

Yi Cui

List of Publications by Year in descending order

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502
papers

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citations

23

198
h-index

58

390
g-index

511
all docs

511
docs citations

511
times ranked

74711
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance lithium battery anodes using silicon nanowires. <i>Nature Nanotechnology</i> , 2008, 3, 31-35.	32.1	5,860
2	Reviving the lithium metal anode for high-energy batteries. <i>Nature Nanotechnology</i> , 2017, 12, 194-206.	32.1	4,804
3	The path towards sustainable energy. <i>Nature Materials</i> , 2017, 16, 16-22.	28.1	3,288
4	Stable cycling of double-walled silicon nanotube battery anodes through solidâ€“electrolyte interphase control. <i>Nature Nanotechnology</i> , 2012, 7, 310-315.	32.1	2,144
5	A pomegranate-inspired nanoscale design for large-volume-change lithium battery anodes. <i>Nature Nanotechnology</i> , 2014, 9, 187-192.	32.1	2,109
6	Pathways for practical high-energy long-cycling lithium metal batteries. <i>Nature Energy</i> , 2019, 4, 180-186.	40.3	2,101
7	High Performance Silicon Nanowire Field Effect Transistors. <i>Nano Letters</i> , 2003, 3, 149-152.	9.3	2,010
8	Designing high-energy lithiumâ€“sulfur batteries. <i>Chemical Society Reviews</i> , 2016, 45, 5605-5634.	39.2	2,008
9	Graphene-Wrapped Sulfur Particles as a Rechargeable Lithiumâ€“Sulfur Battery Cathode Material with High Capacity and Cycling Stability. <i>Nano Letters</i> , 2011, 11, 2644-2647.	9.3	1,973
10	Sulphurâ€“TiO ₂ yolkâ€“shell nanoarchitecture with internal void space for long-cycle lithiumâ€“sulphur batteries. <i>Nature Communications</i> , 2013, 4, 1331.	13.0	1,884
11	Designing nanostructured Si anodes for high energy lithium ion batteries. <i>Nano Today</i> , 2012, 7, 414-429.	12.1	1,874
12	Highly Polarized Photoluminescence and Photodetection from Single Indium Phosphide Nanowires. <i>Science</i> , 2001, 293, 1455-1457.	12.8	1,744
13	Solution-Processed Metal Nanowire Mesh Transparent Electrodes. <i>Nano Letters</i> , 2008, 8, 689-692.	9.3	1,713
14	A Yolk-Shell Design for Stabilized and Scalable Li-Ion Battery Alloy Anodes. <i>Nano Letters</i> , 2012, 12, 3315-3321.	9.3	1,587
15	Layered reduced graphene oxide with nanoscale interlayer gaps as a stable host for lithium metal anodes. <i>Nature Nanotechnology</i> , 2016, 11, 626-632.	32.1	1,557
16	Interconnected hollow carbon nanospheres for stable lithium metal anodes. <i>Nature Nanotechnology</i> , 2014, 9, 618-623.	32.1	1,535
17	Selective deposition and stable encapsulation of lithium through heterogeneous seeded growth. <i>Nature Energy</i> , 2016, 1, .	40.3	1,516
18	Promises and challenges of nanomaterials for lithium-based rechargeable batteries. <i>Nature Energy</i> , 2016, 1, .	40.3	1,388

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19	Silicon Nanotube Battery Anodes. Nano Letters, 2009, 9, 3844-3847.	9.3	1,362
20	A phosphorene-graphene hybrid material as a high-capacity anode for sodium-ion batteries. Nature Nanotechnology, 2015, 10, 980-985.	32.1	1,287
21	Interconnected Silicon Hollow Nanospheres for Lithium-Ion Battery Anodes with Long Cycle Life. Nano Letters, 2011, 11, 2949-2954.	9.3	1,278
22	The synergetic effect of lithium polysulfide and lithium nitrate to prevent lithium dendrite growth. Nature Communications, 2015, 6, 7436.	13.0	1,250
23	25th Anniversary Article: Understanding the Lithiation of Silicon and Other Alloying Anodes for Lithium-Ion Batteries. Advanced Materials, 2013, 25, 4966-4985.	21.5	1,233
24	Hollow Carbon Nanofiber-Encapsulated Sulfur Cathodes for High Specific Capacity Rechargeable Lithium Batteries. Nano Letters, 2011, 11, 4462-4467.	9.3	1,194
25	Stable Li-ion battery anodes by in-situ polymerization of conducting hydrogel to conformally coat silicon nanoparticles. Nature Communications, 2013, 4, 1943.	13.0	1,138
26	Balancing surface adsorption and diffusion of lithium-polysulfides on nonconductive oxides for lithium-sulfur battery design. Nature Communications, 2016, 7, 11203.	13.0	1,136
27	High-efficiency oxygen reduction to hydrogen peroxide catalysed by oxidized carbon materials. Nature Catalysis, 2018, 1, 156-162.	35.0	1,120
28	Energy storage: The future enabled by nanomaterials. Science, 2019, 366, .	12.8	1,119
29	Crystalline-Amorphous Core-Shell Silicon Nanowires for High Capacity and High Current Battery Electrodes. Nano Letters, 2009, 9, 491-495.	9.3	1,110
30	Nanoscale Nucleation and Growth of Electrodeposited Lithium Metal. Nano Letters, 2017, 17, 1132-1139.	9.3	1,081
31	Diameter-controlled synthesis of single-crystal silicon nanowires. Applied Physics Letters, 2001, 78, 2214-2216.	3.4	1,078
32	Challenges and opportunities towards fast-charging battery materials. Nature Energy, 2019, 4, 540-550.	40.3	1,053
33	Atomic structure of sensitive battery materials and interfaces revealed by cryo-electron microscopy. Science, 2017, 358, 506-510.	12.8	1,039
34	Self-healing chemistry enables the stable operation of silicon microparticle anodes for high-energy lithium-ion batteries. Nature Chemistry, 2013, 5, 1042-1048.	14.2	1,031
35	Catalytic oxidation of Li_2S on the surface of metal sulfides for Li-S batteries. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 840-845.	7.2	1,030
36	Hierarchical nanostructured conducting polymer hydrogel with high electrochemical activity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9287-9292.	7.2	1,025

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37	Polarization-sensitive broadband photodetector using a black phosphorus vertical p-n junction. <i>Nature Nanotechnology</i> , 2015, 10, 707-713.	32.1	1,007
38	Bifunctional non-noble metal oxide nanoparticle electrocatalysts through lithium-induced conversion for overall water splitting. <i>Nature Communications</i> , 2015, 6, 7261.	13.0	1,006
39	Self-limited plasmonic welding of silver nanowire junctions. <i>Nature Materials</i> , 2012, 11, 241-249.	28.1	1,002
40	Toward N-Doped Graphene via Solvothermal Synthesis. <i>Chemistry of Materials</i> , 2011, 23, 1188-1193.	6.9	984
41	Carbon-Silicon Core-Shell Nanowires as High Capacity Electrode for Lithium Ion Batteries. <i>Nano Letters</i> , 2009, 9, 3370-3374.	9.3	967
42	Materials for lithium-ion battery safety. <i>Science Advances</i> , 2018, 4, eaas9820.	10.5	958
43	First-row transition metal dichalcogenide catalysts for hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2013, 6, 3553.	31.2	946
44	Controlled Growth and Structures of Molecular-Scale Silicon Nanowires. <i>Nano Letters</i> , 2004, 4, 433-436.	9.3	892
45	Doping and Electrical Transport in Silicon Nanowires. <i>Journal of Physical Chemistry B</i> , 2000, 104, 5213-5216.	2.7	885
46	Flexible and Stretchable Energy Storage: Recent Advances and Future Perspectives. <i>Advanced Materials</i> , 2017, 29, 1603436.	21.5	872
47	A transparent electrode based on a metal nanotrough network. <i>Nature Nanotechnology</i> , 2013, 8, 421-425.	32.1	851
48	Improving the Performance of Lithium-Sulfur Batteries by Conductive Polymer Coating. <i>ACS Nano</i> , 2011, 5, 9187-9193.	14.9	815
49	Light management for photovoltaics using high-index nanostructures. <i>Nature Materials</i> , 2014, 13, 451-460.	28.1	796
50	High Ionic Conductivity of Composite Solid Polymer Electrolyte via In Situ Synthesis of Monodispersed SiO ₂ Nanospheres in Poly(ethylene oxide). <i>Nano Letters</i> , 2016, 16, 459-465.	9.3	791
51	Robust and conductive two-dimensional metal-organic frameworks with exceptionally high volumetric and areal capacitance. <i>Nature Energy</i> , 2018, 3, 30-36.	40.3	786
52	Ionic Conductivity Enhancement of Polymer Electrolytes with Ceramic Nanowire Fillers. <i>Nano Letters</i> , 2015, 15, 2740-2745.	9.3	782
53	Understanding the Anchoring Effect of Two-Dimensional Layered Materials for Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2015, 15, 3780-3786.	9.3	779
54	Ultrathin, flexible, solid polymer composite electrolyte enabled with aligned nanoporous host for lithium batteries. <i>Nature Nanotechnology</i> , 2019, 14, 705-711.	32.1	773

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55	Radiative human body cooling by nanoporous polyethylene textile. <i>Science</i> , 2016, 353, 1019-1023.	12.8	764
56	Enhancing ionic conductivity in composite polymer electrolytes with well-aligned ceramic nanowires. <i>Nature Energy</i> , 2017, 2, .	40.3	763
57	Composite lithium metal anode by melt infusion of lithium into a 3D conducting scaffold with lithiophilic coating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2862-2867.	7.2	755
58	An Artificial Solid Electrolyte Interphase with High Li ⁺ Ion Conductivity, Mechanical Strength, and Flexibility for Stable Lithium Metal Anodes. <i>Advanced Materials</i> , 2017, 29, 1605531.	21.5	747
59	Lithium-coated polymeric matrix as a minimum volume-change and dendrite-free lithium metal anode. <i>Nature Communications</i> , 2016, 7, 10992.	13.0	745
60	A Highly Reversible Room-Temperature Sodium Metal Anode. <i>ACS Central Science</i> , 2015, 1, 449-455.	11.6	733
61	Porous MoO ₂ Nanosheets as Non-noble Bifunctional Electrocatalysts for Overall Water Splitting. <i>Advanced Materials</i> , 2016, 28, 3785-3790.	21.5	729
62	Transparent air filter for high-efficiency PM2.5 capture. <i>Nature Communications</i> , 2015, 6, 6205.	13.0	690
63	Rapid water disinfection using vertically aligned MoS ₂ nanofilms and visible light. <i>Nature Nanotechnology</i> , 2016, 11, 1098-1104.	32.1	681
64	In Situ TEM of Two-Phase Lithiation of Amorphous Silicon Nanospheres. <i>Nano Letters</i> , 2013, 13, 758-764.	9.3	680
65	Superconductivity in an infinite-layer nickelate. <i>Nature</i> , 2019, 572, 624-627.	28.1	673
66	Amphiphilic Surface Modification of Hollow Carbon Nanofibers for Improved Cycle Life of Lithium Sulfur Batteries. <i>Nano Letters</i> , 2013, 13, 1265-1270.	9.3	668
67	Electrospun Metal Nanofiber Webs as High-Performance Transparent Electrode. <i>Nano Letters</i> , 2010, 10, 4242-4248.	9.3	660
68	Engineering Empty Space between Si Nanoparticles for Lithium-Ion Battery Anodes. <i>Nano Letters</i> , 2012, 12, 904-909.	9.3	658
69	Strong Sulfur Binding with Conducting Magn ⁺ Li-Phase TiO ₂ Nanomaterials for Improving Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2014, 14, 5288-5294.	9.3	643
70	Molecular design for electrolyte solvents enabling energy-dense and long-cycling lithium metal batteries. <i>Nature Energy</i> , 2020, 5, 526-533.	40.3	642
71	Nanostructured conductive polypyrrole hydrogels as high-performance, flexible supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6086-6091.	10.4	624
72	Monolithic solid electrolyte interphases formed in fluorinated orthoformate-based electrolytes minimize Li depletion and pulverization. <i>Nature Energy</i> , 2019, 4, 796-805.	40.3	621

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73	New Nanostructured Li ₂ S/Silicon Rechargeable Battery with High Specific Energy. Nano Letters, 2010, 10, 1486-1491.	9.3	612
74	Growth of conformal graphene cages on micrometre-sized silicon particles as stable battery anodes. Nature Energy, 2016, 1, .	40.3	609
75	Understanding the Role of Different Conductive Polymers in Improving the Nanostructured Sulfur Cathode Performance. Nano Letters, 2013, 13, 5534-5540.	9.3	601
76	Transition-metal doped edge sites in vertically aligned MoS ₂ catalysts for enhanced hydrogen evolution. Nano Research, 2015, 8, 566-575.	10.5	594
77	Absorption Enhancement in Ultrathin Crystalline Silicon Solar Cells with Antireflection and Light-Trapping Nanocone Gratings. Nano Letters, 2012, 12, 1616-1619.	9.3	592
78	Designing polymers for advanced battery chemistries. Nature Reviews Materials, 2019, 4, 312-330.	49.6	579
79	Scalable synthesis of silicon-nanoparticle-embedded graphite for high-energy lithium-ion batteries. Nature Energy, 2016, 1, .	40.3	563
80	Surface chemistry and morphology of the solid electrolyte interphase on silicon nanowire lithium-ion battery anodes. Journal of Power Sources, 2009, 189, 1132-1140.	7.9	559
81	Nanowire Solar Cells. Annual Review of Materials Research, 2011, 41, 269-295.	9.5	556
82	Two-dimensional layered transition metal disulphides for effective encapsulation of high-capacity lithium sulphide cathodes. Nature Communications, 2014, 5, 5017.	13.0	530
83	Studying the Kinetics of Crystalline Silicon Nanoparticle Lithiation with In Situ Transmission Electron Microscopy. Advanced Materials, 2012, 24, 6034-6041.	21.5	529
84	High-Performance Anode Materials for Rechargeable Lithium-Ion Batteries. Electrochemical Energy Reviews, 2018, 1, 35-53.	26.0	514
85	Direct and continuous strain control of catalysts with tunable battery electrode materials. Science, 2016, 354, 1031-1036.	12.8	512
86	Impedance Analysis of Silicon Nanowire Lithium Ion Battery Anodes. Journal of Physical Chemistry C, 2009, 113, 11390-11398.	3.2	510
87	Polymer Nanofiber-Guided Uniform Lithium Deposition for Battery Electrodes. Nano Letters, 2015, 15, 2910-2916.	9.3	495
88	Improved lithium-sulfur batteries with a conductive coating on the separator to prevent the accumulation of inactive S-related species at the cathode-separator interface. Energy and Environmental Science, 2014, 7, 3381-3390.	31.2	476
89	In Operando X-ray Diffraction and Transmission X-ray Microscopy of Lithium Sulfur Batteries. Journal of the American Chemical Society, 2012, 134, 6337-6343.	14.2	475
90	Lithium Metal Anodes with an Adaptive Solid-Liquid Interfacial Protective Layer. Journal of the American Chemical Society, 2017, 139, 4815-4820.	14.2	460

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91	Nanofiber Air Filters with High-Temperature Stability for Efficient PM _{2.5} Removal from the Pollution Sources. <i>Nano Letters</i> , 2016, 16, 3642-3649.	9.3	456
92	Entrapment of Polysulfides by a Black Phosphorus Modified Separator for Lithium Sulfur Batteries. <i>Advanced Materials</i> , 2016, 28, 9797-9803.	21.5	453
93	Manganese hexacyanomanganate open framework as a high-capacity positive electrode material for sodium-ion batteries. <i>Nature Communications</i> , 2014, 5, 5280.	13.0	446
94	Full open-framework batteries for stationary energy storage. <i>Nature Communications</i> , 2014, 5, 3007.	13.0	440
95	Metal nanogrids, nanowires, and nanofibers for transparent electrodes. <i>MRS Bulletin</i> , 2011, 36, 760-765.	3.5	434
96	Nonfilling Carbon Coating of Porous Silicon Micrometer-Sized Particles for High-Performance Lithium Battery Anodes. <i>ACS Nano</i> , 2015, 9, 2540-2547.	14.9	433
97	Transparent and conductive paper from nanocellulose fibers. <i>Energy and Environmental Science</i> , 2013, 6, 513-518.	31.2	431
98	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.	31.2	421
99	Personal Thermal Management by Metallic Nanowire-Coated Textile. <i>Nano Letters</i> , 2015, 15, 365-371.	9.3	415
100	Stable cycling of lithium sulfide cathodes through strong affinity with a bifunctional binder. <i>Chemical Science</i> , 2013, 4, 3673.	7.6	412
101	Electrochemical tuning of layered lithium transition metal oxides for improvement of oxygen evolution reaction. <i>Nature Communications</i> , 2014, 5, 4345.	13.0	411
102	Roll-to-Roll Encapsulation of Metal Nanowires between Graphene and Plastic Substrate for High-Performance Flexible Transparent Electrodes. <i>Nano Letters</i> , 2015, 15, 4206-4213.	9.3	410
103	Subzero Temperature Cathode for a Sodium Ion Battery. <i>Advanced Materials</i> , 2016, 28, 7243-7248.	21.5	406
104	A dual-mode textile for human body radiative heating and cooling. <i>Science Advances</i> , 2017, 3, e1700895.	10.5	399
105	Surface Fluorination of Reactive Battery Anode Materials for Enhanced Stability. <i>Journal of the American Chemical Society</i> , 2017, 139, 11550-11558.	14.2	398
106	A high tap density secondary silicon particle anode fabricated by scalable mechanical pressing for lithium-ion batteries. <i>Energy and Environmental Science</i> , 2015, 8, 2371-2376.	31.2	397
107	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.	9.3	394
108	Rechargeable O ₂ batteries with a covalently coupled MnCo ₂ O ₄ -graphene hybrid as an oxygen cathode catalyst. <i>Energy and Environmental Science</i> , 2012, 5, 7931.	31.2	393

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109	A Silica-Aerogel-Reinforced Composite Polymer Electrolyte with High Ionic Conductivity and High Modulus. <i>Advanced Materials</i> , 2018, 30, e1802661.	21.5	392
110	Sulfur-Modulated Tin Sites Enable Highly Selective Electrochemical Reduction of CO ₂ to Formate. <i>Joule</i> , 2017, 1, 794-805.	24.4	390
111	A half-wave rectified alternating current electrochemical method for uranium extraction from seawater. <i>Nature Energy</i> , 2017, 2, .	40.3	388
112	Stabilizing Lithium Metal Anodes by Uniform Li-Ion Flux Distribution in Nanochannel Confinement. <i>Journal of the American Chemical Society</i> , 2016, 138, 15443-15450.	14.2	386
113	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.	9.3	384
114	Conformal Lithium Fluoride Protection Layer on Three-Dimensional Lithium by Nonhazardous Gaseous Reagent Freon. <i>Nano Letters</i> , 2017, 17, 3731-3737.	9.3	377
115	Air-stable and freestanding lithium alloy/graphene foil as an alternative to lithium metal anodes. <i>Nature Nanotechnology</i> , 2017, 12, 993-999.	32.1	376
116	Energy and environmental nanotechnology in conductive paper and textiles. <i>Energy and Environmental Science</i> , 2012, 5, 6423.	31.2	374
117	In Situ Electrochemical Oxidation Tuning of Transition Metal Disulfides to Oxides for Enhanced Water Oxidation. <i>ACS Central Science</i> , 2015, 1, 244-251.	11.6	373
118	Fracture of crystalline silicon nanopillars during electrochemical lithium insertion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4080-4085.	7.2	372
119	High-performance sodium-organic battery by realizing four-sodium storage in disodium rhodizonate. <i>Nature Energy</i> , 2017, 2, 861-868.	40.3	372
120	Solubility-mediated sustained release enabling nitrate additive in carbonate electrolytes for stable lithium metal anode. <i>Nature Communications</i> , 2018, 9, 3656.	13.0	371
121	Nanoporous polyethylene microfibrils for large-scale radiative cooling fabric. <i>Nature Sustainability</i> , 2018, 1, 105-112.	24.0	370
122	Improving lithium-sulphur batteries through spatial control of sulphur species deposition on a hybrid electrode surface. <i>Nature Communications</i> , 2014, 5, 3943.	13.0	369
123	Spectrally Selective Nanocomposite Textile for Outdoor Personal Cooling. <i>Advanced Materials</i> , 2018, 30, e1802152.	21.5	362
124	Aqueous Zinc-Ion Storage in MoS ₂ by Tuning the Intercalation Energy. <i>Nano Letters</i> , 2019, 19, 3199-3206.	9.3	362
125	High-performance hollow sulfur nanostructured battery cathode through a scalable, room temperature, one-step, bottom-up approach. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7148-7153.	7.2	359
126	A membrane-free lithium/polysulfide semi-liquid battery for large-scale energy storage. <i>Energy and Environmental Science</i> , 2013, 6, 1552.	31.2	359

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127	Size-dependent fracture of Si nanowire battery anodes. <i>Journal of the Mechanics and Physics of Solids</i> , 2011, 59, 1717-1730.	4.9	355
128	Can N95 Respirators Be Reused after Disinfection? How Many Times?. <i>ACS Nano</i> , 2020, 14, 6348-6356.	14.9	355
129	Efficient solar-driven water splitting by nanocone BiVO ₄ -perovskite tandem cells. <i>Science Advances</i> , 2016, 2, e1501764.	10.5	351
130	Organic wastewater treatment by a single-atom catalyst and electrolytically produced H ₂ O ₂ . <i>Nature Sustainability</i> , 2021, 4, 233-241.	24.0	350
131	Formulating energy density for designing practical lithium-sulfur batteries. <i>Nature Energy</i> , 2022, 7, 312-319.	40.3	342
132	Wafer-scale silicon nanopillars and nanocones by Langmuir-Blodgett assembly and etching. <i>Applied Physics Letters</i> , 2008, 93, .	3.4	341
133	Efficient electrocatalytic CO ₂ reduction on a three-phase interface. <i>Nature Catalysis</i> , 2018, 1, 592-600.	35.0	336
134	Improving cyclability of Li metal batteries at elevated temperatures and its origin revealed by cryo-electron microscopy. <i>Nature Energy</i> , 2019, 4, 664-670.	40.3	336
135	Rational solvent molecule tuning for high-performance lithium metal battery electrolytes. <i>Nature Energy</i> , 2022, 7, 94-106.	40.3	336
136	Uniform High Ionic Conducting Lithium Sulfide Protection Layer for Stable Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2019, 9, 1900858.	19.9	333
137	Non-encapsulation approach for high-performance Li-S batteries through controlled nucleation and growth. <i>Nature Energy</i> , 2017, 2, 813-820.	40.3	326
138	A manganese-hydrogen battery with potential for grid-scale energy storage. <i>Nature Energy</i> , 2018, 3, 428-435.	40.3	325
139	An electrochemical system for efficiently harvesting low-grade heat energy. <i>Nature Communications</i> , 2014, 5, 3942.	13.0	324
140	Design of Hollow Nanostructures for Energy Storage, Conversion and Production. <i>Advanced Materials</i> , 2019, 31, e1801993.	21.5	313
141	Li Intercalation in MoS ₂ : In Situ Observation of Its Dynamics and Tuning Optical and Electrical Properties. <i>Nano Letters</i> , 2015, 15, 6777-6784.	9.3	312
142	Improved Lithium Ionic Conductivity in Composite Polymer Electrolytes with Oxide-Ion Conducting Nanowires. <i>ACS Nano</i> , 2016, 10, 11407-11413.	14.9	311
143	Nanowires for Electrochemical Energy Storage. <i>Chemical Reviews</i> , 2019, 119, 11042-11109.	49.1	309
144	Effects of Polymer Coatings on Electrodeposited Lithium Metal. <i>Journal of the American Chemical Society</i> , 2018, 140, 11735-11744.	14.2	307

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145	Improving battery safety by early detection of internal shorting with a bifunctional separator. <i>Nature Communications</i> , 2014, 5, 5193.	13.0	301
146	Sulfur Cathodes with Hydrogen Reduced Titanium Dioxide Inverse Opal Structure. <i>ACS Nano</i> , 2014, 8, 5249-5256.	14.9	297
147	Artificial Solid Electrolyte Interphase-Protected Li _x Si Nanoparticles: An Efficient and Stable Prelithiation Reagent for Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2015, 137, 8372-8375.	14.2	297
148	A Bamboo-Inspired Nanostructure Design for Flexible, Foldable, and Twistable Energy Storage Devices. <i>Nano Letters</i> , 2015, 15, 3899-3906.	9.3	296
149	Paper supercapacitors by a solvent-free drawing method. <i>Energy and Environmental Science</i> , 2011, 4, 3368.	31.2	290
150	Roll-to-Roll Transfer of Electrospun Nanofiber Film for High-Efficiency Transparent Air Filter. <i>Nano Letters</i> , 2016, 16, 1270-1275.	9.3	289
151	All-back-contact ultra-thin silicon nanocone solar cells with 13.7% power conversion efficiency. <i>Nature Communications</i> , 2013, 4, 2950.	13.0	287
152	Avoiding short circuits from zinc metal dendrites in anode by backside-plating configuration. <i>Nature Communications</i> , 2016, 7, 11801.	13.0	286
153	Three-dimensional stable lithium metal anode with nanoscale lithium islands embedded in ionically conductive solid matrix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4613-4618.	7.2	285
154	Novel Size and Surface Oxide Effects in Silicon Nanowires as Lithium Battery Anodes. <i>Nano Letters</i> , 2011, 11, 4018-4025.	9.3	284
155	Carbon nanotube-coated macroporous sponge for microbial fuel cell electrodes. <i>Energy and Environmental Science</i> , 2012, 5, 5265-5270.	31.2	284
156	Correlating Structure and Function of Battery Interphases at Atomic Resolution Using Cryoelectron Microscopy. <i>Joule</i> , 2018, 2, 2167-2177.	24.4	284
157	High-Performance Lithium Metal Negative Electrode with a Soft and Flowable Polymer Coating. <i>ACS Energy Letters</i> , 2016, 1, 1247-1255.	17.7	281
158	A Three-Dimensionally Interconnected Carbon Nanotube-Conducting Polymer Hydrogel Network for High-Performance Flexible Battery Electrodes. <i>Advanced Energy Materials</i> , 2014, 4, 1400207.	19.9	280
159	Warming up human body by nanoporous metallized polyethylene textile. <i>Nature Communications</i> , 2017, 8, 496.	13.0	280
160	Generation and electric control of spin-valley-coupled circular photogalvanic current in WSe ₂ . <i>Nature Nanotechnology</i> , 2014, 9, 851-857.	32.1	278
161	Facile synthesis of Li ₂ S-polypyrrole composite structures for high-performance Li ₂ S cathodes. <i>Energy and Environmental Science</i> , 2014, 7, 672.	31.2	277
162	Dry-air-stable lithium silicide-lithium oxide core-shell nanoparticles as high-capacity prelithiation reagents. <i>Nature Communications</i> , 2014, 5, 5088.	13.0	276

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163	Atomic Layer Deposition of Stable LiAlF ₄ Lithium Ion Conductive Interfacial Layer for Stable Cathode Cycling. ACS Nano, 2017, 11, 7019-7027.	14.9	276
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