

Xin-hui Xia

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293
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140
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312
ext. papers

25,263
ext. citations

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avg, IF

7.27
L-index

#	Paper	IF	Citations
293	Array of nanosheets render ultrafast and high-capacity Na-ion storage by tunable pseudocapacitance. <i>Nature Communications</i> , 2016 , 7, 12122	17.4	990
292	High-quality metal oxide core/shell nanowire arrays on conductive substrates for electrochemical energy storage. <i>ACS Nano</i> , 2012 , 6, 5531-8	16.7	897
291	Transition Metal Carbides and Nitrides in Energy Storage and Conversion. <i>Advanced Science</i> , 2016 , 3, 1500286	13.6	762
290	Self-supported hydrothermal synthesized hollow Co ₃ O ₄ nanowire arrays with high supercapacitor capacitance. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9319		614
289	Strong sulfur binding with conducting Magn η -phase Ti(n)O ₂ (n-1) nanomaterials for improving lithium-sulfur batteries. <i>Nano Letters</i> , 2014 , 14, 5288-94	11.5	579
288	Green and facile fabrication of hollow porous MnO/C microspheres from microalgae for lithium-ion batteries. <i>ACS Nano</i> , 2013 , 7, 7083-92	16.7	462
287	Graphene quantum dots coated VO ₂ arrays for highly durable electrodes for Li and Na ion batteries. <i>Nano Letters</i> , 2015 , 15, 565-73	11.5	417
286	A V ₂ O ₅ /conductive-polymer core/shell nanobelt array on three-dimensional graphite foam: a high-rate, ultrastable, and freestanding cathode for lithium-ion batteries. <i>Advanced Materials</i> , 2014 , 26, 5794-800	24	400
285	A new type of porous graphite foams and their integrated composites with oxide/polymer core/shell nanowires for supercapacitors: structural design, fabrication, and full supercapacitor demonstrations. <i>Nano Letters</i> , 2014 , 14, 1651-8	11.5	395
284	Generic Synthesis of Carbon Nanotube Branches on Metal Oxide Arrays Exhibiting Stable High-Rate and Long-Cycle Sodium-Ion Storage. <i>Small</i> , 2016 , 12, 3048-58	11	377
283	Freestanding Co ₃ O ₄ nanowire array for high performance supercapacitors. <i>RSC Advances</i> , 2012 , 2, 18353-7		366
282	3D lithium metal embedded within lithiophilic porous matrix for stable lithium metal batteries. <i>Nano Energy</i> , 2017 , 37, 177-186	17.1	334
281	Directional Construction of Vertical Nitrogen-Doped 1T-2H MoSe ₂ /Graphene Shell/Core Nanoflake Arrays for Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2017 , 29, 1700748	24	328
280	Solution synthesis of metal oxides for electrochemical energy storage applications. <i>Nanoscale</i> , 2014 , 6, 5008-48	7.7	321
279	Popcorn Inspired Porous Macrocellular Carbon: Rapid Puffing Fabrication from Rice and Its Applications in Lithium Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1701110	21.8	317
278	Mesoporous Co ₃ O ₄ monolayer hollow-sphere array as electrochemical pseudocapacitor material. <i>Chemical Communications</i> , 2011 , 47, 5786-8	5.8	288
277	Rationally Designed Hierarchical TiO ₂ @Fe ₂ O ₃ Hollow Nanostructures for Improved Lithium Ion Storage. <i>Advanced Energy Materials</i> , 2013 , 3, 737-743	21.8	274

276	Hierarchically porous NiO film grown by chemical bath deposition via a colloidal crystal template as an electrochemical pseudocapacitor material. <i>Journal of Materials Chemistry</i> , 2011 , 21, 671-679		259
275	Confining Sulfur in Integrated Composite Scaffold with Highly Porous Carbon Fibers/Vanadium Nitride Arrays for High-Performance Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1706391	15.6	258
274	Graphene sheet/porous NiO hybrid film for supercapacitor applications. <i>Chemistry - A European Journal</i> , 2011 , 17, 10898-905	4.8	246
273	Hydrothermally synthesized WO ₃ nanowire arrays with highly improved electrochromic performance. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5492		231
272	Exploring Advanced Sandwiched Arrays by Vertical Graphene and N-Doped Carbon for Enhanced Sodium Storage. <i>Advanced Energy Materials</i> , 2017 , 7, 1601804	21.8	215
271	Biotemplated fabrication of hierarchically porous NiO/C composite from lotus pollen grains for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9209		215
270	3D TiC/C Core/Shell Nanowire Skeleton for Dendrite-Free and Long-Life Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2018 , 8, 1702322	21.8	204
269	Highly mesoporous carbon foams synthesized by a facile, cost-effective and template-free Pechini method for advanced lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3295	13	191
268	Tubular TiC fibre nanostructures as supercapacitor electrode materials with stable cycling life and wide-temperature performance. <i>Energy and Environmental Science</i> , 2015 , 8, 1559-1568	35.4	188
267	Co ₃ O ₄ core-shell nanowire array as an advanced anode material for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15056		187
266	Phase Modulation of (1T-2H)-MoSe ₂ /TiC-C Shell/Core Arrays via Nitrogen Doping for Highly Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2018 , 30, e1802223	24	183
265	Controllable growth of conducting polymers shell for constructing high-quality organic/inorganic core/shell nanostructures and their optical-electrochemical properties. <i>Nano Letters</i> , 2013 , 13, 4562-8	11.5	177
264	Hollow core-shell nanostructure supercapacitor electrodes: gap matters. <i>Energy and Environmental Science</i> , 2012 , 5, 9085	35.4	169
263	Facilitation of sulfur evolution reaction by pyridinic nitrogen doped carbon nanoflakes for highly-stable lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2018 , 10, 1-9	19.4	157
262	Fe/N ₄ Sites Embedded into Carbon Nanofiber Integrated with Electrochemically Exfoliated Graphene for Oxygen Evolution in Acidic Medium. <i>Advanced Energy Materials</i> , 2018 , 8, 1801912	21.8	149
261	Multiscale Graphene-Based Materials for Applications in Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1803342	21.8	146
260	Hollow TiO@CoS Core-Branch Arrays as Bifunctional Electrocatalysts for Efficient Oxygen/Hydrogen Production. <i>Advanced Science</i> , 2018 , 5, 1700772	13.6	145
259	VO ₂ nanoflake arrays for supercapacitor and Li-ion battery electrodes: performance enhancement by hydrogen molybdenum bronze as an efficient shell material. <i>Materials Horizons</i> , 2015 , 2, 237-244	14.4	142

258	Facile synthesis of single-crystalline mesoporous β -Fe ₂ O ₃ and Fe ₃ O ₄ nanorods as anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20566		141
257	Heteroatom Doping: An Effective Way to Boost Sodium Ion Storage. <i>Advanced Energy Materials</i> , 2020 , 10, 2000927	21.8	134
256	Encapsulating silicon nanoparticles into mesoporous carbon forming pomegranate-structured microspheres as a high-performance anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11197-11203	13	133
255	Implanting Niobium Carbide into Trichoderma Spore Carbon: a New Advanced Host for Sulfur Cathodes. <i>Advanced Materials</i> , 2019 , 31, e1900009	24	132
254	Novel Metal@Carbon Spheres Core/Shell Arrays by Controlled Self-Assembly of Carbon Nanospheres: A Stable and Flexible Supercapacitor Electrode. <i>Advanced Energy Materials</i> , 2015 , 5, 1401709	21.8	129
253	Enhanced sulfide chemisorption using boron and oxygen dually doped multi-walled carbon nanotubes for advanced lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 632-640	13	129
252	Facile fabrication of integrated three-dimensional C-MoSe ₂ /reduced graphene oxide composite with enhanced performance for sodium storage. <i>Nano Research</i> , 2016 , 9, 1618-1629	10	129
251	Tailored Li ₂ S/B ₂ S ₅ glass-ceramic electrolyte by MoS ₂ doping, possessing high ionic conductivity for all-solid-state lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2829-2834	13	127
250	Ultrafine Metal Nanoparticles/N-Doped Porous Carbon Hybrids Coated on Carbon Fibers as Flexible and Binder-Free Water Splitting Catalysts. <i>Advanced Energy Materials</i> , 2017 , 7, 1700220	21.8	126
249	Enhancing the Capacitive Storage Performance of Carbon Fiber Textile by Surface and Structural Modulation for Advanced Flexible Asymmetric Supercapacitors. <i>Advanced Functional Materials</i> , 2019 , 29, 1806329	15.6	125
248	Multicolor electrochromic polyaniline/WO ₃ hybrid thin films: One-pot molecular assembling synthesis. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17316		121
247	Metal oxide nanoparticles induced step-edge nucleation of stable Li metal anode working under an ultrahigh current density of 15 mA cm ⁻² . <i>Nano Energy</i> , 2018 , 45, 203-209	17.1	120
246	Smart Construction of Integrated CNTs/LiTiO Core/Shell Arrays with Superior High-Rate Performance for Application in Lithium-Ion Batteries. <i>Advanced Science</i> , 2018 , 5, 1700786	13.6	118
245	Perovskite solar cell powered electrochromic batteries for smart windows. <i>Materials Horizons</i> , 2016 , 3, 588-595	14.4	118
244	Enhancing Ultrafast Lithium Ion Storage of Li ₄ Ti ₅ O ₁₂ by Tailored TiC/C Core/Shell Skeleton Plus Nitrogen Doping. <i>Advanced Functional Materials</i> , 2018 , 28, 1802756	15.6	118
243	Confining Sulfur in N-Doped Porous Carbon Microspheres Derived from Microalgae for Advanced Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23782-23791	9.5	115
242	Synergistic Doping and Intercalation: Realizing Deep Phase Modulation on MoS Arrays for High-Efficiency Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16289-16296	16.4	113
241	Electrode Design for Lithium-Sulfur Batteries: Problems and Solutions. <i>Advanced Functional Materials</i> , 2020 , 30, 1910375	15.6	109

240	All-solid-state lithium-sulfur batteries based on a newly designed Li ₇ P _{2.9} Mn _{0.1} S _{10.7} O ₃ superionic conductor. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6310-6317	13	108
239	Oxygen vacancy modulated Ti ₂ Nb ₁₀ O _{29-x} embedded onto porous bacterial cellulose carbon for highly efficient lithium ion storage. <i>Nano Energy</i> , 2019 , 58, 355-364	17.1	105
238	Natural biomass-derived carbons for electrochemical energy storage. <i>Materials Research Bulletin</i> , 2017 , 88, 234-241	5.1	103
237	Defect Promoted Capacity and Durability of N-MnO Branch Arrays via Low-Temperature NH ₃ Treatment for Advanced Aqueous Zinc Ion Batteries. <i>Small</i> , 2019 , 15, e1905452	11	103
236	Construction of Co ₃ O ₄ nanotubes as high-performance anode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2015 , 160, 15-21	6.7	103
235	Spore Carbon from <i>Aspergillus Oryzae</i> for Advanced Electrochemical Energy Storage. <i>Advanced Materials</i> , 2018 , 30, e1805165	24	103
234	Hierarchical porous Ti ₂ Nb ₁₀ O ₂₉ nanospheres as superior anode materials for lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21134-21139	13	102
233	In Situ Solid Electrolyte Interphase from Spray Quenching on Molten Li: A New Way to Construct High-Performance Lithium-Metal Anodes. <i>Advanced Materials</i> , 2019 , 31, e1806470	24	101
232	Revisiting Scientific Issues for Industrial Applications of Lithium-Sulfur Batteries. <i>Energy and Environmental Materials</i> , 2018 , 1, 196-208	13	101
231	Ionic conductivity promotion of polymer electrolyte with ionic liquid grafted oxides for all-solid-state lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12934-12942	13	98
230	Boosting sodium ion storage by anchoring MoO ₂ on vertical graphene arrays. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15546-15552	13	98
229	C-Plasma of Hierarchical Graphene Survives SnS Bundles for Ultrastable and High Volumetric Na-Ion Storage. <i>Advanced Materials</i> , 2018 , 30, e1804833	24	98
228	Hollow metallic 1T MoS ₂ arrays grown on carbon cloth: a freestanding electrode for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18318-18324	13	94
227	Nitrogen-Doped Carbon Embedded MoS ₂ Microspheres as Advanced Anodes for Lithium- and Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2016 , 22, 11617-23	4.8	93
226	Vertical graphene/Ti ₂ Nb ₁₀ O ₂₉ /hydrogen molybdenum bronze composite arrays for enhanced lithium ion storage. <i>Energy Storage Materials</i> , 2018 , 12, 137-144	19.4	93
225	Highly efficient electrolytic exfoliation of graphite into graphene sheets based on Li ions intercalation-expansion-microexplosion mechanism. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10452		92
224	Bio-inspired fabrication of carbon nanotiles for high performance cathode of Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2290-2296	13	91
223	Enhanced electrochromic and energy storage performance in mesoporous WO ₃ film and its application in a bi-functional smart window. <i>Nanoscale</i> , 2018 , 10, 8162-8169	7.7	90

- 222 Mesoporous NiCoO Nanoplates on Three-Dimensional Graphene Foam as an Efficient Electrocatalyst for the Oxygen Reduction Reaction. *ACS Applied Materials & Interfaces*, **2016**, 8, 28274-28282
- 221 Oxygen Defect Modulated Titanium Niobium Oxide on Graphene Arrays: An Open-Door for High-Performance 1.4 V Symmetric Supercapacitor in Acidic Aqueous Electrolyte. *Advanced Functional Materials*, **2018**, 28, 1805618 15.6 86
- 220 Porous Carbon Hosts for Lithium-Sulfur Batteries. *Chemistry - A European Journal*, **2019**, 25, 3710-3725 4.8 85
- 219 A Newly Designed Composite Gel Polymer Electrolyte Based on Poly(Vinylidene Fluoride-Hexafluoropropylene) (PVDF-HFP) for Enhanced Solid-State Lithium-Sulfur Batteries. *Chemistry - A European Journal*, **2017**, 23, 15203-15209 4.8 82
- 218 Exploring Self-Healing Liquid Na-K Alloy for Dendrite-Free Electrochemical Energy Storage. *Advanced Materials*, **2018**, 30, e1804011 24 82
- 217 Synthesis of MnO/C composites derived from pollen template for advanced lithium-ion batteries. *Electrochimica Acta*, **2015**, 152, 286-293 6.7 80
- 216 A CNT cocoon on sodium manganate nanotubes forming a core/branch cathode coupled with a helical carbon nanofibre anode for enhanced sodium ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 11207-11213 13 80
- 215 StrawBrick-Like Carbon Fiber Cloth/Lithium Composite Electrode as an Advanced Lithium Metal Anode. *Small Methods*, **2018**, 2, 1800035 12.8 80
- 214 Emerging of Heterostructure Materials in Energy Storage: A Review. *Advanced Materials*, **2021**, 33, e2100255 80
- 213 Novel carbon channels from loofah sponge for construction of metal sulfide/carbon composites with robust electrochemical energy storage. *Journal of Materials Chemistry A*, **2017**, 5, 7578-7585 13 79
- 212 Fabrication of metal oxide nanobranches on atomic-layer-deposited TiO₂ nanotube arrays and their application in energy storage. *Nanoscale*, **2013**, 5, 6040-7 7.7 77
- 211 Recent progress on MOF-derived carbon materials for energy storage **2020**, 2, 176-202 76
- 210 Integrated photoelectrochemical energy storage: solar hydrogen generation and supercapacitor. *Scientific Reports*, **2012**, 2, 981 4.9 75
- 209 Biomass derived Ni(OH)₂@porous carbon/sulfur composites synthesized by a novel sulfur impregnation strategy based on supercritical CO₂ technology for advanced Li-S batteries. *Journal of Power Sources*, **2018**, 378, 73-80 8.9 75
- 208 Single-Crystalline, Metallic TiC Nanowires for Highly Robust and Wide-Temperature Electrochemical Energy Storage. *Small*, **2017**, 13, 1602742 11 73
- 207 Rationally Designed Silicon Nanostructures as Anode Material for Lithium-Ion Batteries. *Advanced Engineering Materials*, **2018**, 20, 1700591 3.5 72
- 206 Interface issues of lithium metal anode for high-energy batteries: Challenges, strategies, and perspectives. *Information Materials*, **2021**, 3, 155-174 23.1 72
- 205 A novel durable double-conductive core-shell structure applying to the synthesis of silicon anode for lithium ion batteries. *Journal of Power Sources*, **2018**, 384, 207-213 8.9 71

204	Introducing Oxygen Defects into Phosphate Ions Intercalated Manganese Dioxide/Vertical Multilayer Graphene Arrays to Boost Flexible Zinc Ion Storage. <i>Small Methods</i> , 2020 , 4, 1900828	12.8	69
203	Unraveling the Intra and Intercycle Interfacial Evolution of Li6PS5Cl-Based All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903311	21.8	69
202	Hybrid vertical graphene/lithium titanate/CNTs arrays for lithium ion storage with extraordinary performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8916-8921	13	66
201	Superior high-rate lithium-ion storage on Ti2Nb10O29 arrays via synergistic TiC/C skeleton and N-doped carbon shell. <i>Nano Energy</i> , 2018 , 54, 304-312	17.1	66
200	3D CNTs Networks Enable MnO2 Cathodes with High Capacity and Superior Rate Capability for Flexible Rechargeable Zn/MnO2 Batteries. <i>Small Methods</i> , 2019 , 3, 1900525	12.8	64
199	Integration of Energy Harvesting and Electrochemical Storage Devices. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700182	6.8	63
198	Biotemplating of phosphate hierarchical rechargeable LiFePO4/C spirulina microstructures. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6498		63
197	Template-free synthesis of hollow Fe2O3 microcubes for advanced lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2307-2312	13	62
196	Exploring hydrogen molybdenum bronze for sodium ion storage: Performance enhancement by vertical graphene core and conductive polymer shell. <i>Nano Energy</i> , 2018 , 44, 265-271	17.1	62
195	Rational construction of a metal core for smart combination with Li4Ti5O12 as integrated arrays with superior high-rate Li-ion storage performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1394-1399 ¹³	13	61
194	Biotemplated fabrication of Sn@C anode materials based on the unique metal biosorption behavior of microalgae. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3696-702	9.5	61
193	Boosting fast energy storage by synergistic engineering of carbon and deficiency. <i>Nature Communications</i> , 2020 , 11, 132	17.4	61
192	A synergistic vertical graphene skeleton and Sn shell to construct high-performance TiNb2O7-based core/shell arrays. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20195-20204	13	61
191	SnO Nanoflake Arrays Coated with Polypyrrole on a Carbon Cloth as Flexible Anodes for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24198-24204	9.5	60
190	Bacterium, Fungus, and Virus Microorganisms for Energy Storage and Conversion. <i>Small Methods</i> , 2019 , 3, 1900596	12.8	59
189	Anchoring MnO2 on nitrogen-doped porous carbon nanosheets as flexible arrays cathodes for advanced rechargeable Zn/MnO2 batteries. <i>Energy Storage Materials</i> , 2020 , 29, 52-59	19.4	59
188	All-solid-state electrochromic devices based on WO3 NiO films: material developments and future applications. <i>Science China Chemistry</i> , 2017 , 60, 3-12	7.9	59
187	Monolayer titanium carbide hollow sphere arrays formed via an atomic layer deposition assisted method and their excellent high-temperature supercapacitor performance. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18717-18722	13	58

186	Atomic-layer-deposited iron oxide on arrays of metal/carbon spheres and their application for electrocatalysis. <i>Nano Energy</i> , 2016 , 20, 244-253	17.1	58
185	High-energy cathode materials for Li-ion batteries: A review of recent developments. <i>Science China Technological Sciences</i> , 2015 , 58, 1809-1828	3.5	56
184	Original growth mechanism for ultra-stable dendrite-free potassium metal electrode. <i>Nano Energy</i> , 2019 , 62, 367-375	17.1	55
183	Coupled Biphasic (1T-2H)-MoSe ₂ on Mold Spore Carbon for Advanced Hydrogen Evolution Reaction. <i>Small</i> , 2019 , 15, e1901796	11	54
182	Construction of All-Solid-State Batteries based on a Sulfur-Graphene Composite and Li Si P S Cl Solid Electrolyte. <i>Chemistry - A European Journal</i> , 2017 , 23, 13950-13956	4.8	52
181	High-Index-Faceted NiS Branch Arrays as Bifunctional Electrocatalysts for Efficient Water Splitting. <i>Nano-Micro Letters</i> , 2019 , 11, 12	19.5	50
180	Ordered lithiophilic sites to regulate Li plating/stripping behavior for superior lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21794-21801	13	49
179	Hierarchical MoS ₂ /Carbon Composite Microspheres as Advanced Anodes for Lithium/Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2018 , 24, 11220-11226	4.8	49
178	Efficient oxygen reduction reaction using mesoporous Ni-doped Co ₃ O ₄ nanowire array electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18372-18379	13	48
177	Large-scale synthesis of high-quality lithium-graphite hybrid anodes for mass-controllable and cycling-stable lithium metal batteries. <i>Energy Storage Materials</i> , 2018 , 15, 31-36	19.4	48
176	Green and facile synthesis of Fe ₃ O ₄ and graphene nanocomposites with enhanced rate capability and cycling stability for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16206-16212	13	47
175	Nitrogen-Doped Sponge Ni Fibers as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>Nano-Micro Letters</i> , 2019 , 11, 21	19.5	46
174	Coupling a Sponge Metal Fibers Skeleton with In Situ Surface Engineering to Achieve Advanced Electrodes for Flexible Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2020 , 32, e2003657	24	45
173	One-pot Biotemplate Synthesis of FeS ₂ Decorated Sulfur-doped Carbon Fiber as High Capacity Anode for Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2016 , 209, 201-209	6.7	45
172	Metal-Embedded Porous Graphitic Carbon Fibers Fabricated from Bamboo Sticks as a Novel Cathode for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13598-13605	9.5	44
171	Coupling PEDOT on Mesoporous Vanadium Nitride Arrays for Advanced Flexible All-Solid-State Supercapacitors. <i>Small</i> , 2020 , 16, e2003434	11	43
170	Molybdenum Selenide Electrocatalysts for Electrochemical Hydrogen Evolution Reaction. <i>ChemElectroChem</i> , 2019 , 6, 3530-3548	4.3	42
169	A highly ion-conductive three-dimensional LLZAO-PEO/LiTFSI solid electrolyte for high-performance solid-state batteries. <i>Chemical Engineering Journal</i> , 2020 , 394, 124993	14.7	42

168	Rational synthesis of Li ₄ Ti ₅ O ₁₂ /N-C nanotube arrays as advanced high-rate electrodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3857-3863	13	42
167	In situ confocal microscopic observation on inhibiting the dendrite formation of a-CN _x /Li electrode. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15597-15604	13	42
166	A Brief Review on Solid Electrolyte Interphase Composition Characterization Technology for Lithium Metal Batteries: Challenges and Perspectives. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19060-19080	38	42
165	Multiscale Porous Carbon Nanomaterials for Applications in Advanced Rechargeable Batteries. <i>Batteries and Supercaps</i> , 2019 , 2, 9-36	5.6	41
164	Empowering Metal Phosphides Anode with Catalytic Attribute toward Superior Cyclability for Lithium-Ion Storage. <i>Advanced Functional Materials</i> , 2019 , 29, 1809051	15.6	39
163	Oxygen defect boosted N-doped Ti ₂ Nb ₁₀ O ₂₉ anchored on core-branch carbon skeleton for both high-rate liquid & solid-state lithium ion batteries. <i>Energy Storage Materials</i> , 2020 , 25, 555-562	19.4	39
162	Assembling Co ₉ S ₈ nanoflakes on Co ₃ O ₄ nanowires as advanced core/shell electrocatalysts for oxygen evolution reaction. <i>Journal of Energy Chemistry</i> , 2017 , 26, 1203-1209	12	38
161	TiC/NiO Core/Shell Nanoarchitecture with Battery-Capacitive Synchronous Lithium Storage for High-Performance Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11842-8	9.5	38
160	Pine-Needle-Like Cu-Co Skeleton Compositing with Li Ti O Forming Core-Branch Arrays for High-Rate Lithium Ion Storage. <i>Small</i> , 2018 , 14, e1704339	11	36
159	A green and facile strategy for the low-temperature and rapid synthesis of Li ₂ S@PCNT cathodes with high Li ₂ S content for advanced LIB batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9906-9914	13	36
158	Recent Developments of All-Solid-State Lithium Secondary Batteries with Sulfide Inorganic Electrolytes. <i>Chemistry - A European Journal</i> , 2018 , 24, 6007-6018	4.8	36
157	Silicon-Doped Argyrodite Solid Electrolyte LiPSI with Improved Ionic Conductivity and Interfacial Compatibility for High-Performance All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41538-41545	9.5	36
156	N-doped CoO nanowire arrays as efficient electrocatalysts for oxygen evolution reaction. <i>Journal of Energy Chemistry</i> , 2019 , 37, 13-17	12	36
155	High-content of sulfur uniformly embedded in mesoporous carbon: a new electrodeposition synthesis and an outstanding lithium-sulfur battery cathode. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5905-5911	13	35
154	Sulfur synchronously electrodeposited onto exfoliated graphene sheets as a cathode material for advanced lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16513-16519	13	35
153	Boosting High-Rate Sodium Storage Performance of N-Doped Carbon-Encapsulated Na V (PO) Nanoparticles Anchoring on Carbon Cloth. <i>Small</i> , 2019 , 15, e1902432	11	35
152	Ti Self-Doped Li Ti O Anchored on N-Doped Carbon Nanofiber Arrays for Ultrafast Lithium-Ion Storage. <i>Small</i> , 2019 , 15, e1905296	11	35
151	Oxide nanostructures hyperbranched with thin and hollow metal shells for high-performance nanostructured battery electrodes. <i>Small</i> , 2014 , 10, 2419-28	11	35

150	Supercritical CO ₂ mediated incorporation of sulfur into carbon matrix as cathode materials towards high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 212-222	13	34
149	Exploring highly porous Co ₂ P nanowire arrays for electrochemical energy storage. <i>Journal of Power Sources</i> , 2017 , 342, 964-969	8.9	33
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146	Construction of Nitrogen-Doped Carbon-Coated MoSe Microspheres with Enhanced Performance for Lithium Storage. <i>Chemistry - A European Journal</i> , 2017 , 23, 12924-12929	4.8	33
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143	Growth of and methanol electro-oxidation by gold nanowires with high density stacking faults. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4843		32
142	A gel polymer electrolyte based on PVDF-HFP modified double polymer matrices via ultraviolet polymerization for lithium-sulfur batteries. <i>Journal of Colloid and Interface Science</i> , 2020 , 558, 145-154	9.3	32
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22	Evolution of transbronchial needle aspiration technique. <i>Journal of Thoracic Disease</i> , 2015 , 7, S224-30	2.6	2
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19	Fluorinated Interface Layer with Embedded Zinc Nanoparticles for Stable Lithium-Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17690-17698	9.5	2
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3	Recent advance on Co-based materials for polysulfide catalysis toward promoted lithium-sulfur batteries. <i>Nano Select</i> ,	3.1 0
2	Dual immune checkpoint blockade for non-small cell lung cancer patients with PD-L1 high expression: calling an end?. <i>Translational Lung Cancer Research</i> , 2021 , 10, 3858-3860	4.4 0
1	Synthesis of Carbon Nanoflake/Sulfur Arrays as Cathode Materials of Lithium Sulfur Batteries 2021 , 77-86	