

Wen-Kui Zhang

List of Publications by Year in descending order

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140
papers

12,575
citations

25034

57
h-index

24982

109
g-index

140
all docs

140
docs citations

140
times ranked

11309
citing authors

#	ARTICLE	IF	CITATIONS
1	Composite polymer electrolytes reinforced by a three-dimensional polyacrylonitrile/Li _{0.33} La _{0.55} TiO ₃ nanofiber framework for room-temperature dendrite-free all-solid-state lithium metal battery. <i>Rare Metals</i> , 2022, 41, 1870-1879.	7.1	48
2	Hydrogen bonding enhanced SiO ₂ /PEO composite electrolytes for solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3400-3408.	10.3	54
3	Soybean Protein Fiber Enabled Controllable Li Deposition and a LiF-Nanocrystal-Enriched Interface for Stable Li Metal Batteries. <i>Nano Letters</i> , 2022, 22, 1374-1381.	9.1	41
4	Regulation of the Interfaces Between Argyrodite Solid Electrolytes and Lithium Metal Anode. <i>Frontiers in Chemistry</i> , 2022, 10, 837978.	3.6	14
5	A Facile Pre-Lithiated Strategy towards High-Performance Li ₂ Se-LiTiO ₂ Composite Cathode for Li-Se Batteries. <i>Nanomaterials</i> , 2022, 12, 815.	4.1	0
6	Polybenzimidazole/Conductive Carbon Black Composite Driven at Low Voltage for High-Temperature Heaters. <i>Journal of Electronic Materials</i> , 2022, 51, 2652-2662.	2.2	5
7	Interfacial and Ionic Modulation of Poly (Ethylene Oxide) Electrolyte Via Localized Iodization to Enable Dendrite-Free Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	77
8	The Effect of Compaction Density of Sulfur/Carbon Cathodes on the Practical Application of Li-S Pouch Cells. <i>Journal of Electronic Materials</i> , 2022, 51, 4115-4124.	2.2	2
9	Argyrodite Solid Electrolyte-Integrated Ni-Rich Oxide Cathode with Enhanced Interfacial Compatibility for All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33361-33369.	8.0	13
10	Yttrium stabilized argyrodite solid electrolyte with enhanced ionic conductivity and interfacial stability for all-solid-state batteries. <i>Journal of Power Sources</i> , 2022, 543, 231846.	7.8	10
11	Interfacial Reactions in Inorganic All-Solid-State Lithium Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 8-38.	4.7	39
12	In-situ construction of a Mg-modified interface to guide uniform lithium deposition for stable all-solid-state batteries. <i>Journal of Energy Chemistry</i> , 2021, 55, 272-278.	12.9	49
13	Empowering polypropylene separator with enhanced polysulfide adsorption and reutilization ability for high-performance Li-S batteries. <i>Materials Research Bulletin</i> , 2021, 134, 111108.	5.2	12
14	A low temperature MgH ₂ -AlCl ₃ -SiO ₂ system to synthesize nano-silicon for high-performance Li-ion batteries. <i>Chemical Engineering Journal</i> , 2021, 406, 126805.	12.7	15
15	Graphene/TiO ₂ decorated N-doped carbon foam as 3D porous current collector for high loading sulfur cathode. <i>Materials Research Bulletin</i> , 2021, 135, 111129.	5.2	15
16	A fast-ion conducting interface enabled by aluminum silicate fibers for stable Li metal batteries. <i>Chemical Engineering Journal</i> , 2021, 408, 128016.	12.7	48
17	Lithium ion diffusion mechanism on the inorganic components of the solid-electrolyte interphase. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10251-10259.	10.3	66
18	High-Performance All-Solid-State Lithium-Sulfur Batteries Enabled by Slurry-Coated Li ₆ PS ₅ Cl/S/C Composite Electrodes. <i>Frontiers in Energy Research</i> , 2021, 8, .	2.3	15

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19	Milling Time-Dependent Lithium/Sodium Storage Performance of Carbons Synthesized by a Mechanochemical Reaction. <i>Energy & Fuels</i> , 2021, 35, 4596-4603.	5.1	4
20	Rejuvenating dead lithium supply in lithium metal anodes by iodine redox. <i>Nature Energy</i> , 2021, 6, 378-387.	39.5	282
21	One-pot synthesis of nanocrystalline SnS@tremella-like porous carbon by supercritical CO ₂ method for excellent sodium storage performance. <i>Electrochimica Acta</i> , 2021, 373, 137933.	5.2	10
22	Silicious nanowires enabled dendrites suppression and flame retardancy for advanced lithium metal anodes. <i>Nano Energy</i> , 2021, 82, 105723.	16.0	50
23	A Low-Cost and High-Efficiency Electrothermal Composite Film Composed of Hybrid Conductivity Fillers and Polymer Blends Matrix for High-Performance Plate Heater. <i>Journal of Electronic Materials</i> , 2021, 50, 3084-3094.	2.2	19
24	Highly Efficient Synthesis of Silicon Nanowires from Molten Salt Electrolysis Cell with a Ceramic Diaphragm. <i>Journal of Electronic Materials</i> , 2021, 50, 5021.	2.2	6
25	Supercritical CO ₂ Synthesis of Freestanding Se _{1-x} S _x Foamy Cathodes for High-Performance Li-Se _{1-x} S _x Battery. <i>Frontiers in Chemistry</i> , 2021, 9, 738977.	3.6	7
26	Unprecedented Self-Healing Effect of Li ₆ PS ₅ Cl ₂ -Based All-Solid-State Lithium Battery. <i>Small</i> , 2021, 17, e2101326.	10.0	54
27	Facile and efficient synthesis of Li ₂ Se particles towards high-areal capacity Li ₂ Se cathode for advanced Li-Se battery. <i>Sustainable Materials and Technologies</i> , 2021, 29, e00288.	3.3	2
28	Interface issues of lithium metal anode for high-energy batteries: Challenges, strategies, and perspectives. <i>Informa Materials</i> , 2021, 3, 155-174.	17.3	195
29	Biomass-based materials for green lithium secondary batteries. <i>Energy and Environmental Science</i> , 2021, 14, 1326-1379.	30.8	157
30	Green synthesis of graphite from CO ₂ without graphitization process of amorphous carbon. <i>Nature Communications</i> , 2021, 12, 119.	12.8	93
31	<i>In Situ</i> Synthesis of a Si/CNTs/C Composite by Directly Reacting Magnesium Silicide with Lithium Carbonate for Enhanced Lithium Storage Capability. <i>Energy & Fuels</i> , 2021, 35, 20386-20393.	5.1	7
32	Rose pollens as sustainable biotemplates for porous SiOC microellipsoids with enhanced lithium storage performance. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152595.	5.5	14
33	² D MXene-based Energy Storage Materials: Interfacial Structure Design and Functionalization. <i>ChemSusChem</i> , 2020, 13, 1409-1419.	6.8	63
34	β-Cyclodextrin-modified porous ceramic membrane with enhanced ionic conductivity and thermal stability for lithium-ion batteries. <i>Ionics</i> , 2020, 26, 173-182.	2.4	12
35	A new magnesium hydride route to synthesize morphology-controlled Si/rGO nanocomposite towards high-performance lithium storage. <i>Electrochimica Acta</i> , 2020, 330, 135248.	5.2	17
36	Unraveling the Intra and Intercycle Interfacial Evolution of Li ₆ PS ₅ Cl ₂ -Based All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903311.	19.5	141

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37	Puffed Rice Carbon with Coupled Sulfur and Metal Iron for High-Efficiency Mercury Removal in Aqueous Solution. <i>Environmental Science & Technology</i> , 2020, 54, 2539-2547.	10.0	46
38	Functionally Modified Polyolefin-Based Separators for Lithium-Sulfur Batteries: Progress and Prospects. <i>Frontiers in Energy Research</i> , 2020, 8, .	2.3	16
39	Silicon-Doped Argyrodite Solid Electrolyte $\text{Li}_6\text{PS}_5\text{I}$ with Improved Ionic Conductivity and Interfacial Compatibility for High-Performance All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41538-41545.	8.0	90
40	In-situ electrolytic synthesis and superior lithium storage capability of $\text{Ni}@\text{NiO}/\text{C}$ nanocomposite by sacrificial nickel anode in molten carbonates. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155111.	5.5	11
41	High-capacity SiO ($\text{O}^{\circ}\text{x}^{\circ}\text{a}^{\circ}\text{2}$) as promising anode materials for next-generation lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155774.	5.5	69
42	An ultrastable lithium metal anode enabled by designed metal fluoride spansules. <i>Science Advances</i> , 2020, 6, eaaz3112.	10.3	157
43	A Solar-Driven Flexible Electrochromic Supercapacitor. <i>Materials</i> , 2020, 13, 1206.	2.9	34
44	Electrode Design for Lithium-Sulfur Batteries: Problems and Solutions. <i>Advanced Functional Materials</i> , 2020, 30, 1910375.	14.9	206
45	Hydrogen Pressure-Dependent Dehydrogenation Performance of the $\text{Mg}(\text{NH}_2)_2 \cdot 2\text{LiH} \cdot 0.07\text{KOH}$ System. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15255-15261.	8.0	10
46	Rational design of highly efficient metal-polyaniline/carbon cloth catalyst towards enhanced oxygen reduction reaction. <i>Ionics</i> , 2020, 26, 5065-5073.	2.4	4
47	Platinum nano-interlayer enhanced interface for stable all-solid-state batteries observed <i>via</i> cryo-transmission electron microscopy. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13541-13547.	10.3	47
48	In Situ Construction of a LiF -Enriched Interface for Stable All-Solid-State Batteries and its Origin Revealed by Cryo-TEM. <i>Advanced Materials</i> , 2020, 32, e2000223.	21.0	278
49	Lithium Sulfide as Cathode Materials for Lithium-Ion Batteries: Advances and Challenges. <i>Journal of Chemistry</i> , 2020, 2020, 1-17.	1.9	9
50	Biomacromolecules enabled dendrite-free lithium metal battery and its origin revealed by cryo-electron microscopy. <i>Nature Communications</i> , 2020, 11, 488.	12.8	158
51	Tremella-like porous carbon derived from one-step electroreduction of molten carbonates with superior rate capability for sodium-ion batteries. <i>Ionics</i> , 2020, 26, 2899-2907.	2.4	4
52	Lithium Batteries: Unraveling the Intra and Intercycle Interfacial Evolution of $\text{Li}_6\text{PS}_5\text{Cl}$ -Based All-Solid-State Lithium Batteries (<i>Adv. Energy Mater.</i> 4/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070017.	19.5	9
53	Mechanochemical synthesis of carbon from CO_2 : Mechanism for milling process-dependent morphology of carbon. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154681.	5.5	9
54	Embedding submicron SiO_2 into porous carbon as advanced lithium-ion batteries anode with ultralong cycle life and excellent rate capability. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 95, 227-233.	5.3	12

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55	Multiscale Porous Carbon Nanomaterials for Applications in Advanced Rechargeable Batteries. Batteries and Supercaps, 2019, 2, 9-36.	4.7	56
56	A review of biomass materials for advanced lithium-sulfur batteries. Chemical Science, 2019, 10, 7484-7495.	7.4	180
57	Biological Metabolism Synthesis of Metal Oxides Nanorods from Bacteria as a Biofactory toward High-Performance Lithium-ion Battery Anodes. Small, 2019, 15, e1902032.	10.0	17
58	Synthesis and electrochemical performance of poly(vinylidene fluoride)/SiO ₂ hybrid membrane for lithium-ion batteries. Journal of Solid State Electrochemistry, 2019, 23, 519-527.	2.5	28
59	Atomic Sulfur Covalently Engineered Interlayers of Ti ₃ C ₂ MXene for Ultra-Fast Sodium-ion Storage by Enhanced Pseudocapacitance. Advanced Functional Materials, 2019, 29, 1808107.	14.9	213
60	Sand/carbon composites as low-cost lithium storage materials with superior electrochemical performance. New Journal of Chemistry, 2019, 43, 4123-4129.	2.8	7
61	Hierarchically assembled mesoporous carbon nanosheets with an ultra large pore volume for high-performance lithium-sulfur batteries. New Journal of Chemistry, 2019, 43, 1380-1387.	2.8	16
62	Ultraefficient Conversion of CO ₂ into Morphology-Controlled Nanocarbons: A Sustainable Strategy toward Greenhouse Gas Utilization. Small, 2019, 15, e1902249.	10.0	21
63	Importing Tin Nanoparticles into Biomass-Derived Silicon Oxycarbides with High-Rate Cycling Capability Based on Supercritical Fluid Technology. Chemistry - A European Journal, 2019, 25, 7719-7725.	3.3	14
64	Empowering Metal Phosphides Anode with Catalytic Attribute toward Superior Cyclability for Lithium-ion Storage. Advanced Functional Materials, 2019, 29, 1809051.	14.9	52
65	Bio-templated fabrication of MnO nanoparticles in SiOC matrix with lithium storage properties. Chemical Engineering Journal, 2019, 359, 584-593.	12.7	43
66	Pillared MXene with Ultralarge Interlayer Spacing as a Stable Matrix for High Performance Sodium Metal Anodes. Advanced Functional Materials, 2019, 29, 1805946.	14.9	242
67	Improved high rate capability of Li[Li _{0.2} Mn _{0.534} Co _{0.133} Ni _{0.133}]O ₂ cathode material by surface modification with Co ₃ O ₄ . Journal of Alloys and Compounds, 2019, 783, 349-356.	5.5	22
68	A flexible non-precious metal Fe-N/C catalyst for highly efficient oxygen reduction reaction. Nanotechnology, 2019, 30, 144001.	2.6	9
69	Poly(ethylene oxide) reinforced Li ₆ PS ₅ Cl composite solid electrolyte for all-solid-state lithium battery: Enhanced electrochemical performance, mechanical property and interfacial stability. Journal of Power Sources, 2019, 412, 78-85.	7.8	141
70	Mg ₂ B ₂ O ₅ Nanowire Enabled Multifunctional Solid-State Electrolytes with High Ionic Conductivity, Excellent Mechanical Properties, and Flame-Retardant Performance. Nano Letters, 2018, 18, 3104-3112.	9.1	245
71	Sustainable, inexpensive, naturally multi-functionalized biomass carbon for both Li metal anode and sulfur cathode. Energy Storage Materials, 2018, 15, 218-225.	18.0	88
72	Synthesis of hierarchical porous carbon from metal carbonates towards high-performance lithium storage. Green Chemistry, 2018, 20, 1484-1490.	9.0	32

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73	Toast-like porous carbon derived from one-step reduction of CaCO ₃ for electrochemical lithium storage. Carbon, 2018, 130, 559-565.	10.3	23
74	Supercritical CO ₂ assisted synthesis of sulfur-modified zeolites as high-efficiency adsorbents for Hg ²⁺ removal from water. New Journal of Chemistry, 2018, 42, 3541-3550.	2.8	13
75	Electrochemical lithium storage properties of desert sands. Ionics, 2018, 24, 2233-2239.	2.4	4
76	Metal oxide nanoparticles induced step-edge nucleation of stable Li metal anode working under an ultrahigh current density of 15 mA cm ⁻² . Nano Energy, 2018, 45, 203-209.	16.0	153
77	Enhancing Catalyzed Decomposition of Na ₂ CO ₃ with Co ₂ MnO ₂ Nanowire-Decorated Carbon Fibers for Advanced Na ⁺ CO ₂ Batteries. ACS Applied Materials & Interfaces, 2018, 10, 17240-17248.	8.0	49
78	A green and facile strategy for the low-temperature and rapid synthesis of Li ₂ S@PC ⁺ CNT cathodes with high Li ₂ S content for advanced Li ⁺ S batteries. Journal of Materials Chemistry A, 2018, 6, 9906-9914.	10.3	45
79	Tunable pseudocapacitance storage of MXene by cation pillaring for high performance sodium-ion capacitors. Journal of Materials Chemistry A, 2018, 6, 7794-7806.	10.3	186
80	Nickel-Based-Hydroxide-Wrapped Activated Carbon Cloth/Sulfur Composite with Tree-Bark-Like Structure for High-Performance Freestanding Sulfur Cathode. ACS Applied Energy Materials, 2018, 1, 1594-1602.	5.1	23
81	Enhanced sulfide chemisorption by conductive Al-doped ZnO decorated carbon nanoflakes for advanced Li ⁺ S batteries. Nano Research, 2018, 11, 477-489.	10.4	36
82	Supercritical CO ₂ mediated incorporation of sulfur into carbon matrix as cathode materials towards high-performance lithium ⁺ sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 212-222.	10.3	49
83	Nanostructured Host Materials for Trapping Sulfur in Rechargeable Li ⁺ S Batteries: Structure Design and Interfacial Chemistry. Small Methods, 2018, 2, 1700279.	8.6	201
84	Biomass derived Ni(OH) ₂ @porous carbon/sulfur composites synthesized by a novel sulfur impregnation strategy based on supercritical CO ₂ technology for advanced Li-S batteries. Journal of Power Sources, 2018, 378, 73-80.	7.8	87
85	Facilitation of sulfur evolution reaction by pyridinic nitrogen doped carbon nanoflakes for highly-stable lithium-sulfur batteries. Energy Storage Materials, 2018, 10, 1-9.	18.0	208
86	A new strategy for the construction of 3D TiO ₂ nanowires/reduced graphene oxide for high-performance lithium/sodium batteries. Journal of Materials Chemistry A, 2018, 6, 24256-24266.	10.3	43
87	Supercritical CO ₂ -assisted synthesis of 3D porous SiOC/Se cathode for ultrahigh areal capacity and long cycle life Li ⁺ Se batteries. Journal of Materials Chemistry A, 2018, 6, 24773-24782.	10.3	26
88	Green and Low-Temperature Synthesis of Foam-like Hierarchical Porous Carbon from CO ₂ as Superior Lithium Storage Material. ACS Applied Energy Materials, 2018, 1, 7123-7129.	5.1	17
89	Revisiting Scientific Issues for Industrial Applications of Lithium ⁺ Sulfur Batteries. Energy and Environmental Materials, 2018, 1, 196-208.	12.8	158
90	Supercritical CO ₂ -Fluid-Assisted Synthesis of TiO ₂ Quantum Dots/Reduced Graphene Oxide Composites for Outstanding Sodium Storage Capability. ACS Applied Energy Materials, 2018, 1, 7213-7219.	5.1	17

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91	All-solid-state batteries with slurry coated LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ composite cathode and Li ₆ PS ₅ Cl electrolyte: Effect of binder content. <i>Journal of Power Sources</i> , 2018, 391, 73-79.	7.8	168
92	Effects of Nd-modification on the activity and SO ₂ resistance of MnO _x /TiO ₂ catalysts for low-temperature NH ₃ -SCR. <i>New Journal of Chemistry</i> , 2018, 42, 12845-12852.	2.8	19
93	Polyiodide-Shuttle Restricting Polymer Cathode for Rechargeable Lithium/Iodine Battery with Ultralong Cycle Life. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17933-17941.	8.0	71
94	The effects of tungsten and hydrothermal aging in promoting NH ₃ -SCR activity on V ₂ O ₅ /WO ₃ -TiO ₂ catalysts. <i>Applied Surface Science</i> , 2018, 459, 639-646.	6.1	72
95	High-content of sulfur uniformly embedded in mesoporous carbon: a new electrodeposition synthesis and an outstanding lithium-sulfur battery cathode. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5905-5911.	10.3	37
96	A Conductive Molecular Framework Derived Li ₂ S/N,P-Codoped Carbon Cathode for Advanced Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602876.	19.5	258
97	3D lithium metal embedded within lithiophilic porous matrix for stable lithium metal batteries. <i>Nano Energy</i> , 2017, 37, 177-186.	16.0	431
98	Ionic conductivity promotion of polymer electrolyte with ionic liquid grafted oxides for all-solid-state lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12934-12942.	10.3	126
99	Solid-State Lithium-Sulfur Batteries Operated at 37 °C with Composites of Nanostructured Li ₇ La ₃ Zr ₂ O ₁₂ /Carbon Foam and Polymer. <i>Nano Letters</i> , 2017, 17, 2967-2972.	9.1	384
100	Synthesis and electrochemical properties of LiMnPO ₄ -modified Li[Li _{0.2} Mn _{0.534} Co _{0.133} Ni _{0.133}]O ₂ cathode material for Li-ion batteries. <i>Electrochimica Acta</i> , 2017, 235, 1-9.	5.2	19
101	Pillared Structure Design of MXene with Ultralarge Interlayer Spacing for High-Performance Lithium-Ion Capacitors. <i>ACS Nano</i> , 2017, 11, 2459-2469.	14.6	700
102	Highly dispersed surface active species of Mn/Ce/TiW catalysts for high performance at low temperature NH ₃ -SCR. <i>Chemical Engineering Journal</i> , 2017, 330, 1195-1202.	12.7	119
103	Synthesis and electrochemical performance of nano TiO ₂ (B)-coated Li[Li _{0.2} Mn _{0.54} Co _{0.13} Ni _{0.13}]O ₂ cathode materials for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2017, 41, 12962-12968.	2.8	21
104	H ₂ O-induced self-propagating synthesis of hierarchical porous carbon: a promising lithium storage material with superior rate capability and ultra-long cycling life. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18221-18229.	10.3	30
105	Confining Sulfur in N-Doped Porous Carbon Microspheres Derived from Microalgae for Advanced Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23782-23791.	8.0	148
106	Efficient Activation of Li ₂ S by Transition Metal Phosphides Nanoparticles for Highly Stable Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2017, 2, 1711-1719.	17.4	252
107	Enhanced sulfide chemisorption using boron and oxygen dually doped multi-walled carbon nanotubes for advanced lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 632-640.	10.3	151
108	One-pot Biotemplate Synthesis of FeS ₂ Decorated Sulfur-doped Carbon Fiber as High Capacity Anode for Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2016, 209, 201-209.	5.2	63

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109	Supercritical fluid assisted biotemplating synthesis of Si@C microspheres from microalgae for advanced Li-ion batteries. RSC Advances, 2016, 6, 69764-69772.	3.6	35
110	In Situ Reactive Synthesis of Polypyrrole-MnO ₂ Coaxial Nanotubes as Sulfur Hosts for High-Performance Lithium-Sulfur Battery. Nano Letters, 2016, 16, 7276-7281.	9.1	271
111	Sn ⁴⁺ Ion Decorated Highly Conductive Ti ₃ C ₂ MXene: Promising Lithium-Ion Anodes with Enhanced Volumetric Capacity and Cyclic Performance. ACS Nano, 2016, 10, 2491-2499.	14.6	632
112	Facile synthesis of porous Li ₂ S@C composites as cathode materials for lithium-sulfur batteries. Journal of Power Sources, 2016, 306, 200-207.	7.8	71
113	TiC/NiO Core/Shell Nanoarchitecture with Battery-Capacitive Synchronous Lithium Storage for High-Performance Lithium-Ion Battery. ACS Applied Materials & Interfaces, 2015, 7, 11842-11848.	8.0	51
114	Sulfur synchronously electrodeposited onto exfoliated graphene sheets as a cathode material for advanced lithium-sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 16513-16519.	10.3	37
115	Controllable synthesis and in situ TEM study of lithiation mechanism of high performance NaV ₃ O ₈ cathodes. Journal of Materials Chemistry A, 2015, 3, 3044-3050.	10.3	13
116	Internal Electron Tunneling Enabled Ultrasensitive Position/Force Peapod Sensors. Nano Letters, 2015, 15, 7281-7287.	9.1	11
117	Synthesis and electrochemical performance of Li ₄ Ti ₅ O ₁₂ /TiO ₂ /C nanocrystallines for high-rate lithium ion batteries. RSC Advances, 2015, 5, 74774-74782.	3.6	31
118	Synthesis of MnO/C composites derived from pollen template for advanced lithium-ion batteries. Electrochimica Acta, 2015, 152, 286-293.	5.2	91
119	Bio-inspired fabrication of carbon nanotiles for high performance cathode of Li-S batteries. Journal of Materials Chemistry A, 2014, 2, 2290-2296.	10.3	102
120	Facile fabrication of red phosphorus/TiO ₂ composites for lithium ion batteries. RSC Advances, 2014, 4, 60914-60919.	3.6	15
121	Biotemplated synthesis of bark-structured TiC nanowires as Pt catalyst supports with enhanced electrocatalytic activity and durability for methanol oxidation. Journal of Materials Chemistry A, 2014, 2, 8003-8008.	10.3	54
122	Mesoporous Fe ₃ O ₄ @C submicrospheres evolved by a novel self-corrosion mechanism for high-performance lithium-ion batteries. New Journal of Chemistry, 2014, 38, 2428-2434.	2.8	31
123	Well-dispersed ultrafine Mn ₃ O ₄ nanocrystals on reduced graphene oxide with high electrochemical Li-storage performance. New Journal of Chemistry, 2014, 38, 4743-4747.	2.8	26
124	Biotemplated Fabrication of Sn@C Anode Materials Based on the Unique Metal Biosorption Behavior of Microalgae. ACS Applied Materials & Interfaces, 2014, 6, 3696-3702.	8.0	67
125	Strong Sulfur Binding with Conducting Magn@li-Phase Ti ₂ NTiO ₂ Nanomaterials for Improving Lithium-Sulfur Batteries. Nano Letters, 2014, 14, 5288-5294.	9.1	643
126	Green and Facile Fabrication of Hollow Porous MnO/C Microspheres from Microalgae for Lithium-Ion Batteries. ACS Nano, 2013, 7, 7083-7092.	14.6	493

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127	Highly mesoporous carbon foams synthesized by a facile, cost-effective and template-free Pechini method for advanced lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3295.	10.3	205
128	Construction of sheet-belt hybrid nanostructures from one-dimensional mesoporous TiO ₂ (B) nanobelts and graphene sheets for advanced lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2495.	10.3	78
129	Template-free synthesis of hollow γ -Fe ₂ O ₃ microcubes for advanced lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2307-2312.	10.3	66
130	Exploring the Energy Storage Mechanism of High Performance MnO ₂ Electrochemical Capacitor Electrodes: An In Situ Atomic Force Microscopy Study in Aqueous Electrolyte. <i>Advanced Functional Materials</i> , 2013, 23, 4745-4751.	14.9	39
131	Nanocrystal-Constructed Mesoporous Single-Crystalline Co ₃ O ₄ Nanobelts with Superior Rate Capability for Advanced Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5974-5980.	8.0	201
132	Highly efficient electrolytic exfoliation of graphite into graphene sheets based on Li ions intercalation-expansion-microexplosion mechanism. <i>Journal of Materials Chemistry</i> , 2012, 22, 10452.	6.7	109
133	Biotemplated fabrication of hierarchically porous NiO/C composite from lotus pollen grains for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 9209.	6.7	232
134	Biotemplating of phosphate hierarchical rechargeable LiFePO ₄ /C spirulina microstructures. <i>Journal of Materials Chemistry</i> , 2011, 21, 6498.	6.7	71
135	TiC Nanorods Derived from Cotton Fibers: Chloride-Assisted VLS Growth, Structure, and Mechanical Properties. <i>Crystal Growth and Design</i> , 2011, 11, 4422-4426.	3.0	74
136	A generic bamboo-based carbothermal method for preparing carbide (SiC, B ₄ C, TiC, TaC, NbC, Ti _x Nb _{1-x} C), <i>J. Electrochem. Soc.</i> , 2010, 157, 1040-1046.	8.7	76
137	Photoelectrochemical Properties of NiO Coupled with TiO ₂ Thin Film Prepared by Magnetron Sputtering Method. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2011, 21, 852-857.	3.7	2
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