# Xiao-Dong Guo

#### List of Publications by Citations

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430 50,330 114 214 h-index g-index citations papers 56,963 8.16 12.2 459 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
430	Lithium-sulfur batteries: electrochemistry, materials, and prospects. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 13186-200	16.4	1989
429	Nanostructured Materials for Electrochemical Energy Conversion and Storage Devices. <i>Advanced Materials</i> , <b>2008</b> , 20, 2878-2887	24	1893
428	Smaller sulfur molecules promise better lithium-sulfur batteries. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 18510-3	16.4	1317
427	Carbon Coated Fe3O4 Nanospindles as a Superior Anode Material for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3941-3946	15.6	1119
426	Accommodating lithium into 3D current collectors with a submicron skeleton towards long-life lithium metal anodes. <i>Nature Communications</i> , <b>2015</b> , 6, 8058	17.4	1030
425	An Artificial Solid Electrolyte Interphase Layer for Stable Lithium Metal Anodes. <i>Advanced Materials</i> , <b>2016</b> , 28, 1853-8	24	1021
424	Binding SnO2 nanocrystals in nitrogen-doped graphene sheets as anode materials for lithium-ion batteries. <i>Advanced Materials</i> , <b>2013</b> , 25, 2152-7	24	951
423	Tin-Nanoparticles Encapsulated in Elastic Hollow Carbon Spheres for High-Performance Anode Material in Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2008</b> , 20, 1160-1165	24	938
422	High Lithium Electroactivity of Nanometer-Sized Rutile TiO2. <i>Advanced Materials</i> , <b>2006</b> , 18, 1421-1426	24	767
421	High-quality Prussian blue crystals as superior cathode materials for room-temperature sodium-ion batteries. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1643-1647	35.4	691
420	Pt hollow nanospheres: facile synthesis and enhanced electrocatalysts. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 1540-3	16.4	631
419	Synthesis and Lithium Storage Properties of Co3O4 Nanosheet-Assembled Multishelled Hollow Spheres. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 1680-1686	15.6	615
418	LiFePO4 Nanoparticles Embedded in a Nanoporous Carbon Matrix: Superior Cathode Material for Electrochemical Energy-Storage Devices. <i>Advanced Materials</i> , <b>2009</b> , 21, 2710-2714	24	597
417	Superior Electrode Performance of Nanostructured Mesoporous TiO2 (Anatase) through Efficient Hierarchical Mixed Conducting Networks. <i>Advanced Materials</i> , <b>2007</b> , 19, 2087-2091	24	561
416	Rutile-TiO2 nanocoating for a high-rate Li4Ti5O12 anode of a lithium-ion battery. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 7874-9	16.4	551
415	Mass production and high photocatalytic activity of ZnS nanoporous nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 1269-73	16.4	511
4 <sup>1</sup> 4	Nanocarbon networks for advanced rechargeable lithium batteries. <i>Accounts of Chemical Research</i> , <b>2012</b> , 45, 1759-69	24.3	488

413	A high-energy room-temperature sodium-sulfur battery. Advanced Materials, 2014, 26, 1261-5	24	446
412	A Flexible Solid Electrolyte Interphase Layer for Long-Life Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 1505-1509	16.4	438
411	Improving the electrode performance of Ge through Ge@C core-shell nanoparticles and graphene networks. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 2512-5	16.4	411
410	Graphitized Carbon Fibers as Multifunctional 3D Current Collectors for High Areal Capacity Li Anodes. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700389	24	403
409	Self-Assembled Nanocomposite of Silicon Nanoparticles Encapsulated in Graphene through Electrostatic Attraction for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 1086-1090	21.8	401
408	Watermelon-Inspired Si/C Microspheres with Hierarchical Buffer Structures for Densely Compacted Lithium-Ion Battery Anodes. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601481	21.8	397
407	Safety-Reinforced Poly(Propylene Carbonate)-Based All-Solid-State Polymer Electrolyte for Ambient-Temperature Solid Polymer Lithium Batteries. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1501082	21.8	391
406	Facile synthesis of silicon nanoparticles inserted into graphene sheets as improved anode materials for lithium-ion batteries. <i>Chemical Communications</i> , <b>2012</b> , 48, 2198-200	5.8	379
405	Nanostructured polyaniline-decorated Pt/C@PANI core-shell catalyst with enhanced durability and activity. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 13252-5	16.4	373
404	Improved Electrode Performance of Porous LiFePO4 Using RuO2 as an Oxidic Nanoscale Interconnect. <i>Advanced Materials</i> , <b>2007</b> , 19, 1963-1966	24	360
403	Rice husk-derived hierarchical silicon/nitrogen-doped carbon/carbon nanotube spheres as low-cost and high-capacity anodes for lithium-ion batteries. <i>Nano Energy</i> , <b>2016</b> , 25, 120-127	17.1	360
402	Synthesis of CuO/graphene nanocomposite as a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 10661		346
401	Layered Oxide Cathodes for Sodium-Ion Batteries: Phase Transition, Air Stability, and Performance. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701912	21.8	346
400	Sulfur Encapsulated in Graphitic Carbon Nanocages for High-Rate and Long-Cycle Lithium-Sulfur Batteries. <i>Advanced Materials</i> , <b>2016</b> , 28, 9539-9544	24	341
399	A Sandwich-Like Hierarchically Porous Carbon/Graphene Composite as a High-Performance Anode Material for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301584	21.8	341
398	Advanced Micro/Nanostructures for Lithium Metal Anodes. <i>Advanced Science</i> , <b>2017</b> , 4, 1600445	13.6	338
397	Mono dispersed SnO2 nanoparticles on both sides of single layer graphene sheets as anode materials in Li-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 5462		338
396	An advanced selenium-carbon cathode for rechargeable lithium-selenium batteries. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 8363-7	16.4	330

395	Suppressing the P2-O2 Phase Transition of Na0.67 Mn0.67 Ni0.33 O2 by Magnesium Substitution for Improved Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 7445-9	16.4	330
394	Stable Li Plating/Stripping Electrochemistry Realized by a Hybrid Li Reservoir in Spherical Carbon Granules with 3D Conducting Skeletons. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 5916-5922	2 16.4	329
393	Reshaping Lithium Plating/Stripping Behavior via Bifunctional Polymer Electrolyte for Room-Temperature Solid Li Metal Batteries. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15825	-19828	3 <sup>329</sup>
392	Uniform Lithium Nucleation/Growth Induced by Lightweight Nitrogen-Doped Graphitic Carbon Foams for High-Performance Lithium Metal Anodes. <i>Advanced Materials</i> , <b>2018</b> , 30, 1706216	24	315
391	Subzero-Temperature Cathode for a Sodium-Ion Battery. <i>Advanced Materials</i> , <b>2016</b> , 28, 7243-8	24	299
390	Dendrite-Free Li-Metal Battery Enabled by a Thin Asymmetric Solid Electrolyte with Engineered Layers. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 82-85	16.4	299
389	Carbon-Nanotube-Decorated Nano-LiFePO4 @C Cathode Material with Superior High-Rate and Low-Temperature Performances for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1155-11	60 <sup>21.8</sup>	294
388	Stable Li Metal Anodes via Regulating Lithium Plating/Stripping in Vertically Aligned Microchannels. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703729	24	288
387	Three-dimensional self-organization of supramolecular self-assembled porphyrin hollow hexagonal nanoprisms. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 17090-5	16.4	287
386	Ultra-uniform SnOx/carbon nanohybrids toward advanced lithium-ion battery anodes. <i>Advanced Materials</i> , <b>2014</b> , 26, 3943-9	24	283
385	Synthesis of MoS2 nanosheet-graphene nanosheet hybrid materials for stable lithium storage. <i>Chemical Communications</i> , <b>2013</b> , 49, 1838-40	5.8	276
384	Highly Dispersed RuO2 Nanoparticles on Carbon Nanotubes: Facile Synthesis and Enhanced Supercapacitance Performance. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 2448-2451	3.8	274
383	High-Energy/Power and Low-Temperature Cathode for Sodium-Ion Batteries: In Situ XRD Study and Superior Full-Cell Performance. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701968	24	266
382	Cu-Si nanocable arrays as high-rate anode materials for lithium-ion batteries. <i>Advanced Materials</i> , <b>2011</b> , 23, 4415-20	24	266
381	Solid-State Lithium Metal Batteries Promoted by Nanotechnology: Progress and Prospects. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1385-1394	20.1	259
380	High-Capacity Cathode Material with High Voltage for Li-Ion Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705575	24	256
379	Introducing Dual Functional CNT Networks into CuO Nanomicrospheres toward Superior Electrode Materials for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 3617-3622	9.6	255
378	Insight into the effect of boron doping on sulfur/carbon cathode in lithium-sulfur batteries. <i>ACS Applied Materials &amp; Documents and Section 1</i> , 6, 8789-95	9.5	254

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377	Ionothermal synthesis of sulfur-doped porous carbons hybridized with graphene as superior anode materials for lithium-ion batteries. <i>Chemical Communications</i> , <b>2012</b> , 48, 10663-5	5.8	252
376	High-Yield Gas <b>l</b> iquid Interfacial Synthesis of Highly Dispersed Fe3O4 Nanocrystals and Their Application in Lithium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 1162-1166	9.6	244
375	Free-Standing Hollow Carbon Fibers as High-Capacity Containers for Stable Lithium Metal Anodes. <i>Joule</i> , <b>2017</b> , 1, 563-575	27.8	243
374	Ti-Substituted NaNi Mn Ti O Cathodes with Reversible O3-P3 Phase Transition for High-Performance Sodium-Ion Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700210	24	233
373	Na/vacancy disordering promises high-rate Na-ion batteries. Science Advances, 2018, 4, eaar6018	14.3	229
372	Facile synthesis of MoS2@CMK-3 nanocomposite as an improved anode material for lithium-ion batteries. <i>Nanoscale</i> , <b>2012</b> , 4, 5868-71	7.7	225
371	Suppressing Surface Lattice Oxygen Release of Li-Rich Cathode Materials via Heterostructured Spinel Li Mn O Coating. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801751	24	222
370	Sodium iron hexacyanoferrate with high Na content as a Na-rich cathode material for Na-ion batteries. <i>Nano Research</i> , <b>2015</b> , 8, 117-128	10	221
369	Synthesis of monodispersed wurtzite structure CuInSe2 nanocrystals and their application in high-performance organic-inorganic hybrid photodetectors. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 12218-21	16.4	221
368	Designing Air-Stable O3-Type Cathode Materials by Combined Structure Modulation for Na-Ion Batteries. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 8440-8443	16.4	219
367	Towards better Li metal anodes: Challenges and strategies. <i>Materials Today</i> , <b>2020</b> , 33, 56-74	21.8	216
366	Superior radical polymer cathode material with a two-electron process redox reaction promoted by graphene. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 5221-5225	35.4	207
365	Synthesis of hierarchically mesoporous anatase spheres and their application in lithium batteries. <i>Chemical Communications</i> , <b>2006</b> , 2783-5	5.8	207
364	Extended Electrochemical Window of Solid Electrolytes via Heterogeneous Multilayered Structure for High-Voltage Lithium Metal Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807789	24	205
363	Recent Advancements in Polymer-Based Composite Electrolytes for Rechargeable Lithium Batteries. <i>Electrochemical Energy Reviews</i> , <b>2018</b> , 1, 113-138	29.3	203
362	Electrochemical lithiation synthesis of nanoporous materials with superior catalytic and capacitive activity. <i>Nature Materials</i> , <b>2006</b> , 5, 713-7	27	202
361	Guiding Uniform Li Plating/Stripping through Lithium-Aluminum Alloying Medium for Long-Life Li Metal Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 1094-1099	16.4	202
360	Fe2O3 Nanostructures: Inorganic Salt-Controlled Synthesis and Their Electrochemical Performance toward Lithium Storage. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 16824-16829	3.8	200

359	Facile Synthesis of Blocky SiOx/C with Graphite-Like Structure for High-Performance Lithium-Ion Battery Anodes. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705235	15.6	199
358	Upgrading traditional liquid electrolyte via in situ gelation for future lithium metal batteries. <i>Science Advances</i> , <b>2018</b> , 4, eaat5383	14.3	199
357	Anisotropic photoresponse properties of single micrometer-sized GeSe nanosheet. <i>Advanced Materials</i> , <b>2012</b> , 24, 4528-33	24	196
356	Research progress regarding Si-based anode materials towards practical application in high energy density Li-ion batteries. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 1691-1708	7.8	193
355	Elemental Selenium for Electrochemical Energy Storage. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 256-66	6.4	187
354	Symbiotic Coaxial Nanocables: Facile Synthesis and an Efficient and Elegant Morphological Solution to the Lithium Storage Problem. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 1908-1914	9.6	185
353	Enhancing the Kinetics of Li-Rich Cathode Materials through the Pinning Effects of Gradient Surface Na+ Doping. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501914	21.8	185
352	SiO Encapsulated in Graphene Bubble Film: An Ultrastable Li-Ion Battery Anode. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707430	24	183
351	Electrochemical (de)lithiation of 1D sulfur chains in Li-S batteries: a model system study. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 2215-8	16.4	179
350	Passivation of Lithium Metal Anode via Hybrid Ionic Liquid Electrolyte toward Stable Li Plating/Stripping. <i>Advanced Science</i> , <b>2017</b> , 4, 1600400	13.6	176
349	Solvothermal Synthesis of LiFePO4 Hierarchically Dumbbell-Like Microstructures by Nanoplate Self-Assembly and Their Application as a Cathode Material in Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 3345-3351	3.8	172
348	SnO2-Based Hierarchical Nanomicrostructures: Facile Synthesis and Their Applications in Gas Sensors and Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 14213-14219	3.8	171
347	Tuning the porous structure of carbon hosts for loading sulfur toward long lifespan cathode materials for LiB batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 6602	13	170
346	Wet milled synthesis of an Sb/MWCNT nanocomposite for improved sodium storage. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13727	13	169
345	In-situ plasticized polymer electrolyte with double-network for flexible solid-state lithium-metal batteries. <i>Energy Storage Materials</i> , <b>2018</b> , 10, 85-91	19.4	165
344	Rational design of anode materials based on Group IVA elements (Si, Ge, and Sn) for lithium-ion batteries. <i>Chemistry - an Asian Journal</i> , <b>2013</b> , 8, 1948-58	4.5	163
343	Lithium-Schwefel-Batterien: Elektrochemie, Materialien und Perspektiven. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 13426-13441	3.6	163
342	Electrospray Synthesis of Silicon/Carbon Nanoporous Microspheres as Improved Anode Materials for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 14148-14154	3.8	163

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341	Engineering Janus Interfaces of Ceramic Electrolyte via Distinct Functional Polymers for Stable High-Voltage Li-Metal Batteries. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 9165-9169	16.4	161
340	A zero-strain insertion cathode material of nickel ferricyanide for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14061	13	159
339	Mass Production and High Photocatalytic Activity of ZnS Nanoporous Nanoparticles. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 1295-1299	3.6	154
338	Electrospun silicon nanoparticle/porous carbon hybrid nanofibers for lithium-ion batteries. <i>Small</i> , <b>2013</b> , 9, 2684-8	11	153
337	Mitigating Voltage Decay of Li-Rich Cathode Material via Increasing Ni Content for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Decay interfaces</i> , <b>2016</b> , 8, 20138-46	9.5	151
336	Highly Disordered Carbon as a Superior Anode Material for Room-Temperature Sodium-Ion Batteries. <i>ChemElectroChem</i> , <b>2014</b> , 1, 83-86	4.3	150
335	Synergism of Al-containing solid electrolyte interphase layer and Al-based colloidal particles for stable lithium anode. <i>Nano Energy</i> , <b>2017</b> , 36, 411-417	17.1	143
334	Progress of the Interface Design in All-Solid-State Liß Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707533	15.6	140
333	Improving the electrochemical performance of the li4 ti5 o12 electrode in a rechargeable magnesium battery by lithium-magnesium co-intercalation. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 5757-61	16.4	139
332	Mitigating Interfacial Potential Drop of Cathode-Solid Electrolyte via Ionic Conductor Layer To Enhance Interface Dynamics for Solid Batteries. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 6767-6770	16.4	137
331	Improving cycling performance and rate capability of Ni-rich LiNi0.8Co0.1Mn0.1O2 cathode materials by Li4Ti5O12 coating. <i>Electrochimica Acta</i> , <b>2018</b> , 268, 358-365	6.7	135
330	Efficient 3D conducting networks built by graphene sheets and carbon nanoparticles for high-performance silicon anode. <i>ACS Applied Materials &amp; District Research</i> , 1, 2824-8	9.5	133
329	Synthesis of Single-Crystalline Co3O4 Octahedral Cages with Tunable Surface Aperture and Their Lithium Storage Properties. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 15553-15558	3.8	133
328	An O3-type NaNi0.5Mn0.5O2 cathode for sodium-ion batteries with improved rate performance and cycling stability. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17660-17664	13	131
327	Microfluidic etching for fabrication of flexible and all-solid-state micro supercapacitor based on MnO2 nanoparticles. <i>Nanoscale</i> , <b>2011</b> , 3, 2703-8	7.7	130
326	Conductive graphite fiber as a stable host for zinc metal anodes. <i>Electrochimica Acta</i> , <b>2017</b> , 244, 172-17	<b>7</b> 6.7	125
325	A robust composite of SnO2 hollow nanospheres enwrapped by graphene as a high-capacity anode material for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 17456		123
324	Pt Hollow Nanospheres: Facile Synthesis and Enhanced Electrocatalysts. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 1566-1569	3.6	121

323	A Stable Layered Oxide Cathode Material for High-Performance Sodium-Ion Battery. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803978	21.8	118
322	Controllable AuPt bimetallic hollow nanostructures. <i>Chemical Communications</i> , <b>2004</b> , 1496-7	5.8	117
321	The Electrochemistry with Lithium versus Sodium of Selenium Confined To Slit Micropores in Carbon. <i>Nano Letters</i> , <b>2016</b> , 16, 4560-8	11.5	117
320	Microemulsion Assisted Assembly of 3D Porous S/Graphene@g-C3N4 Hybrid Sponge as Free-Standing Cathodes for High Energy Density Liß Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703	2 <del>83</del> 9 <sup>8</sup>	115
319	A Dual-Salt Gel Polymer Electrolyte with 3D Cross-Linked Polymer Network for Dendrite-Free Lithium Metal Batteries. <i>Advanced Science</i> , <b>2018</b> , 5, 1800559	13.6	115
318	Advanced Se <b>I</b> nanocomposites: a bifunctional electrode material for both Li <b>B</b> e and Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 13293	13	114
317	Layer structured 中间加anodisk/reduced graphene oxide composites as high-performance anode materials for lithium-ion batteries. <i>ACS Applied Materials &amp; Description of Section</i> 1998 (1998)	9.5	114
316	Hierarchically micro/mesoporous activated graphene with a large surface area for high sulfur loading in LiB batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 4799-4802	13	114
315	Better lithium-ion batteries with nanocable-like electrode materials. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 1634	35.4	114
314	High-safety lithium-sulfur battery with prelithiated Si/C anode and ionic liquid electrolyte. <i>Electrochimica Acta</i> , <b>2013</b> , 91, 58-61	6.7	113
313	Trapping Lithium into Hollow Silica Microspheres with a Carbon Nanotube Core for Dendrite-Free Lithium Metal Anodes. <i>Nano Letters</i> , <b>2018</b> , 18, 297-301	11.5	111
312	Tin Nanoparticles Impregnated in Nitrogen-Doped Graphene for Lithium-Ion Battery Anodes. Journal of Physical Chemistry C, <b>2013</b> , 117, 25367-25373	3.8	110
311	Wurtzite Cu2ZnSnSe4 nanocrystals for high-performance organicIhorganic hybrid photodetectors. <i>NPG Asia Materials</i> , <b>2012</b> , 4, e2-e2	10.3	109
310	Facile Synthesis of Mesoporous TiO2tt Nanosphere as an Improved Anode Material for Superior High Rate 1.5 V Rechargeable Li Ion Batteries Containing LiFePO4tt Cathode. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 10308-10313	3.8	109
309	Low-cost and large-scale synthesis of alkaline earth metal germanate nanowires as a new class of lithium ion battery anode material. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 8007	35.4	106
308	Construction of homogeneously Al3+ doped Ni rich Ni-Co-Mn cathode with high stable cycling performance and storage stability via scalable continuous precipitation. <i>Electrochimica Acta</i> , <b>2018</b> , 291, 84-94	6.7	106
307	A highly reversible, low-strain Mg-ion insertion anode material for rechargeable Mg-ion batteries. <i>NPG Asia Materials</i> , <b>2014</b> , 6, e120-e120	10.3	105
306	Spin-coated silicon nanoparticle/graphene electrode as a binder-free anode for high-performance lithium-ion batteries. <i>Nano Research</i> , <b>2012</b> , 5, 845-853	10	105

3	05	Superior hybrid cathode material containing lithium-excess layered material and graphene for lithium-ion batteries. <i>ACS Applied Materials &amp; Samp; Interfaces</i> , <b>2012</b> , 4, 4858-63	9.5	105	
3	04	Ordered Nitu Nanowire Array with Enhanced Coercivity. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 664-667	9.6	105	
3	103	Nitriding-Interface-Regulated Lithium Plating Enables Flame-Retardant Electrolytes for High-Voltage Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7802-7807	16.4	102	
3	02	Progress of rechargeable lithium metal batteries based on conversion reactions. <i>National Science Review</i> , <b>2017</b> , 4, 54-70	10.8	102	
3	01	TiO2-Based Composite Nanotube Arrays Prepared via Layer-by-Layer Assembly. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 196-202	15.6	99	
3	00	High performance photodetectors of individual InSe single crystalline nanowire. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 15602-3	16.4	98	
2	.99	Wet Chemistry Synthesis of Multidimensional Nanocarbon-Sulfur Hybrid Materials with Ultrahigh Sulfur Loading for Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Discourse (Material Science)</i> 1, 3584-90	9.5	97	
2	.98	Uniform Nucleation of Lithium in 3D Current Collectors via Bromide Intermediates for Stable Cycling Lithium Metal Batteries. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 18051-18057	16.4	96	
2	97	A High-Performance Composite Electrode for Vanadium Redox Flow Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700461	21.8	95	
2	.96	Direct tracking of the polysulfide shuttling and interfacial evolution in all-solid-state lithium ulfur batteries: a degradation mechanism study. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2496-2506	35.4	94	
2	95	Reducing the volume deformation of high capacity SiOx/G/C anode toward industrial application in high energy density lithium-ion batteries. <i>Nano Energy</i> , <b>2019</b> , 60, 485-492	17.1	94	
2	94	Facile synthesis of germanium nanocrystals and their application in organic-inorganic hybrid photodetectors. <i>Advanced Materials</i> , <b>2011</b> , 23, 3704-7	24	94	
2	93	Insight into the Interfacial Process and Mechanism in Lithium-Sulfur Batteries: An In Situ AFM Study. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 15835-15839	16.4	93	
2	192	Self-Assembled LiFePO4/C Nano/Microspheres by Using Phytic Acid as Phosphorus Source. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 5019-5024	3.8	93	
2	.91	Exposing {010} Active Facets by Multiple-Layer Oriented Stacking Nanosheets for High-Performance Capacitive Sodium-Ion Oxide Cathode. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803765	24	92	
2	.90	Self-wound composite nanomembranes as electrode materials for lithium ion batteries. <i>Advanced Materials</i> , <b>2010</b> , 22, 4591-5	24	92	
2	:89	Interfacial Mechanism in Lithium-Sulfur Batteries: How Salts Mediate the Structure Evolution and Dynamics. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 8147-8155	16.4	91	
2	:88	Hydrothermal reduction of three-dimensional graphene oxide for binder-free flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10830	13	90	

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285	Scalable synthesis of spherical Si/C granules with 3D conducting networks as ultrahigh loading anodes in lithium-ion batteries. <i>Energy Storage Materials</i> , <b>2018</b> , 12, 54-60	19.4	90
284	Recent progress on confinement of polysulfides through physical and chemical methods. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 1555-1565	12	89
283	Preparation and li storage properties of hierarchical porous carbon fibers derived from alginic acid. <i>ChemSusChem</i> , <b>2010</b> , 3, 703-7	8.3	87
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281	Tuning wettability of molten lithium via a chemical strategy for lithium metal anodes. <i>Nature Communications</i> , <b>2019</b> , 10, 4930	17.4	85
<b>2</b> 80	Encapsulation of Sulfur in a Hollow Porous Carbon Substrate for Superior Li-S Batteries with Long Lifespan. <i>Particle and Particle Systems Characterization</i> , <b>2013</b> , 30, 321-325	3.1	85
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56	Micron-Sized SiMg O with Stable Internal Structure Evolution for High-Performance Li-Ion Battery Anodes <i>Advanced Materials</i> , <b>2022</b> , e2200672	24	7
55	Synthesis and Electrochemical Properties of a High Capacity Li-rich Cathode Material in molten KCl-Na2CO3 flux. <i>Electrochimica Acta</i> , <b>2016</b> , 196, 749-755	6.7	7
54	Chemically converting residual lithium to a composite coating layer to enhance the rate capability and stability of single-crystalline Ni-rich cathodes. <i>Nano Energy</i> , <b>2022</b> , 94, 106901	17.1	6

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53	Mitigating the Kinetic Hindrance of Single-Crystalline Ni-Rich Cathode via Surface Gradient Penetration of Tantalum. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 26739	3.6	6
52	Porous lamellar carbon assembled from Bacillus mycoides as high-performance electrode materials for vanadium redox flow batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 450, 227633	8.9	6
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43	Competitive Doping Chemistry for Nickel-Rich Layered Oxide Cathode Materials <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	5
42	Insights into the pre-oxidation process of phenolic resin-based hard carbon for sodium storage. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 3911-3917	7.8	5
41	Stable Li storage in micron-sized SiO particles with rigid-flexible coating. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 64, 309-314	12	5
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38	Single-Crystalline Cathodes for Advanced Li-Ion Batteries: Progress and Challenges Small, 2022, e210	70:4:8	5
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35	A polymer organosulfur redox mediator for high-performance lithium-sulfur batteries. <i>Energy Storage Materials</i> , <b>2022</b> , 46, 313-321	19.4	4
34	Cathode Materials: Enhancing the Kinetics of Li-Rich Cathode Materials through the Pinning Effects of Gradient Surface Na+ Doping (Adv. Energy Mater. 6/2016). <i>Advanced Energy Materials</i> , <b>2016</b> , 6,	21.8	4
33	Facile Fabrication of CoreBhell Structure Fe3O4@C Nanodots for Enhanced LithiumBulfur Batteries. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2021</b> , 34, 410-416	2.5	4
32	A compared investigation of different biogum polymer binders for silicon anode of lithium-ion batteries. <i>Jonics</i> , <b>2021</b> , 27, 1829-1836	2.7	4
31	Air-stability of sodium-based layered-oxide cathode materials. Science China Chemistry, 2022, 65, 1076-	1 <del>9</del> 87	4
30	Optimization of the electrochemical properties of LiNi0.8Co0.1Mn0.1O2 cathode material by titanium doping. <i>Jonics</i> , <b>2020</b> , 26, 3223-3230	2.7	3
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28	Preparation of ZnO Nanostructures by Thermal Degradation of Zinc Alginate Fibers. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , <b>2008</b> , 24, 2179-2184	3.8	3
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25	Porous microspheres consisting of carbon-modified LiFePO4 grains prepared by a spray-drying assisted approach using cellulose as carbon source. <i>Ionics</i> , <b>2020</b> , 26, 2737-2746	2.7	2
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21	Dual-Modified Compact Layer and Superficial Ti Doping for Reinforced Structural Integrity and Thermal Stability of Ni-Rich Cathodes. <i>ACS Applied Materials &amp; Description of Ni-Rich Cathodes</i> . <i>ACS Applied Materials &amp; Description of Ni-Rich Cathodes</i> . <i>ACS Applied Materials &amp; Description of Ni-Rich Cathodes</i> .	9.5	2
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18	SYNTHESIS AND ELECTROCHEMICAL PROPERTIES OF POLY-[2, 5-DI-N-(2, 2, 6, 6-TETRAMETHYL-4-PIPERIDINEN-OXYL) BENZAMIDE] ANILINE AS A CATHODE MATERIAL FOR LITHIUM-ION BATTERIES. <i>Journal of Molecular and Engineering Materials</i> , <b>2013</b> , 01, 1340019	1.3	1

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16	Controlled fabrication of fullerene derivative one-dimensional nanostruc-tures via electrophoretic depo-sition of its clusters. <i>Science Bulletin</i> , <b>2004</b> , 49, 2021		1
15	Insights into the nitride-regulated processes at the electrolyte/electrode interface in quasi-solid-state lithium metal batteries. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 67, 780-780	12	1
14	Stabilizing the Electrochemistry of Lithium-Selenium Battery via In situ Gelated Polymer Electrolyte: A Look from Anode. <i>Chemical Research in Chinese Universities</i> , <b>2021</b> , 37, 298-303	2.2	1
13	Constructing a stable interface between the sulfide electrolyte and the Li metal anode via a Li+-conductive gel polymer interlayer. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 5328-5335	7.8	1
12	New Insights into the Mechanism of Enhanced Performance of Li[NiCoMn]O with a Polyacrylic Acid-Modified Binder. <i>ACS Applied Materials &amp; Discrete Section</i> , 13, 10064-10070	9.5	1
11	New Insight into High-Rate Performance Lithium-Rich Cathode Synthesis through Controlling the Reaction Pathways by Low-Temperature Intermediates. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 453-463	3.9	1
10	Microspheres comprise Si nanoparticles modified with TiO2 and wrapped by graphene as high-performance anode for lithium-ion batteries. <i>Applied Surface Science</i> , <b>2022</b> , 153790	6.7	1
9	Introduction to Electrochemical Energy Storage <b>2019</b> , 1-28		
8	Nanostructures and Nanomaterials for Solid-State Batteries <b>2019</b> , 215-263		
7	Conclusions and Perspectives on New Opportunities of Nanostrucutres and Nanomaterials in Batteries <b>2019</b> , 359-379		
6	Nanostructures and Nanomaterials for Lithium Metal Batteries <b>2019</b> , 159-214		
5	Traditional Nanostructures and Nanomaterials in Batteries <b>2019</b> , 313-357		
4	Charge Transfer and Storage of an Electrochemical Cell and Its Nano Effects <b>2019</b> , 29-87		
3	Batteries: Encapsulation of Sulfur in a Hollow Porous Carbon Substrate for Superior Li-S Batteries with Long Lifespan (Part. Part. Syst. Charact. 4/2013). <i>Particle and Particle Systems Characterization</i> , <b>2013</b> , 30, 392-392	3.1	
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1	koLayered Oxide Cathode-Electrolyte Interface towards Na-Ion Batteries: Advances and Perspectives <i>Chemistry - an Asian Journal</i> , <b>2022</b> , e202200213	4.5	