Sen Xin

List of Publications by Year in Descending Order

153 papers	17,301 citations	66 h-index	131 g-index
163 ext. papers	20,104 ext. citations	12.6 avg, IF	7.16 L-index

#	Paper	IF	Citations
153	Competitive Doping Chemistry for Nickel-Rich Layered Oxide Cathode Materials.. *Angewandte Chemie - International Edition*, **2022**,	16.4	5
152	koLayered Oxide Cathode-Electrolyte Interface towards Na-Ion Batteries: Advances and Perspectives.. *Chemistry - an Asian Journal*, **2022**, e202200213	4.5	
151	Fullerene-Derivative C60-(OLi)n Modified Separators toward Stable Wide-Temperature Lithium Metal Batteries. *Chemical Engineering Journal*, **2022**, 137207	14.7	0
150	Air-stability of sodium-based layered-oxide cathode materials. *Science China Chemistry*, **2022**, 65, 1076-1087	7.3	4
149	Insights into the nitride-regulated processes at the electrolyte/electrode interface in quasi-solid-state lithium metal batteries. *Journal of Energy Chemistry*, **2021**, 67, 780-780	12	1
148	Stabilizing the Electrochemistry of Lithium-Selenium Battery via In situ Gelated Polymer Electrolyte: A Look from Anode. *Chemical Research in Chinese Universities*, **2021**, 37, 298-303	2.2	1
147	Advances of polymer binders for silicon-based anodes in high energy density lithium-ion batteries. *InformaIMaterIy*, **2021**, 3, 460-501	23.1	55
146	Two-Dimensional Boron and Nitrogen Dual-Doped Graphitic Carbon as an Efficient Metal-Free Cathodic Electrocatalyst for Lithium-Air Batteries. *ChemElectroChem*, **2021**, 8, 949-956	4.3	1
145	Bridging Interparticle Li Conduction in a Soft Ceramic Oxide Electrolyte. *Journal of the American Chemical Society*, **2021**, 143, 5717-5726	16.4	44
144	Revealing the Superiority of Fast Ion Conductor in Composite Electrolyte for Dendrite-Free Lithium-Metal Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 22978-22986	9.5	10
143	Formulating the Electrolyte Towards High-Energy and Safe Rechargeable Lithium-Metal Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 16554-16560	16.4	30
142	Formulating the Electrolyte Towards High-Energy and Safe Rechargeable LithiumMetal Batteries. *Angewandte Chemie*, **2021**, 133, 16690-16696	3.6	6
141	Materials Design for High-Safety Sodium-Ion Battery. *Advanced Energy Materials*, **2021**, 11, 2000974	21.8	112
140	Solidifying CathodeElectrolyte Interface for LithiumSulfur Batteries. *Advanced Energy Materials*, **2021**, 11, 2000791	21.8	38
139	Insights into the pre-oxidation process of phenolic resin-based hard carbon for sodium storage. *Materials Chemistry Frontiers*, **2021**, 5, 3911-3917	7.8	5
138	Surface Reconstruction-Associated Partially Amorphized Bismuth Oxychloride for Boosted Photocatalytic Water Oxidation. *ACS Applied Materials & Interfaces*, **2021**, 13, 5088-5098	9.5	6
137	Constructing a stable interface between the sulfide electrolyte and the Li metal anode via a Li+-conductive gel polymer interlayer. *Materials Chemistry Frontiers*, **2021**, 5, 5328-5335	7.8	1

136	Highly Selective Synthesis of Monolayer or Bilayer WSe2 Single Crystals by Pre-annealing the Solid Precursor. *Chemistry of Materials*, **2021**, 33, 1307-1313	9.6	6
135	The 2021 battery technology roadmap. *Journal Physics D: Applied Physics*, **2021**, 54, 183001	3	63
134	In-situ encapsulating flame-retardant phosphate into robust polymer matrix for safe and stable quasi-solid-state lithium metal batteries. *Energy Storage Materials*, **2021**, 39, 186-193	19.4	28
133	MoC Electrocatalysts for Kinetically Boosting Polysulfide Conversion in Quasi-Solid-State Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 45651-45660	9.5	2
132	Designing □conjugated polypyrene nanoflowers formed with meso- and microporous nanosheets for high-performance anode of potassium ion batteries. *Chemical Engineering Journal*, **2021**, 132704	14.7	6
131	Boron-doped sodium layered oxide for reversible oxygen redox reaction in Na-ion battery cathodes. *Nature Communications*, **2021**, 12, 5267	17.4	21
130	A Rational Reconfiguration of Electrolyte for High-Energy and Long-Life Lithium-Chalcogen Batteries. *Advanced Materials*, **2020**, 32, e2000302	24	42
129	Building an Air Stable and Lithium Deposition Regulable Garnet Interface from Moderate-Temperature Conversion Chemistry. *Angewandte Chemie*, **2020**, 132, 12167-12173	3.6	14
128	High-Efficiency Cathode Sodium Compensation for Sodium-Ion Batteries. *Advanced Materials*, **2020**, 32, e2001419	24	60
127	Enabling a Durable Electrochemical Interface via an Artificial Amorphous Cathode Electrolyte Interphase for Hybrid Solid/Liquid Lithium-Metal Batteries. *Angewandte Chemie*, **2020**, 132, 6647-6651	3.6	17
126	An integral interface with dynamically stable evolution on micron-sized SiOx particle anode. *Nano Energy*, **2020**, 74, 104890	17.1	36
125	Stabilizing Polymer□ithium Interface in a Rechargeable Solid Battery. *Advanced Functional Materials*, **2020**, 30, 1908047	15.6	30
124	A 3D Lithium/Carbon Fiber Anode with Sustained Electrolyte Contact for Solid-State Batteries. *Advanced Energy Materials*, **2020**, 10, 1903325	21.8	40
123	Black phosphorus composites with engineered interfaces for high-rate high-capacity lithium storage. *Science*, **2020**, 370, 192-197	33.3	156
122	Recent progress and design principles of nanocomposite solid electrolytes. *Current Opinion in Electrochemistry*, **2020**, 22, 195-202	7.2	6
121	A facile strategy to reconcile 3D anodes and ceramic electrolytes for stable solid-state Li metal batteries. *Energy Storage Materials*, **2020**, 32, 458-464	19.4	12
120	Chalcogen cathode and its conversion electrochemistry in rechargeable Li/Na batteries. *Science China Chemistry*, **2020**, 63, 1402-1415	7.9	20
119	Co3O4 modified Ag/g-C3N4 composite as a bifunctional cathode for lithium-oxygen battery. *Journal of Energy Chemistry*, **2020**, 41, 185-193	12	29

118	Building an Air Stable and Lithium Deposition Regulable Garnet Interface from Moderate-Temperature Conversion Chemistry. *Angewandte Chemie - International Edition*, **2020**, 59, 12069-12075	16.4	68
117	Enabling a Durable Electrochemical Interface via an Artificial Amorphous Cathode Electrolyte Interphase for Hybrid Solid/Liquid Lithium-Metal Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 6585-6589	16.4	47
116	Introduction to Electrochemical Energy Storage **2019**, 1-28		
115	Charge Transfer and Storage of an Electrochemical Cell and Its Nano Effects **2019**, 29-87		
114	Facile synthesis of CuO nanochains as high-rate anode materials for lithium-ion batteries. *New Journal of Chemistry*, **2019**, 43, 6535-6539	3.6	22
113	Strategies for improving the storage performance of silicon-based anodes in lithium-ion batteries. *Nano Research*, **2019**, 12, 1739-1749	10	43
112	Exceptional oxygen evolution reactivities on CaCoO and SrCoO. *Science Advances*, **2019**, 5, eaav6262	14.3	89
111	Facile Synthesis of Carbon-Coated Porous SbTe Nanoplates with High Alkali Metal Ion Storage. *ACS Applied Materials & Interfaces*, **2019**, 11, 29934-29940	9.5	22
110	Short O-O separation in layered oxide NaCoO enables an ultrafast oxygen evolution reaction. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 23473-23479	11.5	35
109	Green Growth Solid Electrolyte Interphase Layer with High Rebound Resilience for Long-Life Lithium Metal Anodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 43200-43205	9.5	12
108	Double-Layer Polymer Electrolyte for High-Voltage All-Solid-State Rechargeable Batteries. *Advanced Materials*, **2019**, 31, e1805574	24	196
107	Garnet Electrolyte with an Ultralow Interfacial Resistance for Li-Metal Batteries. *Journal of the American Chemical Society*, **2018**, 140, 6448-6455	16.4	295
106	A High-Energy-Density Potassium Battery with a Polymer-Gel Electrolyte and a Polyaniline Cathode. *Angewandte Chemie*, **2018**, 130, 5547-5551	3.6	35
105	Stabilizing a High-Energy-Density Rechargeable Sodium Battery with a Solid Electrolyte. *CheM*, **2018**, 4, 833-844	16.2	144
104	Nitrogen-Doped Perovskite as a Bifunctional Cathode Catalyst for Rechargeable Lithium-Oxygen Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 5543-5550	9.5	74
103	Durable and Efficient Hollow Porous Oxide Spinel Microspheres for Oxygen Reduction. *Joule*, **2018**, 2, 337-348	27.8	138
102	Stable Lithium Storage in Nitrogen-Doped Carbon-Coated Ferric Oxide Yolk-Shell Nanospindles with Preserved Hollow Space. *ChemPlusChem*, **2018**, 83, 99-107	2.8	5
101	□MnO2 nanorods supported on porous graphitic carbon nitride as efficient electrocatalysts for lithium-air batteries. *Journal of Power Sources*, **2018**, 392, 15-22	8.9	50

100	A High-Energy-Density Potassium Battery with a Polymer-Gel Electrolyte and a Polyaniline Cathode. *Angewandte Chemie - International Edition*, **2018**, 57, 5449-5453	16.4	150
99	A Perovskite Electrolyte That Is Stable in Moist Air for Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2018**, 57, 8587-8591	16.4	76
98	SiO Encapsulated in Graphene Bubble Film: An Ultrastable Li-Ion Battery Anode. *Advanced Materials* , **2018**, 30, e1707430	24	183
97	A Perovskite Electrolyte That Is Stable in Moist Air for Lithium-Ion Batteries. *Angewandte Chemie*, **2018**, 130, 8723-8727	3.6	5
96	Stable Sodium Storage of Red Phosphorus Anode Enabled by a Dual-Protection Strategy. *ACS Applied Materials & Interfaces*, **2018**, 10, 30479-30486	9.5	18
95	NaMnZr(PO): A High-Voltage Cathode for Sodium Batteries. *Journal of the American Chemical Society*, **2018**, 140, 18192-18199	16.4	115
94	Polyanthraquinone-Triazine-A Promising Anode Material for High-Energy Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 37023-37030	9.5	56
93	LiN-Modified Garnet Electrolyte for All-Solid-State Lithium Metal Batteries Operated at 40 °C. *Nano Letters*, **2018**, 18, 7414-7418	11.5	160
92	Selective CO Evolution from Photoreduction of CO on a Metal-Carbide-Based Composite Catalyst. *Journal of the American Chemical Society*, **2018**, 140, 13071-13077	16.4	46
91	Room-Temperature Liquid Na-K Anode Membranes. *Angewandte Chemie - International Edition*, **2018**, 57, 14184-14187	16.4	52
90	Room-Temperature Liquid NaK Anode Membranes. *Angewandte Chemie*, **2018**, 130, 14380-14383	3.6	10
89	Polymer lithium-garnet interphase for an all-solid-state rechargeable battery. *Nano Energy*, **2018**, 53, 926-931	17.1	69
88	Insights into the Improved High-Voltage Performance of Li-Incorporated Layered Oxide Cathodes for Sodium-Ion Batteries. *CheM*, **2018**, 4, 2124-2139	16.2	76
87	Graphitic Nanocarbon-Selenium Cathode with Favorable Rate Capability for Li-Se Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 8759-8765	9.5	44
86	Photocatalytic CO Reduction by Carbon-Coated Indium-Oxide Nanobelts. *Journal of the American Chemical Society*, **2017**, 139, 4123-4129	16.4	291
85	A Plastic-Crystal Electrolyte Interphase for All-Solid-State Sodium Batteries. *Angewandte Chemie - International Edition*, **2017**, 56, 5541-5545	16.4	117
84	Enhanced Visible-Light-Driven Photocatalytic H2 Evolution from Water on Noble-Metal-Free CdS-Nanoparticle-Dispersed Mo2 Nanospheres. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 5449-5456	8.3	62
83	Methods for the Stabilization of Nanostructured Electrode Materials for Advanced Rechargeable Batteries. *Small Methods*, **2017**, 1, 1700094	12.8	42

82	Solid-State Lithium Metal Batteries Promoted by Nanotechnology: Progress and Prospects. *ACS Energy Letters*, **2017**, 2, 1385-1394	20.1	259
81	An Inverse Aluminum Battery: Putting the Aluminum as the Cathode. *ACS Energy Letters*, **2017**, 2, 1534-1538	20.1	12
80	Stable Li Plating/Stripping Electrochemistry Realized by a Hybrid Li Reservoir in Spherical Carbon Granules with 3D Conducting Skeletons. *Journal of the American Chemical Society*, **2017**, 139, 5916-5922	16.4	329
79	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. *Angewandte Chemie*, **2017**, 129, 771-774	3.6	66
78	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2017**, 56, 753-756	16.4	341
77	Rechargeable Sodium All-Solid-State Battery. *ACS Central Science*, **2017**, 3, 52-57	16.8	240
76	Porous Coconut Shell Carbon Offering High Retention and Deep Lithiation of Sulfur for Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 33855-33862	9.5	89
75	The Origin of Superior Performance of Co(OH)2 in Hybrid Supercapacitors. *CheM*, **2017**, 3, 26-28	16.2	31
74	Atom-Thick Interlayer Made of CVD-Grown Graphene Film on Separator for Advanced Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 43696-43703	9.5	62
73	Rational design of Si@carbon with robust hierarchically porous custard-apple-like structure to boost lithium storage. *Nano Energy*, **2017**, 39, 253-261	17.1	100
72	Biotemplated synthesis of three-dimensional porous MnO/C-N nanocomposites from renewable rapeseed pollen: An anode material for lithium-ion batteries. *Nano Research*, **2017**, 10, 1-11	10	191
71	Progress of rechargeable lithium metal batteries based on conversion reactions. *National Science Review*, **2017**, 4, 54-70	10.8	102
70	Fluorine-Doped Antiperovskite Electrolyte for All-Solid-State Lithium-Ion Batteries. *Angewandte Chemie*, **2016**, 128, 10119-10122	3.6	22
69	Graphene Sandwiched by Sulfur-Confined Mesoporous Carbon Nanosheets: A Kinetically Stable Cathode for Li-S Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 33704-33711	9.5	51
68	Liquid K-Na Alloy Anode Enables Dendrite-Free Potassium Batteries. *Advanced Materials*, **2016**, 28, 9608-9612	24	179
67	Plating a Dendrite-Free Lithium Anode with a Polymer/Ceramic/Polymer Sandwich Electrolyte. *Journal of the American Chemical Society*, **2016**, 138, 9385-8	16.4	662
66	Fluorine-Doped Antiperovskite Electrolyte for All-Solid-State Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2016**, 55, 9965-8	16.4	155
65	NaMV(PO) (M = Mn, Fe, Ni) Structure and Properties for Sodium Extraction. *Nano Letters*, **2016**, 16, 7836-7841	11.5	146

64	Mastering the interface for advanced all-solid-state lithium rechargeable batteries. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 13313-13317	11.5	193
63	Electrocatalytic performances of g-C3N4-LaNiO3 composite as bi-functional catalysts for lithium-oxygen batteries. *Scientific Reports*, **2016**, 6, 24314	4.9	51
62	Ion-Catalyzed Synthesis of Microporous Hard Carbon Embedded with Expanded Nanographite for Enhanced Lithium/Sodium Storage. *Journal of the American Chemical Society*, **2016**, 138, 14915-14922	16.4	267
61	Carbon Nanostructures: Covalently Connected Carbon Nanostructures for Current Collectors in Both the Cathode and Anode of Li□S Batteries (Adv. Mater. 41/2016). *Advanced Materials*, **2016**, 28, 9016-9016	24	5
60	Elastic Carbon Nanotube Aerogel Meets Tellurium Nanowires: A Binder- and Collector-Free Electrode for Li-Te Batteries. *Advanced Functional Materials*, **2016**, 26, 3580-3588	15.6	62
59	Nickel-Doped La0.8Sr0.2Mn(1-x)Ni(x)O3 Nanoparticles Containing Abundant Oxygen Vacancies as an Optimized Bifunctional Catalyst for Oxygen Cathode in Rechargeable Lithium-Air Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 6520-8	9.5	121
58	Binder/Collector-Free Te Cathodes: Elastic Carbon Nanotube Aerogel Meets Tellurium Nanowires: A Binder- and Collector-Free Electrode for Li-Te Batteries (Adv. Funct. Mater. 21/2016). *Advanced Functional Materials*, **2016**, 26, 3747-3747	15.6	
57	Built-in Carbon Nanotube Network inside a Biomass-Derived Hierarchically Porous Carbon to Enhance the Performance of the Sulfur Cathode in a Li-S Battery. *ChemNanoMat*, **2016**, 2, 712-718	3.5	47
56	Graphene-Wrapped Graphitic Carbon Hollow Spheres: Bioinspired Synthesis and Applications in Batteries and Supercapacitors. *ChemNanoMat*, **2016**, 2, 540-546	3.5	25
55	The Electrochemistry with Lithium versus Sodium of Selenium Confined To Slit Micropores in Carbon. *Nano Letters*, **2016**, 16, 4560-8	11.5	117
54	Subzero-Temperature Cathode for a Sodium-Ion Battery. *Advanced Materials*, **2016**, 28, 7243-8	24	299
53	Rice husk-derived hierarchical silicon/nitrogen-doped carbon/carbon nanotube spheres as low-cost and high-capacity anodes for lithium-ion batteries. *Nano Energy*, **2016**, 25, 120-127	17.1	360
52	Photocatalytic CO2 reduction highly enhanced by oxygen vacancies on Pt-nanoparticle-dispersed gallium oxide. *Nano Research*, **2016**, 9, 1689-1700	10	115
51	Combining Nitrogen-Doped Graphene Sheets and MoS2: A Unique Film□oam□ilm Structure for Enhanced Lithium Storage. *Angewandte Chemie*, **2016**, 128, 12975-12980	3.6	41
50	Combining Nitrogen-Doped Graphene Sheets and MoS2 : A Unique Film-Foam-Film Structure for Enhanced Lithium Storage. *Angewandte Chemie - International Edition*, **2016**, 55, 12783-8	16.4	144
49	Covalently Connected Carbon Nanostructures for Current Collectors in Both the Cathode and Anode of Li-S Batteries. *Advanced Materials*, **2016**, 28, 9094-9102	24	154
48	Novel Hydrogel-Derived Bifunctional Oxygen Electrocatalyst for Rechargeable Air Cathodes. *Nano Letters*, **2016**, 16, 6516-6522	11.5	192
47	Conductive Carbon Network inside a Sulfur-Impregnated Carbon Sponge: A Bioinspired High-Performance Cathode for Li-S Battery. *ACS Applied Materials & Interfaces*, **2016**, 8, 22261-9	9.5	47

46	Facile Synthesis of MoS2/Reduced Graphene Oxide@Polyaniline for High-Performance Supercapacitors. *ACS Applied Materials & Interfaces*, **2016**, 8, 21373-80	9.5	143
45	Flexible nitrogen-doped graphene/SnO2 foams promise kinetically stable lithium storage. *Nano Energy*, **2015**, 13, 482-490	17.1	130
44	Carambola-shaped LiFePO4/C nanocomposites: directing synthesis and enhanced Li storage properties. *Journal of Materials Chemistry A*, **2015**, 3, 116-120	13	14
43	Peptide Self-Assembled Biofilm with Unique Electron Transfer Flexibility for Highly Efficient Visible-Light-Driven Photocatalysis. *ACS Nano*, **2015**, 9, 11258-65	16.7	60
42	A high-energy room-temperature sodium-sulfur battery. *Advanced Materials*, **2014**, 26, 1261-5	24	446
41	Carbon nanofibers decorated with molybdenum disulfide nanosheets: synergistic lithium storage and enhanced electrochemical performance. *Angewandte Chemie - International Edition*, **2014**, 53, 11552-6	16.4	297
40	Batteries: A High-Energy Room-Temperature Sodium-Sulfur Battery (Adv. Mater. 8/2014). *Advanced Materials*, **2014**, 26, 1308-1308	24	2
39	Carbon Nanofibers Decorated with Molybdenum Disulfide Nanosheets: Synergistic Lithium Storage and Enhanced Electrochemical Performance. *Angewandte Chemie*, **2014**, 126, 11736-11740	3.6	37
38	General and Straightforward Synthetic Route to Phenolic Resin Gels Templated by Chitosan Networks. *Chemistry of Materials*, **2014**, 26, 6915-6918	9.6	34
37	Copper germanate nanowire/reduced graphene oxide anode materials for high energy lithium-ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 11404	13	67
36	A novel polymer electrolyte with improved high-temperature-tolerance up to 170℃ for high-temperature lithium-ion batteries. *Journal of Power Sources*, **2013**, 244, 234-239	8.9	50
35	Encapsulation of Sulfur in a Hollow Porous Carbon Substrate for Superior Li-S Batteries with Long Lifespan. *Particle and Particle Systems Characterization*, **2013**, 30, 321-325	3.1	85
34	Lithium-sulfur batteries: electrochemistry, materials, and prospects. *Angewandte Chemie - International Edition*, **2013**, 52, 13186-200	16.4	1989
33	Enhanced working temperature of PEO-based polymer electrolyte via porous PTFE film as an efficient heat resister. *Solid State Ionics*, **2013**, 245-246, 1-7	3.3	26
32	High-safety lithium-sulfur battery with prelithiated Si/C anode and ionic liquid electrolyte. *Electrochimica Acta*, **2013**, 91, 58-61	6.7	113
31	Tuning the porous structure of carbon hosts for loading sulfur toward long lifespan cathode materials for Li–S batteries. *Journal of Materials Chemistry A*, **2013**, 1, 6602	13	170
30	An advanced selenium-carbon cathode for rechargeable lithium-selenium batteries. *Angewandte Chemie - International Edition*, **2013**, 52, 8363-7	16.4	330
29	Batteries: Encapsulation of Sulfur in a Hollow Porous Carbon Substrate for Superior Li-S Batteries with Long Lifespan (Part. Part. Syst. Charact. 4/2013). *Particle and Particle Systems Characterization*, **2013**, 30, 392-392	3.1	

28	Nanoparticles Engineering for Lithium-Ion Batteries. *Particle and Particle Systems Characterization*, **2013**, 30, 737-753	3.1	22
27	An Advanced Selenium–Carbon Cathode for Rechargeable Lithium–Selenium Batteries. *Angewandte Chemie*, **2013**, 125, 8521-8525	3.6	47
26	Lithium-Schwefel-Batterien: Elektrochemie, Materialien und Perspektiven. *Angewandte Chemie*, **2013**, 125, 13426-13441	3.6	163
25	Nanocarbon networks for advanced rechargeable lithium batteries. *Accounts of Chemical Research*, **2012**, 45, 1759-69	24.3	488
24	Smaller sulfur molecules promise better lithium-sulfur batteries. *Journal of the American Chemical Society*, **2012**, 134, 18510-3	16.4	1317
23	Ionothermal synthesis of sulfur-doped porous carbons hybridized with graphene as superior anode materials for lithium-ion batteries. *Chemical Communications*, **2012**, 48, 10663-5	5.8	252
22	Improved kinetics of LiNi(1/3)Mn(1/3)Co(1/3)O2 cathode material through reduced graphene oxide networks. *Physical Chemistry Chemical Physics*, **2012**, 14, 2934-9	3.6	85
21	Improving the electrode performance of Ge through Ge@C core-shell nanoparticles and graphene networks. *Journal of the American Chemical Society*, **2012**, 134, 2512-5	16.4	411
20	Superior radical polymer cathode material with a two-electron process redox reaction promoted by graphene. *Energy and Environmental Science*, **2012**, 5, 5221-5225	35.4	207
19	Low-cost and large-scale synthesis of alkaline earth metal germanate nanowires as a new class of lithium ion battery anode material. *Energy and Environmental Science*, **2012**, 5, 8007	35.4	106
18	SnO2 hollow spheres: Polymer bead-templated hydrothermal synthesis and their electrochemical properties for lithium storage. *Science China Chemistry*, **2012**, 55, 1314-1318	7.9	30
17	Synthesis of nanostructured SnO2/C microfibers with improved performances as anode material for Li-ion batteries. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 2581-5	1.3	11
16	Wet chemical synthesis of Cu/TiO2 nanocomposites with integrated nano-current-collectors as high-rate anode materials in lithium-ion batteries. *Physical Chemistry Chemical Physics*, **2011**, 13, 2014-20	3.6	66
15	Electrospray Synthesis of Silicon/Carbon Nanoporous Microspheres as Improved Anode Materials for Lithium-Ion Batteries. *Journal of Physical Chemistry C*, **2011**, 115, 14148-14154	3.8	163
14	Supercapacitor-battery hybrid energy storage devices from an aqueous nitroxide radical active material. *Science Bulletin*, **2011**, 56, 2433-2436		5
13	Facile synthesis of germanium nanocrystals and their application in organic-inorganic hybrid photodetectors. *Advanced Materials*, **2011**, 23, 3704-7	24	94
12	Cu-Si nanocable arrays as high-rate anode materials for lithium-ion batteries. *Advanced Materials*, **2011**, 23, 4415-20	24	266
11	Enhanced Li+ conductivity in PEO–LiBOB polymer electrolytes by using succinonitrile as a plasticizer. *Solid State Ionics*, **2011**, 186, 1-6	3.3	81

10	Electrode materials for lithium secondary batteries with high energy densities. *Scientia Sinica Chimica*, **2011**, 41, 1229-1239	1.6	7
9	Hierarchically Nanostructured Electrode Materials for Lithium-Ion Batteries **2011**, 237-266		
8	Non-sacrificial template synthesis of Cr2O3 hierarchical core/shell nanospheres and their application as anode materials in lithium-ion batteries. *Journal of Materials Chemistry*, **2010**, 20, 7565		62
7	Facile Synthesis of Mesoporous TiO2 Nanosphere as an Improved Anode Material for Superior High Rate 1.5 V Rechargeable Li Ion Batteries Containing LiFePO4 Cathode. *Journal of Physical Chemistry C*, **2010**, 114, 10308-10313	3.8	109
6	Preparation and li storage properties of hierarchical porous carbon fibers derived from alginic acid. *ChemSusChem*, **2010**, 3, 703-7	8.3	87
5	A Universal Strategy toward Air-Stable and High-Rate O3 Layered Oxide Cathodes for Na-Ion Batteries. *Advanced Functional Materials*,2111466	15.6	5
4	Unraveling the Synergistic Coupling Mechanism of Li+ Transport in an nogel-in-Ceramic Hybrid Solid Electrolyte for Rechargeable Lithium Metal Battery. *Advanced Functional Materials*,2108706	15.6	4
3	Advanced Electrolytes Enabling Safe and Stable Rechargeable Li-Metal Batteries: Progress and Prospects. *Advanced Functional Materials*,2105253	15.6	16
2	Prussian-blue materials: Revealing new opportunities for rechargeable batteries. *Informa* *Materi*,	23.1	3
1	Boron-doped three-dimensional MXene host for durable lithium-metal anode. *Rare Metals*,1	5.5	0