₃V₂(PO₄)₂F₃ by Carbon and 3D Graphene as Cathode Material for Sodiumâ€ion Batteries with High Energy and Power Densities. ChemElectroChem, 2020, 7, 3975-3983.	3.4	17
12	Monodisperse SnO2/Co3O4 nanocubes synthesized via phase separation and their advantages in electrochemical Li-ion storage. Ionics, 2020, 26, 6125-6132.	2.4	4
13	Fabrication of 2D NiO Porous Nanosheets with Superior Lithium Storage Performance via a Facile Thermal-Decomposition Method. ACS Applied Energy Materials, 2019, 2, 8262-8273.	5.1	59
14	Enhancing high-voltage performance of LiNi0.5Co0.2Mn0.3O2 cathode material via surface modification with lithium-conductive Li3Fe2(PO4)3. Journal of Alloys and Compounds, 2019, 773, 519-526.	5.5	32
15	Carbon encapsulated Sn-Co alloy: A stabilized tin-based material for sodium storage. Materials Letters, 2018, 210, 321-324.	2.6	34
16	Tin-based materials as versatile anodes for alkali (earth)-ion batteries. Journal of Power Sources, 2018, 395, 41-59.	7.8	98
17	Recycling of lithium-ion batteries: Recent advances and perspectives. Journal of Power Sources, 2018, 399, 274-286.	7.8	587
18	Phase Transition Induced Synthesis of Layered/Spinel Heterostructure with Enhanced Electrochemical Properties. Advanced Functional Materials, 2017, 27, 1604349.	14.9	80

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19	Mesoporous Tungsten Trioxide Polyaniline Nanocomposite as an Anode Material for Highâ€Performance Lithiumâ€Ion Batteries. ChemNanoMat, 2016, 2, 281-289.	2.8	32
20	Novel Carbonâ€Encapsulated Porous SnO₂ Anode for Lithiumâ€Ion Batteries with Much Improved Cyclic Stability. Small, 2016, 12, 1945-1955.	10.0	247
21	High-Rate LiTi₂(PO₄)₃@Nâ€“C Composite via Bi-nitrogen Sources Doping. ACS Applied Materials & Interfaces, 2015, 7, 28337-28345.	8.0	77
22	Enhanced electrochemical performance in LiNi0.8Co0.15Al0.05O2 cathode material: Resulting from Mn-surface-modification using a facile oxidizingâ€“coating method. Materials Letters, 2014, 115, 49-52.	2.6	26
23	A novel carbamide-assistant hydrothermal process for coating Al2O3 onto LiMn1.5Ni0.5O4 particles used for cathode material of lithium-ion batteries. Journal of Alloys and Compounds, 2014, 583, 313-319.	5.5	61
24	A comprehensive study on electrochemical performance of Mn-surface-modified LiNi0.8Co0.15Al0.05O2 synthesized by an in situ oxidizing-coating method. Journal of Power Sources, 2014, 252, 200-207.	7.8	125
25	A facile process for coating amorphous FePO4 onto LiNi0.8Co0.15Al0.05O2 and the effects on its electrochemical properties. Materials Letters, 2014, 131, 210-213.	2.6	86
26	Synthesis of Mg-doped LiNi0.8Co0.15Al0.05O2 oxide and its electrochemical behavior in high-voltage lithium-ion batteries. Ceramics International, 2014, 40, 13223-13230.	4.8	126
27	A graphite functional layer covering the surface of LiMn2O4 electrode to improve its electrochemical performance. Electrochemistry Communications, 2013, 36, 6-9.	4.7	40
28	Comparative Study and Electrochemical Properties of LiFePO₄F Synthesized by Different Routes. Bulletin of the Korean Chemical Society, 2012, 33, 2315-2319.	1.9	11