

Guangmin Zhou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

162
papers

26,767
citations

67
h-index

163
g-index

181
ext. papers

30,963
ext. citations

15.8
avg. IF

7.31
L-index

#	Paper	IF	Citations
162	3D Printed Template-Assisted Assembly of Additive-Free TiCT MXene Microlattices with Customized Structures toward High Areal Capacitance.. <i>ACS Nano</i> , 2022 ,	16.7	7
161	Co3O4/Mn3O4 hybrid catalysts with heterointerfaces as bifunctional catalysts for Zn-air batteries. <i>Journal of Energy Chemistry</i> , 2022 , 68, 679-687	12	5
160	Designing Electrophilic and Nucleophilic Dual Centers in the ReS Plane toward Efficient Bifunctional Catalysts for Li-CO Batteries.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	12
159	Direct conversion of degraded LiCoO2 cathode materials into high-performance LiCoO2: A closed-loop green recycling strategy for spent lithium-ion batteries. <i>Energy Storage Materials</i> , 2022 , 45, 768-776	19.4	14
158	Formulating energy density for designing practical lithium-sulfur batteries. <i>Nature Energy</i> , 2022 , 7, 312-319	29.3	31
157	Recycling spent LiNiMnCoO cathodes to bifunctional NiMnCo catalysts for zinc-air batteries.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2202202119	11.5	4
156	Precise separation of spent lithium-ion cells in water without discharging for recycling. <i>Energy Storage Materials</i> , 2021 , 45, 1092-1092	19.4	7
155	High performance and long cycle life neutral zinc-iron flow batteries enabled by zinc-bromide complexation. <i>Energy Storage Materials</i> , 2021 , 44, 433-433	19.4	10
154	Constructing a Stable Interface Layer by Tailoring Solvation Chemistry in Carbonate Electrolytes for High Performance Lithium Metal Batteries. <i>Advanced Materials</i> , 2021 , e2108400	24	21
153	Integrated cooling (i-Cool) textile of heat conduction and sweat transportation for personal perspiration management. <i>Nature Communications</i> , 2021 , 12, 6122	17.4	17
152	Graphene-Supported Atomically Dispersed Metals as Bifunctional Catalysts for Next-Generation Batteries Based on Conversion Reactions. <i>Advanced Materials</i> , 2021 , e2105812	24	23
151	Nitrate Additives Coordinated with Crown Ether Stabilize Lithium Metal Anodes in Carbonate Electrolyte. <i>Advanced Functional Materials</i> , 2021 , 31, 2102128	15.6	22
150	Aligned Carbon-Based Electrodes for Fast-Charging Batteries: A Review. <i>Small</i> , 2021 , 17, e2007676	11	13
149	Lamellar MXene Composite Aerogels with Sandwiched Carbon Nanotubes Enable Stable Lithium-Sulfur Batteries with a High Sulfur Loading. <i>Advanced Functional Materials</i> , 2021 , 31, 2100793	15.6	27
148	Engineering the Active Sites of Graphene Catalyst: From CO Activation to Activate Li-CO Batteries. <i>ACS Nano</i> , 2021 , 15, 9841-9850	16.7	14
147	Regulating the Stable Lithium and Polysulfide Deposition in Batteries by a Gold Nanoparticle Modified Vertical Graphene Host. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100044	1.6	1
146	Unlocking the dissolution mechanism of phosphorus anode for lithium-ion batteries. <i>Energy Storage Materials</i> , 2021 , 37, 417-423	19.4	16

145	Rational design of functional binder systems for high-energy lithium-based rechargeable batteries. <i>Energy Storage Materials</i> , 2021 , 35, 353-377	19.4	13
144	Efficient Reversible Conversion between MoS and Mo/Na S Enabled by Graphene-Supported Single Atom Catalysts. <i>Advanced Materials</i> , 2021 , 33, e2007090	24	46
143	High-Performance Lithium Metal Batteries with a Wide Operating Temperature Range in Carbonate Electrolyte by Manipulating Interfacial Chemistry. <i>ACS Energy Letters</i> , 2021 , 6, 3170-3179	20.1	18
142	Graphene-Based Materials for Flexible Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2021 , 15, 13901-13923	16.7	18
141	Stabilized Solid Electrolyte Interphase Induced by Ultrathin Boron Nitride Membranes for Safe Lithium Metal Batteries. <i>Nano Letters</i> , 2021 , 21, 8447-8454	11.5	10
140	Engineering d-p Orbital Hybridization in Single-Atom Metal-Embedded Three-Dimensional Electrodes for Li-S Batteries. <i>Advanced Materials</i> , 2021 , 33, e2105947	24	41
139	Toward an Understanding of the Reversible Li-CO Batteries over Metal-N-Functionalized Graphene Electrocatalysts.. <i>ACS Nano</i> , 2021 ,	16.7	10
138	Electrode Design with Integration of High Tortuosity and Sulfur-Philicity for High-Performance Lithium-Sulfur Battery. <i>Matter</i> , 2020 , 2, 1605-1620	12.7	48
137	Bidirectional Catalysts for Liquid-Solid Redox Conversion in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2020 , 32, e2000315	24	137
136	Optimized Catalytic WS ₂ /WO ₃ Heterostructure Design for Accelerated Polysulfide Conversion in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2000091	21.8	109
135	A novel battery scheme: Coupling nanostructured phosphorus anodes with lithium sulfide cathodes. <i>Nano Research</i> , 2020 , 13, 1383-1388	10	10
134	Electrochemical generation of liquid and solid sulfur on two-dimensional layered materials with distinct areal capacities. <i>Nature Nanotechnology</i> , 2020 , 15, 231-237	28.7	36
133	Electrotunable liquid sulfur microdroplets. <i>Nature Communications</i> , 2020 , 11, 606	17.4	10
132	Solubility-Dependent Protective Effects of Binary Alloys for Lithium Anode. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2278-2284	6.1	6
131	Controlled One-pot Synthesis of Nickel Single Atoms Embedded in Carbon Nanotube and Graphene Supports with High Loading. <i>ChemNanoMat</i> , 2020 , 6, 1063-1074	3.5	6
130	Supercooled liquid sulfur maintained in three-dimensional current collector for high-performance Li-S batteries. <i>Science Advances</i> , 2020 , 6, eaay5098	14.3	52
129	Vertical Graphenes Grown on a Flexible Graphite Paper as an All-Carbon Current Collector towards Stable Li Deposition. <i>Research</i> , 2020 , 2020, 7163948	7.8	7
128	A Universal Seeding Strategy to Synthesize Single Atom Catalysts on 2D Materials for Electrocatalytic Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1906157	15.6	60

127	High energy density lithium metal batteries enabled by a porous graphene/MgF ₂ framework. <i>Energy Storage Materials</i> , 2020 , 26, 73-82	19.4	42
126	Theoretical Calculation Guided Design of Single-Atom Catalysts toward Fast Kinetic and Long-Life Li-S Batteries. <i>Nano Letters</i> , 2020 , 20, 1252-1261	11.5	194
125	Air-Stable and Dendrite-Free Lithium Metal Anodes Enabled by a Hybrid Interphase of C ₆₀ and Mg. <i>Advanced Energy Materials</i> , 2020 , 10, 1903292	21.8	36
124	Thermal pyrolysis of Si@ZIF-67 into Si@N-doped CNTs towards highly stable lithium storage. <i>Science Bulletin</i> , 2020 , 65, 452-459	10.6	26
123	Intercalation-Induced Conversion Reactions Give High-Capacity Potassium Storage. <i>ACS Nano</i> , 2020 , 14, 14026-14035	16.7	17
122	Ultralight and fire-extinguishing current collectors for high-energy and high-safety lithium-ion batteries. <i>Nature Energy</i> , 2020 , 5, 786-793	62.3	63
121	Status and prospects of porous graphene networks for lithium-sulfur batteries. <i>Materials Horizons</i> , 2020 , 7, 2487-2518	14.4	33
120	A high-volumetric-capacity bismuth nanosheet/graphene electrode for potassium ion batteries. <i>Science China Materials</i> , 2020 , 63, 1920-1928	7.1	16
119	Graphene-Templated Growth of WS ₂ Nanoclusters for Catalytic Conversion of Polysulfides in Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4923-4930	6.1	11
118	Highly Dispersed Cobalt Clusters in Nitrogen-Doped Porous Carbon Enable Multiple Effects for High-Performance Li-S Battery. <i>Advanced Energy Materials</i> , 2020 , 10, 1903550	21.8	114
117	A Lightweight 3D Cu Nanowire Network with Phosphidation Gradient as Current Collector for High-Density Nucleation and Stable Deposition of Lithium. <i>Advanced Materials</i> , 2019 , 31, e1904991	24	64
116	A Two-Dimensional MoS ₂ Catalysis Transistor by Solid-State Ion Gating Manipulation and Adjustment (SIGMA). <i>Nano Letters</i> , 2019 , 19, 7293-7300	11.5	24
115	Elaboration of Aggregated Polysulfide Phases: From Molecules to Large Clusters and Solid Phases. <i>Nano Letters</i> , 2019 , 19, 7487-7493	11.5	5
114	Nanowires for Electrochemical Energy Storage. <i>Chemical Reviews</i> , 2019 , 119, 11042-11109	68.1	167
113	Realizing stable lithium deposition by in situ grown Cu ₂ S nanowires inside commercial Cu foam for lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 727-732	13	47
112	An air-stable and waterproof lithium metal anode enabled by wax composite packaging. <i>Science Bulletin</i> , 2019 , 64, 910-917	10.6	36
111	Capture and Catalytic Conversion of Polysulfides by In Situ Built TiO ₂ -MXene Heterostructures for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1900219	21.8	291
110	Size Effects on the Mechanical Properties of Nanoporous Graphene Networks. <i>Advanced Functional Materials</i> , 2019 , 29, 1900311	15.6	13

109	Composite lithium electrode with mesoscale skeleton via simple mechanical deformation. <i>Science Advances</i> , 2019 , 5, eaau5655	14.3	57
108	Seeding lithium seeds towards uniform lithium deposition for stable lithium metal anodes. <i>Nano Energy</i> , 2019 , 61, 47-53	17.1	48
107	Self-Selective Catalyst Synthesis for CO ₂ Reduction. <i>Joule</i> , 2019 , 3, 1927-1936	27.8	35
106	Investigation of lithium content changes to understand the capacity fading mechanism in LiFePO ₄ /graphite battery. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 853, 113544	4.1	4
105	l-Cysteine-Modified Acacia Gum as a Multifunctional Binder for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47956-47962	9.5	7
104	An Interconnected Channel-Like Framework as Host for Lithium Metal Composite Anodes. <i>Advanced Energy Materials</i> , 2019 , 9, 1802720	21.8	70
103	Improving a Mg/S Battery with YCl Additive and Magnesium Polysulfide. <i>Advanced Science</i> , 2019 , 6, 1800936	9.6	33
102	Mitigation of Shuttle Effect in Li-S Battery Using a Self-Assembled Ultrathin Molybdenum Disulfide Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3080-3086	9.5	43
101	Direct electrochemical generation of supercooled sulfur microdroplets well below their melting temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 765-770	11.5	24
100	Stretchable fiber-shaped lithium metal anode. <i>Energy Storage Materials</i> , 2019 , 22, 179-184	19.4	43
99	Development and validation of polar RP-HPLC method for screening for ectoine high-yield strains in marine bacteria with green chemistry. <i>Natural Product Research</i> , 2019 , 33, 1122-1126	2.3	3
98	A Nacre-Like Carbon Nanotube Sheet for High Performance Li-Polysulfide Batteries with High Sulfur Loading. <i>Advanced Science</i> , 2018 , 5, 1800384	13.6	30
97	Vertically Aligned Lithiophilic CuO Nanosheets on a Cu Collector to Stabilize Lithium Deposition for Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1703404	21.8	198
96	A non-nucleophilic mono-Mg ²⁺ electrolyte for rechargeable Mg/S battery. <i>Energy Storage Materials</i> , 2018 , 14, 253-257	19.4	30
95	Quantitative investigation of polysulfide adsorption capability of candidate materials for Li-S batteries. <i>Energy Storage Materials</i> , 2018 , 13, 241-246	19.4	96
94	An Aqueous Inorganic Polymer Binder for High Performance Lithium-Sulfur Batteries with Flame-Retardant Properties. <i>ACS Central Science</i> , 2018 , 4, 260-267	16.8	107
93	Nanoporous polyethylene microfibrils for large-scale radiative cooling fabric. <i>Nature Sustainability</i> , 2018 , 1, 105-112	22.1	206
92	In Situ Investigation on the Nanoscale Capture and Evolution of Aerosols on Nanofibers. <i>Nano Letters</i> , 2018 , 18, 1130-1138	11.5	41

91	A general prelithiation approach for group IV elements and corresponding oxides. <i>Energy Storage Materials</i> , 2018 , 10, 275-281	19.4	56
90	Catalytic Effects in Lithium-Sulfur Batteries: Promoted Sulfur Transformation and Reduced Shuttle Effect. <i>Advanced Science</i> , 2018 , 5, 1700270	13.6	471
89	Easy fabrication of flexible and multilayer nanocarbon-based cathodes with a high unreal sulfur loading by electrostatic spraying for lithium-sulfur batteries. <i>Carbon</i> , 2018 , 138, 18-25	10.4	18
88	Facilitation of sulfur evolution reaction by pyridinic nitrogen doped carbon nanoflakes for highly-stable lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2018 , 10, 1-9	19.4	157
87	Morphology and property investigation of primary particulate matter particles from different sources. <i>Nano Research</i> , 2018 , 11, 3182-3192	10	33
86	Reversible and selective ion intercalation through the top surface of few-layer MoS. <i>Nature Communications</i> , 2018 , 9, 5289	17.4	70
85	Core-Shell Nanofibrous Materials with High Particulate Matter Removal Efficiencies and Thermally Triggered Flame Retardant Properties. <i>ACS Central Science</i> , 2018 , 4, 894-898	16.8	44
84	Catalytic oxidation of Li ₂ S on the surface of metal sulfides for Li-S batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 840-845	11.5	742
83	Self-healing SEI enables full-cell cycling of a silicon-majority anode with a coulombic efficiency exceeding 99.9%. <i>Energy and Environmental Science</i> , 2017 , 10, 580-592	35.4	335
82	Propelling polysulfides transformation for high-rate and long-life lithium-sulfur batteries. <i>Nano Energy</i> , 2017 , 33, 306-312	17.1	277
81	Sulfiphilic Nickel Phosphosulfide Enabled Li S Impregnation in 3D Graphene Cages for Li-S Batteries. <i>Advanced Materials</i> , 2017 , 29, 1603366	24	127
80	Revealing Localized Electrochemical Transition of Sulfur in Sub-nanometer Confinement. <i>Springer Theses</i> , 2017 , 23-37	0.1	1
79	Flexible Nanostructured Sulfur/Carbon Nanotube Cathode with High-Rate Performance for LiS Batteries. <i>Springer Theses</i> , 2017 , 39-55	0.1	
78	Fibrous Hybrid of Graphene and Sulfur Nanocrystals for High-Performance Lithium-Sulfur Batteries. <i>Springer Theses</i> , 2017 , 57-74	0.1	1
77	Graphene/Pure Sulfur Sandwich Structure for Ultrafast, Long-Life Lithium-Sulfur Batteries. <i>Springer Theses</i> , 2017 , 75-94	0.1	1
76	A Graphene Foam Electrode with High Sulfur Loading for Flexible and High-Energy LiS Batteries. <i>Springer Theses</i> , 2017 , 95-112	0.1	
75	Thermal Management in Nanofiber-Based Face Mask. <i>Nano Letters</i> , 2017 , 17, 3506-3510	11.5	158
74	A Dual-Function Na SO Template Directed Formation of Cathode Materials with a High Content of Sulfur Nanodots for Lithium-Sulfur Batteries. <i>Small</i> , 2017 , 13, 1700358	11	20

73	Conformal Lithium Fluoride Protection Layer on Three-Dimensional Lithium by Nonhazardous Gaseous Reagent Freon. <i>Nano Letters</i> , 2017 , 17, 3731-3737	11.5	270
72	Solid-State Lithium-Sulfur Batteries Operated at 37 °C with Composites of Nanostructured LiLaZrO/Carbon Foam and Polymer. <i>Nano Letters</i> , 2017 , 17, 2967-2972	11.5	297
71	Surface Fluorination of Reactive Battery Anode Materials for Enhanced Stability. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11550-11558	16.4	270
70	A Respiration-Derived Posture Method Based on Dual-Channel Respiration Impedance Signals. <i>IEEE Access</i> , 2017 , 5, 17514-17524	3.5	4
69	Enhanced Cycling Stability of Sulfur Electrodes through Effective Binding of Pyridine-Functionalized Polymer. <i>ACS Energy Letters</i> , 2017 , 2, 2454-2462	20.1	22
68	Reactivation of dead sulfide species in lithium polysulfide flow battery for grid scale energy storage. <i>Nature Communications</i> , 2017 , 8, 462	17.4	38
67	Stretchable Lithium-Ion Batteries Enabled by Device-Scaled Wavy Structure and Elastic-Sticky Separator. <i>Advanced Energy Materials</i> , 2017 , 7, 1701076	21.8	120
66	Design of Complex Nanomaterials for Energy Storage: Past Success and Future Opportunity. <i>Accounts of Chemical Research</i> , 2017 , 50, 2895-2905	24.3	198
65	Twinborn TiO ₂ /TiN heterostructures enabling smooth trapping/diffusion/conversion of polysulfides towards ultralong life lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2017 , 10, 1694-1703	35.4	647
64	Air-stable and freestanding lithium alloy/graphene foil as an alternative to lithium metal anodes. <i>Nature Nanotechnology</i> , 2017 , 12, 993-999	28.7	290
63	An in-plane heterostructure of graphene and titanium carbide for efficient polysulfide confinement. <i>Nano Energy</i> , 2017 , 39, 291-296	17.1	117
62	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	20.1	180
61	Twin-functional graphene oxide: compacting with Fe ₂ O ₃ into a high volumetric capacity anode for lithium ion battery. <i>Energy Storage Materials</i> , 2017 , 6, 98-103	19.4	56
60	In Situ Electrochemically Derived Nanoporous Oxides from Transition Metal Dichalcogenides for Active Oxygen Evolution Catalysts. <i>Nano Letters</i> , 2016 , 16, 7588-7596	11.5	152
59	Improved Lithium Ionic Conductivity in Composite Polymer Electrolytes with Oxide-Ion Conducting Nanowires. <i>ACS Nano</i> , 2016 , 10, 11407-11413	16.7	216
58	Entrapment of Polysulfides by a Black-Phosphorus-Modified Separator for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2016 , 28, 9797-9803	24	371
57	Efficient solar-driven water splitting by nanocone BiVO ₄ -perovskite tandem cells. <i>Science Advances</i> , 2016 , 2, e1501764	14.3	281
56	Balancing surface adsorption and diffusion of lithium-polysulfides on nonconductive oxides for lithium-sulfur battery design. <i>Nature Communications</i> , 2016 , 7, 11203	17.4	866

55	Durability of the $\text{Li}_{1+x}\text{Ti}_2\text{Al}_x(\text{PO}_4)_3$ Solid Electrolyte in Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2016 , 1, 1080-1085	20.1	67
54	3D Porous Sponge-Inspired Electrode for Stretchable Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016 , 28, 3578-83	24	199
53	High-Performance Lithium-Sulfur Batteries with a Self-Supported, 3D Li_2S -Doped Graphene Aerogel Cathodes. <i>Advanced Energy Materials</i> , 2016 , 6, 1501355	21.8	166
52	Metallurgically lithiated SiO_x anode with high capacity and ambient air compatibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7408-13	11.5	103
51	A Carbon-Sulfur Hybrid with Pomegranate-like Structure for Lithium-Sulfur Batteries. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1343-7	4.5	16
50	Stabilizing sulfur cathodes using nitrogen-doped graphene as a chemical immobilizer for Li S batteries. <i>Carbon</i> , 2016 , 108, 120-126	10.4	115
49	Scalable Clean Exfoliation of High-Quality Few-Layer Black Phosphorus for a Flexible Lithium Ion Battery. <i>Advanced Materials</i> , 2016 , 28, 510-7	24	289
48	Understanding the interactions between lithium polysulfides and N-doped graphene using density functional theory calculations. <i>Nano Energy</i> , 2016 , 25, 203-210	17.1	274
47	Dual-functional hard template directed one-step formation of a hierarchical porous carbon-carbon nanotube hybrid for lithium-sulfur batteries. <i>Chemical Communications</i> , 2016 , 52, 12143-12146	5.8	51
46	Electrostatic-spraying an ultrathin, multifunctional and compact coating onto a cathode for a long-life and high-rate lithium-sulfur battery. <i>Nano Energy</i> , 2016 , 30, 138-145	17.1	65
45	Sulfur confined in nitrogen-doped microporous carbon used in a carbonate-based electrolyte for long-life, safe lithium-sulfur batteries. <i>Carbon</i> , 2016 , 109, 1-6	10.4	98
44	Li_2S Batteries: A Flexible Sulfur-Graphene-Polypropylene Separator Integrated Electrode for Advanced Li_2S Batteries (Adv. Mater. 4/2015). <i>Advanced Materials</i> , 2015 , 27, 590-590	24	4
43	Long-life Li/polysulphide batteries with high sulphur loading enabled by lightweight three-dimensional nitrogen/sulphur-codoped graphene sponge. <i>Nature Communications</i> , 2015 , 6, 7760	17.4	802
42	A Principal Component Analysis Based Data Fusion Method for Estimation of Respiratory Volume. <i>IEEE Sensors Journal</i> , 2015 , 15, 4355-4364	4	9
41	N and S co-doped porous carbon spheres prepared using L-cysteine as a dual functional agent for high-performance lithium-sulfur batteries. <i>Chemical Communications</i> , 2015 , 51, 17720-3	5.8	109
40	A graphene foam electrode with high sulfur loading for flexible and high energy Li-S batteries. <i>Nano Energy</i> , 2015 , 11, 356-365	17.1	476
39	A flexible sulfur-graphene-polypropylene separator integrated electrode for advanced Li-S batteries. <i>Advanced Materials</i> , 2015 , 27, 641-7	24	466
38	Highly Nitridated Graphene- Li_2S Cathodes with Stable Modulated Cycles. <i>Advanced Energy Materials</i> , 2015 , 5, 1501369	21.8	87

37	Graphene-based integrated electrodes for flexible lithium ion batteries. <i>2D Materials</i> , 2015 , 2, 024004	5.9	37
36	Dual-Confined Flexible Sulfur Cathodes Encapsulated in Nitrogen-Doped Double-Shelled Hollow Carbon Spheres and Wrapped with Graphene for LiS Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1402263	21.8	402
35	Localized polyselenides in a graphene-coated polymer separator for high rate and ultralong life lithium-selenium batteries. <i>Chemical Communications</i> , 2015 , 51, 3667-70	5.8	56
34	A high-density graphene-sulfur assembly: a promising cathode for compact Li-S batteries. <i>Nanoscale</i> , 2015 , 7, 5592-7	7.7	83
33	Free-standing TiO ₂ nanowire-embedded graphene hybrid membrane for advanced Li/dissolved polysulfide batteries. <i>Nano Energy</i> , 2015 , 12, 240-249	17.1	225
32	Progress in flexible lithium batteries and future prospects. <i>Energy and Environmental Science</i> , 2014 , 7, 1307-1338	35.4	1103
31	Hierarchical Graphene/Carbon Fiber Composite Paper as a Flexible Lateral Heat Spreader. <i>Advanced Functional Materials</i> , 2014 , 24, 4222-4228	15.6	145
30	A graphene-pure-sulfur sandwich structure for ultrafast, long-life lithium-sulfur batteries. <i>Advanced Materials</i> , 2014 , 26, 625-31, 664	24	842
29	Monolithic Fe ₂ O ₃ /graphene hybrid for highly efficient lithium storage and arsenic removal. <i>Carbon</i> , 2014 , 67, 500-507	10.4	124
28	Graphene: Hierarchical Graphene/Carbon Fiber Composite Paper as a Flexible Lateral Heat Spreader (Adv. Funct. Mater. 27/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 4221-4221	15.6	1
27	Tailoring Microstructure of Graphene-Based Membrane by Controlled Removal of Trapped Water Inspired by the Phase Diagram. <i>Advanced Functional Materials</i> , 2014 , 24, 3456-3463	15.6	61
26	Visualizing the roles of graphene for excellent lithium storage. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17808-17814	13	44
25	Batteries: A Graphene/Pure-Sulfur Sandwich Structure for Ultrafast, Long-Life Lithium/Sulfur Batteries (Adv. Mater. 4/2014). <i>Advanced Materials</i> , 2014 , 26, 664-664	24	16
24	Robustness evaluation of heart rate variability measures for age gender related autonomic changes in healthy volunteers. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2014 , 37, 567-74	1.9	13
23	Co ₃ O ₄ mesoporous nanostructures@graphene membrane as an integrated anode for long-life lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 255, 52-58	8.9	92
22	A new approach to detect congestive heart failure using short-term heart rate variability measures. <i>PLoS ONE</i> , 2014 , 9, e93399	3.7	49
21	TiO ₂ /graphene sandwich paper as an anisotropic electrode for high rate lithium ion batteries. <i>Nanoscale</i> , 2013 , 5, 7780-4	7.7	62
20	The examination of graphene oxide for rechargeable lithium storage as a novel cathode material. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3607	13	61

19	Effects of oxygen vacancies on the electrochemical performance of tin oxide. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1536-1539	13	101
18	Nanosize SnO ₂ confined in the porous shells of carbon cages for kinetically efficient and long-term lithium storage. <i>Nanoscale</i> , 2013 , 5, 1576-82	7.7	68
17	Octahedral Co ₃ O ₄ particles threaded by carbon nanotube arrays as integrated structure anodes for lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 5582-7	3.6	46
16	A Self-Standing and Flexible Electrode of Li ₄ Ti ₅ O ₁₂ Nanosheets with a N-Doped Carbon Coating for High Rate Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2013 , 23, 5429-5435	15.6	122
15	Carbon/Sulfur composites for Li/S batteries: status and prospects. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9382	13	664
14	Fibrous hybrid of graphene and sulfur nanocrystals for high-performance lithium-sulfur batteries. <i>ACS Nano</i> , 2013 , 7, 5367-75	16.7	670
13	A microporous-mesoporous carbon with graphitic structure for a high-rate stable sulfur cathode in carbonate solvent-based Li-S batteries. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8703-10	3.6	258
12	A nanosized Fe ₂ O ₃ decorated single-walled carbon nanotube membrane as a high-performance flexible anode for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17942		143
11	Graphene/metal oxide composite electrode materials for energy storage. <i>Nano Energy</i> , 2012 , 1, 107-131	17.1	1507
10	Oxygen bridges between NiO nanosheets and graphene for improvement of lithium storage. <i>ACS Nano</i> , 2012 , 6, 3214-23	16.7	866
9	A flexible nanostructured sulphur/carbon nanotube cathode with high rate performance for Li-S batteries. <i>Energy and Environmental Science</i> , 2012 , 5, 8901	35.4	422
8	Hollow carbon cage with nanocapsules of graphitic shell/nickel core as an anode material for high rate lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11252		64
7	Graphene anchored with Co ₃ O ₄ nanoparticles as anode of lithium ion batteries with enhanced reversible capacity and cyclic performance. <i>ACS Nano</i> , 2010 , 4, 3187-94	16.7	2201
6	Graphene-Wrapped Fe ₃ O ₄ Anode Material with Improved Reversible Capacity and Cyclic Stability for Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2010 , 22, 5306-5313	9.6	1660
5	Anchoring Hydrous RuO ₂ on Graphene Sheets for High-Performance Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2010 , 20, 3595-3602	15.6	1033
4	Dendrite-Free Non-Newtonian Semisolid Lithium Metal Anode. <i>ACS Energy Letters</i> , 3761-3768	20.1	3
3	Dendrite-Free Lithium Deposition and Stripping Regulated by Aligned Microchannels for Stable Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2200682	15.6	7
2	Regulating Polysulfide Redox Kinetics on a Self-Healing Electrode for High-Performance Flexible Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2110313	15.6	7

- 1 Mo-O-C Between MoS₂ and Graphene Toward Accelerated Polysulfide Catalytic Conversion for Advanced Lithium-Sulfur Batteries. *Advanced Science*, 2201579 13.6 3