Xijun Xu

List of Publications by Year
in descending order

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69	3,937	117453	123241
papers	citations	34 h-index	61 g-index

70	70	70	3953
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A General Metalâ€Organic Framework (MOF)â€Derived Selenidation Strategy for In Situ Carbonâ€Encapsulated Metal Selenides as Highâ€Rate Anodes for Naâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1707573.	7.8	325
2	Robust Pitaya-Structured Pyrite as High Energy Density Cathode for High-Rate Lithium Batteries. ACS Nano, 2017, 11, 9033-9040.	7.3	247
3	Selfâ€Supported and Flexible Sulfur Cathode Enabled via Synergistic Confinement for Highâ€Energyâ€Density Lithiumâ€“Sulfur Batteries. Advanced Materials, 2019, 31, e1902228.	11.1	216
4	Mechanistic Understanding of Metal Phosphide Host for Sulfur Cathode in High-Energy-Density Lithiumâ€“Sulfur Batteries. ACS Nano, 2019, 13, 8986-8996.	7.3	215
5	In Situ Synthesis of MnS Hollow Microspheres on Reduced Graphene Oxide Sheets as High-Capacity and Long-Life Anodes for Li- and Na-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 20957-20964.	4.0	210
6	Advances in the Development of Singleâ€Atom Catalysts for Highâ€Energyâ€Density Lithiumâ€“Sulfur Batteries. Advanced Materials, 2022, 34, e2200102.	11.1	202
7	Uniform Hierarchical Fe₃O₄@Polypyrrole Nanocages for Superior Lithium Ion Battery Anodes. Advanced Energy Materials, 2016, 6, 1600256.	10.2	184
8	Metalâ€“Organic Framework-Derived NiSb Alloy Embedded in Carbon Hollow Spheres as Superior Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2017, 9, 2516-2525.	4.0	116
9	Ilmenite Nanotubes for High Stability and High Rate Sodium-Ion Battery Anodes. ACS Nano, 2017, 11, 5120-5129.	7.3	109
10	Recent Progress in Organicâ€“Inorganic Composite Solid Electrolytes for Allâ€Solidâ€State Lithium Batteries. Chemistry - A European Journal, 2020, 26, 1720-1736.	1.7	100
11	FeP@C Nanotube Arrays Grown on Carbon Fabric as a Low Potential and Freestanding Anode for Highâ€Performance Liâ€Ion Batteries. Small, 2018, 14, e1800793.	5.2	94
12	Unraveling the Catalytic Activity of Feâ€“Based Compounds toward Li₂S_x in Liâ€“S Chemical System from dâ€“p Bands. Advanced Energy Materials, 2021, 11, 2100673.	10.2	89
13	Cathodes for Aqueous Znâ€Ion Batteries: Materials, Mechanisms, and Kinetics. Chemistry - A European Journal, 2021, 27, 830-860.	1.7	84
14	A flexible composite solid electrolyte with a highly stable interphase for dendrite-free and durable all-solid-state lithium metal batteries. Journal of Materials Chemistry A, 2020, 8, 18043-18054.	5.2	77
15	Selfâ€Supported CoP Nanorod Arrays Grafted on Stainless Steel as an Advanced Integrated Anode for Stable and Longâ€Life Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2017, 23, 5198-5204.	1.7	75
16	Recent Progress of P2â€Type Layered Transitionâ€Metal Oxide Cathodes for Sodiumâ€Ion Batteries. Chemistry - A European Journal, 2020, 26, 7747-7766.	1.7	72
17	Rational synthesis of ternary FeS@TiO2@C nanotubes as anode for superior Na-ion batteries. Chemical Engineering Journal, 2019, 359, 765-774.	6.6	64
18	Interface engineering for composite cathodes in sulfide-based all-solid-state lithium batteries. Journal of Energy Chemistry, 2021, 60, 32-60.	7.1	64

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19	Robust spindle-structured FeP@C for high-performance alkali-ion batteries anode. Electrochimica Acta, 2019, 312, 224-233.	2.6	62
20	A nanorod-like Ni-rich layered cathode with enhanced Li⁺ diffusion pathways for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 2830-2839.	5.2	58
21	Self-sacrificial template-directed ZnSe@C as high performance anode for potassium-ion batteries. Chemical Engineering Journal, 2020, 387, 124061.	6.6	55
22	Recent progress of flexible sulfur cathode based on carbon host for lithium-sulfur batteries. Journal of Materials Science and Technology, 2020, 55, 56-72.	5.6	53
23	Compositionally tuned NixSn alloys as anode materials for lithium-ion and sodium-ion batteries with a high pseudocapacitive contribution. Electrochimica Acta, 2019, 304, 246-254.	2.6	51
24	Facile plasma treated Î²-MnO2@C hybrids for durable cycling cathodes in aqueous Zn-ion batteries. Journal of Alloys and Compounds, 2020, 827, 154273.	2.8	51
25	B,N Codoped Graphitic Nanotubes Loaded with Co Nanoparticles as Superior Sulfur Host for Advanced Liâ€“S Batteries. Small, 2020, 16, e1906634.	5.2	50
26	Challenges and strategies of zinc anode for aqueous zinc-ion batteries. Materials Chemistry Frontiers, 2021, 5, 2201-2217.	3.2	50
27	Facile synthesis of P2-type Na_{0.4}Mn_{0.54}Co_{0.46}O₂as a high capacity cathode material for sodium-ion batteries. RSC Advances, 2015, 5, 51454-51460.	1.7	49
28	Monodisperse CoSn and NiSn Nanoparticles Supported on Commercial Carbon as Anode for Lithium- and Potassium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 4414-4422.	4.0	46
29	Solvent-Free Method Prepared a Sandwich-like Nanofibrous Membrane-Reinforced Polymer Electrolyte for High-Performance All-Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2020, 12, 21586-21595.	4.0	46
30	Selfâ€Sacrifice Template Construction of Uniform Yolkâ€“Shell ZnS@C for Superior Alkaliâ€Ion Storage. Advanced Science, 2022, 9, e2200247.	5.6	46
31	Ultrafine ZnS Nanoparticles in the Nitrogen-Doped Carbon Matrix for Long-Life and High-Stable Potassium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 11007-11017.	4.0	44
32	Amorphous FeF₃/C nanocomposite cathode derived from metalâ€“organic frameworks for sodium ion batteries. RSC Advances, 2017, 7, 24004-24010.	1.7	43
33	Facile synthesis of three-dimensional porous interconnected carbon matrix embedded with Sb nanoparticles as superior anode for Na-ion batteries. Chemical Engineering Journal, 2019, 374, 502-510.	6.6	42
34	Coâ€“Sn Nanocrystalline Solid Solutions as Anode Materials in Lithiumâ€Ion Batteries with High Pseudocapacitive Contribution. ChemSusChem, 2019, 12, 1451-1458.	3.6	38
35	General construction of lithiophilic 3D skeleton for dendrite-free lithium metal anode via a versatile MOF-derived route. Science China Materials, 2022, 65, 337-348.	3.5	38
36	MnO Stabilized in Carbonâ€Veiled Multivariate Manganese Oxides as Highâ€Performance Cathode Material for Aqueous Znâ€Ion Batteries. Energy and Environmental Materials, 2021, 4, 603-610.	7.3	36

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37	Wheat straw carbon matrix wrapped sulfur composites as a superior cathode for Liâ€“S batteries. RSC Advances, 2015, 5, 100089-100096.	1.7	35
38	Hollow spheres of Mo2C@C as synergistically confining sulfur host for superior Liâ€“S battery cathode. Electrochimica Acta, 2020, 332, 135482.	2.6	33
39	Inâ€Situ Synthesis of Carbonâ€Encapsulated Atomic Cobalt as Highly Efficient Polysulfide Electrocatalysts for Highly Stable Lithiumâ€“Sulfur Batteries. Small, 2022, 18, e2106640.	5.2	33
40	Pomegranate-like structured Nb2O5/Carbon@N-doped carbon composites as ultrastable anode for advanced sodium/potassium-ion batteries. Journal of Colloid and Interface Science, 2022, 613, 84-93.	5.0	32
41	Scalable One-Pot Synthesis of Hierarchical Bi@C Bulk with Superior Lithium-Ion Storage Performances. ACS Applied Materials & Interfaces, 2020, 12, 51478-51487.	4.0	29
42	SnS2/g-C3N4/graphite nanocomposites as durable lithium-ion battery anode with high pseudocapacitance contribution. Electrochimica Acta, 2020, 349, 136369.	2.6	29
43	Surface/Interface Structure and Chemistry of Lithiumâ€“Sulfur Batteries: From Density Functional Theory Calculationsâ€™ Perspective. Advanced Energy and Sustainability Research, 2021, 2, 2100007.	2.8	27
44	Challenges and Development of Composite Solid Electrolytes for All-solid-state Lithium Batteries. Chemical Research in Chinese Universities, 2021, 37, 210-231.	1.3	26
45	In situ carbon-coating and Ostwald ripening-based route for hollow Ni₃S₄@C spheres with superior Li-ion storage performances. RSC Advances, 2016, 6, 101752-101759.	1.7	25
46	Freestanding Sodium Vanadate/Carbon Nanotube Composite Cathodes with Excellent Structural Stability and High Rate Capability for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 816-826.	4.0	25
47	Construction of Fe7Se8@Carbon nanotubes with enhanced sodium/potassium storage. Journal of Colloid and Interface Science, 2022, 626, 355-363.	5.0	24
48	A Scalable Approach to Na₂FeP₂O₇@Carbon/Expanded Graphite as a Lowâ€Cost and Highâ€Performance Cathode for Sodiumâ€Ion Batteries. ChemElectroChem, 2020, 7, 3874-3882.	1.7	21
49	Fe₃O₄@C Nanotubes Grown on Carbon Fabric as a Freeâ€Standing Anode for Highâ€Performance Liâ€Ion Batteries. Chemistry - A European Journal, 2020, 26, 14708-14714.	1.7	19
50	Ni-Rich Layered Oxide with Preferred Orientation (110) Plane as a Stable Cathode Material for High-Energy Lithium-Ion Batteries. Nanomaterials, 2020, 10, 2495.	1.9	19
51	Direct Detection and Visualization of the H⁺ Reaction Process in a VO₂ Cathode for Aqueous Zinc-Ion Batteries. Journal of Physical Chemistry Letters, 2021, 12, 7076-7084.	2.1	19
52	Reduced graphene oxide anchored tin sulfide hierarchical microspheres with superior Li-ion storage performance. Ionics, 2016, 22, 1811-1818.	1.2	15
53	Multifunctional Metal Phosphides as Superior Host Materials for Advanced Lithiumâ€Sulfur Batteries. Chemistry - A European Journal, 2021, 27, 13494-13512.	1.7	15
54	Phenyl 4-Fluorobenzene Sulfonate as a Versatile Film-Forming Electrolyte Additive for Wide-Temperature-Range NCM811//Graphite Batteries. ACS Applied Energy Materials, 2022, 5, 6324-6334.	2.5	13

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55	Facile Synthesis of Peapodâ€Like Cu₃Ge/Ge@C as a Highâ€Capacity and Longâ€Life Anode for Liâ€Ion Batteries. Chemistry - A European Journal, 2019, 25, 11486-11493.	1.7	12
56	The Electrolyte Additive Effects on Commercialized Ni-Rich LiNi_xCo_yMnzO₂ (x + y + z) Tj ETQq0 0 0 rgBT /Overloc 2292-2299.	2.5	12
57	SnSex (xÂ=Â1, 2) nanoparticles encapsulated in carbon nanospheres with reversible electrochemical behaviors for lithium-ion half/full cells. Chemical Engineering Journal, 2022, 431, 133463.	6.6	12
58	Dramatically Enhanced Liâ€Ion Storage of ZnO@C Anodes through TiO₂ Homogeneous Hybridization. Chemistry - A European Journal, 2019, 25, 582-589.	1.7	11
59	Scalable synthesis of Li2GeO3/expanded graphite as a high-performance anode for Li-ion batteries. Journal of Alloys and Compounds, 2022, 898, 162893.	2.8	11
60	From ZnSn(OH) 6 to SnS 2 : Topotactic transformation synthesis of SnS 2 hierarchical microcubes with superior Li-ion storage performance. Materials Research Bulletin, 2017, 96, 28-34.	2.7	10
61	Lithiumâ€“Sulfur Batteries: Selfâ€Supported and Flexible Sulfur Cathode Enabled via Synergistic Confinement for Highâ€Energyâ€Density Lithiumâ€“Sulfur Batteries (Adv. Mater. 33/2019). Advanced Materials, 2019, 31, 1970236.	11.1	8
62	Facile Synthesis of Yolkâ€“Shell Bi@C Nanospheres with Superior Li-ion Storage Performances. Acta Metallurgica Sinica (English Letters), 2021, 34, 347-353.	1.5	7
63	Controlled synthesis and formation mechanism of monodispersive lanthanum vanadate nanowires with monoclinic structure. Journal of Solid State Chemistry, 2013, 200, 123-127.	1.4	6
64	Na-Ion Batteries: A General Metal-Organic Framework (MOF)-Derived Selenidation Strategy for In Situ Carbon-Encapsulated Metal Selenides as High-Rate Anodes for Na-Ion Batteries (Adv. Funct. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.8	3
65	Liâ€“S Batteries: Unraveling the Catalytic Activity of Feâ€“Based Compounds toward Li₂S_x in Liâ€“S Chemical System from dâ€“p Bands (Adv.) Tj ETQq1 1 0.784314 rgBT /O	1.0	4
66	Li-Ion Batteries: FeP@C Nanotube Arrays Grown on Carbon Fabric as a Low Potential and Freestanding Anode for High-Performance Li-Ion Batteries (Small 30/2018). Small, 2018, 14, 1870138.	5.2	1
67	Frontispiece: Recent Progress of P2â€Type Layered Transitionâ€Metal Oxide Cathodes for Sodiumâ€Ion Batteries. Chemistry - A European Journal, 2020, 26, .	1.7	1
68	Frontispiece: Multifunctional Metal Phosphides as Superior Host Materials for Advanced Lithiumâ€Sulfur Batteries. Chemistry - A European Journal, 2021, 27, .	1.7	0
69	Frontispiece: Cathodes for Aqueous Znâ€Ion Batteries: Materials, Mechanisms, and Kinetics. Chemistry - A European Journal, 2021, 27, .	1.7	0