Jia-Qi Huang

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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.

329	34,551 citations	97	179
papers		h-index	g-index
370	42,053 ext. citations	12.8	8.03
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
329	Powering Lithium-Sulfur Battery Performance by Propelling Polysulfide Redox at Sulfiphilic Hosts. <i>Nano Letters</i> , 2016 , 16, 519-27	11.5	1055
328	Review on High-Loading and High-Energy LithiumBulfur Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1700260	21.8	1010
327	Nanostructured Metal Oxides and Sulfides for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017 , 29, 1601759	24	911
326	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
325	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
324	Unstacked double-layer templated graphene for high-rate lithium-sulphur batteries. <i>Nature Communications</i> , 2014 , 5, 3410	17.4	551
323	Ionic shield for polysulfides towards highly-stable lithiumBulfur batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 347-353	35.4	547
322	The road for nanomaterials industry: a review of carbon nanotube production, post-treatment, and bulk applications for composites and energy storage. <i>Small</i> , 2013 , 9, 1237-65	11	543
321	Nitrogen-doped graphene/carbon nanotube hybrids: in situ formation on bifunctional catalysts and their superior electrocatalytic activity for oxygen evolution/reduction reaction. <i>Small</i> , 2014 , 10, 2251-9	11	525
320	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
319	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
318	Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth. <i>Advanced Materials</i> , 2016 , 28, 2155-62	24	498
317	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
316	Multi-functional separator/interlayer system for high-stable lithium-sulfur batteries: Progress and prospects. <i>Energy Storage Materials</i> , 2015 , 1, 127-145	19.4	491
315	Hierarchical Nanocomposites Derived from Nanocarbons and Layered Double Hydroxides - Properties, Synthesis, and Applications. <i>Advanced Functional Materials</i> , 2012 , 22, 675-694	15.6	477
314	Graphene/single-walled carbon nanotube hybrids: one-step catalytic growth and applications for high-rate Li-S batteries. <i>ACS Nano</i> , 2012 , 6, 10759-69	16.7	462
313	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

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312	Nanoarchitectured 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
311	Enhanced Electrochemical Kinetics on Conductive Polar Mediators for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12990-12995	16.4	442
310	Hierarchical Free-Standing Carbon-Nanotube Paper Electrodes with Ultrahigh Sulfur-Loading for LithiumBulfur Batteries. <i>Advanced Functional Materials</i> , 2014 , 24, 6105-6112	15.6	432
309	A Cooperative Interface for Highly Efficient Lithium-Sulfur Batteries. Advanced Materials, 2016 , 28, 9551	2 9558	431
308	Direct growth of graphene/hexagonal boron nitride stacked layers. <i>Nano Letters</i> , 2011 , 11, 2032-7	11.5	413
307	Implantable Solid Electrolyte Interphase in Lithium-Metal Batteries. <i>CheM</i> , 2017 , 2, 258-270	16.2	411
306	Highly Stable Lithium Metal Batteries Enabled by Regulating the Solvation of Lithium Ions in Nonaqueous Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5301-5305	16.4	402
305	A review of rechargeable batteries for portable electronic devices. <i>InformationMaterily</i> , 2019 , 1, 6-32	23.1	400
304	Artificial Soft R igid Protective Layer for Dendrite-Free Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2018 , 28, 1705838	15.6	355
303	Conductive and Catalytic Triple-Phase Interfaces Enabling Uniform Nucleation in High-Rate LithiumBulfur Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1802768	21.8	347
302	Lithium Bond Chemistry in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8178-8182	16.4	332
301	Aligned carbon nanotube/sulfur composite cathodes with high sulfur content for lithiumBulfur batteries. <i>Nano Energy</i> , 2014 , 4, 65-72	17.1	328
300	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
299	Artificial Interphases for Highly Stable Lithium Metal Anode. <i>Matter</i> , 2019 , 1, 317-344	12.7	303
298	Toward Full Exposure of Active Sites Nanocarbon Electrocatalyst with Surface Enriched Nitrogen for Superior Oxygen Reduction and Evolution Reactivity. <i>Advanced Functional Materials</i> , 2014 , 24, 5956-	5561	300
297	Carbon nanotube mass production: principles and processes. <i>ChemSusChem</i> , 2011 , 4, 864-89	8.3	288
296	Beyond lithium ion batteries: Higher energy density battery systems based on lithium metal anodes. <i>Energy Storage Materials</i> , 2018 , 12, 161-175	19.4	284
295	Dual-Layered Film Protected Lithium Metal Anode to Enable Dendrite-Free Lithium Deposition. <i>Advanced Materials</i> , 2018 , 30, e1707629	24	278

294	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
293	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
292	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
291	Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains High-Voltage Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14055-14059	16.4	249
290	An Armored Mixed Conductor Interphase on a Dendrite-Free Lithium-Metal Anode. <i>Advanced Materials</i> , 2018 , 30, e1804461	24	246
289	The gap between long lifespan Li-S coin and pouch cells: The importance of lithium metal anode protection. <i>Energy Storage Materials</i> , 2017 , 6, 18-25	19.4	240
288	Annealing a graphene oxide film to produce a free standing high conductive graphene film. <i>Carbon</i> , 2012 , 50, 659-667	10.4	236
287	Lithium-Sulfur Batteries under Lean Electrolyte Conditions: Challenges and Opportunities. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12636-12652	16.4	230
286	A Bifunctional Perovskite Promoter for Polysulfide Regulation toward Stable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2018 , 30, 1705219	24	228
285	Regulating the Inner Helmholtz Plane for Stable Solid Electrolyte Interphase on Lithium Metal Anodes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9422-9429	16.4	216
284	Li2S5-based ternary-salt electrolyte for robust lithium metal anode. <i>Energy Storage Materials</i> , 2016 , 3, 77-84	19.4	215
283	Implanting Atomic Cobalt within Mesoporous Carbon toward Highly Stable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019 , 31, e1903813	24	215
282	Entrapment of sulfur in hierarchical porous graphene for lithium ulfur batteries with high rate performance from 40 to 60 Cc. <i>Nano Energy</i> , 2013 , 2, 314-321	17.1	204
281	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
280	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
279	A Review of Functional Binders in LithiumBulfur Batteries. Advanced Energy Materials, 2018, 8, 1802107	21.8	203
278	Lithium metal protection through in-situ formed solid electrolyte interphase in lithium-sulfur batteries: The role of polysulfides on lithium anode. <i>Journal of Power Sources</i> , 2016 , 327, 212-220	8.9	201
277	Heterogeneous/Homogeneous Mediators for High-Energy-Density Lithium Bulfur Batteries: Progress and Prospects. <i>Advanced Functional Materials</i> , 2018 , 28, 1707536	15.6	197

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276	Expediting redox kinetics of sulfur species by atomic-scale electrocatalysts in lithium ulfur batteries. <i>Informa</i> (Informa) (23.1	196
275	3D Carbonaceous Current Collectors: The Origin of Enhanced Cycling Stability for High-Sulfur-Loading LithiumBulfur Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 6351-6358	15.6	191
274	A Perspective toward Practical Lithium-Sulfur Batteries. ACS Central Science, 2020, 6, 1095-1104	16.8	184
273	Lithiophilic LiC Layers on Carbon Hosts Enabling Stable Li Metal Anode in Working Batteries. <i>Advanced Materials</i> , 2019 , 31, e1807131	24	177
272	Regulating Anions in the Solvation Sheath of Lithium Ions for Stable Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 411-416	20.1	176
271	Lithium Thatrix composite anode protected by a solid electrolyte layer for stable lithium metal batteries. <i>Journal of Energy Chemistry</i> , 2019 , 37, 29-34	12	175
270	Porphyrin-Derived Graphene-Based Nanosheets Enabling Strong Polysulfide Chemisorption and Rapid Kinetics in LithiumBulfur Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1800849	21.8	172
269	Reviewli Metal Anode in Working Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A6058-A6072	3.9	172
268	Controlling Dendrite Growth in Solid-State Electrolytes. ACS Energy Letters, 2020, 5, 833-843	20.1	165
267	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
266	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
265	Dual-Phase Single-Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries. <i>Advanced Materials</i> , 2019 , 31, e1808392	24	162
264	Embedded high density metal nanoparticles with extraordinary thermal stability derived from guest-host mediated layered double hydroxides. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14739-41	16.4	161
263	A Toolbox for LithiumBulfur Battery Research: Methods and Protocols. Small Methods, 2017, 1, 1700134	412.8	160
262	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
261	Rational design of two-dimensional nanomaterials for lithiumBulfur batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 1049-1075	35.4	156
260	Interconnected carbon nanotube/graphene nanosphere scaffolds as free-standing paper electrode for high-rate and ultra-stable lithiumBulfur batteries. <i>Nano Energy</i> , 2015 , 11, 746-755	17.1	154
259	Binder-free activated carbon/carbon nanotube paper electrodes for use in supercapacitors. <i>Nano Research</i> , 2011 , 4, 870-881	10	154

258	Fast Charging Lithium Batteries: Recent Progress and Future Prospects. Small, 2019, 15, e1805389	11	151
257	Columnar Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14207-14211	16.4	146
256	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
255	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
254	A compact inorganic layer for robust anode protection in lithium-sulfur batteries. <i>Informat</i> Materilly, 2020 , 2, 379-388	23.1	133
253	Scaled-up fabrication of porous-graphene-modified separators for high-capacity lithiumBulfur batteries. <i>Energy Storage Materials</i> , 2017 , 7, 56-63	19.4	131
252	A review on energy chemistry of fast-charging anodes. <i>Chemical Society Reviews</i> , 2020 , 49, 3806-3833	58.5	131
251	Aligned sulfur-coated carbon nanotubes with a polyethylene glycol barrier at one end for use as a high efficiency sulfur cathode. <i>Carbon</i> , 2013 , 58, 99-106	10.4	131
250	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
249	A Sustainable Solid Electrolyte Interphase for High-Energy-Density Lithium Metal Batteries Under Practical Conditions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3252-3257	16.4	127
248	Recent Advances in Energy Chemical Engineering of Next-Generation Lithium Batteries. <i>Engineering</i> , 2018 , 4, 831-847	9.7	116
247	Toward Critical Electrode/Electrolyte Interfaces in Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1909887	15.6	114
246	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
245	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
244	Plating/Stripping Behavior of Actual Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2019 , 9, 1902254	21.8	109
243	Hierarchical Composites of Single/Double-Walled Carbon Nanotubes Interlinked Flakes from Direct Carbon Deposition on Layered Double Hydroxides. <i>Advanced Functional Materials</i> , 2010 , 20, 677-685	15.6	109
242	Liquid phase therapy to solid electrolytellectrode interface in solid-state Li metal batteries: A review. <i>Energy Storage Materials</i> , 2020 , 24, 75-84	19.4	109
241	A Quinonoid-Imine-Enriched Nanostructured Polymer Mediator for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017 , 29, 1606802	24	107

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240	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
239	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
238	The catalytic pathways of hydrohalogenation over metal-free nitrogen-doped carbon nanotubes. <i>ChemSusChem</i> , 2014 , 7, 723-8	8.3	106
237	Regulating Interfacial Chemistry in Lithium-Ion Batteries by a Weakly Solvating Electrolyte*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4090-4097	16.4	106
236	Enhanced Electrochemical Kinetics on Conductive Polar Mediators for LithiumBulfur Batteries. <i>Angewandte Chemie</i> , 2016 , 128, 13184-13189	3.6	104
235	Towards high purity graphene/single-walled carbon nanotube hybrids with improved electrochemical capacitive performance. <i>Carbon</i> , 2013 , 54, 403-411	10.4	100
234	Highly Stable Lithium Metal Batteries Enabled by Regulating the Solvation of Lithium Ions in Nonaqueous Electrolytes. <i>Angewandte Chemie</i> , 2018 , 130, 5399-5403	3.6	97
233	Recent advances in understanding dendrite growth on alkali metal anodes. <i>EnergyChem</i> , 2019 , 1, 10000	3 36.9	97
232	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
231	Sulfur Redox Reactions at Working Interfaces in LithiumBulfur Batteries: A Perspective. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1802046	4.6	95
230	Vertically aligned carbon nanotube arrays grown on a lamellar catalyst by fluidized bed catalytic chemical vapor deposition. <i>Carbon</i> , 2009 , 47, 2600-2610	10.4	94
229	Advanced energy materials for flexible batteries in energy storage: A review. SmartMat, 2020, 1,	22.8	93
228	Effective exposure of nitrogen heteroatoms in 3D porous graphene framework for oxygen reduction reaction and lithiumBulfur batteries. <i>Journal of Energy Chemistry</i> , 2018 , 27, 167-175	12	90
227	Carbon-nanotube-array double helices. Angewandte Chemie - International Edition, 2010, 49, 3642-5	16.4	90
226	Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains High-Voltage Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 14251-14255	3.6	87
225	Radial growth of vertically aligned carbon nanotube arrays from ethylene on ceramic spheres. <i>Carbon</i> , 2008 , 46, 1152-1158	10.4	87
224	Alloy Anodes for Rechargeable Alkali-Metal Batteries: Progress and Challenge 2019 , 1, 217-229		85
223	Redox Comediation with Organopolysulfides in Working Lithium-Sulfur Batteries. <i>CheM</i> , 2020 , 6, 3297-	336.12	84

222	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
221	Toward Practical High-Energy Batteries: A Modular-Assembled Oval-Like Carbon Microstructure for Thick Sulfur Electrodes. <i>Advanced Materials</i> , 2017 , 29, 1700598	24	82
220	Synchronous Growth of Vertically Aligned Carbon Nanotubes with Pristine Stress in the Heterogeneous Catalysis Process. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14638-14643	3.8	82
219	Perspective on the critical role of interface for advanced batteries. <i>Journal of Energy Chemistry</i> , 2020 , 47, 217-220	12	82
218	Three-dimensional aluminum foam/carbon nanotube scaffolds as long- and short-range electron pathways with improved sulfur loading for high energy density lithiumBulfur batteries. <i>Journal of Power Sources</i> , 2014 , 261, 264-270	8.9	79
217	A review of solid electrolytes for safe lithium-sulfur batteries. <i>Science China Chemistry</i> , 2017 , 60, 1508-1	5/26	79
216	Electrochemical Diagram of an Ultrathin Lithium Metal Anode in Pouch Cells. <i>Advanced Materials</i> , 2019 , 31, e1902785	24	78
215	Flexible all-carbon interlinked nanoarchitectures as cathode scaffolds for high-rate lithiumBulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10869-10875	13	78
214	100 mm long, semiconducting triple-walled carbon nanotubes. <i>Advanced Materials</i> , 2010 , 22, 1867-71	24	78
213	The feasibility of producing MWCNT paper and strong MWCNT film from VACNT array. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 92, 531-539	2.6	78
212	Mass production of aligned carbon nanotube arrays by fluidized bed catalytic chemical vapor deposition. <i>Carbon</i> , 2010 , 48, 1196-1209	10.4	77
211	Review of nanostructured current collectors in lithiumBulfur batteries. <i>Nano Research</i> , 2017 , 10, 4027-4	054	74
210	Critical Current Density in Solid-State Lithium Metal Batteries: Mechanism, Influences, and Strategies. <i>Advanced Functional Materials</i> , 2021 , 31, 2009925	15.6	74
209	A Review of Advanced Energy Materials for MagnesiumBulfur Batteries. <i>Energy and Environmental Materials</i> , 2018 , 1, 100-112	13	74
208	Inhibiting Solvent Co-Intercalation in a Graphite Anode by a Localized High-Concentration Electrolyte in Fast-Charging Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3402-3406	16.4	73
207	Cathode materials based on carbon nanotubes for high-energy-density lithiumBulfur batteries. <i>Carbon</i> , 2014 , 75, 161-168	10.4	72
206	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
205	A perspective on sustainable energy materials for lithium batteries. <i>SusMat</i> , 2021 , 1, 38-50		69

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204	Composite Cathodes Containing SWCNT@S Coaxial Nanocables: Facile Synthesis, Surface Modification, and Enhanced Performance for Li-Ion Storage. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 158-165	3.1	68
203	Current-density dependence of Li2S/Li2S2 growth in lithiumBulfur batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2976-2982	35.4	67
202	Layered double hydroxides as catalysts for the efficient growth of high quality single-walled carbon nanotubes in a fluidized bed reactor. <i>Carbon</i> , 2010 , 48, 3260-3270	10.4	67
201	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
200	Towards full demonstration of high areal loading sulfur cathode in lithium ulfur batteries. <i>Journal of Energy Chemistry</i> , 2019 , 39, 17-22	12	66
199	Lithium-Anode Protection in LithiumBulfur Batteries. <i>Trends in Chemistry</i> , 2019 , 1, 693-704	14.8	65
198	Beaver-dam-like membrane: A robust and sulphifilic MgBO2(OH)/CNT/PP nest separator in Li-S batteries. <i>Energy Storage Materials</i> , 2017 , 8, 153-160	19.4	63
197	Sulfur Nanodots Stitched in 2D "Bubble-Like" Interconnected Carbon Fabric as Reversibility-Enhanced Cathodes for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2017 , 11, 4694-4702	16.7	62
196	Designing solid-state interfaces on lithium-metal anodes: a review. <i>Science China Chemistry</i> , 2019 , 62, 1286-1299	7.9	61
195	Improvement of oil adsorption performance by a sponge-like natural vermiculite-carbon nanotube hybrid. <i>Applied Clay Science</i> , 2011 , 53, 1-7	5.2	61
194	An Organodiselenide Comediator to Facilitate Sulfur Redox Kinetics in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2021 , 33, e2007298	24	61
193	3D Hierarchical Porous Graphene-Based Energy Materials: Synthesis, Functionalization, and Application in Energy Storage and Conversion. <i>Electrochemical Energy Reviews</i> , 2019 , 2, 332-371	29.3	59
192	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
191	A review on the failure and regulation of solid electrolyte interphase in lithium batteries. <i>Journal of Energy Chemistry</i> , 2021 , 59, 306-319	12	59
190	Dictating High-Capacity LithiumBulfur Batteries through Redox-Mediated Lithium Sulfide Growth. Small Methods, 2020 , 4, 1900344	12.8	58
189	Identifying the Critical Anion-Cation Coordination to Regulate the Electric Double Layer for an Efficient Lithium-Metal Anode Interface. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4215-4220	16.4	58
188	Dramatic enhancements in toughness of polyimide nanocomposite via long-CNT-induced long-range creep. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7050		57
187	Electrolyte Regulation towards Stable Lithium-Metal Anodes in Lithium-Sulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10732-10745	16.4	56

186	Recent progress on biomass-derived ecomaterials toward advanced rechargeable lithium batteries. <i>EcoMat</i> , 2020 , 2, e12019	9.4	55
185	Reactivity enhancement of N-CNTs in green catalysis of C2H2 hydrochlorination by a Cu catalyst. <i>RSC Advances</i> , 2014 , 4, 7766-7769	3.7	55
184	MnO2 nanofibers/carbon nanotubes hierarchically assembled microspheres: Approaching practical applications of high-performance aqueous Zn-ion batteries. <i>Journal of Power Sources</i> , 2019 , 443, 227244	8.9	54
183	Lithium-Sulfur Batteries: Dendrite-Free Nanostructured Anode: Entrapment of Lithium in a 3D Fibrous Matrix for Ultra-Stable LithiumBulfur Batteries (Small 21/2014). <i>Small</i> , 2014 , 10, 4222-4222	11	53
182	Mass transportation mechanism in electric-biased carbon nanotubes. <i>Nano Letters</i> , 2010 , 10, 4309-15	11.5	53
181	Shielding Polysulfide Intermediates by an Organosulfur-Containing Solid Electrolyte Interphase on the Lithium Anode in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2020 , 32, e2003012	24	53
180	Dry spinning yarns from vertically aligned carbon nanotube arrays produced by an improved floating catalyst chemical vapor deposition method. <i>Carbon</i> , 2010 , 48, 2855-2861	10.4	52
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178	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
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