Hong Li

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43,167 106 192 475 h-index g-index citations papers 50,364 7.89 512 11.4 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
475	A new class of Solvent-in-Salt electrolyte for high-energy rechargeable metallic lithium batteries. <i>Nature Communications</i> , 2013 , 4, 1481	17.4	1631
474	Research on Advanced Materials for Li-ion Batteries. <i>Advanced Materials</i> , 2009 , 21, 4593-4607	24	1459
473	Nanostructured ceria-based materials: synthesis, properties, and applications. <i>Energy and Environmental Science</i> , 2012 , 5, 8475	35.4	851
472	Porous Li4 Ti5 O12 coated with N-doped carbon from ionic liquids for Li-ion batteries. <i>Advanced Materials</i> , 2011 , 23, 1385-8	24	692
47 ¹	A High Capacity Nano-Si Composite Anode Material for Lithium Rechargeable Batteries. <i>Electrochemical and Solid-State Letters</i> , 1999 , 2, 547		662
470	Thermodynamic analysis on energy densities of batteries. <i>Energy and Environmental Science</i> , 2011 , 4, 2614	35.4	634
469	New horizons for inorganic solid state ion conductors. <i>Energy and Environmental Science</i> , 2018 , 11, 194	5- <u>19</u> 76	601
468	Carbon coated Na3V2(PO4)3 as novel electrode material for sodium ion batteries. <i>Electrochemistry Communications</i> , 2012 , 14, 86-89	5.1	596
467	Review on modeling of the anode solid electrolyte interphase (SEI) for lithium-ion batteries. <i>Npj Computational Materials</i> , 2018 , 4,	10.9	589
466	Direct atomic-scale confirmation of three-phase storage mechanism in LilliDlanodes for room-temperature sodium-ion batteries. <i>Nature Communications</i> , 2013 , 4, 1870	17.4	577
465	Monodispersed hard carbon spherules with uniform nanopores. <i>Carbon</i> , 2001 , 39, 2211-2214	10.4	572
464	Fully Reversible Homogeneous and Heterogeneous Li Storage in RuO2 with High Capacity. <i>Advanced Functional Materials</i> , 2003 , 13, 621-625	15.6	558
463	Rutile-TiO2 nanocoating for a high-rate Li4Ti5O12 anode of a lithium-ion battery. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7874-9	16.4	551
462	Li-Storage via Heterogeneous Reaction in Selected Binary Metal Fluorides and Oxides. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1878	3.9	521
461	A zero-strain layered metal oxide as the negative electrode for long-life sodium-ion batteries. <i>Nature Communications</i> , 2013 , 4, 2365	17.4	468
460	Flexible and ion-conducting membrane electrolytes for solid-state lithium batteries: Dispersion of garnet nanoparticles in insulating polyethylene oxide. <i>Nano Energy</i> , 2016 , 28, 447-454	17.1	449
459	Disodium Terephthalate (Na2C8H4O4) as High Performance Anode Material for Low-Cost Room-Temperature Sodium-Ion Battery. <i>Advanced Energy Materials</i> , 2012 , 2, 962-965	21.8	437

(2011-2007)

458	Application of carbon materials as counter electrodes of dye-sensitized solar cells. <i>Electrochemistry Communications</i> , 2007 , 9, 596-598	5.1	429
457	Sodium Storage and Transport Properties in Layered Na2Ti3O7 for Room-Temperature Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013 , 3, 1186-1194	21.8	401
456	Prototype Sodium-Ion Batteries Using an Air-Stable and Co/Ni-Free O3-Layered Metal Oxide Cathode. <i>Advanced Materials</i> , 2015 , 27, 6928-33	24	398
455	Understanding the Rate Capability of High-Energy-Density Li-Rich Layered Li1.2Ni0.15Co0.1Mn0.55O2 Cathode Materials. <i>Advanced Energy Materials</i> , 2014 , 4, 1300950	21.8	393
454	Safety-Reinforced Poly(Propylene Carbonate)-Based All-Solid-State Polymer Electrolyte for Ambient-Temperature Solid Polymer Lithium Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1501082	21.8	391
453	Building aqueous K-ion batteries for energy storage. <i>Nature Energy</i> , 2019 , 4, 495-503	62.3	381
452	Direct calculation of Li-ion transport in the solid electrolyte interphase. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15476-87	16.4	381
451	Approaching Practically Accessible Solid-State Batteries: Stability Issues Related to Solid Electrolytes and Interfaces. <i>Chemical Reviews</i> , 2020 , 120, 6820-6877	68.1	373
450	The crystal structural evolution of nano-Si anode caused by lithium insertion and extraction at room temperature. <i>Solid State Ionics</i> , 2000 , 135, 181-191	3.3	363
449	Recent advances of electrode materials for low-cost sodium-ion batteries towards practical application for grid energy storage. <i>Energy Storage Materials</i> , 2017 , 7, 130-151	19.4	351
448	Alumina-coated patterned amorphous silicon as the anode for a lithium-ion battery with high coulombic efficiency. <i>Advanced Materials</i> , 2011 , 23, 4938-41	24	348
447	Amorphous monodispersed hard carbon micro-spherules derived from biomass as a high performance negative electrode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 71-77	13	347
446	Two-phase electrochemical lithiation in amorphous silicon. <i>Nano Letters</i> , 2013 , 13, 709-15	11.5	336
445	MnO powder as anode active materials for lithium ion batteries. <i>Journal of Power Sources</i> , 2010 , 195, 3300-3308	8.9	322
444	Single Lithium-Ion Conducting Polymer Electrolytes Based on a Super-Delocalized Polyanion. Angewandte Chemie - International Edition, 2016 , 55, 2521-5	16.4	322
443	Kinetic analysis on LiFePO4 thin films by CV, GITT, and EIS. <i>Electrochimica Acta</i> , 2011 , 56, 4869-4875	6.7	318
442	Improving the rate performance of LiFePO4 by Fe-site doping. <i>Electrochimica Acta</i> , 2005 , 50, 2955-2958	6.7	311
441	Lithium bis(fluorosulfonyl)imide (LiFSI) as conducting salt for nonaqueous liquid electrolytes for lithium-ion batteries: Physicochemical and electrochemical properties. <i>Journal of Power Sources</i> , 2011 , 196, 3623-3632	8.9	307

440	Reversible Formation and Decomposition of LiF Clusters Using Transition Metal Fluorides as Precursors and Their Application in Rechargeable Li Batteries. <i>Advanced Materials</i> , 2003 , 15, 736-739	24	306
439	Trace doping of multiple elements enables stable battery cycling of LiCoO2 at 4.6 V. <i>Nature Energy</i> , 2019 , 4, 594-603	62.3	299
438	Compact-designed supercapacitors using free-standing single-walled carbon nanotube films. <i>Energy and Environmental Science</i> , 2011 , 4, 1440	35.4	287
437	Controlled synthesis of CeO2nanorods by a solvothermal method. <i>Nanotechnology</i> , 2005 , 16, 1454-146	533.4	287
436	A comparative study of Fd-3m and P4332 [liNi0.5Mn1.5O4] Solid State Ionics, 2011, 193, 32-38	3.3	271
435	Ti-substituted tunnel-type NallMnOlbxide as a negative electrode for aqueous sodium-ion batteries. <i>Nature Communications</i> , 2015 , 6, 6401	17.4	265
434	Lithium storage in Li4Ti5O12 spinel: the full static picture from electron microscopy. <i>Advanced Materials</i> , 2012 , 24, 3233-8	24	255
433	A superior low-cost amorphous carbon anode made from pitch and lignin for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 96-104	13	250
432	An Armored Mixed Conductor Interphase on a Dendrite-Free Lithium-Metal Anode. <i>Advanced Materials</i> , 2018 , 30, e1804461	24	246
431	Atomic Structure and Kinetics of NASICON NaxV2(PO4)3 Cathode for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2014 , 24, 4265-4272	15.6	245
430	High-Energy All-Solid-State Lithium Batteries with Ultralong Cycle Life. <i>Nano Letters</i> , 2016 , 16, 7148-71	5 4 1.5	243
429	Drawing a Soft Interface: An Effective Interfacial Modification Strategy for Garnet-Type Solid-State Li Batteries. <i>ACS Energy Letters</i> , 2018 , 3, 1212-1218	20.1	236
429 428		20.1 3.9	236
	Li Batteries. ACS Energy Letters, 2018, 3, 1212-1218 ReviewNano-Silicon/Carbon Composite Anode Materials Towards Practical Application for Next		
428	Li Batteries. ACS Energy Letters, 2018, 3, 1212-1218 Review Nano-Silicon/Carbon Composite Anode Materials Towards Practical Application for Next Generation Li-Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A2509-A2528 Rechargeable Li/CO2D2 (2:1) battery and Li/CO2 battery. Energy and Environmental Science, 2014	3.9	229
428 427	Li Batteries. ACS Energy Letters, 2018, 3, 1212-1218 Review Nano-Silicon/Carbon Composite Anode Materials Towards Practical Application for Next Generation Li-Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A2509-A2528 Rechargeable Li/CO2D2 (2:1) battery and Li/CO2 battery. Energy and Environmental Science, 2014, 7, 677 Mesoscale organization of nearly monodisperse flowerlike ceria microspheres. Journal of Physical	3.9 35.4	229
428 427 426	Review Nano-Silicon/Carbon Composite Anode Materials Towards Practical Application for Next Generation Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A2509-A2528 Rechargeable Li/CO2 (2:1) battery and Li/CO2 battery. <i>Energy and Environmental Science</i> , 2014 , 7, 677 Mesoscale organization of nearly monodisperse flowerlike ceria microspheres. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13445-52 Air-Stable Copper-Based P2-NaCuFeMnO as a New Positive Electrode Material for Sodium-Ion	3.9 35.4 3.4	229 229 223

422	Lithium bis(fluorosulfonyl)imide/poly(ethylene oxide) polymer electrolyte. <i>Electrochimica Acta</i> , 2014 , 133, 529-538	6.7	206
421	Pitch-derived amorphous carbon as high performance anode for sodium-ion batteries. <i>Energy Storage Materials</i> , 2016 , 2, 139-145	19.4	203
420	Density Functional Investigation on Li2MnO3. Chemistry of Materials, 2012, 24, 4242-4251	9.6	200
419	Direct observation of lithium staging in partially delithiated LiFePO4 at atomic resolution. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4661-3	16.4	200
418	Investigation on porous MnO microsphere anode for lithium ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 6802-6808	8.9	198
417	Confirming reversible Al 3+ storage mechanism through intercalation of Al 3+ into V 2 O 5 nanowires in a rechargeable aluminum battery. <i>Energy Storage Materials</i> , 2017 , 6, 9-17	19.4	197
416	Novel spherical microporous carbon as anode material for Li-ion batteries. <i>Solid State Ionics</i> , 2002 , 152-153, 43-50	3.3	185
415	A waste biomass derived hard carbon as a high-performance anode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13046-13052	13	183
414	Studies on Capacity Loss and Capacity Fading of Nanosized SnSb Alloy Anode for Li-Ion Batteries. Journal of the Electrochemical Society, 2001 , 148, A915	3.9	181
413	Defect Thermodynamics and Diffusion Mechanisms in Li2CO3 and Implications for the Solid Electrolyte Interphase in Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8579-8593	3.8	177
412	Atomic Structure of Li2MnO3 after Partial Delithiation and Re-Lithiation. <i>Advanced Energy Materials</i> , 2013 , 3, 1358-1367	21.8	176
411	Advanced sodium-ion batteries using superior low cost pyrolyzed anthracite anode: towards practical applications. <i>Energy Storage Materials</i> , 2016 , 5, 191-197	19.4	173
410	High capacity Sb2O4 thin film electrodes for rechargeable sodium battery. <i>Electrochemistry Communications</i> , 2011 , 13, 1462-1464	5.1	169
409	Electrochemically activated spinel manganese oxide for rechargeable aqueous aluminum battery. <i>Nature Communications</i> , 2019 , 10, 73	17.4	169
408	Solid-state composite electrolyte LiI/3-hydroxypropionitrile/SiO2 for dye-sensitized solar cells. Journal of the American Chemical Society, 2005 , 127, 6394-401	16.4	166
407	Nanocrystalline MnO thin film anode for lithium ion batteries with low overpotential. <i>Electrochemistry Communications</i> , 2009 , 11, 791-794	5.1	164
406	Practical Evaluation of Li-Ion Batteries. <i>Joule</i> , 2019 , 3, 911-914	27.8	161
405	Predicting synthesizability. <i>Journal Physics D: Applied Physics</i> , 2019 , 52,	3	161

404	Dynamic evolution of cathode electrolyte interphase (CEI) on high voltage LiCoO2 cathode and its interaction with Li anode. <i>Energy Storage Materials</i> , 2018 , 14, 1-7	19.4	158
403	A Self-Forming Composite Electrolyte for Solid-State Sodium Battery with Ultralong Cycle Life. <i>Advanced Energy Materials</i> , 2017 , 7, 1601196	21.8	158
402	Cage-like carbon nanotubes/Si composite as anode material for lithium ion batteries. <i>Electrochemistry Communications</i> , 2006 , 8, 51-54	5.1	157
401	Scalable synthesis of interconnected porous silicon/carbon composites by the Rochow reaction as high-performance anodes of lithium ion batteries. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5165-9	16.4	155
400	Anionic Redox Reaction-Induced High-Capacity and Low-Strain Cathode with Suppressed Phase Transition. <i>Joule</i> , 2019 , 3, 503-517	27.8	154
399	Mitigating Voltage Decay of Li-Rich Cathode Material via Increasing Ni Content for Lithium-Ion Batteries. <i>ACS Applied Materials & Discourse (Materials & Discourse)</i> 10 Materials & Discourse (Materials & Discourse) 11 Materials & Discourse (Materials & Discourse) 12 Materials & Discourse (Materials & Discourse) 13 Materials & Discourse (Materials & Discourse) 14 Materials & Discourse (Materials & Discourse) 15 Materials & Discourse (Materials & Discourse) 16 Materials & Discourse (Materials & Discourse) 17 Materials & Discourse (Materials & Discourse) 17 Materials & Discourse (Materials & Discourse) 18 Materials & Discourse (Materials & Discourse (Materials & Discourse) 18 Materials & Discourse (Materials & Discourse) 18 Materials	9.5	151
398	Poly(ethyl Eyanoacrylate)-Based Artificial Solid Electrolyte Interphase Layer for Enhanced Interface Stability of Li Metal Anodes. <i>Chemistry of Materials</i> , 2017 , 29, 4682-4689	9.6	150
397	Nanosized SnSb Alloy Pinning on Hard Non-Graphitic Carbon Spherules as Anode Materials for a Li Ion Battery. <i>Chemistry of Materials</i> , 2002 , 14, 103-108	9.6	146
396	Direct observation of inhomogeneous solid electrolyte interphase on MnO anode with atomic force microscopy and spectroscopy. <i>Nano Letters</i> , 2012 , 12, 2153-7	11.5	144
395	Nano-alloy anode for lithium ion batteries. <i>Solid State Ionics</i> , 2002 , 148, 247-258	3.3	139
395 394	Nano-alloy anode for lithium ion batteries. <i>Solid State Ionics</i> , 2002 , 148, 247-258 Unraveling the storage mechanism in organic carbonyl electrodes for sodium-ion batteries. <i>Science Advances</i> , 2015 , 1, e1500330	3.3	139
	Unraveling the storage mechanism in organic carbonyl electrodes for sodium-ion batteries. <i>Science</i>		
394	Unraveling the storage mechanism in organic carbonyl electrodes for sodium-ion batteries. <i>Science Advances</i> , 2015 , 1, e1500330 Graphite as a potassium ion battery anode in carbonate-based electrolyte and ether-based	14.3	138
394 393	Unraveling the storage mechanism in organic carbonyl electrodes for sodium-ion batteries. <i>Science Advances</i> , 2015 , 1, e1500330 Graphite as a potassium ion battery anode in carbonate-based electrolyte and ether-based electrolyte. <i>Journal of Power Sources</i> , 2019 , 409, 24-30 Studies of Stannic Oxide as an Anode Material for Lithium-Ion Batteries. <i>Journal of the</i>	14.3	138
394 393 392	Unraveling the storage mechanism in organic carbonyl electrodes for sodium-ion batteries. <i>Science Advances</i> , 2015 , 1, e1500330 Graphite as a potassium ion battery anode in carbonate-based electrolyte and ether-based electrolyte. <i>Journal of Power Sources</i> , 2019 , 409, 24-30 Studies of Stannic Oxide as an Anode Material for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 59-62 Experimental and theoretical studies on reduction mechanism of vinyl ethylene carbonate on	14.3 8.9 3.9	138 135 134
394 393 392 391	Unraveling the storage mechanism in organic carbonyl electrodes for sodium-ion batteries. <i>Science Advances</i> , 2015 , 1, e1500330 Graphite as a potassium ion battery anode in carbonate-based electrolyte and ether-based electrolyte. <i>Journal of Power Sources</i> , 2019 , 409, 24-30 Studies of Stannic Oxide as an Anode Material for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 59-62 Experimental and theoretical studies on reduction mechanism of vinyl ethylene carbonate on graphite anode for lithium ion batteries. <i>Electrochemistry Communications</i> , 2004 , 6, 126-131 3D visualization of inhomogeneous multi-layered structure and Young's modulus of the solid electrolyte interphase (SEI) on silicon anodes for lithium ion batteries. <i>Physical Chemistry Chemical</i>	14.3 8.9 3.9 5.1	138 135 134
394 393 392 391 390	Unraveling the storage mechanism in organic carbonyl electrodes for sodium-ion batteries. <i>Science Advances</i> , 2015 , 1, e1500330 Graphite as a potassium ion battery anode in carbonate-based electrolyte and ether-based electrolyte. <i>Journal of Power Sources</i> , 2019 , 409, 24-30 Studies of Stannic Oxide as an Anode Material for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 59-62 Experimental and theoretical studies on reduction mechanism of vinyl ethylene carbonate on graphite anode for lithium ion batteries. <i>Electrochemistry Communications</i> , 2004 , 6, 126-131 3D visualization of inhomogeneous multi-layered structure and Young's modulus of the solid electrolyte interphase (SEI) on silicon anodes for lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 13229-38 Reversible chemical delithiation/lithiation of LiFePO4: towards a redox flow lithium-ion battery.	14.3 8.9 3.9 5.1 3.6	138 135 134 134

(2016-2019)

386	In situ formation of a bifunctional interlayer enabled by a conversion reaction to initiatively prevent lithium dendrites in a garnet solid electrolyte. <i>Energy and Environmental Science</i> , 2019 , 12, 1404-1412	35.4	124
385	Perspectives of automotive battery R&D in China, Germany, Japan, and the USA. <i>Journal of Power Sources</i> , 2018 , 382, 176-178	8.9	124
384	Long lifespan lithium metal anodes enabled by Al2O3 sputter coating. <i>Energy Storage Materials</i> , 2018 , 10, 16-23	19.4	124
383	Li-free Cathode Materials for High Energy Density Lithium Batteries. <i>Joule</i> , 2019 , 3, 2086-2102	27.8	123
382	Phase transformation and lithiation effect on electronic structure of Li(x)FePO4: an in-depth study by soft X-ray and simulations. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13708-15	16.4	121
381	Al2O3-coated LiCoO2 as cathode material for lithium ion batteries. <i>Solid State Ionics</i> , 2002 , 152-153, 341-346	3.3	116
380	In situ Visualization of State-of-Charge Heterogeneity within a LiCoO2 Particle that Evolves upon Cycling at Different Rates. <i>ACS Energy Letters</i> , 2017 , 2, 1240-1245	20.1	115
379	Gas evolution behaviors for several cathode materials in lithium-ion batteries. <i>Journal of Power Sources</i> , 2005 , 142, 285-291	8.9	112
378	Improve the electrochemical performances of Cr2O3 anode for lithium ion batteries. <i>Solid State Ionics</i> , 2006 , 177, 2791-2799	3.3	111
377	In Situ Atomic-Scale Observation of Electrochemical Delithiation Induced Structure Evolution of LiCoO Cathode in a Working All-Solid-State Battery. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4274-4277	16.4	109
376	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
375	New insight into the atomic structure of electrochemically delithiated O3-Li(Ek)CoO[[0 Ek ID.5] nanoparticles. <i>Nano Letters</i> , 2012 , 12, 6192-7	11.5	108
374	Synthesis and Characterization of Polycrystalline CeO2Nanowires. <i>Chemistry Letters</i> , 2004 , 33, 662-663	1.7	108
373	A ceramic/polymer composite solid electrolyte for sodium batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15823-15828	13	108
372	Temperature-Sensitive Structure Evolution of Lithium-Manganese-Rich Layered Oxides for Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15279-15289	16.4	108
371	Transport and Electrochemical Properties and Spectral Features of Non-Aqueous Electrolytes Containing LiFSI in Linear Carbonate Solvents. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A74	3.9	107
370	Spinel lithium titanate (Li 4 Ti 5 O 12) as novel anode material for room-temperature sodium-ion battery. <i>Chinese Physics B</i> , 2012 , 21, 028201	1.2	107
369	Amorphous Li2 O2 : Chemical Synthesis and Electrochemical Properties. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10717-21	16.4	106

368	Mobile Ions in Composite Solids. <i>Chemical Reviews</i> , 2020 , 120, 4169-4221	68.1	105
367	A highly reversible, low-strain Mg-ion insertion anode material for rechargeable Mg-ion batteries. <i>NPG Asia Materials</i> , 2014 , 6, e120-e120	10.3	105
366	Interfaces Between Cathode and Electrolyte in Solid State Lithium Batteries: Challenges and Perspectives. <i>Frontiers in Chemistry</i> , 2018 , 6, 616	5	105
365	Shape evolution of patterned amorphous and polycrystalline silicon microarray thin film electrodes caused by lithium insertion and extraction. <i>Journal of Power Sources</i> , 2012 , 216, 131-138	8.9	104
364	Toxicity, a serious concern of thermal runaway from commercial Li-ion battery. <i>Nano Energy</i> , 2016 , 27, 313-319	17.1	103
363	Novel room temperature molten salt electrolyte based on LiTFSI and acetamide for lithium batteries. <i>Electrochemistry Communications</i> , 2004 , 6, 28-32	5.1	103
362	TiS2 as a high performance potassium ion battery cathode in ether-based electrolyte. <i>Energy Storage Materials</i> , 2018 , 12, 216-222	19.4	102
361	Electrochemical impedance spectroscopy study of SnO and nano-SnO anodes in lithium rechargeable batteries. <i>Journal of Power Sources</i> , 1999 , 81-82, 340-345	8.9	102
360	Non-Corrosive, Non-Absorbing Organic Redox Couple for Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2010 , 20, 3358-3365	15.6	101
359	Slope-Dominated Carbon Anode with High Specific Capacity and Superior Rate Capability for High Safety Na-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4361-4365	16.4	100
358	Pre-Oxidation-Tuned Microstructures of Carbon Anodes Derived from Pitch for Enhancing Na Storage Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1800108	21.8	100
357	Fe-Based Tunnel-Type Na0.61[Mn0.27Fe0.34Ti0.39]O2 Designed by a New Strategy as a Cathode Material for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1501156	21.8	100
356	First-principles investigation on redox properties of M-doped CeO2 (M=Mn,Pr,Sn,Zr). <i>Physical Review B</i> , 2010 , 82,	3.3	100
355	Direct evidence of gradient Mn(II) evolution at charged states in LiNi0.5Mn1.5O4 electrodes with capacity fading. <i>Journal of Power Sources</i> , 2015 , 273, 1120-1126	8.9	99
354	New electrolytes using Li2O or Li2O2 oxides and tris(pentafluorophenyl) borane as boron based anion receptor for lithium batteries. <i>Electrochemistry Communications</i> , 2008 , 10, 1195-1197	5.1	97
353	Investigations of mesoporous CeO2 R u as a reforming catalyst layer for solid oxide fuel cells. <i>Electrochemistry Communications</i> , 2006 , 8, 833-838	5.1	97
352	Study of flowerlike CeO2 microspheres used as catalyst supports for CO oxidation reaction. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 1785-1790	3.9	95
351	Novel Large-Scale Synthesis of a C/S Nanocomposite with Mixed Conducting Networks through a Spray Drying Approach for LiB Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1500046	21.8	92

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350	Increasing Poly(ethylene oxide) Stability to 4.5 V by Surface Coating of the Cathode. <i>ACS Energy Letters</i> , 2020 , 5, 826-832	20.1	91
349	New insight in understanding oxygen reduction and evolution in solid-state lithium-oxygen batteries using an in situ environmental scanning electron microscope. <i>Nano Letters</i> , 2014 , 14, 4245-9	11.5	91
348	Room temperature fabrication of porous ZnO photoelectrodes for flexible dye-sensitized solar cells. <i>Chemical Communications</i> , 2007 , 2847-9	5.8	91
347	Al2O3 surface coating on LiCoO2 through a facile and scalable wet-chemical method towards high-energy cathode materials withstanding high cutoff voltages. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24361-24370	13	89
346	New insight into the atomic-scale bulk and surface structure evolution of Li4Ti5O12 anode. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1581-6	16.4	89
345	Nano-SnSb alloy deposited on MCMB as an anode material for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2001 , 11, 1502-1505		89
344	High-throughput design and optimization of fast lithium ion conductors by the combination of bond-valence method and density functional theory. <i>Scientific Reports</i> , 2015 , 5, 14227	4.9	88
343	Synthesis of doped ceria with mesoporous flowerlike morphology and its catalytic performance for CO oxidation. <i>Microporous and Mesoporous Materials</i> , 2009 , 120, 426-431	5.3	88
342	The Thermal Stability of Lithium Solid Electrolytes with Metallic Lithium. Joule, 2020, 4, 812-821	27.8	87
341	An In Situ Formed Surface Coating Layer Enabling LiCoO2 with Stable 4.6 V High-Voltage Cycle Performances. <i>Advanced Energy Materials</i> , 2020 , 10, 2001413	21.8	87
340	Correlated Migration Invokes Higher Na+-Ion Conductivity in NaSICON-Type Solid Electrolytes. <i>Advanced Energy Materials</i> , 2019 , 9, 1902373	21.8	86
339	A repeated halving approach to fabricate ultrathin single-walled carbon nanotube films for transparent supercapacitors. <i>Small</i> , 2013 , 9, 518-24	11	86
338	Research and development of advanced battery materials in China. <i>Energy Storage Materials</i> , 2019 , 23, 144-153	19.4	85
337	High-Rate Charging Induced Intermediate Phases and Structural Changes of Layer-Structured Cathode for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1600597	21.8	84
336	Surface-protected LiCoO2 with ultrathin solid oxide electrolyte film for high-voltage lithium ion batteries and lithium polymer batteries. <i>Journal of Power Sources</i> , 2018 , 388, 65-70	8.9	82
335	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithium-Rich Cathode Oxides. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4323-4327	16.4	81
334	Electrochemical decomposition of Li2CO3 in NiOli2CO3 nanocomposite thin film and powder electrodes. <i>Journal of Power Sources</i> , 2012 , 218, 113-118	8.9	81
333	Homogeneous Interface Conductivity for Lithium Dendrite-Free Anode. ACS Energy Letters, 2018, 3, 22	- 5 <u>9</u> -226	6 81

332	Electrochemical behavior and microstructure variation of hard carbon nano-spherules as anode material for Li-ion batteries. <i>Solid State Ionics</i> , 2007 , 178, 265-271	3.3	80
331	Silicon-based nanosheets synthesized by a topochemical reaction for use as anodes for lithium ion batteries. <i>Nano Research</i> , 2015 , 8, 2654-2662	10	78
330	In-situ visualization of lithium plating in all-solid-state lithium-metal battery. <i>Nano Energy</i> , 2019 , 63, 103	3 89 51	78
329	Ionic liquid electrolytes based on multi-methoxyethyl substituted ammoniums and perfluorinated sulfonimides: Preparation, characterization, and properties. <i>Electrochimica Acta</i> , 2010 , 55, 7134-7144	6.7	78
328	Enabling Stable Cycling of 4.2 V High-Voltage All-Solid-State Batteries with PEO-Based Solid Electrolyte. <i>Advanced Functional Materials</i> , 2020 , 30, 1909392	15.6	77
327	Investigations on the Fundamental Process of Cathode Electrolyte Interphase Formation and Evolution of High-Voltage Cathodes. <i>ACS Applied Materials & District Materials</i> (12, 2319-2326)	9.5	76
326	Cr[sub 2]O[sub 3]-Based Anode Materials for Li-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A66		75
325	Local structure adaptability through multi cations for oxygen redox accommodation in Li-Rich layered oxides. <i>Energy Storage Materials</i> , 2020 , 24, 384-393	19.4	75
324	Phase transition behavior of NaCrO2 during sodium extraction studied by synchrotron-based X-ray diffraction and absorption spectroscopy. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11130	13	74
323	Nanovoid formation and annihilation in gallium nanodroplets under lithiation-delithiation cycling. <i>Nano Letters</i> , 2013 , 13, 5212-7	11.5	73
322	Novel Methods for Sodium-Ion Battery Materials. <i>Small Methods</i> , 2017 , 1, 1600063	12.8	70
321	Scalable Synthesis of Interconnected Porous Silicon/Carbon Composites by the Rochow Reaction as High-Performance Anodes of Lithium Ion Batteries. <i>Angewandte Chemie</i> , 2014 , 126, 5265-5269	3.6	70
320	Direct Imaging of the Passivating Film and Microstructure of Nanometer-Scale SnO Anodes in Lithium Rechargeable Batteries. <i>Electrochemical and Solid-State Letters</i> , 1999 , 1, 241		70
319	Covalently assembled dopamine nanoparticle as an intrinsic photosensitizer and pH-responsive nanocarrier for potential application in anticancer therapy. <i>Chemical Communications</i> , 2019 , 55, 15057-	1 <i>5</i> 060	69
318	Structural and mechanistic revelations on high capacity cation-disordered Li-rich oxides for rechargeable Li-ion batteries. <i>Energy Storage Materials</i> , 2019 , 16, 354-363	19.4	67
317	Batteries with high theoretical energy densities. <i>Energy Storage Materials</i> , 2020 , 26, 46-55	19.4	67
316	Novel Li[(CFSO)(n-CFSO)N]-Based Polymer Electrolytes for Solid-State Lithium Batteries with Superior Electrochemical Performance. <i>ACS Applied Materials & Description Section</i> , 8, 29705-29712	9.5	67
315	New Binary Room-Temperature Molten Salt Electrolyte Based on Urea and LiTFSI. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 9966-9969	3.4	66

314	Growth of silicon/carbon microrods on graphite microspheres as improved anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4483	13	65	
313	New electrolytes for lithium ion batteries using LiF salt and boron based anion receptors. <i>Journal of Power Sources</i> , 2008 , 184, 517-521	8.9	65	
312	Self-assembly of hierarchical nanostructures from dopamine and polyoxometalate for oral drug delivery. <i>Chemistry - A European Journal</i> , 2014 , 20, 499-504	4.8	63	
311	Investigation of crack patterns and cyclic performance of TiBi nanocomposite thin film anodes for lithium ion batteries. <i>Journal of Power Sources</i> , 2012 , 202, 236-245	8.9	63	
310	Non-sacrificial template synthesis of Cr2O3th hierarchical core/shell nanospheres and their application as anode materials in lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7565		62	
309	A class of liquid anode for rechargeable batteries with ultralong cycle life. <i>Nature Communications</i> , 2017 , 8, 14629	17.4	61	
308	Impact of the functional group in the polyanion of single lithium-ion conducting polymer electrolytes on the stability of lithium metal electrodes. <i>RSC Advances</i> , 2016 , 6, 32454-32461	3.7	61	
307	High air-stability and superior lithium ion conduction of Li3+3P1-Zn S4-O by aliovalent substitution of ZnO for all-solid-state lithium batteries. <i>Energy Storage Materials</i> , 2019 , 17, 266-274	19.4	61	
306	Improved Cycling Stability of Lithium-Metal Anode with Concentrated Electrolytes Based on Lithium (Fluorosulfonyl)(trifluoromethanesulfonyl)imide. <i>ChemElectroChem</i> , 2016 , 3, 531-536	4.3	60	
305	Bringing forward the development of battery cells for automotive applications: Perspective of R&D activities in China, Japan, the EU and the USA. <i>Journal of Power Sources</i> , 2020 , 459, 228073	8.9	59	
304	Ionic liquids based on (fluorosulfonyl)(pentafluoroethanesulfonyl)imide with various oniums. <i>Electrochimica Acta</i> , 2010 , 55, 7145-7151	6.7	59	
303	Effect of iodine addition on solid-state electrolyte LiI/3-hydroxypropionitrile (1:4) for dye-sensitized solar cells. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5970-4	3.4	59	
302	Determination of Chemical Diffusion Coefficient of Lithium Ion in Graphitized Mesocarbon Microbeads with Potential Relaxation Technique. <i>Journal of the Electrochemical Society</i> , 2001 , 148, A737	7 ^{3.9}	59	
301	In Situ Formation of a Stable Interface in Solid-State Batteries. ACS Energy Letters, 2019, 4, 1650-1657	20.1	58	
300	Origin of Solid Electrolyte Interphase on Nanosized LiCoO[sub 2]. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A328		57	
299	Synthesis and electrochemical performance of dendrite-like nanosized SnSb alloy prepared by co-precipitation in alcohol solution at low temperature. <i>Journal of Materials Chemistry</i> , 2000 , 10, 693-69	16	57	
298	A spray drying approach for the synthesis of a Na2C6H2O4/CNT nanocomposite anode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13193-13197	13	56	
297	Nanotube LiMoOEa novel and high-capacity material as a lithium-ion battery anode. <i>Nanoscale</i> , 2014 , 6, 13660-7	7.7	56	

296	Atomic-scale structure evolution in a quasi-equilibrated electrochemical process of electrode materials for rechargeable batteries. <i>Advanced Materials</i> , 2015 , 27, 2134-49	24	56
295	A new Na[(FSO2)(n-C4F9SO2)N]-based polymer electrolyte for solid-state sodium batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7738-7743	13	55
294	Reversible lithium storage in LiF/Ti nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 949	7- ≨.6 3	55
293	Explore the Effects of Microstructural Defects on Voltage Fade of Li- and Mn-Rich Cathodes. <i>Nano Letters</i> , 2016 , 16, 5999-6007	11.5	55
292	Electro-plating and stripping behavior on lithium metal electrode with ordered three-dimensional structure. <i>Nano Energy</i> , 2018 , 45, 463-470	17.1	54
291	Kinetically Controlled Lithium-Staging in Delithiated LiFePO4 Driven by the Fe Center Mediated Interlayer Li[]i Interactions. <i>Chemistry of Materials</i> , 2012 , 24, 4693-4703	9.6	54
290	Investigation of the structural changes in Li1⊠FePO4 upon charging by synchrotron radiation techniques. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11406		54
289	Advanced Characterization Techniques in Promoting Mechanism Understanding for LithiumBulfur Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1707543	15.6	53
288	An all solid-state rechargeable lithium-iodine thin film battery using LiI(3-hydroxypropionitrile)2 as an IIIon electrolyte. <i>Energy and Environmental Science</i> , 2011 , 4, 1261	35.4	53
287	Ab initio molecular-dynamics studies on Li x Mn 2 O 4 as cathode material for lithium secondary batteries. <i>Europhysics Letters</i> , 2004 , 67, 28-34	1.6	53
286	New solid-state synthesis routine and mechanism for LiFePO4 using LiF as lithium precursor. Journal of Solid State Chemistry, 2004 , 177, 4582-4587	3.3	53
285	Graphite microspheres decorated with Si particles derived from waste solid of organosilane industry as high capacity anodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2013 , 228, 112-119	8.9	52
284	Highly ordered staging structural interface between LiFePO4 and FePO4. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 5363-7	3.6	52
283	Sodium Bis(fluorosulfonyl)imide/Poly(ethylene oxide) Polymer Electrolytes for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2016 , 3, 1741-1745	4.3	52
282	Phase Separation of Li2S/S at Nanoscale during Electrochemical Lithiation of the Solid-State LithiumBulfur Battery Using In Situ TEM. <i>Advanced Energy Materials</i> , 2016 , 6, 1600806	21.8	51
281	Water-in-Salt Electrolyte Promotes High-Capacity FeFe(CN) Cathode for Aqueous Al-Ion Battery. <i>ACS Applied Materials & Discrete Section</i> 11, 41356-41362	9.5	51
280	A spontaneous combustion reaction for synthesizing Pt hollow capsules using colloidal carbon spheres as templates. <i>Chemistry - A European Journal</i> , 2006 , 12, 4083-90	4.8	51
279	The Compensation Effect Mechanism of Fe-Ni Mixed Prussian Blue Analogues in Aqueous Rechargeable Aluminum-Ion Batteries. <i>ChemSusChem</i> , 2020 , 13, 732-740	8.3	51

278	Lithium metal batteries capable of stable operation at elevated temperature. <i>Energy Storage Materials</i> , 2019 , 23, 646-652	19.4	50	
277	High rate delithiation behaviour of LiFePO4 studied by quick X-ray absorption spectroscopy. <i>Chemical Communications</i> , 2012 , 48, 11537-9	5.8	50	
276	Improved Li-storage performance of Li4Ti5O12 coated with C-N compounds derived from pyrolysis of urea through a low-temperature approach. <i>ChemSusChem</i> , 2012 , 5, 526-9	8.3	50	•
275	First-principles investigation of the structural, magnetic, and electronic properties of olivine LiFePO4. <i>Physical Review B</i> , 2005 , 71,	3.3	50	
274	Novel Concentrated Li[(FSO)(n-CFSO)N]-Based Ether Electrolyte for Superior Stability of Metallic Lithium Anode. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 4282-4289	9.5	49	
273	A Rechargeable Li-Air Fuel Cell Battery Based on Garnet Solid Electrolytes. <i>Scientific Reports</i> , 2017 , 7, 41217	4.9	49	
272	Probing Reversible Multielectron Transfer and Structure Evolution of Li1.2Cr0.4Mn0.4O2 Cathode Material for Li-Ion Batteries in a Voltage Range of 1.04.8 V. <i>Chemistry of Materials</i> , 2015 , 27, 5238-5252	9.6	49	
271	Nanoscaled NaPS Solid Electrolyte for All-Solid-State FeS/Na Batteries with Ultrahigh Initial Coulombic Efficiency of 95% and Excellent Cyclic Performances. <i>ACS Applied Materials & Amp; Interfaces</i> , 2018 , 10, 12300-12304	9.5	49	
270	Toothpaste-like Electrode: A Novel Approach to Optimize the Interface for Solid-State Sodium-Ion Batteries with Ultralong Cycle Life. <i>ACS Applied Materials & Description</i> , 8, 32631-32636	9.5	49	
269	Brief overview of electrochemical potential in lithium ion batteries. <i>Chinese Physics B</i> , 2016 , 25, 018210	1.2	49	
268	First-principles insight into the structural fundamental of super ionic conducting in NASICON MTi2(PO4)3 (M = Li, Na) materials for rechargeable batteries. <i>Nano Energy</i> , 2017 , 41, 626-633	17.1	48	
267	Safe Lithium-Metal Anodes for LiD2 Batteries: From Fundamental Chemistry to Advanced Characterization and Effective Protection. <i>Batteries and Supercaps</i> , 2019 , 2, 638-658	5.6	48	
266	Na3.4Zr1.8Mg0.2Si2PO12 filled poly(ethylene oxide)/Na(CF3SO2)2N as flexible composite polymer electrolyte for solid-state sodium batteries. <i>Journal of Power Sources</i> , 2017 , 372, 270-275	8.9	48	
265	A long-life Na-air battery based on a soluble NaI catalyst. <i>Chemical Communications</i> , 2015 , 51, 2324-7	5.8	47	
264	Practical evaluation of energy densities for sulfide solid-state batteries. <i>ETransportation</i> , 2019 , 1, 10001	1 0 2.7	47	
263	First-principles investigation of transition metal atom M (M = Cu, Ag, Au) adsorption on CeO2(110). <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 1923-33	3.6	47	
262	Decomposing lithium carbonate with a mobile catalyst. <i>Nano Energy</i> , 2017 , 36, 390-397	17.1	46	
261	Core-Shell FeS@NaPSSe Nanorods for Room Temperature All-Solid-State Sodium Batteries with High Energy Density. <i>ACS Nano</i> , 2018 , 12, 2809-2817	16.7	46	

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Energy, 2020, 73, 104786

Electrochemical Society, 2011, 158, B1211

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(2015-2005)

242	Influence of micropore structure on Li-storage capacity in hard carbon spherules. <i>Solid State Ionics</i> , 2005 , 176, 1151-1159	3.3	42	
241	Electronic states of metal (Cu, Ag, Au) atom on CeO2(111) surface: The role of local structural distortion. <i>Journal of Power Sources</i> , 2012 , 197, 28-37	8.9	41	
240	A CoOx/carbon double-layer thin film air electrode for nonaqueous Li-air batteries. <i>Journal of Power Sources</i> , 2013 , 223, 312-318	8.9	41	
239	Data mining-aided materials discovery and optimization. <i>Journal of Materiomics</i> , 2017 , 3, 191-201	6.7	41	
238	Direct imaging of layered O3- and P2-NaxFe1/2Mn1/2O2 structures at the atomic scale. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21946-52	3.6	40	
237	Amorphous silicon-carbon nanospheres synthesized by chemical vapor deposition using cheap methyltrichlorosilane as improved anode materials for Li-ion batteries. <i>Nanoscale</i> , 2013 , 5, 5384-9	7.7	40	
236	Probing the Energy Storage Mechanism of Quasi-Metallic Na in Hard Carbon for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003854	21.8	40	
235	The long life-span of a Li-metal anode enabled by a protective layer based on the pyrolyzed N-doped binder network. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9339-9349	13	39	
234	Effect of electrochemical dissolution and deposition order on lithium dendrite formation: a top view investigation. <i>Faraday Discussions</i> , 2014 , 176, 109-24	3.6	39	
233	The low-temperature (400 °C) coating of few-layer graphene on porous Li4Ti5O12viaC28H16Br2 pyrolysis for lithium-ion batteries. <i>RSC Advances</i> , 2012 , 2, 1751	3.7	39	
232	Realizing High Volumetric Lithium Storage by Compact and Mechanically Stable Anode Designs. <i>ACS Energy Letters</i> , 2020 , 5, 1986-1995	20.1	38	
231	Reversible Al3+ storage mechanism in anatase TiO2 cathode material for ionic liquid electrolyte-based aluminum-ion batteries. <i>Journal of Energy Chemistry</i> , 2020 , 51, 72-80	12	38	
230	Li-storage in LiFe1/4Mn1/4Co1/4Ni1/4PO4 solid solution. <i>Electrochemistry Communications</i> , 2008 , 10, 1347-1350	5.1	38	
229	Effect of Morphology and Current Density on the Electrochemical Behavior of Graphite Electrodes in PC-Based Electrolyte Containing VEC Additive. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, A442		38	
228	Further identification to the SEI film on Ag electrode in lithium batteries by surface enhanced Raman scattering (SERS). <i>Journal of Power Sources</i> , 2002 , 104, 190-194	8.9	38	
227	Cheap and environmentally benign electrochemical energy storage and conversion devices based on Ali3 electrolytes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8720-1	16.4	37	
226	Mechanism Study on the Interfacial Stability of a Lithium Garnet-Type Oxide Electrolyte against Cathode Materials. <i>ACS Applied Energy Materials</i> , 2018 , 1, 5968-5976	6.1	37	
225	Thick solid electrolyte interphases grown on silicon nanocone anodes during slow cycling and their negative effects on the performance of Li-ion batteries. <i>Nanoscale</i> , 2015 , 7, 7651-8	7.7	36	

224	Recent developments in dopamine-based materials for cancer diagnosis and therapy. <i>Advances in Colloid and Interface Science</i> , 2018 , 252, 1-20	14.3	36
223	Structural integrityBearching the key factor to suppress the voltage fade of Li-rich layered cathode materials through 3D X-ray imaging and spectroscopy techniques. <i>Nano Energy</i> , 2016 , 28, 164-	1 7 7.1	36
222	Electrochemical performance of LiFePO4 thin films with different morphology and crystallinity. <i>Electrochimica Acta</i> , 2009 , 54, 6565-6569	6.7	36
221	Synthesis and characterization of large scale potassium titanate nanowires with good Li-intercalation performance. <i>Chemical Physics Letters</i> , 2005 , 406, 95-100	2.5	36
220	Structure Design of Cathode Electrodes for Solid-State Batteries: Challenges and Progress. <i>Small Structures</i> , 2020 , 1, 2000042	8.7	36
219	Influences of Additives on the Formation of a Solid Electrolyte Interphase on MnO Electrode Studied by Atomic Force Microscopy and Force Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20756-20762	3.8	35
218	Atomic insight into electrochemical inactivity of lithium chromate (LiCrO2): Irreversible migration of chromium into lithium layers in surface regions. <i>Journal of Power Sources</i> , 2015 , 273, 1218-1225	8.9	35
217	Li-ion battery material under high pressure: amorphization and enhanced conductivity of LiTiO. <i>National Science Review</i> , 2019 , 6, 239-246	10.8	35
216	Discrete Li-occupation versus pseudo-continuous Na-occupation and their relationship with structural change behaviors in Fe2(MoO4)3. <i>Scientific Reports</i> , 2015 , 5, 8810	4.9	34
215	Interface Concentrated-Confinement Suppressing Cathode Dissolution in Water-in-Salt Electrolyte. <i>Advanced Energy Materials</i> , 2020 , 10, 2000665	21.8	34
214	Rechargeable room-temperature CF(x)-sodium battery. <i>ACS Applied Materials & amp; Interfaces</i> , 2014 , 6, 2209-12	9.5	33
213	Finding a Needle in the Haystack: Identification of Functionally Important Minority Phases in an Operating Battery. <i>Nano Letters</i> , 2017 , 17, 7782-7788	11.5	33
212	A new in situ synchrotron X-ray diffraction technique to study the chemical delithiation of LiFePO4. <i>Chemical Communications</i> , 2011 , 47, 7170-2	5.8	33
211	Na3Zr2Si2PO12: A Stable Na+-Ion Solid Electrolyte for Solid-State Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7427-7437	6.1	31
210	Impact of Anionic Structure of Lithium Salt on the Cycling Stability of Lithium-Metal Anode in Li-S Batteries. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A1776-A1783	3.9	31
209	High performance MnO thin-film anodes grown by radio-frequency sputtering for lithium ion batteries. <i>Journal of Power Sources</i> , 2013 , 244, 731-735	8.9	31
208	Environmentally friendly Lil/ethanol based gel electrolyte for dye-sensitized solar cells. <i>Electrochemistry Communications</i> , 2006 , 8, 170-172	5.1	31
207	An alternative ionic liquid based electrolyte for dye-sensitized solar cells. <i>Photochemical and Photobiological Sciences</i> , 2004 , 3, 918-9	4.2	30

(2009-2020)

206	Iodine Vapor Transport-Triggered Preferential Growth of Chevrel MoS Nanosheets for Advanced Multivalent Batteries. <i>ACS Nano</i> , 2020 , 14, 1102-1110	16.7	30
205	Cycling mechanism of Li2MnO3: Li©O2Datteries and commonality on oxygen redox in cathode materials. <i>Joule</i> , 2021 , 5, 975-997	27.8	30
204	Slope-Dominated Carbon Anode with High Specific Capacity and Superior Rate Capability for High Safety Na-Ion Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 4405-4409	3.6	29
203	Screening possible solid electrolytes by calculating the conduction pathways using Bond Valence method. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014 , 57, 1526-1536	3.6	29
202	Hierarchical Defect Engineering for LiCoO2 through Low-Solubility Trace Element Doping. <i>CheM</i> , 2020 , 6, 2759-2769	16.2	29
201	Correlations between Transition-Metal Chemistry, Local Structure, and Global Structure in Li2Ru0.5Mn0.5O3 Investigated in a Wide Voltage Window. <i>Chemistry of Materials</i> , 2017 , 29, 9053-9065	9.6	28
200	Direct Observation of Ordered Oxygen Defects on the Atomic Scale in Li2O2 for Li-O2 Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1400664	21.8	28
199	Mn Ion Dissolution Mechanism for Lithium-Ion Battery with LiMnO Cathode: Ultraviolet-Visible Spectroscopy and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3051	-3 0 57	28
198	Sustainable Interfaces between Si Anodes and Garnet Electrolytes for Room-Temperature Solid-State Batteries. <i>ACS Applied Materials & Amp; Interfaces</i> , 2018 , 10, 2185-2190	9.5	28
197	Amorphous Li2O2: Chemical Synthesis and Electrochemical Properties. <i>Angewandte Chemie</i> , 2016 , 128, 10875-10879	3.6	28
196	A pentafluorophenylboron oxalate additive in non-aqueous electrolytes for lithium batteries. <i>Electrochemistry Communications</i> , 2009 , 11, 2296-2299	5.1	28
195	4.2 V poly(ethylene oxide)-based all-solid-state lithium batteries with superior cycle and safety performance. <i>Energy Storage Materials</i> , 2020 , 32, 191-198	19.4	28
194	Rational Design of Mixed Electronic-Ionic Conducting Ti-Doping Li7La3Zr2O12 for Lithium Dendrites Suppression. <i>Advanced Functional Materials</i> , 2021 , 31, 2001918	15.6	28
193	Enhanced Electrochemical Performances of Carbon Coated Mesoporous LiFe[sub 0.2]Mn[sub 0.8]PO[sub 4]. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A285	3.9	27
192	Needle-like LiFePO4 thin films prepared by an off-axis pulsed laser deposition technique. <i>Thin Solid Films</i> , 2009 , 517, 2618-2622	2.2	27
191	Synthesis and ionic transport mechanisms of £iAlO2. <i>Solid State Ionics</i> , 2016 , 286, 122-134	3.3	26
190	Improved electrochemical properties of MnO thin film anodes by elevated deposition temperatures: Study of conversion reactions. <i>Electrochimica Acta</i> , 2013 , 89, 229-238	6.7	26
189	TG-MS analysis on thermal decomposable components in the SEI film on Cr2O3 powder anode in Li-ion batteries. <i>Ionics</i> , 2009 , 15, 91-96	2.7	26

188	Mesoscale Organization of Flower-Like La2O2CO3and La2O3 Microspheres. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2576-2581	3.8	26
187	Novel 1.5 V anode materials, ATiOPO4 (A = NH4, K, Na), for room-temperature sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7141-7147	13	26
186	Improving LiNi0.9Co0.08Mn0.02O2\(\text{S}\) cyclic stability via abating mechanical damages. <i>Energy Storage Materials</i> , 2020 , 28, 1-9	19.4	25
185	Ab initio studies on the stability and electronic structure of LiCoO2 (003) surfaces. <i>Physical Review B</i> , 2005 , 71,	3.3	25
184	Retarding graphitization of soft carbon precursor: From fusion-state to solid-state carbonization. <i>Energy Storage Materials</i> , 2020 , 26, 577-584	19.4	25
183	Epitaxial Induced Plating Current-Collector Lasting Lifespan of Anode-Free Lithium Metal Battery. <i>Advanced Energy Materials</i> , 2021 , 11, 2003709	21.8	25
182	A Well-Defined Silicon Nanocone-Carbon Structure for Demonstrating Exclusive Influences of Carbon Coating on Silicon Anode of Lithium-Ion Batteries. <i>ACS Applied Materials & Carbon Structure For Demonstrating Exclusive Influences of Carbon Coating on Silicon Anode of Lithium-Ion Batteries. ACS Applied Materials & Camp; Interfaces, 2017</i> , 9, 2806-2814	9.5	24
181	A novel assembly of LiFePO4 microspheres from nanoplates. <i>CrystEngComm</i> , 2012 , 14, 4344	3.3	24
180	Electrochemical performance of Ni-deposited graphite anodes for lithium secondary batteries. Journal of Power Sources, 2001 , 102, 60-67	8.9	24
179	The interaction between SnO anode and electrolytes. <i>Journal of Power Sources</i> , 1999 , 81-82, 346-351	8.9	24
178	Unraveling the Reaction Mechanism of FeS as a Li-Ion Battery Cathode. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 44850-44857	9.5	24
177	Enabling the thermal stability of solid electrolyte interphase in Li-ion battery. <i>Informal</i> ia Materilly, 2021 , 3, 648-661	23.1	24
176	Deciphering the Oxygen Absorption Pre-edge: A Caveat on its Application for Probing Oxygen Redox Reactions in Batteries. <i>Energy and Environmental Materials</i> , 2021 , 4, 246-254	13	24
175	Realizing long-term cycling stability and superior rate performance of 4.5 [VIIICOO2 by aluminum doped zinc oxide coating achieved by a simple wet-mixing method. <i>Journal of Power Sources</i> , 2020 , 470, 228423	8.9	23
174	Low-temperature fusion fabrication of Li-Cu alloy anode with in situ formed 3D framework of inert LiCu nanowires for excellent Li storage performance. <i>Science Bulletin</i> , 2020 , 65, 1907-1915	10.6	23
173	Si-Cu Thin Film Electrode with Kirkendall Voids Structure for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A2076-A2081	3.9	23
172	Significant effect of electron transfer between current collector and active material on high rate performance of Li 4 Ti 5 O 12. <i>Chinese Physics B</i> , 2011 , 20, 118202	1.2	23
171	Investigation of Lithium Storage in Bamboo-like CNTs by HRTEM. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A1281	3.9	23

(2015-2017)

170	Quantitative structure-property relationship study of cathode volume changes in lithium ion batteries using ab-initio and partial least squares analysis. <i>Journal of Materiomics</i> , 2017 , 3, 178-183	6.7	22	
169	Concentrated dual-salt electrolytes for improving the cycling stability of lithium metal anodes. <i>Chinese Physics B</i> , 2016 , 25, 078203	1.2	22	
168	H2 production from stable ethanol steam reforming over catalyst of NiO based on flowerlike CeO2 microspheres. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 3087-3091	6.7	22	
167	Agglomeration and the surface passivating film of Ag nano-brush electrode in lithium batteries. <i>Solid State Ionics</i> , 2002 , 149, 185-192	3.3	22	
166	Structure and electrochemical properties of anodes consisting of modified SnO. <i>Journal of Power Sources</i> , 1999 , 81-82, 335-339	8.9	22	
165	Insights of the anionic redox in P2Na0.67Ni0.33Mn0.67O2. <i>Nano Energy</i> , 2020 , 78, 105285	17.1	22	
164	Size effect on the growth and pulverization behavior of Si nanodomains in SiO anode. <i>Nano Energy</i> , 2020 , 78, 105101	17.1	22	
163	Progress in thermal stability of all-solid-state-Li-ion-batteries. <i>Informa</i> Materily, 2021 , 3, 827-853	23.1	22	
162	Atomic-Scale Structure-Property Relationships in Lithium Ion Battery Electrode Materials. <i>Annual Review of Materials Research</i> , 2017 , 47, 175-198	12.8	21	
161	High-capacity lithium-rich cathode oxides with multivalent cationic and anionic redox reactions for lithium ion batteries. <i>Science China Chemistry</i> , 2017 , 60, 1483-1493	7.9	21	
160	Single Lithium-Ion Conducting Polymer Electrolytes Based on a Super-Delocalized Polyanion. <i>Angewandte Chemie</i> , 2016 , 128, 2567-2571	3.6	21	
159	Molten salt of lithium bis(fluorosulfonyl)imide (LiFSI)-potassium bis(fluorosulfonyl)imide (KFSI) as electrolyte for the natural graphite/LiFePO4 lithium-ion cell. <i>Electrochimica Acta</i> , 2014 , 135, 217-223	6.7	21	
158	Synthesis and separation of mellitic acid and graphite oxide colloid through electrochemical oxidation of graphite in deionized water. <i>Electrochemistry Communications</i> , 2009 , 11, 409-412	5.1	21	
157	Surface-Enhanced Raman Scattering Study on Passivating Films of Ag Electrodes in Lithium Batteries Journal of Physical Chemistry B, 2000 , 104, 8477-8480	3.4	21	
156	Ultralight Electrolyte for High-Energy Lithium-Sulfur Pouch Cells. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17547-17555	16.4	21	
155	A Multilayer Ceramic Electrolyte for All-Solid-State Li Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3781-3790	16.4	21	
154	Beyond imaging: Applications of atomic force microscopy for the study of Lithium-ion batteries. <i>Ultramicroscopy</i> , 2019 , 204, 34-48	3.1	20	
153	Enhanced electrochemical performance of SiŒuŒi thin films by surface covered with Cu 3 Si nanowires. <i>Journal of Power Sources</i> , 2015 , 281, 455-460	8.9	20	

152	Electrochromic Behavior of Transparent Li[sub 4]Ti[sub 5]O[sub 12]/FTO Electrode. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, J99		20
151	Neutron-based characterization techniques for lithium-ion battery research. <i>Chinese Physics B</i> , 2020 , 29, 018201	1.2	20
150	Superior All-Solid-State Batteries Enabled by a Gas-Phase-Synthesized Sulfide Electrolyte with Ultrahigh Moisture Stability and Ionic Conductivity. <i>Advanced Materials</i> , 2021 , 33, e2100921	24	20
149	Forming solid electrolyte interphase in situ in an ionic conducting Li 1.5 Al 0.5 Ge 1.5 (PO 4) 3 -polypropylene (PP) based separator for Li-ion batteries. <i>Chinese Physics B</i> , 2016 , 25, 078204	1.2	20
148	Electrolyte-assisted dissolution-recrystallization mechanism towards high energy density and power density CF cathodes in potassium cell. <i>Nano Energy</i> , 2020 , 70, 104552	17.1	19
147	Electrochemical performances and volume variation of nano-textured silicon thin films as anodes for lithium-ion batteries. <i>Nanotechnology</i> , 2013 , 24, 424011	3.4	19
146	Preparation and characterization of LiNi0.5Mn1.5O4lthin films taking advantage of correlations with powder samples behavior. <i>Journal of Power Sources</i> , 2013 , 232, 165-172	8.9	19
145	Ion transport in small-molecule electrolytes based on LiI/3-hydroxypropionitrile with high salt contents. <i>Electrochimica Acta</i> , 2007 , 52, 2039-2044	6.7	19
144	Anisotropic expansion and size-dependent fracture of silicon nanotubes during lithiation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15113-15122	13	18
143	Recent advances in self-assembly of spin crossover materials and their applications. <i>Current Opinion in Colloid and Interface Science</i> , 2018 , 35, 9-16	7.6	18
142	A multiphysics model that can capture crack patterns in Si thin films based on their microstructure. Journal of Power Sources, 2018 , 400, 383-391	8.9	18
141	Nano-sized carboxylates as anode materials for rechargeable lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2014 , 23, 269-273	12	18
140	Direct Imaging of Lithium Ions Using Aberration-Corrected Annular-Bright-Field Scanning Transmission Electron Microscopy and Associated Contrast Mechanisms. <i>Materials Express</i> , 2011 , 1, 43-5	5 6 ·3	18
139	Spectroscopic and DFT studies to understand the liquid formation mechanism in the LiTFSI/acetamide complex system. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005 , 61, 2009-15	4.4	18
138	A stabilized PEO-based solid electrolyte via a facile interfacial engineering method for a high voltage solid-state lithium metal battery. <i>Chemical Communications</i> , 2020 , 56, 5633-5636	5.8	18
137	Amorphous anion-rich titanium polysulfides for aluminum-ion batteries. Science Advances, 2021, 7,	14.3	18
136	Structural stability and Li-ion transport property of LiFePO4 under high-pressure. <i>Solid State Ionics</i> , 2017 , 301, 133-137	3.3	17
135	A dual-phase Lilla alloy with a patternable and lithiophilic 3D framework for improving lithium anode performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22377-22384	13	17

(2006-2005)

134	Spectroscopic studies on the cation-anion, cation-solvent and anion-solvent interactions in the LiCF3SO3/acetamide complex system. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005 , 61, 403-11	4.4	17
133	Biphenyl-lithium-TEGDME solution as anolyte for high energy density non-aqueous redox flow lithium battery. <i>Journal of Energy Chemistry</i> , 2018 , 27, 1362-1368	12	16
132	Electronic structural changes of the electrochemically delithiated LiFe0.5Co0.5PO4 cathode material studied by X-ray absorption spectroscopy. <i>Journal of Power Sources</i> , 2008 , 183, 427-430	8.9	16
131	Exploring PVFM-Based Janus Membrane-Supporting Gel Polymer Electrolyte for Highly Durable Li-O Batteries. <i>ACS Applied Materials & Discrete Section</i> , 10, 22237-22247	9.5	15
130	A series of Lil/acetamide phase transition electrolytes and their applications in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010 , 55, 895-902	6.7	15
129	First-principles study on electronic structure of LiFePO4. Solid State Communications, 2007, 143, 144-14	18 1.6	15
128	A new route to single crystalline vanadium dioxide nanoflakes via thermal reduction. <i>Journal of Materials Research</i> , 2007 , 22, 1921-1926	2.5	15
127	Ionic Conductivity and Association Studies of Novel RTMS Electrolyte Based on LiTFSI and Acetamide. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1424	3.9	15
126	Oxygen-redox reactions in LiCoO2 cathode without OD bonding during charge-discharge. <i>Joule</i> , 2021 , 5, 720-736	27.8	15
125	Controlling Li deposition below the interface. <i>EScience</i> , 2022 ,		15
124	The Ab Initio Calculations on the Areal Specific Resistance of Li-Metal/Li7La3Zr2O12 Interphase. Advanced Theory and Simulations, 2019 , 2, 1900028	3.5	14
124	·	3.5	14
	Advanced Theory and Simulations, 2019, 2, 1900028 Application of Li2S to compensate for loss of active lithium in a Sill anode. Journal of Materials		·
123	Advanced Theory and Simulations, 2019, 2, 1900028 Application of Li2S to compensate for loss of active lithium in a Sift anode. Journal of Materials Chemistry A, 2018, 6, 6206-6211 Effect of Ni doping on the catalytic properties of nanostructured peony-like CeO2. Chinese Journal	13	14
123	Advanced Theory and Simulations, 2019, 2, 1900028 Application of Li2S to compensate for loss of active lithium in a Sift anode. Journal of Materials Chemistry A, 2018, 6, 6206-6211 Effect of Ni doping on the catalytic properties of nanostructured peony-like CeO2. Chinese Journal of Catalysis, 2013, 34, 305-312 Studies on Composite Cathode with Nanostructured CeO.9Sm0.1O1.95 for Intermediate	13	14
123 122 121	Application of Li2S to compensate for loss of active lithium in a Sift anode. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6206-6211 Effect of Ni doping on the catalytic properties of nanostructured peony-like CeO2. <i>Chinese Journal of Catalysis</i> , 2013 , 34, 305-312 Studies on Composite Cathode with Nanostructured CeO.9SmO.1O1.95 for Intermediate Temperature Solid Oxide Fuel Cells. <i>Fuel Cells</i> , 2009 , 9, 650-656 Aqueous interphase formed by CO brings electrolytes back to salt-in-water regime. <i>Nature</i>	13 11.3 2.9	14 14
123 122 121 120	Advanced Theory and Simulations, 2019, 2, 1900028 Application of Li2S to compensate for loss of active lithium in a Sitt anode. Journal of Materials Chemistry A, 2018, 6, 6206-6211 Effect of Ni doping on the catalytic properties of nanostructured peony-like CeO2. Chinese Journal of Catalysis, 2013, 34, 305-312 Studies on Composite Cathode with Nanostructured Ce0.9Sm0.1O1.95 for Intermediate Temperature Solid Oxide Fuel Cells. Fuel Cells, 2009, 9, 650-656 Aqueous interphase formed by CO brings electrolytes back to salt-in-water regime. Nature Chemistry, 2021, 13, 1061-1069 Molten salt electrolyte based on alkali bis(fluorosulfonyl)imides for lithium batteries.	13 11.3 2.9	14 14 14

116	Fluorinated Poly-oxalate Electrolytes Stabilizing both Anode and Cathode Interfaces for All-Solid-State Li/NMC811 Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18335-18343	16.4	13
115	Criterion for Identifying Anodes for Practically Accessible High-Energy-Density Lithium-Ion Batteries. <i>ACS Energy Letters</i> ,3719-3724	20.1	13
114	Stabilizing the Oxygen Lattice and Reversible Oxygen Redox Chemistry through Structural Dimensionality in Lithium-Rich Cathode Oxides. <i>Angewandte Chemie</i> , 2019 , 131, 4367-4371	3.6	12
113	Delayed Phase Transition and Improved Cycling/Thermal Stability by Spinel LiNiMnO Modification for LiCoO Cathode at High Voltages. <i>ACS Applied Materials & Description</i> (12, 27339-27349)	9.5	12
112	5V-class sulfurized spinel cathode stable in sulfide all-solid-state batteries. <i>Nano Energy</i> , 2021 , 90, 1065	89 7.1	12
111	Cation-synergy stabilizing anion redox of Chevrel phase Mo6S8 in aluminum ion battery. <i>Energy Storage Materials</i> , 2021 , 37, 87-93	19.4	12
110	Hunting Sodium Dendrites in NASICON-Based Solid-State Electrolytes. <i>Energy Material Advances</i> , 2021 , 2021, 1-10	1	12
109	Enhancing cycle stability of Li metal anode by using polymer separators coated with Ti-containing solid electrolytes. <i>Rare Metals</i> , 2021 , 40, 1357-1365	5.5	12
108	Organic-inorganic hybrid based on co-assembly of polyoxometalate and dopamine for synthesis of nanostructured Ag. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 538, 513-518	3 ^{5.1}	12
107	Triple effects of Sn-substitution on Na0.67Ni0.33Mn0.67O2. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1250-1254	9.1	11
106	Doping the Li4Ti5O12 lattice with extra-large anions. <i>Materials Express</i> , 2015 , 5, 457-462	1.3	11
105	Anthraquinone derivative as high-performance anode material for sodium-ion batteries using ether-based electrolytes. <i>Green Energy and Environment</i> , 2018 , 3, 63-70	5.7	11
104	Anticorrosive flexible pyrolytic polyimide graphite film as a cathode current collector in lithium bis(trifluoromethane sulfonyl) imide electrolyte. <i>Electrochemistry Communications</i> , 2014 , 44, 70-73	5.1	11
103	Morphological and catalytic stability of mesoporous peony-like ceria. <i>Microporous and Mesoporous Materials</i> , 2011 , 142, 202-207	5.3	11
102	Synthesis and characterization of Cr8O21 as cathode material for rechargeable lithium batteries. <i>Solid State Ionics</i> , 2006 , 177, 2675-2678	3.3	11
101	Interplay between solid-electrolyte interphase and (in)active LixSi in lilicon anode. <i>Cell Reports Physical Science</i> , 2021 , 2, 100668	6.1	11
100	Joint Cationic and Anionic Redox Chemistry for Advanced Mg Batteries. <i>Nano Letters</i> , 2020 , 20, 6852-68	3 58 .5	11
99	Dense All-Electrochem-Active Electrodes for All-Solid-State Lithium Batteries. <i>Advanced Materials</i> , 2021 , 33, e2008723	24	11

98	Oxygen anionic redox activated high-energy cathodes: Status and prospects. <i>ETransportation</i> , 2021 , 8, 100118	12.7	11
97	Anisotropic electron-phonon coupling in the spinel oxide superconductor LiTi2O4. <i>Physical Review B</i> , 2017 , 95,	3.3	10
96	Improved electrochemical performance of Li(Ni0.6Co0.2Mn0.2)O2 at high charging cut-off voltage with Li1.4Al0.4Ti1.6(PO4)3 surface coating. <i>Chinese Physics B</i> , 2019 , 28, 068202	1.2	10
95	WO3 nanocrystal prepared by self-assembly of phosphotungstic acid and dopamine for photocatalytic degradation of Congo red. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 572, 147-151	5.1	10
94	Enhanced ionic conductivity in LAGP/LATP composite electrolyte. <i>Chinese Physics B</i> , 2018 , 27, 038201	1.2	10
93	Mixed-Phase TiO2 Nanomaterials as Efficient Photocatalysts. <i>Nanoscience and Technology</i> , 2016 , 423-40	60 .6	10
92	Electrochemical properties and interfacial reactions of LiNi0.5Mn1.5O4[hanorods. <i>Progress in Natural Science: Materials International</i> , 2012 , 22, 207-212	3.6	10
91	Erratum to Spinel lithium titanate (Li 4 Ti 5 O 12) as novel anode material for room-temperature sodium-ion battery". <i>Chinese Physics B</i> , 2012 , 21, 079901	1.2	10
90	M/Xn (MAl, Mg; XBr, I) batteries based on anion transport mechanism. <i>Electrochemistry Communications</i> , 2007 , 9, 1-5	5.1	10
89	Gaseous electrolyte additive BF3 for high-power Li/CFx primary batteries. <i>Energy Storage Materials</i> , 2021 , 38, 482-488	19.4	10
88	Structural and chemical evolution in layered oxide cathodes of lithium-ion batteries revealed by synchrotron techniques <i>National Science Review</i> , 2022 , 9, nwab146	10.8	10
87	Water-Stable Sulfide Solid Electrolyte Membranes Directly Applicable in All-Solid-State Batteries Enabled by Superhydrophobic Li + -Conducting Protection Layer. <i>Advanced Energy Materials</i> , 2022 , 12, 2102348	21.8	10
86	Instability of lithium bis(fluorosulfonyl)imide (LiFSI)potassium bis(fluorosulfonyl)imide (KFSI) system with LiCoO 2 at high voltage. <i>Chinese Physics B</i> , 2015 , 24, 078201	1.2	9
85	Wearable Bipolar Rechargeable Aluminum Battery 2020 , 2, 808-813		9
84	High-throughput computational discovery of K2CdO2 as an ion conductor for solid-state potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5157-5162	13	9
83	Spectroscopic studies on the mechanism of liquid formation and ionic conductivity in the LiCF3SO3/acetamide complex system. <i>Vibrational Spectroscopy</i> , 2005 , 37, 1-10	2.1	9
82	Organic-inorganic composite SEI for a stable Li metal anode by in-situ polymerization. <i>Nano Energy</i> , 2022 , 95, 106983	17.1	9
81	Side-by-side observation of the interfacial improvement of vertical graphene-coated silicon nanocone anodes for lithium-ion batteries by patterning technology. <i>Nanoscale</i> , 2017 , 9, 17241-17247	7.7	9

80	Enhancing the Thermal Stability of NASICON Solid Electrolyte Pellets against Metallic Lithium by Defect Modification. <i>ACS Applied Materials & Amp; Interfaces</i> , 2021 , 13, 18743-18749	9.5	9
79	The Role of Electron Localization in Covalency and Electrochemical Properties of Lithium-Ion Battery Cathode Materials. <i>Advanced Functional Materials</i> , 2021 , 31, 2001633	15.6	9
78	A Multilayer Ceramic Electrolyte for All-Solid-State Li Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 3825-3	8 3 . 4	9
77	Low-Density Fluorinated Silane Solvent Enhancing Deep Cycle Lithium-Sulfur Batteries' Lifetime. <i>Advanced Materials</i> , 2021 , 33, e2102034	24	9
76	High Rate Li-Ion Batteries with Cation-Disordered Cathodes. <i>Joule</i> , 2019 , 3, 1064-1079	27.8	8
75	A high-performance rechargeable Li D 2 battery with quasi-solid-state electrolyte. <i>Chinese Physics B</i> , 2018 , 27, 078201	1.2	8
74	A low cost composite quasi-solid electrolyte of LATP, TEGDME, and LiTFSI for rechargeable lithium batteries. <i>Chinese Physics B</i> , 2017 , 26, 068201	1.2	8
73	Conductivity and applications of Li-biphenyl-1,2-dimethoxyethane solution for lithium ion batteries. <i>Chinese Physics B</i> , 2017 , 26, 078201	1.2	8
72	Electrochemical impedance spectroscopic study of the rate-determining step of Li ion intercalation and deintercalation in LixNiO2 cathodes. <i>Ionics</i> , 1996 , 2, 259-265	2.7	8
71	pH-Responsive dopamine-based nanoparticles assembled via Schiff base bonds for synergistic anticancer therapy. <i>Chemical Communications</i> , 2020 , 56, 13347-13350	5.8	8
70	Si micropyramid patterned anodes that can suppress fracture and solid electrolyte interface formation during electrochemical cycling. <i>Journal of Power Sources</i> , 2016 , 329, 372-378	8.9	8
69	Electrochemical and optoelectric behavior of Al-doped ZnO films as transparent anode for Li-ion batteries. <i>Materials Today Communications</i> , 2019 , 19, 471-475	2.5	7
68	The effects of oxygen in spinel oxide LiTiO thin films. Scientific Reports, 2018, 8, 3995	4.9	7
67	Improved electrochemical performances of high voltage LiCoO2 with tungsten doping. <i>Chinese Physics B</i> , 2018 , 27, 088202	1.2	7
66	Temperature-dependent lithium storage behavior in tetragonal boron (B50) thin film anode for Li-ion batteries. <i>Electrochimica Acta</i> , 2013 , 87, 230-235	6.7	7
65	A preliminary study on a new LiBOB/acetamide solid phase transition electrolyte. <i>Solid State Ionics</i> , 2009 , 180, 688-692	3.3	7
64	Flowerlike microspheres catalyst NiO/La2O3 for ethanol-H2 production. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 11687-11692	6.7	7
63	Carbon-Coated Li[sub 1.2]Cr[sub 0.4]Ti[sub 0.4]O[sub 2] Cathode Material for Lithium-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A324		7

62	SnF2-Catalyzed Formation of Polymerized Dioxolane as Solid Electrolyte and its Thermal Decomposition Behavior. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	7
61	In-situ Polymerized Solid-state Electrolytes with Stable Cycling for Li/LiCoO2 Batteries. <i>Nano Energy</i> , 2021 , 91, 106679	17.1	7
60	Exploring reaction dynamics in lithium-sulfur batteries by time-resolved operando sulfur K-edge X-ray absorption spectroscopy. <i>Chemical Communications</i> , 2019 , 55, 4993-4996	5.8	6
59	Doping Strategy and Mechanism for Oxide and Sulfide Solid Electrolytes with High Ionic Conductivity. <i>Journal of Materials Chemistry A</i> ,	13	6
58	Simplifying and accelerating kinetics enabling fast-charge Al batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23834-23843	13	6
57	First-Principles Simulations for the Surface Evolution and Mn Dissolution in the Fully Delithiated Spinel LiMnO. <i>Langmuir</i> , 2021 , 37, 5252-5259	4	6
56	The Electrolysis of Anti-Perovskite Li OHCl for Prelithiation of High-Energy-Density Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13013-13020	16.4	6
55	Ultralight Electrolyte for High-Energy LithiumBulfur Pouch Cells. <i>Angewandte Chemie</i> , 2021 , 133, 1768	8-3.7690	66
54	Fast Li Plating Behavior Probed by X-ray Computed Tomography. <i>Nano Letters</i> , 2021 , 21, 5254-5261	11.5	6
53	Unusual Activation of Cation Disordering by Li/Fe Rearrangement in Triplite LiFeSO4F. <i>Advanced Energy Materials</i> , 2018 , 8, 1800298	21.8	6
52	A Better Choice to Achieve High Volumetric Energy Density: Anode-Free Lithium Metal Batteries <i>Advanced Materials</i> , 2022 , e2110323	24	6
51	A facile electrode preparation method for accurate electrochemical measurements of double-side-coated electrode from commercial Li-ion batteries. <i>Journal of Power Sources</i> , 2018 , 384, 172-177	8.9	5
50	Enhanced activity and stability of Cu-Mn and Cu-Ag catalysts supported on nanostructured mesoporous CeO2 for CO oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 1923-8	1.3	5
49	Topologically protected oxygen redox in a layered manganese oxide cathode for sustainable batteries. <i>Nature Sustainability</i> ,	22.1	5
48	High Current Density and Long Cycle Life Enabled by Sulfide Solid Electrolyte and Dendrite-Free Liquid Lithium Anode. <i>Advanced Functional Materials</i> ,2105776	15.6	5
47	Recent advances in dopamine-based materials constructed via one-pot co-assembly strategy. <i>Advances in Colloid and Interface Science</i> , 2021 , 295, 102489	14.3	5
46	TiO2 (B) anode for high-voltage aqueous Li-ion batteries. <i>Energy Storage Materials</i> , 2021 , 42, 438-444	19.4	5
45	Raising the intrinsic safety of layered oxide cathodes by surface re-lithiation with LLZTO garnet-type solid electrolytes <i>Advanced Materials</i> , 2022 , e2200655	24	5

44	Suppressing transition metal dissolution and deposition in lithium-ion batteries using oxide solid electrolyte coated polymer separator. <i>Chinese Physics B</i> , 2020 , 29, 088201	1.2	4
43	Anomalous lithium storage in a novel nanonet composed by SnO2 nanoparticles and poly(ethylene glycol) chains. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2845		4
42	Electrochemical and structural studies of the carbon-coated Li[CrxLi($1/3$ $\mathbb{Z}/3$)Ti($2/3$ $\mathbb{Z}x/3$)]O2 (x=0.3, 0.35, 0.4, 0.45). <i>Journal of Power Sources</i> , 2007 , 174, 867-871	8.9	4
41	High-rate cathode CrSSe based on anion reactions for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25739-25745	13	4
40	Amorphous Redox-Rich Polysulfides for Mg Cathodes. <i>Jacs Au</i> , 2021 , 1, 1266-1274		4
39	LixCu alloy nanowires nested in Ni foam for highly stable Li metal composite anode. <i>Science China Materials</i> ,1	7.1	4
38	Size effect of Si particles on the electrochemical performances of Si/C composite anodes. <i>Chinese Physics B</i> , 2018 , 27, 088201	1.2	4
37	Fluorinated Poly-oxalate Electrolytes Stabilizing both Anode and Cathode Interfaces for All-Solid-State Li/NMC811 Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 18483-18491	3.6	4
36	Influence of fluoroethylene carbonate on the solid electrolyte interphase of silicon anode for Li-ion batteries: A scanning force spectroscopy study. <i>Chinese Physics B</i> , 2020 , 29, 048203	1.2	3
35	Gas treatment protection of metallic lithium anode. <i>Chinese Physics B</i> , 2017 , 26, 088202	1.2	3
34	Delithiation-driven topotactic reaction endows superior cycling performances for high-energy-density FeS (1歌聞.14) cathodes. <i>Energy Storage Materials</i> , 2021 , 43, 579-584	19.4	3
33	New insight of stabilizing electrode/electrolyte interphase: Regulating the specific adsorption of the inner Helmholtz plane. <i>Journal of Energy Chemistry</i> , 2020 , 45, 126-127	12	3
32	Reaction Mechanisms of Ta-Substituted Cubic LiLaZrO with Solvents During Storage. <i>ACS Applied Materials & ACS Applied & ACS Appli</i>	9.5	3
31	The influence of electrolyte concentration and solvent on operational voltage of Li/CF primary batteries elucidated by Nernst Equation. <i>Journal of Power Sources</i> , 2022 , 527, 231193	8.9	3
30	Forty years of research on solid metallic lithium batteries: an interview with Liquan Chen. <i>National Science Review</i> , 2017 , 4, 106-110	10.8	2
29	Influence of carbon coating on the electrochemical performance of SiO@C/graphite composite anode materials. <i>Chinese Physics B</i> , 2019 , 28, 068201	1.2	2
28	New insights into the mechanism of cation migration induced by cation and dynamic coupling in superionic conductors. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 3093-3101	13	2
27	Solid state ionics Belected topics and new directions. <i>Progress in Materials Science</i> , 2022 , 126, 100921	42.2	2

26	A Novel Flowerlike Nanostructured CeO2for Sustainable Energies. <i>Journal of the Korean Ceramic Society</i> , 2010 , 47, 66-70	2.2	2
25	Local spring effect in titanium-based layered oxides. Energy and Environmental Science, 2020, 13, 4371-	4 3 804	2
24	Battery prelithiation enabled by lithium fixation on cathode. <i>Journal of Power Sources</i> , 2020 , 480, 2291	0% .9	2
23	Interface engineering renders high-rate high-capacity lithium storage in black phosphorous composite anodes with excellent cycling durability. <i>Science China Chemistry</i> , 2020 , 63, 1734-1736	7.9	2
22	The Electrolysis of Anti-Perovskite Li2OHCl for Prelithiation of High-Energy-Density Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 13123-13130	3.6	2
21	High-performance Li-air battery after limiting inter-electrode crosstalk. <i>Energy Storage Materials</i> , 2021 , 39, 225-231	19.4	2
20	Electronic Conductive Inorganic Cathodes Promising High-Energy Organic Batteries. <i>Advanced Materials</i> , 2021 , 33, e2005781	24	2
19	Anomalous Thermal Decomposition Behavior of Polycrystalline LiNi 0.8 Mn 0.1 Co 0.1 O 2 in PEO-Based Solid Polymer Electrolyte. <i>Advanced Functional Materials</i> ,2200096	15.6	2
18	Interfacial layer rich in organic fluoride enabling stable cycling of high-voltage PEO-based solid-state lithium batteries. <i>Electrochimica Acta</i> , 2021 , 139617	6.7	1
17	In Situ Visualization of Li-Whisker with Grating-Interferometry-Based Tricontrast X-ray Microtomograp	hy1786	5-1792
16	In Situ Visualization of Li-Whisker with Grating-Interferometry-Based Tricontrast X-ray Microtomograp Synergistic Effect of Temperature and Electrolyte Concentration on Solid-State Interphase for High-Performance Lithium Metal Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 21000		1
	Synergistic Effect of Temperature and Electrolyte Concentration on Solid-State Interphase for		
16	Synergistic Effect of Temperature and Electrolyte Concentration on Solid-State Interphase for High-Performance Lithium Metal Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 21000 Discovery and design of lithium battery materials via high-throughput modeling. <i>Chinese Physics B</i> ,	01 ¹ 0 ⁶	1
16 15	Synergistic Effect of Temperature and Electrolyte Concentration on Solid-State Interphase for High-Performance Lithium Metal Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 21000 Discovery and design of lithium battery materials via high-throughput modeling. <i>Chinese Physics B</i> , 2018 , 27, 128801 A high-performance MnO2 cathode doped with group VIII metal for aqueous Zn-ion batteries: In-situ	01 ¹ 0 ⁶	1
16 15 14	Synergistic Effect of Temperature and Electrolyte Concentration on Solid-State Interphase for High-Performance Lithium Metal Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 21000 Discovery and design of lithium battery materials via high-throughput modeling. <i>Chinese Physics B</i> , 2018 , 27, 128801 A high-performance MnO2 cathode doped with group VIII metal for aqueous Zn-ion batteries: In-situ X-Ray diffraction study on Zn2+ storage mechanism. <i>Journal of Power Sources</i> , 2022 , 527, 231198 Mechanical-electrochemical modeling of silicon-graphite composite anode for lithium-ion batteries.	1.2	1 1
16 15 14	Synergistic Effect of Temperature and Electrolyte Concentration on Solid-State Interphase for High-Performance Lithium Metal Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 21000 Discovery and design of lithium battery materials via high-throughput modeling. <i>Chinese Physics B</i> , 2018 , 27, 128801 A high-performance MnO2 cathode doped with group VIII metal for aqueous Zn-ion batteries: In-situ X-Ray diffraction study on Zn2+ storage mechanism. <i>Journal of Power Sources</i> , 2022 , 527, 231198 Mechanical-electrochemical modeling of silicon-graphite composite anode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2022 , 527, 231178	1.2 8.9	1 1 1
16 15 14 13	Synergistic Effect of Temperature and Electrolyte Concentration on Solid-State Interphase for High-Performance Lithium Metal Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 21000 Discovery and design of lithium battery materials via high-throughput modeling. <i>Chinese Physics B</i> , 2018 , 27, 128801 A high-performance MnO2 cathode doped with group VIII metal for aqueous Zn-ion batteries: In-situ X-Ray diffraction study on Zn2+ storage mechanism. <i>Journal of Power Sources</i> , 2022 , 527, 231198 Mechanical-electrochemical modeling of silicon-graphite composite anode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2022 , 527, 231178 Layered and Spinel Structural Cathodes. <i>Green Energy and Technology</i> , 2015 , 67-92 Artificial solid electrolyte interphase based on polyacrylonitrile for homogenous and dendrite-free	1.2 8.9 0.6	1 1 1 0

8	Dopamine-Based Materials: Recent Advances in Synthesis Methods and Applications. <i>Nanostructure Science and Technology</i> , 2022 , 133-164	0.9	О
7	A Reflection on Lithium-Ion Batteries from a Lithium-Resource Perspective. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100062	1.6	О
6	Controllable ionic self-assembl of polyoxometalate and melamine for synthesis of nanostructured Ag. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 623, 126732	5.1	O
5	Ionic Conductivity of LiSiON and the Effect of Amorphization/Heterovalent Doping on Li+Diffusion. <i>Inorganics</i> , 2022 , 10, 45	2.9	О
4	Tuning hybrid liquid/solid electrolytes by lowering Li salt concentration for lithium batteries. <i>Chinese Physics B</i> , 2018 , 27, 068201	1.2	
3	Synchrotron Radiation Nanoscale X-ray Imaging Technology And Scientific Big Data Mining Assist Energy Materials Research. <i>Microscopy and Microanalysis</i> , 2018 , 24, 542-543	0.5	
2	Exploring magnetron sputtering preparation of high-quality LiNi0.5Mn1.5O4 films by controlling the oxygen atmosphere at moderate temperature. <i>Thin Solid Films</i> , 2022 , 750, 139174	2.2	
1	Progress in lithium thioborate superionic conductors. <i>Journal of Materials Research</i> ,	2.5	