Hong-Jie Peng

List of Publications by Citations

141	19,508	68	139
papers	citations	h-index	g-index
163	22,652	13.5	7.38
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
141	Powering Lithium-Sulfur Battery Performance by Propelling Polysulfide Redox at Sulfiphilic Hosts. *Nano Letters*, **2016**, 16, 519-27	11.5	1055
140	Review on High-Loading and High-Energy Lithium–Sulfur Batteries. *Advanced Energy Materials*, **2017**, 7, 1700260	21.8	1010
139	Dendrite-Free Lithium Deposition Induced by Uniformly Distributed Lithium Ions for Efficient Lithium Metal Batteries. *Advanced Materials*, **2016**, 28, 2888-95	24	699
138	Permselective graphene oxide membrane for highly stable and anti-self-discharge lithium-sulfur batteries. *ACS Nano*, **2015**, 9, 3002-11	16.7	605
137	Unstacked double-layer templated graphene for high-rate lithium-sulphur batteries. *Nature Communications*, **2014**, 5, 3410	17.4	551
136	Ionic shield for polysulfides towards highly-stable lithium–sulfur batteries. *Energy and Environmental Science*, **2014**, 7, 347-353	35.4	547
135	An anion-immobilized composite electrolyte for dendrite-free lithium metal anodes. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 11069-11074	11.5	515
134	Design Principles for Heteroatom-Doped Nanocarbon to Achieve Strong Anchoring of Polysulfides for Lithium-Sulfur Batteries. *Small*, **2016**, 12, 3283-91	11	515
133	Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth. *Advanced Materials*, **2016**, 28, 2155-62	24	498
132	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. *Advanced Materials*, **2014**, 26, 6100-5	24	492
131	A review of flexible lithium-sulfur and analogous alkali metal-chalcogen rechargeable batteries. *Chemical Society Reviews*, **2017**, 46, 5237-5288	58.5	461
130	Nanoarchitectured Graphene/CNT@Porous Carbon with Extraordinary Electrical Conductivity and Interconnected Micro/Mesopores for Lithium-Sulfur Batteries. *Advanced Functional Materials*, **2014**, 24, 2772-2781	15.6	452
129	Enhanced Electrochemical Kinetics on Conductive Polar Mediators for Lithium-Sulfur Batteries. *Angewandte Chemie - International Edition*, **2016**, 55, 12990-12995	16.4	442
128	Hierarchical Free-Standing Carbon-Nanotube Paper Electrodes with Ultrahigh Sulfur-Loading for Lithium–Sulfur Batteries. *Advanced Functional Materials*, **2014**, 24, 6105-6112	15.6	432
127	A Cooperative Interface for Highly Efficient Lithium-Sulfur Batteries. *Advanced Materials*, **2016**, 28, 9551-9558	24	431
126	Implantable Solid Electrolyte Interphase in Lithium-Metal Batteries. *CheM*, **2017**, 2, 258-270	16.2	411
125	Understanding trends in electrochemical carbon dioxide reduction rates. *Nature Communications*, **2017**, 8, 15438	17.4	369

124	Artificial Soft-Rigid Protective Layer for Dendrite-Free Lithium Metal Anode. *Advanced Functional Materials*, **2018**, 28, 1705838	15.6	355
123	Conductive and Catalytic Triple-Phase Interfaces Enabling Uniform Nucleation in High-Rate Lithium-Sulfur Batteries. *Advanced Energy Materials*, **2019**, 9, 1802768	21.8	347
122	Lithium Bond Chemistry in Lithium-Sulfur Batteries. *Angewandte Chemie - International Edition*, **2017**, 56, 8178-8182	16.4	332
121	Aligned carbon nanotube/sulfur composite cathodes with high sulfur content for lithium-sulfur batteries. *Nano Energy*, **2014**, 4, 65-72	17.1	328
120	Strongly Coupled Interfaces between a Heterogeneous Carbon Host and a Sulfur-Containing Guest for Highly Stable Lithium-Sulfur Batteries: Mechanistic Insight into Capacity Degradation. *Advanced Materials Interfaces*, **2014**, 1, 1400227	4.6	311
119	Rational Integration of Polypropylene/Graphene Oxide/Nafion as Ternary-Layered Separator to Retard the Shuttle of Polysulfides for Lithium-Sulfur Batteries. *Small*, **2016**, 12, 381-9	11	267
118	Dual-Phase Lithium Metal Anode Containing a Polysulfide-Induced Solid Electrolyte Interphase and Nanostructured Graphene Framework for Lithium-Sulfur Batteries. *ACS Nano*, **2015**, 9, 6373-82	16.7	261
117	Janus Separator of Polypropylene-Supported Cellular Graphene Framework for Sulfur Cathodes with High Utilization in Lithium-Sulfur Batteries. *Advanced Science*, **2016**, 3, 1500268	13.6	251
116	Lithium-Sulfur Batteries under Lean Electrolyte Conditions: Challenges and Opportunities. *Angewandte Chemie - International Edition*, **2020**, 59, 12636-12652	16.4	230
115	A Bifunctional Perovskite Promoter for Polysulfide Regulation toward Stable Lithium-Sulfur Batteries. *Advanced Materials*, **2018**, 30, 1705219	24	228
114	Li2S5-based ternary-salt electrolyte for robust lithium metal anode. *Energy Storage Materials*, **2016**, 3, 77-84	19.4	215
113	Implanting Atomic Cobalt within Mesoporous Carbon toward Highly Stable Lithium-Sulfur Batteries. *Advanced Materials*, **2019**, 31, e1903813	24	215
112	pH effects on the electrochemical reduction of CO towards C products on stepped copper. *Nature Communications*, **2019**, 10, 32	17.4	207
111	Activating Inert Metallic Compounds for High-Rate Lithium-Sulfur Batteries Through In Situ Etching of Extrinsic Metal. *Angewandte Chemie - International Edition*, **2019**, 58, 3779-3783	16.4	204
110	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?. *ACS Energy Letters*, **2017**, 2, 795-801	20.1	203
109	A Review of Functional Binders in Lithium-Sulfur Batteries. *Advanced Energy Materials*, **2018**, 8, 1802107	21.8	203
108	Heterogeneous/Homogeneous Mediators for High-Energy-Density Lithium-Sulfur Batteries: Progress and Prospects. *Advanced Functional Materials*, **2018**, 28, 1707536	15.6	197
107	Designing host materials for sulfur cathodes: from physical confinement to surface chemistry. *Angewandte Chemie - International Edition*, **2015**, 54, 11018-20	16.4	196

106	Expediting redox kinetics of sulfur species by atomic-scale electrocatalysts in lithium–sulfur batteries. *Information Materials*, **2019**, 1, 533-541	23.1	196
105	3D Carbonaceous Current Collectors: The Origin of Enhanced Cycling Stability for High-Sulfur-Loading Lithium–Sulfur Batteries. *Advanced Functional Materials*, **2016**, 26, 6351-6358	15.6	191
104	Porphyrin-Derived Graphene-Based Nanosheets Enabling Strong Polysulfide Chemisorption and Rapid Kinetics in Lithium–Sulfur Batteries. *Advanced Energy Materials*, **2018**, 8, 1800849	21.8	172
103	Sulfurized solid electrolyte interphases with a rapid Li+ diffusion on dendrite-free Li metal anodes. *Energy Storage Materials*, **2018**, 10, 199-205	19.4	165
102	Healing High-Loading Sulfur Electrodes with Unprecedented Long Cycling Life: Spatial Heterogeneity Control. *Journal of the American Chemical Society*, **2017**, 139, 8458-8466	16.4	163
101	A Toolbox for Lithium–Sulfur Battery Research: Methods and Protocols. *Small Methods*, **2017**, 1, 1700134	12.8	160
100	Catalytic self-limited assembly at hard templates: a mesoscale approach to graphene nanoshells for lithium-sulfur batteries. *ACS Nano*, **2014**, 8, 11280-9	16.7	156
99	Interconnected carbon nanotube/graphene nanosphere scaffolds as free-standing paper electrode for high-rate and ultra-stable lithium–sulfur batteries. *Nano Energy*, **2015**, 11, 746-755	17.1	154
98	Columnar Lithium Metal Anodes. *Angewandte Chemie - International Edition*, **2017**, 56, 14207-14211	16.4	146
97	Ion-Solvent Complexes Promote Gas Evolution from Electrolytes on a Sodium Metal Anode. *Angewandte Chemie - International Edition*, **2018**, 57, 734-737	16.4	140
96	Towards stable lithium-sulfur batteries: Mechanistic insights into electrolyte decomposition on lithium metal anode. *Energy Storage Materials*, **2017**, 8, 194-201	19.4	133
95	Scaled-up fabrication of porous-graphene-modified separators for high-capacity lithium–sulfur batteries. *Energy Storage Materials*, **2017**, 7, 56-63	19.4	131
94	Dendrite-free nanostructured anode: entrapment of lithium in a 3D fibrous matrix for ultra-stable lithium-sulfur batteries. *Small*, **2014**, 10, 4257-63	11	130
93	Porphyrin Organic Framework Hollow Spheres and Their Applications in Lithium-Sulfur Batteries. *Advanced Materials*, **2018**, 30, e1707483	24	118
92	Porous carbon derived from rice husks as sustainable bioresources: insights into the role of micro-/mesoporous hierarchy in hosting active species for lithium–sulphur batteries. *Green Chemistry*, **2016**, 18, 5169-5179	10	117
91	Polysulfide shuttle control: Towards a lithium-sulfur battery with superior capacity performance up to 1000 cycles by matching the sulfur/electrolyte loading. *Journal of Power Sources*, **2014**, 253, 263-268	8.9	113
90	3D Mesoporous Graphene: CVD Self-Assembly on Porous Oxide Templates and Applications in High-Stable Li-S Batteries. *Small*, **2015**, 11, 5243-52	11	110
89	A Quinonoid-Imine-Enriched Nanostructured Polymer Mediator for Lithium-Sulfur Batteries. *Advanced Materials*, **2017**, 29, 1606802	24	107

88	The Radical Pathway Based on a Lithium-Metal-Compatible High-Dielectric Electrolyte for Lithium-Sulfur Batteries. *Angewandte Chemie - International Edition*, **2018**, 57, 16732-16736	16.4	107
87	Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion. *Angewandte Chemie - International Edition*, **2020**, 59, 9011-9017	16.4	106
86	Enhanced Electrochemical Kinetics on Conductive Polar Mediators for Lithium–Sulfur Batteries. *Angewandte Chemie*, **2016**, 128, 13184-13189	3.6	104
85	Hierarchical vine-tree-like carbon nanotube architectures: In-situ CVD self-assembly and their use as robust scaffolds for lithium-sulfur batteries. *Advanced Materials*, **2014**, 26, 7051-8	24	97
84	Polysulfide Electrocatalysis on Framework Porphyrin in High-Capacity and High-Stable Lithium–Sulfur Batteries. *CCS Chemistry*,128-137	7.2	96
83	Sulfur Redox Reactions at Working Interfaces in Lithium–Sulfur Batteries: A Perspective. *Advanced Materials Interfaces*, **2019**, 6, 1802046	4.6	95
82	Advanced energy materials for flexible batteries in energy storage: A review. *SmartMat*, **2020**, 1,	22.8	93
81	The formation of strong-couple interactions between nitrogen-doped graphene and sulfur/lithium (poly)sulfides in lithium-sulfur batteries. *2D Materials*, **2015**, 2, 014011	5.9	83
80	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. *Journal of Power Sources*, **2014**, 261, 264-270	8.9	79
79	Flexible all-carbon interlinked nanoarchitectures as cathode scaffolds for high-rate lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2014**, 2, 10869-10875	13	78
78	Review of nanostructured current collectors in lithium–sulfur batteries. *Nano Research*, **2017**, 10, 4027-4054	10	74
77	Cathode materials based on carbon nanotubes for high-energy-density lithium–sulfur batteries. *Carbon*, **2014**, 75, 161-168	10.4	72
76	Hydrothermal synthesis of porous phosphorus-doped carbon nanotubes and their use in the oxygen reduction reaction and lithium-sulfur batteries. *New Carbon Materials*, **2016**, 31, 352-362	4.4	71
75	A perspective on sustainable energy materials for lithium batteries. *SusMat*, **2021**, 1, 38-50		69
74	Template growth of porous graphene microspheres on layered double oxide catalysts and their applications in lithium–sulfur batteries. *Carbon*, **2015**, 92, 96-105	10.4	68
73	Current-density dependence of Li2S/Li2S2 growth in lithium–sulfur batteries. *Energy and Environmental Science*, **2019**, 12, 2976-2982	35.4	67
72	A Supramolecular Capsule for Reversible Polysulfide Storage/Delivery in Lithium-Sulfur Batteries. *Angewandte Chemie - International Edition*, **2017**, 56, 16223-16227	16.4	66
71	Sandwich-like Catalyst-Carbon-Catalyst Trilayer Structure as a Compact 2D Host for Highly Stable Lithium-Sulfur Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 12129-12138	16.4	65

70	Beaver-dam-like membrane: A robust and sulphifilic MgBO2(OH)/CNT/PP nest separator in Li-S batteries. *Energy Storage Materials*, **2017**, 8, 153-160	19.4	63
69	Towards Stable Lithium-Sulfur Batteries with a Low Self-Discharge Rate: Ion Diffusion Modulation and Anode Protection. *ChemSusChem*, **2015**, 8, 2892-901	8.3	59
68	Dictating High-Capacity Lithium–Sulfur Batteries through Redox-Mediated Lithium Sulfide Growth. *Small Methods*, **2020**, 4, 1900344	12.8	58
67	Lithium-Sulfur Batteries: Dendrite-Free Nanostructured Anode: Entrapment of Lithium in a 3D Fibrous Matrix for Ultra-Stable Lithium–Sulfur Batteries (Small 21/2014). *Small*, **2014**, 10, 4222-4222	11	53
66	A bifunctional ethylene-vinyl acetate copolymer protective layer for dendrites-free lithium metal anodes. *Journal of Energy Chemistry*, **2020**, 48, 203-207	12	51
65	Lithium Bond Chemistry in Lithium–Sulfur Batteries. *Angewandte Chemie*, **2017**, 129, 8290-8294	3.6	50
64	Ion-Solvent Chemistry-Inspired Cation-Additive Strategy to Stabilize Electrolytes for Sodium-Metal Batteries. *CheM*, **2020**, 6, 2242-2256	16.2	49
63	From Supramolecular Species to Self-Templated Porous Carbon and Metal-Doped Carbon for Oxygen Reduction Reaction Catalysts. *Angewandte Chemie - International Edition*, **2019**, 58, 4963-4967	16.4	47
62	Hierarchical Carbon Nanotube/Carbon Black Scaffolds as Short- and Long-Range Electron Pathways with Superior Li-Ion Storage Performance. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 200-206	8.3	42
61	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. *Catalysis Today*, **2015**, 249, 244-251	5.3	39
60	Columnar Lithium Metal Anodes. *Angewandte Chemie*, **2017**, 129, 14395-14399	3.6	38
59	Hierarchical nanostructured composite cathode with carbon nanotubes as conductive scaffold for lithium-sulfur batteries. *Journal of Energy Chemistry*, **2013**, 22, 341-346	12	38
58	From electricity to fuels: Descriptors for C1 selectivity in electrochemical CO2 reduction. *Applied Catalysis B: Environmental*, **2020**, 279, 119384	21.8	37
57	Metal/nanocarbon layer current collectors enhanced energy efficiency in lithium-sulfur batteries. *Science Bulletin*, **2017**, 62, 1267-1274	10.6	34
56	Activating Inert Metallic Compounds for High-Rate Lithium–Sulfur Batteries Through In Situ Etching of Extrinsic Metal. *Angewandte Chemie*, **2019**, 131, 3819-3823	3.6	34
55	Graphene-based Fe-coordinated framework porphyrin as an interlayer for lithium–sulfur batteries. *Materials Chemistry Frontiers*, **2019**, 3, 615-619	7.8	33
54	New insights into “dead lithium” during stripping in lithium metal batteries. *Journal of Energy Chemistry*, **2021**, 62, 289-294	12	33
53	Sodiophilicity/potassiophilicity chemistry in sodium/potassium metal anodes. *Journal of Energy Chemistry*, **2020**, 51, 1-6	12	32

52	Lithium-Sulfur Batteries: Review on High-Loading and High-Energy LithiumSulfur Batteries (Adv. Energy Mater. 24/2017). *Advanced Energy Materials*, **2017**, 7, 1770141	21.8	32
51	Carbon materials for traffic power battery. *ETransportation*, **2019**, 2, 100033	12.7	28
50	Spatial and Kinetic Regulation of Sulfur Electrochemistry on Semi-Immobilized Redox Mediators in Working Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 17670-17675	16.4	26
49	Direct Intermediate Regulation Enabled by Sulfur Containers in Working Lithium-Sulfur Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 22150-22155	16.4	25
48	The role of atomic carbon in directing electrochemical CO(2) reduction to multicarbon products. *Energy and Environmental Science*, **2021**, 14, 473-482	35.4	25
47	The Radical Pathway Based on a Lithium-Metal-Compatible High-Dielectric Electrolyte for LithiumSulfur Batteries. *Angewandte Chemie*, **2018**, 130, 16974-16978	3.6	25
46	Nonuniform Redistribution of Sulfur and Lithium upon Cycling: Probing the Origin of Capacity Fading in LithiumSulfur Pouch Cells. *Energy Technology*, **2019**, 7, 1900111	3.5	24
45	IonSolvent Complexes Promote Gas Evolution from Electrolytes on a Sodium Metal Anode. *Angewandte Chemie*, **2018**, 130, 742-745	3.6	22
44	A Self-Limited Free-Standing Sulfide Electrolyte Thin Film for All-Solid-State Lithium Metal Batteries. *Advanced Functional Materials*, **2021**, 31, 2101985	15.6	22
43	Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion. *Angewandte Chemie*, **2020**, 132, 9096-9102	3.6	21
42	Selective Permeable Lithium-Ion Channels on Lithium Metal for Practical Lithium-Sulfur Pouch Cells. *Angewandte Chemie - International Edition*, **2021**, 60, 18031-18036	16.4	21
41	Solvent-Engineered Scalable Production of Polysulfide-Blocking Shields to Enhance Practical LithiumSulfur Batteries. *Small Methods*, **2018**, 2, 1800100	12.8	20
40	Sulfophile leitfBige Substrate als TrGermaterialien fSchwefelkathoden. *Angewandte Chemie*, **2015**, 127, 11170-11172	3.6	19
39	A Supramolecular Capsule for Reversible Polysulfide Storage/Delivery in Lithium-Sulfur Batteries. *Angewandte Chemie*, **2017**, 129, 16441-16445	3.6	18
38	N-Methyl-2-pyrrolidone-assisted solvothermal synthesis of nanosize orthorhombic lithium iron phosphate with improved Li-storage performance. *Journal of Materials Chemistry*, **2012**, 22, 18908		18
37	Lithium-Schwefel-Batterien mit Magerelektrolyt: Herausforderungen und Perspektiven. *Angewandte Chemie*, **2020**, 132, 12736-12753	3.6	17
36	A two-dimension laminar composite protective layer for dendrite-free lithium metal anode. *Journal of Energy Chemistry*, **2021**, 56, 391-394	12	16
35	Controllable bulk growth of few-layer graphene/single-walled carbon nanotube hybrids containing Fe@C nanoparticles in a fluidized bed reactor. *Carbon*, **2014**, 67, 554-563	10.4	15

34	Scalable Construction of Hollow Multishell Co3O4 with Mitigated Interface Reconstruction for Efficient Lithium Storage. *Advanced Materials Interfaces*, **2020**, 7, 2000667	4.6	12
33	Lithium Metal Anodes: Artificial Soft–Rigid Protective Layer for Dendrite-Free Lithium Metal Anode (Adv. Funct. Mater. 8/2018). *Advanced Functional Materials*, **2018**, 28, 1870049	15.6	12
32	A Supramolecular Electrolyte for Lithium-Metal Batteries. *Batteries and Supercaps*, **2020**, 3, 47-51	5.6	12
31	Bimetallic effects on Zn-Cu electrocatalysts enhance activity and selectivity for the conversion of CO2 to CO. *Chem Catalysis*, **2021**, 1, 663-680		11
30	The formation of crystalline lithium sulfide on electrocatalytic surfaces in lithium–sulfur batteries. *Journal of Energy Chemistry*, **2022**, 64, 568-573	12	10
29	Review on nanomaterials for next-generation batteries with lithium metal anodes. *Nano Select*, **2020**, 1, 94-110	3.1	9
28	Electrodes: Hierarchical Free-Standing Carbon-Nanotube Paper Electrodes with Ultrahigh Sulfur-Loading for Lithium–Sulfur Batteries (Adv. Funct. Mater. 39/2014). *Advanced Functional Materials*, **2014**, 24, 6244-6244	15.6	8
27	Oxygen Coordination on Fe-N-C to Boost Oxygen Reduction Catalysis. *Journal of Physical Chemistry Letters*, **2021**, 12, 517-524	6.4	7
26	From Supramolecular Species to Self-Templated Porous Carbon and Metal-Doped Carbon for Oxygen Reduction Reaction Catalysts. *Angewandte Chemie*, **2019**, 131, 5017-5021	3.6	6
25	Direct Intermediate Regulation Enabled by Sulfur Containers in Working Lithium–Sulfur Batteries. *Angewandte Chemie*, **2020**, 132, 22334-22339	3.6	6
24	A perspective on the electrocatalytic conversion of carbon dioxide to methanol with metallomacrocyclic catalysts. *Journal of Energy Chemistry*, **2022**, 64, 263-275	12	6
23	Trends in oxygenate/hydrocarbon selectivity for electrochemical CO reduction to C products.. *Nature Communications*, **2022**, 13, 1399	17.4	6
22	Exploring Trends on Coupling Mechanisms toward C3 Product Formation in CO(2)R. *Journal of Physical Chemistry C*,	3.8	4
21	Porphyrin Organic Frameworks: Porphyrin Organic Framework Hollow Spheres and Their Applications in Lithium–Sulfur Batteries (Adv. Mater. 23/2018). *Advanced Materials*, **2018**, 30, 1870160	24	4
20	Selective Permeable Lithium-Ion Channels on Lithium Metal for Practical Lithium–Sulfur Pouch Cells. *Angewandte Chemie*, **2021**, 133, 18179-18184	3.6	4
19	Spatial and Kinetic Regulation of Sulfur Electrochemistry on Semi-Immobilized Redox Mediators in Working Batteries. *Angewandte Chemie*, **2020**, 132, 17823-17828	3.6	3
18	Sandwich-like Catalyst–Carbon–Catalyst Trilayer Structure as a Compact 2D Host for Highly Stable Lithium–Sulfur Batteries. *Angewandte Chemie*, **2020**, 132, 12227-12236	3.6	3
17	Carbon: Nanoarchitectured Graphene/CNT@Porous Carbon with Extraordinary Electrical Conductivity and Interconnected Micro/Mesopores for Lithium-Sulfur Batteries (Adv. Funct. Mater. 19/2014). *Advanced Functional Materials*, **2014**, 24, 2920-2920	15.6	3

List of Publications

16	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). *Advanced Materials*, **2014**, 26, 6986-6986	24	3
15	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). *Advanced Materials*, **2014**, 26, 6199-6199	24	3
14	Lithium-Sulfur Batteries: A Cooperative Interface for Highly Efficient Lithium–Sulfur Batteries (Adv. Mater. 43/2016). *Advanced Materials*, **2016**, 28, 9550-9550	24	2
13	A generalizable, data-driven online approach to forecast capacity degradation trajectory of lithium batteries. *Journal of Energy Chemistry*, **2022**, 68, 548-555	12	2
12	Dynamics and Hysteresis of Hydrogen Intercalation and Deintercalation in Palladium Electrodes: A Multimodal In Situ X-ray Diffraction, Coulometry, and Computational Study. *Chemistry of Materials*, **2021**, 33, 5872-5884	9.6	2
11	Guiding the Catalytic Properties of Copper for Electrochemical CO Reduction by Metal Atom Decoration. *ACS Applied Materials & Interfaces*, **2021**,	9.5	2
10	Rücktitelbild: Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion (Angew. Chem. 23/2020). *Angewandte Chemie*, **2020**, 132, 9278-9278	3.6	1
9	Lithium Anodes: Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth (Adv. Mater. 11/2016). *Advanced Materials*, **2016**, 28, 2090-2090	24	1
8	Frontispiz: Enhanced Electrochemical Kinetics on Conductive Polar Mediators for Lithium–Sulfur Batteries. *Angewandte Chemie*, **2016**, 128,	3.6	1
7	Frontispiece: Enhanced Electrochemical Kinetics on Conductive Polar Mediators for Lithium–Sulfur Batteries. *Angewandte Chemie - International Edition*, **2016**, 55,	16.4	1
6	Innentitelbild: Activating Inert Metallic Compounds for High-Rate Lithium–Sulfur Batteries Through In Situ Etching of Extrinsic Metal (Angew. Chem. 12/2019). *Angewandte Chemie*, **2019**, 131, 3692-3692	3.6	1
5	Machine Learning-Assisted Screening of Stepped Alloy Surfaces for C1 Catalysis. *ACS Catalysis*,4252-4260	13.1	1
4	Rücktitelbild: Columnar Lithium Metal Anodes (Angew. Chem. 45/2017). *Angewandte Chemie*, **2017**, 129, 14508-14508	3.6	
3	Innentitelbild: Ion–Solvent Complexes Promote Gas Evolution from Electrolytes on a Sodium Metal Anode (Angew. Chem. 3/2018). *Angewandte Chemie*, **2018**, 130, 606-606	3.6	
2	Innenrücktitelbild: A Supramolecular Capsule for Reversible Polysulfide Storage/Delivery in Lithium-Sulfur Batteries (Angew. Chem. 51/2017). *Angewandte Chemie*, **2017**, 129, 16635-16635	3.6	
1	A Supramolecular Electrolyte for Lithium-Metal Batteries. *Batteries and Supercaps*, **2020**, 3, 5-5	5.6	