

Hong-Jie Peng

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.

141
papers

19,508
citations

68
h-index

139
g-index

163
ext. papers

22,652
ext. citations

13.5
avg, IF

7.38
L-index

#	Paper	IF	Citations
141	A generalizable, data-driven online approach to forecast capacity degradation trajectory of lithium batteries. <i>Journal of Energy Chemistry</i> , 2022 , 68, 548-555	12	2
140	The formation of crystalline lithium sulfide on electrocatalytic surfaces in lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2022 , 64, 568-573	12	10
139	A perspective on the electrocatalytic conversion of carbon dioxide to methanol with metallomacrocyclic catalysts. <i>Journal of Energy Chemistry</i> , 2022 , 64, 263-275	12	6
138	Trends in oxygenate/hydrocarbon selectivity for electrochemical CO reduction to C products.. <i>Nature Communications</i> , 2022 , 13, 1399	17.4	6
137	Oxygen Coordination on Fe-N-C to Boost Oxygen Reduction Catalysis. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 517-524	6.4	7
136	A perspective on sustainable energy materials for lithium batteries. <i>SusMat</i> , 2021 , 1, 38-50		69
135	A Self-Limited Free-Standing Sulfide Electrolyte Thin Film for All-Solid-State Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2101985	15.6	22
134	Dynamics and Hysteresis of Hydrogen Intercalation and Deintercalation in Palladium Electrodes: A Multimodal In Situ X-ray Diffraction, Coulometry, and Computational Study. <i>Chemistry of Materials</i> , 2021 , 33, 5872-5884	9.6	2
133	Selective Permeable Lithium-Ion Channels on Lithium Metal for Practical Lithium-Sulfur Pouch Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18031-18036	16.4	21
132	The role of atomic carbon in directing electrochemical CO(2) reduction to multicarbon products. <i>Energy and Environmental Science</i> , 2021 , 14, 473-482	35.4	25
131	A two-dimension laminar composite protective layer for dendrite-free lithium metal anode. <i>Journal of Energy Chemistry</i> , 2021 , 56, 391-394	12	16
130	Selective Permeable Lithium-Ion Channels on Lithium Metal for Practical Lithium-Sulfur Pouch Cells. <i>Angewandte Chemie</i> , 2021 , 133, 18179-18184	3.6	4
129	Bimetallic effects on Zn-Cu electrocatalysts enhance activity and selectivity for the conversion of CO ₂ to CO. <i>Chem Catalysis</i> , 2021 , 1, 663-680		11
128	Guiding the Catalytic Properties of Copper for Electrochemical CO Reduction by Metal Atom Decoration. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	2
127	New insights into dead lithium during stripping in lithium metal batteries. <i>Journal of Energy Chemistry</i> , 2021 , 62, 289-294	12	33
126	Röntgenbild: Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion (Angew. Chem. 23/2020). <i>Angewandte Chemie</i> , 2020 , 132, 9278-9278	3.6	1
125	Scalable Construction of Hollow Multishell Co ₃ O ₄ with Mitigated Interface Reconstruction for Efficient Lithium Storage. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000667	4.6	12

124	Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9011-9017	16.4	106
123	Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion. <i>Angewandte Chemie</i> , 2020 , 132, 9096-9102	3.6	21
122	Review on nanomaterials for next-generation batteries with lithium metal anodes. <i>Nano Select</i> , 2020 , 1, 94-110	3.1	9
121	Spatial and Kinetic Regulation of Sulfur Electrochemistry on Semi-Immobilized Redox Mediators in Working Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17670-17675	16.4	26
120	Spatial and Kinetic Regulation of Sulfur Electrochemistry on Semi-Immobilized Redox Mediators in Working Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 17823-17828	3.6	3
119	Sandwich-like Catalyst-Carbon-Catalyst Trilayer Structure as a Compact 2D Host for Highly Stable Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 12227-12236	3.6	3
118	Sodiophilicity/potassiophilicity chemistry in sodium/potassium metal anodes. <i>Journal of Energy Chemistry</i> , 2020 , 51, 1-6	12	32
117	Lithium-Sulfur Batteries under Lean Electrolyte Conditions: Challenges and Opportunities. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12636-12652	16.4	230
116	A Supramolecular Electrolyte for Lithium-Metal Batteries. <i>Batteries and Supercaps</i> , 2020 , 3, 5-5	5.6	
115	A bifunctional ethylene-vinyl acetate copolymer protective layer for dendrites-free lithium metal anodes. <i>Journal of Energy Chemistry</i> , 2020 , 48, 203-207	12	51
114	Advanced energy materials for flexible batteries in energy storage: A review. <i>SmartMat</i> , 2020 , 1,	22.8	93
113	Ion-Solvent Chemistry-Inspired Cation-Additive Strategy to Stabilize Electrolytes for Sodium-Metal Batteries. <i>CheM</i> , 2020 , 6, 2242-2256	16.2	49
112	From electricity to fuels: Descriptors for C1 selectivity in electrochemical CO2 reduction. <i>Applied Catalysis B: Environmental</i> , 2020 , 279, 119384	21.8	37
111	Direct Intermediate Regulation Enabled by Sulfur Containers in Working Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 22334-22339	3.6	6
110	Direct Intermediate Regulation Enabled by Sulfur Containers in Working Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22150-22155	16.4	25
109	Dictating High-Capacity Lithium-Sulfur Batteries through Redox-Mediated Lithium Sulfide Growth. <i>Small Methods</i> , 2020 , 4, 1900344	12.8	58
108	Lithium-Schwefel-Batterien mit Magerelektrolyt: Herausforderungen und Perspektiven. <i>Angewandte Chemie</i> , 2020 , 132, 12736-12753	3.6	17
107	A Supramolecular Electrolyte for Lithium-Metal Batteries. <i>Batteries and Supercaps</i> , 2020 , 3, 47-51	5.6	12

106	Sandwich-like Catalyst-Carbon-Catalyst Trilayer Structure as a Compact 2D Host for Highly Stable Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12129-12138	16.4	65
105	Sulfur Redox Reactions at Working Interfaces in Lithium-Sulfur Batteries: A Perspective. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1802046	4.6	95
104	Graphene-based Fe-coordinated framework porphyrin as an interlayer for lithium-sulfur batteries. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 615-619	7.8	33
103	From Supramolecular Species to Self-Templated Porous Carbon and Metal-Doped Carbon for Oxygen Reduction Reaction Catalysts. <i>Angewandte Chemie</i> , 2019 , 131, 5017-5021	3.6	6
102	From Supramolecular Species to Self-Templated Porous Carbon and Metal-Doped Carbon for Oxygen Reduction Reaction Catalysts. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4963-4967	16.4	47
101	Current-density dependence of Li ₂ S/Li ₂ S ₂ growth in lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2976-2982	35.4	67
100	Nonuniform Redistribution of Sulfur and Lithium upon Cycling: Probing the Origin of Capacity Fading in Lithium-Sulfur Pouch Cells. <i>Energy Technology</i> , 2019 , 7, 1900111	3.5	24
99	Implanting Atomic Cobalt within Mesoporous Carbon toward Highly Stable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019 , 31, e1903813	24	215
98	Expediting redox kinetics of sulfur species by atomic-scale electrocatalysts in lithium-sulfur batteries. <i>Information Materials</i> , 2019 , 1, 533-541	23.1	196
97	Carbon materials for traffic power battery. <i>ETransportation</i> , 2019 , 2, 100033	12.7	28
96	pH effects on the electrochemical reduction of CO towards C products on stepped copper. <i>Nature Communications</i> , 2019 , 10, 32	17.4	207
95	Innentitelbild: Activating Inert Metallic Compounds for High-Rate Lithium-Sulfur Batteries Through In Situ Etching of Extrinsic Metal (Angew. Chem. 12/2019). <i>Angewandte Chemie</i> , 2019 , 131, 3692-3692	3.6	1
94	Conductive and Catalytic Triple-Phase Interfaces Enabling Uniform Nucleation in High-Rate Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1802768	21.8	347
93	Activating Inert Metallic Compounds for High-Rate Lithium-Sulfur Batteries Through In Situ Etching of Extrinsic Metal. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3779-3783	16.4	204
92	Activating Inert Metallic Compounds for High-Rate Lithium-Sulfur Batteries Through In Situ Etching of Extrinsic Metal. <i>Angewandte Chemie</i> , 2019 , 131, 3819-3823	3.6	34
91	Lithium Metal Anodes: Artificial Soft/Rigid Protective Layer for Dendrite-Free Lithium Metal Anode (Adv. Funct. Mater. 8/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870049	15.6	12
90	Porphyrin Organic Framework Hollow Spheres and Their Applications in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2018 , 30, e1707483	24	118
89	Porphyrin-Derived Graphene-Based Nanosheets Enabling Strong Polysulfide Chemisorption and Rapid Kinetics in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1800849	21.8	172

88	Ion-Solvent Complexes Promote Gas Evolution from Electrolytes on a Sodium Metal Anode. <i>Angewandte Chemie</i> , 2018 , 130, 742-745	3.6	22
87	Artificial Soft/Rigid Protective Layer for Dendrite-Free Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2018 , 28, 1705838	15.6	355
86	Innentitelbild: Ion-Solvent Complexes Promote Gas Evolution from Electrolytes on a Sodium Metal Anode (Angew. Chem. 3/2018). <i>Angewandte Chemie</i> , 2018 , 130, 606-606	3.6	
85	Sulfurized solid electrolyte interphases with a rapid Li ⁺ diffusion on dendrite-free Li metal anodes. <i>Energy Storage Materials</i> , 2018 , 10, 199-205	19.4	165
84	Heterogeneous/Homogeneous Mediators for High-Energy-Density Lithium-Sulfur Batteries: Progress and Prospects. <i>Advanced Functional Materials</i> , 2018 , 28, 1707536	15.6	197
83	A Bifunctional Perovskite Promoter for Polysulfide Regulation toward Stable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2018 , 30, 1705219	24	228
82	A Review of Functional Binders in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1802107	21.8	203
81	The Radical Pathway Based on a Lithium-Metal-Compatible High-Dielectric Electrolyte for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16732-16736	16.4	107
80	The Radical Pathway Based on a Lithium-Metal-Compatible High-Dielectric Electrolyte for Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 16974-16978	3.6	25
79	Solvent-Engineered Scalable Production of Polysulfide-Blocking Shields to Enhance Practical Lithium-Sulfur Batteries. <i>Small Methods</i> , 2018 , 2, 1800100	12.8	20
78	Porphyrin Organic Frameworks: Porphyrin Organic Framework Hollow Spheres and Their Applications in Lithium-Sulfur Batteries (Adv. Mater. 23/2018). <i>Advanced Materials</i> , 2018 , 30, 1870160	24	4
77	Ion-Solvent Complexes Promote Gas Evolution from Electrolytes on a Sodium Metal Anode. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 734-737	16.4	140
76	Towards stable lithium-sulfur batteries: Mechanistic insights into electrolyte decomposition on lithium metal anode. <i>Energy Storage Materials</i> , 2017 , 8, 194-201	19.4	133
75	Implantable Solid Electrolyte Interphase in Lithium-Metal Batteries. <i>Chem</i> , 2017 , 2, 258-270	16.2	411
74	An Analogous Periodic Law for Strong Anchoring of Polysulfides on Polar Hosts in Lithium Sulfur Batteries: S- or Li-Binding on First-Row Transition-Metal Sulfides?. <i>ACS Energy Letters</i> , 2017 , 2, 795-801	20.1	203
73	A Quinonoid-Imine-Enriched Nanostructured Polymer Mediator for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017 , 29, 1606802	24	107
72	Beaver-dam-like membrane: A robust and sulphidophilic MgBO ₂ (OH)/CNT/PP nest separator in Li-S batteries. <i>Energy Storage Materials</i> , 2017 , 8, 153-160	19.4	63
71	Review on High-Loading and High-Energy Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1700260	21.8	1010

70	Lithium Bond Chemistry in Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 8290-8294	3.6	50
69	Lithium Bond Chemistry in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8178-8182	16.4	332
68	Understanding trends in electrochemical carbon dioxide reduction rates. <i>Nature Communications</i> , 2017 , 8, 15438	17.4	369
67	A Toolbox for Lithium-Sulfur Battery Research: Methods and Protocols. <i>Small Methods</i> , 2017 , 1, 1700134	12.8	160
66	Healing High-Loading Sulfur Electrodes with Unprecedented Long Cycling Life: Spatial Heterogeneity Control. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8458-8466	16.4	163
65	Scaled-up fabrication of porous-graphene-modified separators for high-capacity lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2017 , 7, 56-63	19.4	131
64	An anion-immobilized composite electrolyte for dendrite-free lithium metal anodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11069-11074	11.5	515
63	Reaktitelbild: Columnar Lithium Metal Anodes (Angew. Chem. 45/2017). <i>Angewandte Chemie</i> , 2017 , 129, 14508-14508	3.6	
62	Metal/nanocarbon layer current collectors enhanced energy efficiency in lithium-sulfur batteries. <i>Science Bulletin</i> , 2017 , 62, 1267-1274	10.6	34
61	Columnar Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14207-14211	16.4	146
60	Columnar Lithium Metal Anodes. <i>Angewandte Chemie</i> , 2017 , 129, 14395-14399	3.6	38
59	A review of flexible lithium-sulfur and analogous alkali metal-chalcogen rechargeable batteries. <i>Chemical Society Reviews</i> , 2017 , 46, 5237-5288	58.5	461
58	A Supramolecular Capsule for Reversible Polysulfide Storage/Delivery in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16223-16227	16.4	66
57	A Supramolecular Capsule for Reversible Polysulfide Storage/Delivery in Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 16441-16445	3.6	18
56	Review of nanostructured current collectors in lithium-sulfur batteries. <i>Nano Research</i> , 2017 , 10, 4027-4054	15.4	74
55	Lithium-Sulfur Batteries: Review on High-Loading and High-Energy Lithium-Sulfur Batteries (Adv. Energy Mater. 24/2017). <i>Advanced Energy Materials</i> , 2017 , 7, 1770141	21.8	32
54	Innenreaktittelbild: A Supramolecular Capsule for Reversible Polysulfide Storage/Delivery in Lithium-Sulfur Batteries (Angew. Chem. 51/2017). <i>Angewandte Chemie</i> , 2017 , 129, 16635-16635	3.6	
53	Hydrothermal synthesis of porous phosphorus-doped carbon nanotubes and their use in the oxygen reduction reaction and lithium-sulfur batteries. <i>New Carbon Materials</i> , 2016 , 31, 352-362	4.4	71

52	A Cooperative Interface for Highly Efficient Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2016 , 28, 9551-9558	24	431
51	3D Carbonaceous Current Collectors: The Origin of Enhanced Cycling Stability for High-Sulfur-Loading Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 6351-6358	15.6	191
50	Lithium-Sulfur Batteries: A Cooperative Interface for Highly Efficient Lithium-Sulfur Batteries (Adv. Mater. 43/2016). <i>Advanced Materials</i> , 2016 , 28, 9550-9550	24	2
49	Porous carbon derived from rice husks as sustainable bioresources: insights into the role of micro-/mesoporous hierarchy in hosting active species for lithium-sulfur batteries. <i>Green Chemistry</i> , 2016 , 18, 5169-5179	10	117
48	Rational Integration of Polypropylene/Graphene Oxide/Nafion as Ternary-Layered Separator to Retard the Shuttle of Polysulfides for Lithium-Sulfur Batteries. <i>Small</i> , 2016 , 12, 381-9	11	267
47	Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth. <i>Advanced Materials</i> , 2016 , 28, 2155-62	24	498
46	Lithium Anodes: Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth (Adv. Mater. 11/2016). <i>Advanced Materials</i> , 2016 , 28, 2090-2090	24	1
45	Li2S5-based ternary-salt electrolyte for robust lithium metal anode. <i>Energy Storage Materials</i> , 2016 , 3, 77-84	19.4	215
44	Powering Lithium-Sulfur Battery Performance by Propelling Polysulfide Redox at Sulfiphilic Hosts. <i>Nano Letters</i> , 2016 , 16, 519-27	11.5	1055
43	Design Principles for Heteroatom-Doped Nanocarbon to Achieve Strong Anchoring of Polysulfides for Lithium-Sulfur Batteries. <i>Small</i> , 2016 , 12, 3283-91	11	515
42	Dendrite-Free Lithium Deposition Induced by Uniformly Distributed Lithium Ions for Efficient Lithium Metal Batteries. <i>Advanced Materials</i> , 2016 , 28, 2888-95	24	699
41	Frontispiz: Enhanced Electrochemical Kinetics on Conductive Polar Mediators for Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2016 , 128,	3.6	1
40	Frontispiece: Enhanced Electrochemical Kinetics on Conductive Polar Mediators for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55,	16.4	1
39	Enhanced Electrochemical Kinetics on Conductive Polar Mediators for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12990-12995	16.4	442
38	Enhanced Electrochemical Kinetics on Conductive Polar Mediators for Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2016 , 128, 13184-13189	3.6	104
37	Janus Separator of Polypropylene-Supported Cellular Graphene Framework for Sulfur Cathodes with High Utilization in Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2016 , 3, 1500268	13.6	251
36	Nitrogen-doped herringbone carbon nanofibers with large lattice spacings and abundant edges: Catalytic growth and their applications in lithium ion batteries and oxygen reduction reactions. <i>Catalysis Today</i> , 2015 , 249, 244-251	5.3	39
35	The formation of strong-couple interactions between nitrogen-doped graphene and sulfur/lithium (poly)sulfides in lithium-sulfur batteries. <i>2D Materials</i> , 2015 , 2, 014011	5.9	83

34	Template growth of porous graphene microspheres on layered double oxide catalysts and their applications in lithium-sulfur batteries. <i>Carbon</i> , 2015 , 92, 96-105	10.4	68
33	Interconnected carbon nanotube/graphene nanosphere scaffolds as free-standing paper electrode for high-rate and ultra-stable lithium-sulfur batteries. <i>Nano Energy</i> , 2015 , 11, 746-755	17.1	154
32	Towards Stable Lithium-Sulfur Batteries with a Low Self-Discharge Rate: Ion Diffusion Modulation and Anode Protection. <i>ChemSusChem</i> , 2015 , 8, 2892-901	8.3	59
31	3D Mesoporous Graphene: CVD Self-Assembly on Porous Oxide Templates and Applications in High-Stable Li-S Batteries. <i>Small</i> , 2015 , 11, 5243-52	11	110
30	Sulfophile leitfähige Substrate als Trägermaterialien für Schwefelkathoden. <i>Angewandte Chemie</i> , 2015 , 127, 11170-11172	3.6	19
29	Designing host materials for sulfur cathodes: from physical confinement to surface chemistry. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11018-20	16.4	196
28	Dual-Phase Lithium Metal Anode Containing a Polysulfide-Induced Solid Electrolyte Interphase and Nanostructured Graphene Framework for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2015 , 9, 6373-82	16.7	261
27	Permselective graphene oxide membrane for highly stable and anti-self-discharge lithium-sulfur batteries. <i>ACS Nano</i> , 2015 , 9, 3002-11	16.7	605
26	Cathode materials based on carbon nanotubes for high-energy-density lithium-sulfur batteries. <i>Carbon</i> , 2014 , 75, 161-168	10.4	72
25	Nanoarchitected Graphene/CNT@Porous Carbon with Extraordinary Electrical Conductivity and Interconnected Micro/Mesopores for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2014 , 24, 2772-2781	15.6	452
24	Carbon: Nanoarchitected Graphene/CNT@Porous Carbon with Extraordinary Electrical Conductivity and Interconnected Micro/Mesopores for Lithium-Sulfur Batteries (Adv. Funct. Mater. 19/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 2920-2920	15.6	3
23	Nitrogen-doped aligned carbon nanotube/graphene sandwiches: facile catalytic growth on bifunctional natural catalysts and their applications as scaffolds for high-rate lithium-sulfur batteries. <i>Advanced Materials</i> , 2014 , 26, 6100-5	24	492
22	Polysulfide shuttle control: Towards a lithium-sulfur battery with superior capacity performance up to 1000 cycles by matching the sulfur/electrolyte loading. <i>Journal of Power Sources</i> , 2014 , 253, 263-268	8.9	113
21	Aligned carbon nanotube/sulfur composite cathodes with high sulfur content for lithium-sulfur batteries. <i>Nano Energy</i> , 2014 , 4, 65-72	17.1	328
20	Lithium-Sulfur Batteries: Hierarchical Vine-Tree-Like Carbon Nanotube Architectures: In-Situ CVD Self-Assembly and Their Use as Robust Scaffolds for Lithium-Sulfur Batteries (Adv. Mater. 41/2014). <i>Advanced Materials</i> , 2014 , 26, 6986-6986	24	3
19	Flexible all-carbon interlinked nanoarchitectures as cathode scaffolds for high-rate lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10869-10875	13	78
18	Lithium-Sulfur Batteries: Dendrite-Free Nanostructured Anode: Entrapment of Lithium in a 3D Fibrous Matrix for Ultra-Stable Lithium-Sulfur Batteries (Small 21/2014). <i>Small</i> , 2014 , 10, 4222-4222	11	53
17	Dendrite-free nanostructured anode: entrapment of lithium in a 3D fibrous matrix for ultra-stable lithium-sulfur batteries. <i>Small</i> , 2014 , 10, 4257-63	11	130

16	Hierarchical Free-Standing Carbon-Nanotube Paper Electrodes with Ultrahigh Sulfur-Loading for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2014 , 24, 6105-6112	15.6	432
15	Strongly Coupled Interfaces between a Heterogeneous Carbon Host and a Sulfur-Containing Guest for Highly Stable Lithium-Sulfur Batteries: Mechanistic Insight into Capacity Degradation. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1400227	4.6	311
14	Lithium-Sulfur Batteries: Nitrogen-Doped Aligned Carbon Nanotube/Graphene Sandwiches: Facile Catalytic Growth on Bifunctional Natural Catalysts and Their Applications as Scaffolds for High-Rate Lithium-Sulfur Batteries (Adv. Mater. 35/2014). <i>Advanced Materials</i> , 2014 , 26, 6199-6199	24	3
13	Hierarchical Carbon Nanotube/Carbon Black Scaffolds as Short- and Long-Range Electron Pathways with Superior Li-Ion Storage Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 200-206	8.3	42
12	Three-dimensional aluminum foam/carbon nanotube scaffolds as long- and short-range electron pathways with improved sulfur loading for high energy density lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2014 , 261, 264-270	8.9	79
11	Controllable bulk growth of few-layer graphene/single-walled carbon nanotube hybrids containing Fe@C nanoparticles in a fluidized bed reactor. <i>Carbon</i> , 2014 , 67, 554-563	10.4	15
10	Hierarchical vine-tree-like carbon nanotube architectures: In-situ CVD self-assembly and their use as robust scaffolds for lithium-sulfur batteries. <i>Advanced Materials</i> , 2014 , 26, 7051-8	24	97
9	Catalytic self-limited assembly at hard templates: a mesoscale approach to graphene nanoshells for lithium-sulfur batteries. <i>ACS Nano</i> , 2014 , 8, 11280-9	16.7	156
8	Electrodes: Hierarchical Free-Standing Carbon-Nanotube Paper Electrodes with Ultrahigh Sulfur-Loading for Lithium-Sulfur Batteries (Adv. Funct. Mater. 39/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 6244-6244	15.6	8
7	Ionic shield for polysulfides towards highly-stable lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 347-353	35.4	547
6	Unstacked double-layer templated graphene for high-rate lithium-sulphur batteries. <i>Nature Communications</i> , 2014 , 5, 3410	17.4	551
5	Hierarchical nanostructured composite cathode with carbon nanotubes as conductive scaffold for lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2013 , 22, 341-346	12	38
4	N-Methyl-2-pyrrolidone-assisted solvothermal synthesis of nanosize orthorhombic lithium iron phosphate with improved Li-storage performance. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18908		18
3	Exploring Trends on Coupling Mechanisms toward C3 Product Formation in CO(2)R. <i>Journal of Physical Chemistry C</i> ,	3.8	4
2	Polysulfide Electrocatalysis on Framework Porphyrin in High-Capacity and High-Stable Lithium-Sulfur Batteries. <i>CCS Chemistry</i> , 128-137	7.2	96
1	Machine Learning-Assisted Screening of Stepped Alloy Surfaces for C1 Catalysis. <i>ACS Catalysis</i> , 4252-4260	3.1	1