

Jaephil Cho

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200
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409
ext. papers

49,144
ext. citations

13.9
avg, IF

7.95
L-index

#	Paper	IF	Citations
371	Challenges facing lithium batteries and electrical double-layer capacitors. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9994-10024	16.4	2149
370	Metal-Air Batteries with High Energy Density: Li-Air versus Zn-Air. <i>Advanced Energy Materials</i> , 2011 , 1, 34-50	21.8	1614
369	Silicon nanotube battery anodes. <i>Nano Letters</i> , 2009 , 9, 3844-7	11.5	1228
368	Nickel-rich layered lithium transition-metal oxide for high-energy lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4440-57	16.4	1095
367	MoS ₂ nanoplates consisting of disordered graphene-like layers for high rate lithium battery anode materials. <i>Nano Letters</i> , 2011 , 11, 4826-30	11.5	892
366	Spindle-like mesoporous Fe ₃ O ₄ anode material prepared from MOF template for high-rate lithium batteries. <i>Nano Letters</i> , 2012 , 12, 4988-91	11.5	775
365	A critical size of silicon nano-anodes for lithium rechargeable batteries. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2146-9	16.4	771
364	Green energy storage materials: Nanostructured TiO ₂ and Sn-based anodes for lithium-ion batteries. <i>Energy and Environmental Science</i> , 2009 , 2, 818	35.4	760
363	Recent Progress in Non-Precious Catalysts for Metal-Air Batteries. <i>Advanced Energy Materials</i> , 2012 , 2, 816-829	21.8	570
362	Transition metal (Fe, Co, Ni, and Mn) oxides for oxygen reduction and evolution bifunctional catalysts in alkaline media. <i>Nano Today</i> , 2016 , 11, 601-625	17.9	565
361	Novel LiCoO ₂ Cathode Material with Al ₂ O ₃ Coating for a Li Ion Cell. <i>Chemistry of Materials</i> , 2000 , 12, 3788-3791	37.9	539
360	Promotion of oxygen reduction by a bio-inspired tethered iron phthalocyanine carbon nanotube-based catalyst. <i>Nature Communications</i> , 2013 , 4, 2076	17.4	513
359	Who will drive electric vehicles, olivine or spinel?. <i>Energy and Environmental Science</i> , 2011 , 4, 1621	35.4	489
358	Critical Size of a Nano SnO ₂ Electrode for Li-Secondary Battery. <i>Chemistry of Materials</i> , 2005 , 17, 3297-3301	30.1	484
357	Superior lithium electroactive mesoporous Si@carbon core-shell nanowires for lithium battery anode material. <i>Nano Letters</i> , 2008 , 8, 3688-91	11.5	466
356	Nanostructured transition metal sulfides for lithium ion batteries: Progress and challenges. <i>Nano Today</i> , 2014 , 9, 604-630	17.9	450
355	Scalable synthesis of silicon-nanolayer-embedded graphite for high-energy lithium-ion batteries. <i>Nature Energy</i> , 2016 , 1,	62.3	443

354	Reversible and High-Capacity Nanostructured Electrode Materials for Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2009 , 19, 1497-1514	15.6	433
353	Nanostructured electrodes for lithium-ion and lithium-air batteries: the latest developments, challenges, and perspectives. <i>Materials Science and Engineering Reports</i> , 2011 , 72, 203-252	30.9	415
352	Zero-Strain Intercalation Cathode for Rechargeable Li-Ion Cell. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 3367-3369	16.4	411
351	Metal (Ni, Co)-Metal Oxides/Graphene Nanocomposites as Multifunctional Electrocatalysts. <i>Advanced Functional Materials</i> , 2015 , 25, 5799-5808	15.6	407
350	Prospect and Reality of Ni-Rich Cathode for Commercialization. <i>Advanced Energy Materials</i> , 2018 , 8, 1702028	20.8	391
349	A new coating method for alleviating surface degradation of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ cathode material: nanoscale surface treatment of primary particles. <i>Nano Letters</i> , 2015 , 15, 2111-9	11.5	373
348	A new type of protective surface layer for high-capacity Ni-based cathode materials: nanoscaled surface pillaring layer. <i>Nano Letters</i> , 2013 , 13, 1145-52	11.5	367
347	Graphene/graphene-tube nanocomposites templated from cage-containing metal-organic frameworks for oxygen reduction in Li-O ₂ batteries. <i>Advanced Materials</i> , 2014 , 26, 1378-86	24	360
346	Roles of nanosize in lithium reactive nanomaterials for lithium ion batteries. <i>Nano Today</i> , 2011 , 6, 28-41	17.9	356
345	Material design and engineering of next-generation flow-battery technologies. <i>Nature Reviews Materials</i> , 2017 , 2,	73.3	354
344	Magnesium(II) bis(trifluoromethane sulfonyl) imide-based electrolytes with wide electrochemical windows for rechargeable magnesium batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 4063-73	73.5	326
343	Integrating NiCo Alloys with Their Oxides as Efficient Bifunctional Cathode Catalysts for Rechargeable Zinc-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9654-8	16.4	321
342	Nanocarbon Electrocatalysts for Oxygen Reduction in Alkaline Media for Advanced Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2014 , 4, 1301415	21.8	307
341	A breakthrough in the safety of lithium secondary batteries by coating the cathode material with AlPO ₄ nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 1618-21	16.4	306
340	Flexible dimensional control of high-capacity Li-ion-battery anodes: from 0D hollow to 3D porous germanium nanoparticle assemblies. <i>Advanced Materials</i> , 2010 , 22, 415-8	24	303
339	All-solid-state cable-type flexible zinc-air battery. <i>Advanced Materials</i> , 2015 , 27, 1396-401	24	284
338	Cable-type flexible lithium ion battery based on hollow multi-helix electrodes. <i>Advanced Materials</i> , 2012 , 24, 5192-7, 5145	24	282
337	Porous Si anode materials for lithium rechargeable batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 4009		282

336	Atomically dispersed nickel-nitrogen-sulfur species anchored on porous carbon nanosheets for efficient water oxidation. <i>Nature Communications</i> , 2019 , 10, 1392	17.4	280
335	Li- and Mn-Rich Cathode Materials: Challenges to Commercialization. <i>Advanced Energy Materials</i> , 2017 , 7, 1601284	21.8	266
334	Amorphous Carbon-Coated Tin Anode Material for Lithium Secondary Battery. <i>Chemistry of Materials</i> , 2005 , 17, 1926-1929	9.6	262
333	A bifunctional perovskite catalyst for oxygen reduction and evolution. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4582-6	16.4	259
332	Germanium nanotubes prepared by using the Kirkendall effect as anodes for high-rate lithium batteries. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9647-50	16.4	258
331	A highly efficient electrocatalyst for the oxygen reduction reaction: N-doped ketjenblack incorporated into Fe/Fe ₃ C-functionalized melamine foam. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1026-30	16.4	251
330	High performance Ge nanowire anode sheathed with carbon for lithium rechargeable batteries. <i>Energy and Environmental Science</i> , 2011 , 4, 425-428	35.4	250
329	Optimizing nanoparticle perovskite for bifunctional oxygen electrocatalysis. <i>Energy and Environmental Science</i> , 2016 , 9, 176-183	35.4	246
328	Hard templating synthesis of mesoporous and nanowire SnO ₂ lithium battery anode materials. <i>Journal of Materials Chemistry</i> , 2008 , 18, 771		246
327	Catalytic role of Ge in highly reversible GeO ₂ /Ge/C nanocomposite anode material for lithium batteries. <i>Nano Letters</i> , 2013 , 13, 1230-6	11.5	244
326	Synthesis and characterization of patronite form of vanadium sulfide on graphitic layer. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8720-5	16.4	235
325	Ketjenblack carbon supported amorphous manganese oxides nanowires as highly efficient electrocatalyst for oxygen reduction reaction in alkaline solutions. <i>Nano Letters</i> , 2011 , 11, 5362-6	11.5	235
324	Recent Progress in Nanostructured Cathode Materials for Lithium Secondary Batteries. <i>Advanced Functional Materials</i> , 2010 , 20, 3818-3834	15.6	233
323	Microstructure of LiCoO ₂ with and without AlPO ₄ Nanoparticle Coating: Combined STEM and XPS Studies. <i>Chemistry of Materials</i> , 2007 , 19, 5748-5757	9.6	229
322	Dynamic behaviour of interphases and its implication on high-energy-density cathode materials in lithium-ion batteries. <i>Nature Communications</i> , 2017 , 8, 14589	17.4	220
321	Self-assembled germanium/carbon nanostructures as high-power anode material for the lithium-ion battery. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5657-61	16.4	218
320	Integrated Hierarchical Cobalt Sulfide/Nickel Selenide Hybrid Nanosheets as an Efficient Three-dimensional Electrode for Electrochemical and Photoelectrochemical Water Splitting. <i>Nano Letters</i> , 2017 , 17, 4202-4209	11.5	216
319	Anomalous pseudocapacitive behavior of a nanostructured, mixed-valent manganese oxide film for electrical energy storage. <i>Nano Letters</i> , 2012 , 12, 3483-90	11.5	208

318	Roles of surface chemistry on safety and electrochemistry in lithium ion batteries. <i>Accounts of Chemical Research</i> , 2013 , 46, 1161-70	24.3	208
317	High-Performance Macroporous Bulk Silicon Anodes Synthesized by Template-Free Chemical Etching. <i>Advanced Energy Materials</i> , 2012 , 2, 878-883	21.8	207
316	Integration of Graphite and Silicon Anodes for the Commercialization of High-Energy Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 110-135	16.4	207
315	High performance LiMn ₂ O ₄ cathode materials grown with epitaxial layered nanostructure for Li-ion batteries. <i>Nano Letters</i> , 2014 , 14, 993-9	11.5	202
314	Critical thickness of SiO ₂ coating layer on core@shell bulk@nanowire Si anode materials for Li-ion batteries. <i>Advanced Materials</i> , 2013 , 25, 4498-503	24	202
313	LiCoO ₂ Cathode Material That Does Not Show a Phase Transition from Hexagonal to Monoclinic Phase. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A1110	3.9	201
312	Recent Advances in Lithium Sulfide Cathode Materials and Their Use in Lithium Sulfur Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1500110	21.8	194
311	Metal-organic framework-derived bamboo-like nitrogen-doped graphene tubes as an active matrix for hybrid oxygen-reduction electrocatalysts. <i>Small</i> , 2015 , 11, 1443-52	11	191
310	Confronting Issues of the Practical Implementation of Si Anode in High-Energy Lithium-Ion Batteries. <i>Joule</i> , 2017 , 1, 47-60	27.8	186
309	One dimensional Si/Sn - based nanowires and nanotubes for lithium-ion energy storage materials. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9825		186
308	Corn protein-derived nitrogen-doped carbon materials with oxygen-rich functional groups: a highly efficient electrocatalyst for all-vanadium redox flow batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 3727-3735	35.4	184
307	Fast-charging high-energy lithium-ion batteries via implantation of amorphous silicon nanolayer in edge-plane activated graphite anodes. <i>Nature Communications</i> , 2017 , 8, 812	17.4	181
306	Three-Dimensional Porous Silicon Particles for Use in High-Performance Lithium Secondary Batteries. <i>Angewandte Chemie</i> , 2008 , 120, 10305-10308	3.6	178
305	Synthesis, Thermal, and Electrochemical Properties of AlPO ₄ -Coated LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Materials for a Li-Ion Cell. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1899	3.9	178
304	Lithiumbatterien und elektrische Doppelschichtkondensatoren: aktuelle Herausforderungen. <i>Angewandte Chemie</i> , 2012 , 124, 10134-10166	3.6	176
303	Lithium-Air Batteries: Survey on the Current Status and Perspectives Towards Automotive Applications from a Battery Industry Standpoint. <i>Advanced Energy Materials</i> , 2012 , 2, 780-800	21.8	176
302	A Novel Surface Treatment Method and New Insight into Discharge Voltage Deterioration for High-Performance 0.4Li ₂ MnO ₃ ·0.6LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Cathode Materials. <i>Advanced Energy Materials</i> , 2014 , 4, 1400631	21.8	174
301	A Highly Efficient and Robust Cation Ordered Perovskite Oxide as a Bifunctional Catalyst for Rechargeable Zinc-Air Batteries. <i>ACS Nano</i> , 2017 , 11, 11594-11601	16.7	170

300	Scalable approach to multi-dimensional bulk Si anodes via metal-assisted chemical etching. <i>Energy and Environmental Science</i> , 2011 , 4, 5013	35.4	170
299	Ionic liquid modified graphene nanosheets anchoring manganese oxide nanoparticles as efficient electrocatalysts for Zn-Air batteries. <i>Energy and Environmental Science</i> , 2011 , 4, 4148	35.4	170
298	Suppression of Cobalt Dissolution from the LiCoO ₂ Cathodes with Various Metal-Oxide Coatings. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A1723	3.9	168
297	Commercial and research battery technologies for electrical energy storage applications. <i>Progress in Energy and Combustion Science</i> , 2015 , 48, 84-101	33.6	165
296	Synthesis of Nanowire and Hollow LiFePO ₄ Cathodes for High-Performance Lithium Batteries. <i>Chemistry of Materials</i> , 2008 , 20, 4560-4564	9.6	161
295	Electrochemical Properties and Thermal Stability of Li _a Ni _{1-x} CO _x O ₂ Cathode Materials. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 15	3.9	160
294	High-performance non-spinel cobalt-manganese mixed oxide-based bifunctional electrocatalysts for rechargeable zinc-air batteries. <i>Nano Energy</i> , 2016 , 20, 315-325	17.1	158
293	Elastic α -silicon nanoparticle backboneed graphene hybrid as a self-compacting anode for high-rate lithium ion batteries. <i>ACS Nano</i> , 2014 , 8, 8591-9	16.7	157
292	Bifunctional Perovskite Oxide Catalysts for Oxygen Reduction and Evolution in Alkaline Media. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 10-21	4.5	155
291	Spinel-Layered Core-Shell Cathode Materials for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2011 , 1, 821-828	21.8	153
290	NiFe (Oxy) Hydroxides Derived from NiFe Disulfides as an Efficient Oxygen Evolution Catalyst for Rechargeable Zn-Air Batteries: The Effect of Surface S Residues. <i>Advanced Materials</i> , 2018 , 30, e1800757 ²⁴	21.8	153
289	A highly stabilized nickel-rich cathode material by nanoscale epitaxy control for high-energy lithium-ion batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 1449-1459	35.4	151
288	Surface Engineering Strategies of Layered LiCoO ₂ Cathode Material to Realize High-Energy and High-Voltage Li-Ion Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1601507	21.8	146
287	Challenges in Accommodating Volume Change of Si Anodes for Li-Ion Batteries. <i>ChemElectroChem</i> , 2015 , 2, 1645-1651	4.3	144
286	Carbon-Coated Core-Shell Fe-Cu Nanoparticles as Highly Active and Durable Electrocatalysts for a Zn-Air Battery. <i>ACS Nano</i> , 2015 , 9, 6493-501	16.7	142
285	Countering Voltage Decay and Capacity Fading of Lithium-Rich Cathode Material at 60 °C by Hybrid Surface Protection Layers. <i>Advanced Energy Materials</i> , 2015 , 5, 1500274	21.8	138
284	A Tannic Acid-Derived N-, P-Codoped Carbon-Supported Iron-Based Nanocomposite as an Advanced Trifunctional Electrocatalyst for the Overall Water Splitting Cells and Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1803312	21.8	138
283	Washing Effect of a LiNi _{0.83} Co _{0.15} Al _{0.02} O ₂ Cathode in Water. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A19		137

282	Metal-free Ketjenblack incorporated nitrogen-doped carbon sheets derived from gelatin as oxygen reduction catalysts. <i>Nano Letters</i> , 2014 , 14, 1870-6	11.5	134
281	A mesoporous/crystalline composite material containing tin phosphate for use as the anode in lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5987-90	16.4	134
280	Low Loading of Rh _x P and RuP on N, P Codoped Carbon as Two Trifunctional Electrocatalysts for the Oxygen and Hydrogen Electrode Reactions. <i>Advanced Energy Materials</i> , 2018 , 8, 1801478	21.8	131
279	A New High Power LiNi _{0.81} Co _{0.1} Al _{0.09} O ₂ Cathode Material for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1301583	21.8	128
278	Effect of Preparation Methods of LiNi _{1-x} Co _x O ₂ Cathode Materials on Their Chemical Structure and Electrode Performance. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 3571-3576	3.9	127
277	Spinel Li ₄ Ti ₅ O ₁₂ Nanowires for High-Rate Li-Ion Intercalation Electrode. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, A81		126
276	Feasibility of Cathode Surface Coating Technology for High-Energy Lithium-ion and Beyond-Lithium-ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1605807	24	125
275	Novel core-shell Sn-Cu anodes for lithium rechargeable batteries prepared by a redox-transmetalation reaction. <i>Advanced Materials</i> , 2010 , 22, 5154-8	24	125
274	Significant Improvement of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Cathodes at 60°C by SiO ₂ Dry Coating for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A625	3.9	124
273	PVP-Assisted ZrO ₂ coating on LiMn ₂ O ₄ spinel cathode nanoparticles prepared by MnO ₂ nanowire templates. <i>Electrochemistry Communications</i> , 2008 , 10, 1478-1481	5.1	124
272	Superior long-term energy retention and volumetric energy density for Li-rich cathode materials. <i>Nano Letters</i> , 2014 , 14, 5965-72	11.5	122
271	Electrochemical Stability of Thin-Film LiCoO ₂ Cathodes by Aluminum-Oxide Coating. <i>Chemistry of Materials</i> , 2003 , 15, 1505-1511	9.6	122
270	Single crystalline pyrochlore nanoparticles with metallic conduction as efficient bi-functional oxygen electrocatalysts for Zn ^{air} batteries. <i>Energy and Environmental Science</i> , 2017 , 10, 129-136	35.4	121
269	Raman Spectroscopic and X-ray Diffraction Studies of Sulfur Composite Electrodes during Discharge and Charge. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A1308-A1314	3.9	120
268	Sn(78)Ge(22)@carbon core-shell nanowires as fast and high-capacity lithium storage media. <i>Nano Letters</i> , 2007 , 7, 2638-41	11.5	119
267	Nitrogen-Doped Graphitic Layers Deposited on Silicon Nanowires for Efficient Lithium-Ion Battery Anodes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9451-9457	3.8	118
266	Micron-sized Fe ₂ TuBi ternary composite anodes for high energy Li-ion batteries. <i>Energy and Environmental Science</i> , 2016 , 9, 1251-1257	35.4	117
265	Storage Characteristics of LiNi _{0.8} Co _{0.1+x} Mn _{0.1-x} O ₂ (x=0, 0.03, and 0.06) Cathode Materials for Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A239	3.9	111

264	The role of nanoscale-range vanadium treatment in LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ cathode materials for Li-ion batteries at elevated temperatures. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13453-13460	13	110
263	Rate Characteristics of Anatase TiO ₂ Nanotubes and Nanorods for Lithium Battery Anode Materials at Room Temperature. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A542	3.9	110
262	Precious metal-free approach to hydrogen electrocatalysis for energy conversion: From mechanism understanding to catalyst design. <i>Nano Energy</i> , 2017 , 42, 69-89	17.1	109
261	LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ cathode materials prepared by TiO ₂ nanoparticle coatings on Ni _{0.8} Co _{0.15} Al _{0.05} (OH) ₂ precursors. <i>Electrochimica Acta</i> , 2010 , 56, 333-339	6.7	109
260	Lithium-Reactive Co ₃ (PO ₄) ₂ Nanoparticle Coating on High-Capacity LiNi _{0.8} Co _{0.16} Al _{0.04} O ₂ Cathode Material for Lithium Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A495	3.9	107
259	Flexible high-energy Li-ion batteries with fast-charging capability. <i>Nano Letters</i> , 2014 , 14, 4083-9	11.5	106
258	Effect of LiCoO ₂ Cathode Nanoparticle Size on High Rate Performance for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A430	3.9	106
257	A Novel Lithium-Doping Approach for an Advanced Lithium Ion Capacitor. <i>Advanced Energy Materials</i> , 2011 , 1, 1002-1006	21.8	105
256	Surface-stabilized amorphous germanium nanoparticles for lithium-storage material. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20719-23	3.4	104
255	LiNi _{0.74} Co _{0.26-x} Mg _x O ₂ Cathode Material for a Li-Ion Cell. <i>Chemistry of Materials</i> , 2000 , 12, 3089-3094	9.6	104
254	High-Performance ZrO ₂ -Coated LiNiO ₂ Cathode Material. <i>Electrochemical and Solid-State Letters</i> , 2001 , 4, A159		103
253	Nanostructured carbon-based cathode catalysts for nonaqueous lithium-oxygen batteries. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 13568-82	3.6	102
252	Si-Encapsulating Hollow Carbon Electrodes via Electroless Etching for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013 , 3, 206-212	21.8	102
251	Comparison of Overcharge Behavior of AlPO ₄ -Coated LiCoO ₂ and LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Materials in Li-Ion Cells. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1707	3.9	102
250	Fabrication of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} catalysts with enhanced electrochemical performance by removing an inherent heterogeneous surface film layer. <i>Advanced Materials</i> , 2015 , 27, 266-71	24	101
249	Etched graphite with internally grown Si nanowires from pores as an anode for high density Li-ion batteries. <i>Nano Letters</i> , 2013 , 13, 3403-7	11.5	101
248	Optimized Synthetic Conditions of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ Cathode Materials for High Rate Lithium Batteries via Co-Precipitation Method. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A105-A111	3.9	101
247	Lithium reaction mechanism and high rate capability of VS ₄ /graphene nanocomposite as an anode material for lithium batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10847-10853	13	100

246	Issues and Challenges Facing Flexible Lithium-Ion Batteries for Practical Application. <i>Small</i> , 2018 , 14, e1702989	11	99
245	A Bifunctional Perovskite Catalyst for Oxygen Reduction and Evolution. <i>Angewandte Chemie</i> , 2014 , 126, 4670-4674	3.6	98
244	Quantum confinement and its related effects on the critical size of GeO ₂ nanoparticles anodes for lithium batteries. <i>Nano Letters</i> , 2014 , 14, 1005-10	11.5	97
243	Comparison of Al ₂ O ₃ - and AlPO ₄ -coated LiCoO ₂ cathode materials for a Li-ion cell. <i>Journal of Power Sources</i> , 2005 , 146, 58-64	8.9	97
242	Unsymmetrical fluorinated malonateborate as an amphoteric additive for high-energy-density lithium-ion batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 1552-1562	35.4	96
241	Multiple Redox Modes in the Reversible Lithiation of High-Capacity, Peierls-Distorted Vanadium Sulfide. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8499-508	16.4	95
240	Layered Li _{0.88} [Li _{0.18} Co _{0.33} Mn _{0.49}]O ₂ nanowires for fast and high capacity Li-Ion storage material. <i>Nano Letters</i> , 2008 , 8, 957-61	11.5	95
239	Template Synthesis of Hollow Sb Nanoparticles as a High-Performance Lithium Battery Anode Material. <i>Chemistry of Materials</i> , 2008 , 20, 1679-1681	9.6	94
238	Preparation and electrochemical/thermal properties of LiNi _{0.74} Co _{0.26} O ₂ cathode material. <i>Journal of Power Sources</i> , 2001 , 92, 35-39	8.9	93
237	Electrochemical behavior of Ge and GeX ₂ (X = O, S) glasses: Improved reversibility of the reaction of Li with Ge in a sulfide medium. <i>Electrochimica Acta</i> , 2008 , 53, 5058-5064	6.7	92
236	Exploration of the Effective Location of Surface Oxygen Defects in Graphene-Based Electrocatalysts for All-Vanadium Redox-Flow Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1401550	21.8	90
235	Enhancing Interfacial Bonding between Anisotropically Oriented Grains Using a Glue-Nanofiller for Advanced Li-Ion Battery Cathode. <i>Advanced Materials</i> , 2016 , 28, 4705-12	24	89
234	High-Performance Direct Methanol Fuel Cells with Precious-Metal-Free Cathode. <i>Advanced Science</i> , 2016 , 3, 1600140	13.6	89
233	Synthesis and Optimization of Nanoparticle Ge Confined in a Carbon Matrix for Lithium Battery Anode Material. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A343	3.9	88
232	Controlled Nanoparticle Metal Phosphates (Metal=Al, Fe, Ce, and Sr) Coatings on LiCoO ₂ Cathode Materials. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1142	3.9	88
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