Chunsheng Wang

List of Publications by Citations

336 papers	40,785 citations	106 h-index	193 g-index
358 ext. papers	50,960 ext. citations	15.4 avg, IF	8 L-index

#	Paper	IF	Citations
336	Nano- and bulk-silicon-based insertion anodes for lithium-ion secondary cells. *Journal of Power Sources*, **2007**, 163, 1003-1039	8.9	2029
335	"Water-in-salt" electrolyte enables high-voltage aqueous lithium-ion chemistries. *Science*, **2015**, 350, 938-43	33.3	1717
334	Expanded graphite as superior anode for sodium-ion batteries. *Nature Communications*, **2014**, 5, 4033	17.4	1209
333	Highly reversible zinc metal anode for aqueous batteries. *Nature Materials*, **2018**, 17, 543-549	27	1128
332	Sulfur-impregnated disordered carbon nanotubes cathode for lithium-sulfur batteries. *Nano Letters*, **2011**, 11, 4288-94	11.5	1097
331	Zn/MnO Battery Chemistry With H and Zn Coinsertion. *Journal of the American Chemical Society*, **2017**, 139, 9775-9778	16.4	866
330	Electrochemical Performance of Porous Carbon/Tin Composite Anodes for Sodium-Ion and Lithium-Ion Batteries. *Advanced Energy Materials*, **2013**, 3, 128-133	21.8	701
329	High electronic conductivity as the origin of lithium dendrite formation within solid electrolytes. *Nature Energy*, **2019**, 4, 187-196	62.3	653
328	Anisotropic swelling and fracture of silicon nanowires during lithiation. *Nano Letters*, **2011**, 11, 3312-8	11.5	608
327	Non-flammable electrolyte enables Li-metal batteries with aggressive cathode chemistries. *Nature Nanotechnology*, **2018**, 13, 715-722	28.7	606
326	Electrospun Sb/C fibers for a stable and fast sodium-ion battery anode. *ACS Nano*, **2013**, 7, 6378-86	16.7	557
325	Electrochemical Stability of Li10GeP2S12 and Li7La3Zr2O12 Solid Electrolytes. *Advanced Energy Materials*, **2016**, 6, 1501590	21.8	533
324	Uniform nano-Sn/C composite anodes for lithium ion batteries. *Nano Letters*, **2013**, 13, 470-4	11.5	470
323	Highly Fluorinated Interphases Enable High-Voltage Li-Metal Batteries. *CheM*, **2018**, 4, 174-185	16.2	435
322	Advanced High-Voltage Aqueous Lithium-Ion Battery Enabled by "Water-in-Bisalt" Electrolyte. *Angewandte Chemie - International Edition*, **2016**, 55, 7136-41	16.4	435
321	Electrochemical Intercalation of Potassium into Graphite. *Advanced Functional Materials*, **2016**, 26, 8103-8110	15.6	426
320	Aqueous Li-ion battery enabled by halogen conversion-intercalation chemistry in graphite. *Nature*, **2019**, 569, 245-250	50.4	378

319	Comparison of electrochemical performances of olivine NaFePO4 in sodium-ion batteries and olivine LiFePO4 in lithium-ion batteries. *Nanoscale*, **2013**, 5, 780-7	7.7	350
318	An advanced MoS2 /carbon anode for high-performance sodium-ion batteries. *Small*, **2015**, 11, 473-81	11	348
317	Interdispersed Amorphous MnOx□Carbon Nanocomposites with Superior Electrochemical Performance as Lithium-Storage Material. *Advanced Functional Materials*, **2012**, 22, 803-811	15.6	338
316	Selenium@mesoporous carbon composite with superior lithium and sodium storage capacity. *ACS Nano*, **2013**, 7, 8003-10	16.7	335
315	□Water-in-Salt□Electrolyte Makes Aqueous Sodium-Ion Battery Safe, Green, and Long-Lasting. *Advanced Energy Materials*, **2017**, 7, 1701189	21.8	335
314	4.0□V Aqueous Li-Ion Batteries. *Joule*, **2017**, 1, 122-132	27.8	324
313	Red phosphorus-single-walled carbon nanotube composite as a superior anode for sodium ion batteries. *ACS Nano*, **2015**, 9, 3254-64	16.7	312
312	Cyclability study of silicon□carbon composite anodes for lithium-ion batteries using electrochemical impedance spectroscopy. *Electrochimica Acta*, **2011**, 56, 3981-3987	6.7	307
311	Fluorinated solid electrolyte interphase enables highly reversible solid-state Li metal battery. *Science Advances*, **2018**, 4, eaau9245	14.3	289
310	Interphase Engineering Enabled All-Ceramic Lithium Battery. *Joule*, **2018**, 2, 497-508	27.8	272
309	Designing Dendrite-Free Zinc Anodes for Advanced Aqueous Zinc Batteries. *Advanced Functional Materials*, **2020**, 30, 2001263	15.6	269
308	Extremely stable antimony□carbon composite anodes for potassium-ion batteries. *Energy and Environmental Science*, **2019**, 12, 615-623	35.4	268
307	New Concepts in Electrolytes. *Chemical Reviews*, **2020**, 120, 6783-6819	68.1	267
306	All-temperature batteries enabled by fluorinated electrolytes with non-polar solvents. *Nature Energy*, **2019**, 4, 882-890	62.3	267
305	A critical review of cathodes for rechargeable Mg batteries. *Chemical Society Reviews*, **2018**, 47, 8804-8841	38.5	261
304	Tin-coated viral nanoforests as sodium-ion battery anodes. *ACS Nano*, **2013**, 7, 3627-34	16.7	259
303	Realizing high zinc reversibility in rechargeable batteries. *Nature Energy*, **2020**, 5, 743-749	62.3	259
302	High-Performance All-Solid-State Lithium-Sulfur Battery Enabled by a Mixed-Conductive Li2S Nanocomposite. *Nano Letters*, **2016**, 16, 4521-7	11.5	258

301	Electrolyte design for LiF-rich solid–electrolyte interfaces to enable high-performance microsized alloy anodes for batteries. *Nature Energy*, **2020**, 5, 386-397	62.3	250
300	High-Energy All-Solid-State Lithium Batteries with Ultralong Cycle Life. *Nano Letters*, **2016**, 16, 7148-7154	11.5	243
299	Pipe-Wire TiO-Sn@Carbon Nanofibers Paper Anodes for Lithium and Sodium Ion Batteries. *Nano Letters*, **2017**, 17, 3830-3836	11.5	242
298	High-Performance All-Solid-State Lithium–Sulfur Batteries Enabled by Amorphous Sulfur-Coated Reduced Graphene Oxide Cathodes. *Advanced Energy Materials*, **2017**, 7, 1602923	21.8	241
297	Galvanostatic Intermittent Titration Technique for Phase-Transformation Electrodes. *Journal of Physical Chemistry C*, **2010**, 114, 2830-2841	3.8	241
296	Flexible ReS2 nanosheets/N-doped carbon nanofibers-based paper as a universal anode for alkali (Li, Na, K) ion battery. *Nano Energy*, **2018**, 45, 346-352	17.1	234
295	Confined Sulfur in Microporous Carbon Renders Superior Cycling Stability in Li/S Batteries. *Advanced Functional Materials*, **2015**, 25, 4312-4320	15.6	232
294	A Battery Made from a Single Material. *Advanced Materials*, **2015**, 27, 3473-83	24	231
293	In situ transmission electron microscopy study of electrochemical sodiation and potassiation of carbon nanofibers. *Nano Letters*, **2014**, 14, 3445-52	11.5	230
292	How Solid-Electrolyte Interphase Forms in Aqueous Electrolytes. *Journal of the American Chemical Society*, **2017**, 139, 18670-18680	16.4	227
291	Solvation Structure Design for Aqueous Zn Metal Batteries. *Journal of the American Chemical Society*, **2020**, 142, 21404-21409	16.4	215
290	3D Si/C Fiber Paper Electrodes Fabricated Using a Combined Electrospray/Electrospinning Technique for Li-Ion Batteries. *Advanced Energy Materials*, **2015**, 5, 1400753	21.8	213
289	Virus-enabled silicon anode for lithium-ion batteries. *ACS Nano*, **2010**, 4, 5366-72	16.7	212
288	An artificial interphase enables reversible magnesium chemistry in carbonate electrolytes. *Nature Chemistry*, **2018**, 10, 532-539	17.6	209
287	Aqueous Mg-Ion Battery Based on Polyimide Anode and Prussian Blue Cathode. *ACS Energy Letters*, **2017**, 2, 1115-1121	20.1	207
286	Micro-sized nano-porous Si/C anodes for lithium ion batteries. *Nano Energy*, **2015**, 11, 490-499	17.1	201
285	Hybrid Aqueous/Non-aqueous Electrolyte for Safe and High-Energy Li-Ion Batteries. *Joule*, **2018**, 2, 927-937	27.8	194
284	Liquid Structure with Nano-Heterogeneity Promotes Cationic Transport in Concentrated Electrolytes. *ACS Nano*, **2017**, 11, 10462-10471	16.7	193

283	Suppressing Li Dendrite Formation in Li2S-P2S5 Solid Electrolyte by LiI Incorporation. *Advanced Energy Materials*, **2018**, 8, 1703644	21.8	190
282	Progress in Aqueous Rechargeable Sodium-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1703008	21.8	188
281	In situ formed lithium sulfide/microporous carbon cathodes for lithium-ion batteries. *ACS Nano*, **2013**, 7, 10995-1003	16.7	187
280	Porous amorphous FePO4 nanoparticles connected by single-wall carbon nanotubes for sodium ion battery cathodes. *Nano Letters*, **2012**, 12, 5664-8	11.5	186
279	Enhancing the reversibility of Mg/S battery chemistry through Li(+) mediation. *Journal of the American Chemical Society*, **2015**, 137, 12388-93	16.4	185
278	A rechargeable zinc-air battery based on zinc peroxide chemistry. *Science*, **2021**, 371, 46-51	33.3	185
277	Copper-Stabilized Sulfur-Microporous Carbon Cathodes for Li□ Batteries. *Advanced Functional Materials*, **2014**, 24, 4156-4163	15.6	183
276	A rechargeable aqueous Zn2+-battery with high power density and a long cycle-life. *Energy and Environmental Science*, **2018**, 11, 3168-3175	35.4	182
275	Identifying the components of the solid-electrolyte interphase in Li-ion batteries. *Nature Chemistry*, **2019**, 11, 789-796	17.6	181
274	Ionic/Electronic Conducting Characteristics of LiFePO[sub 4] Cathode Materials. *Electrochemical and Solid-State Letters*, **2007**, 10, A65		181
273	High power rechargeable magnesium/iodine battery chemistry. *Nature Communications*, **2017**, 8, 14083	17.4	177
272	Superior Stable Self-Healing SnP3 Anode for Sodium-Ion Batteries. *Advanced Energy Materials*, **2015**, 5, 1500174	21.8	175
271	Electrospun FeS2@Carbon Fiber Electrode as a High Energy Density Cathode for Rechargeable Lithium Batteries. *ACS Nano*, **2016**, 10, 1529-38	16.7	171
270	Reactivation of dissolved polysulfides in Li□ batteries based on atomic layer deposition of Al2O3 in nanoporous carbon cloth. *Nano Energy*, **2013**, 2, 1197-1206	17.1	169
269	High-Voltage Aqueous Magnesium Ion Batteries. *ACS Central Science*, **2017**, 3, 1121-1128	16.8	168
268	A Rechargeable Al/S Battery with an Ionic-Liquid Electrolyte. *Angewandte Chemie - International Edition*, **2016**, 55, 9898-901	16.4	168
267	Self-assembled organic nanowires for high power density lithium ion batteries. *Nano Letters*, **2014**, 14, 1596-602	11.5	163
266	Solid-State Fabrication of SnS2/C Nanospheres for High-Performance Sodium Ion Battery Anode. *ACS Applied Materials & Interfaces*, **2015**, 7, 11476-81	9.5	161

265	Graphene-bonded and -encapsulated si nanoparticles for lithium ion battery anodes. *Small*, **2013**, 9, 2810-6	11	159
264	Intercalation of Bi nanoparticles into graphite results in an ultra-fast and ultra-stable anode material for sodium-ion batteries. *Energy and Environmental Science*, **2018**, 11, 1218-1225	35.4	154
263	Uncharted Waters: Super-Concentrated Electrolytes. *Joule*, **2020**, 4, 69-100	27.8	153
262	Electrochemical performance of lithium ion battery, nano-silicon-based, disordered carbon composite anodes with different microstructures. *Journal of Power Sources*, **2004**, 125, 206-213	8.9	151
261	Sponge-like porous carbon/tin composite anode materials for lithium ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 9562		150
260	Carbonized Polyacrylonitrile-Stabilized SeSx Cathodes for Long Cycle Life and High Power Density Lithium Ion Batteries. *Advanced Functional Materials*, **2014**, 24, 4082-4089	15.6	149
259	A polymer scaffold binder structure for high capacity silicon anode of lithium-ion battery. *Chemical Communications*, **2010**, 46, 1428-30	5.8	146
258	High-Fluorinated Electrolytes for Li–S Batteries. *Advanced Energy Materials*, **2019**, 9, 1803774	21.8	144
257	Stabilizing high voltage LiCoO2 cathode in aqueous electrolyte with interphase-forming additive. *Energy and Environmental Science*, **2016**, 9, 3666-3673	35.4	140
256	"Water-in-Salt" electrolytes enable green and safe Li-ion batteries for large scale electric energy storage applications. *Journal of Materials Chemistry A*, **2016**, 4, 6639-6644	13	140
255	Electrochemical impedance study of initial lithium ion intercalation into graphite powders. *Electrochimica Acta*, **2001**, 46, 1793-1813	6.7	139
254	Mn3O4 hollow spheres for lithium-ion batteries with high rate and capacity. *Journal of Materials Chemistry A*, **2014**, 2, 4627-4632	13	136
253	Self-Templated Formation of P2-type KCoO Microspheres for High Reversible Potassium-Ion Batteries. *Nano Letters*, **2018**, 18, 1522-1529	11.5	133
252	Fluorinated interphase enables reversible aqueous zinc battery chemistries. *Nature Nanotechnology* , **2021**, 16, 902-910	28.7	133
251	Interface engineering of sulfide electrolytes for all-solid-state lithium batteries. *Nano Energy*, **2018**, 53, 958-966	17.1	133
250	Hybrid Mg2+/Li+ Battery with Long Cycle Life and High Rate Capability. *Advanced Energy Materials*, **2015**, 5, 1401507	21.8	128
249	Carbon scaffold structured silicon anodes for lithium-ion batteries. *Journal of Materials Chemistry*, **2010**, 20, 5035		126
248	Block Copolymer Solid Battery Electrolyte with High Li-Ion Transference Number. *Journal of the Electrochemical Society*, **2010**, 157, A846	3.9	124

247	Flexible Aqueous Li-Ion Battery with High Energy and Power Densities. *Advanced Materials*, **2017**, 29, 1701972	24	121
246	Hydrophobic Organic-Electrolyte-Protected Zinc Anodes for Aqueous Zinc Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 19292-19296	16.4	120
245	Charge□discharge stability of graphite anodes for lithium-ion batteries. *Journal of Electroanalytical Chemistry*, **2001**, 497, 33-46	4.1	119
244	A Patterned 3D Silicon Anode Fabricated by Electrodeposition on a Virus-Structured Current Collector. *Advanced Functional Materials*, **2011**, 21, 380-387	15.6	117
243	Superior electrochemical performance and structure evolution of mesoporous Fe2O3 anodes for lithium-ion batteries. *Nano Energy*, **2014**, 3, 26-35	17.1	116
242	Carbon coated hollow Na2FePO4F spheres for Na-ion battery cathodes. *Journal of Power Sources*, **2013**, 223, 62-67	8.9	115
241	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. *Angewandte Chemie - International Edition*, **2018**, 57, 7146-7150	16.4	114
240	Layered P2-Type K0.65Fe0.5Mn0.5O2 Microspheres as Superior Cathode for High-Energy Potassium-Ion Batteries. *Advanced Functional Materials*, **2018**, 28, 1800219	15.6	114
239	Kinetic characteristics of mixed conductive electrodes for lithium ion batteries. *Journal of Power Sources*, **2007**, 164, 849-856	8.9	113
238	In Situ Sulfur Reduction and Intercalation of Graphite Oxides for Li-S Battery Cathodes. *Advanced Energy Materials*, **2014**, 4, 1400482	21.8	110
237	Graphene oxide wrapped croconic acid disodium salt for sodium ion battery electrodes. *Journal of Power Sources*, **2014**, 250, 372-378	8.9	109
236	In situ atomic-scale imaging of phase boundary migration in FePO(4) microparticles during electrochemical lithiation. *Advanced Materials*, **2013**, 25, 5461-6	24	108
235	Ether-based electrolyte enabled Na/FeS2 rechargeable batteries. *Electrochemistry Communications*, **2015**, 54, 18-22	5.1	107
234	A 63 m Superconcentrated Aqueous Electrolyte for High-Energy Li-Ion Batteries. *ACS Energy Letters* , **2020**, 5, 968-974	20.1	106
233	Reversible Redox Chemistry of Azo Compounds for Sodium-Ion Batteries. *Angewandte Chemie - International Edition*, **2018**, 57, 2879-2883	16.4	106
232	Hierarchical three-dimensional microbattery electrodes combining bottom-up self-assembly and top-down micromachining. *ACS Nano*, **2012**, 6, 6422-32	16.7	106
231	Electrochemical study on nano-Sn, Li4.4Sn and AlSi0.1 powders used as secondary lithium battery anodes. *Journal of Power Sources*, **2001**, 93, 174-185	8.9	106
230	Lithium-assisted electrochemical welding in silicon nanowire battery electrodes. *Nano Letters*, **2012** , 12, 1392-7	11.5	105

229	Lithium/Sulfide All-Solid-State Batteries using Sulfide Electrolytes. *Advanced Materials*, **2021**, 33, e2000751	21	105
228	Superior reversible tin phosphide-carbon spheres for sodium ion battery anode. *Nano Energy*, **2017**, 38, 350-357	17.1	104
227	An Inorganic-Rich Solid Electrolyte Interphase for Advanced Lithium-Metal Batteries in Carbonate Electrolytes. *Angewandte Chemie - International Edition*, **2021**, 60, 3661-3671	16.4	103
226	Countersolvent Electrolytes for Lithium-Metal Batteries. *Advanced Energy Materials*, **2020**, 10, 1903568	21.8	102
225	Reversible S /MgS Redox Chemistry in a MgTFSI /MgCl /DME Electrolyte for Rechargeable Mg/S Batteries. *Angewandte Chemie - International Edition*, **2017**, 56, 13526-13530	16.4	102
224	Unique aqueous Li-ion/sulfur chemistry with high energy density and reversibility. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 6197-6202	11.5	100
223	Quaternized poly(methyl methacrylate-co-butyl acrylate-co-vinylbenzyl chloride) membrane for alkaline fuel cells. *Journal of Power Sources*, **2010**, 195, 3765-3771	8.9	100
222	In situ formed carbon bonded and encapsulated selenium composites for Li–Se and Na–Se batteries. *Journal of Materials Chemistry A*, **2015**, 3, 555-561	13	98
221	Azo compounds as a family of organic electrode materials for alkali-ion batteries. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 2004-2009	11.5	98
220	An Organic Anode for High Temperature Potassium-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1802986	21.8	98
219	High-Performance All-Inorganic Solid-State Sodium-Sulfur Battery. *ACS Nano*, **2017**, 11, 4885-4891	16.7	96
218	High-Energy Li Metal Battery with Lithiated Host. *Joule*, **2019**, 3, 732-744	27.8	95
217	Scalable synthesis of Na3V2(PO4)3/C porous hollow spheres as a cathode for Na-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 10378-10385	13	93
216	High Interfacial-Energy Interphase Promoting Safe Lithium Metal Batteries. *Journal of the American Chemical Society*, **2020**, 142, 2438-2447	16.4	93
215	Hollow porous nanoparticles with Pt skin on a Ag–Pt alloy structure as a highly active electrocatalyst for the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2016**, 4, 8803-8811	13	93
214	Recent Progress on Spray Pyrolysis for High Performance Electrode Materials in Lithium and Sodium Rechargeable Batteries. *Advanced Energy Materials*, **2017**, 7, 1601578	21.8	92
213	Lithium–tellurium batteries based on tellurium/porous carbon composite. *Journal of Materials Chemistry A*, **2014**, 2, 12201-12207	13	92
212	Water-Activated VOPO for Magnesium Ion Batteries. *Nano Letters*, **2018**, 18, 6441-6448	11.5	91

211	Thermodynamics and Kinetics of Sulfur Cathode during Discharge in MgTFSI -DME Electrolyte. *Advanced Materials*, **2018**, 30, 1704313	24	90
210	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 22194-22201	16.4	88
209	A Highly Reversible, Dendrite-Free Lithium Metal Anode Enabled by a Lithium-Fluoride-Enriched Interphase. *Advanced Materials*, **2020**, 32, e1906427	24	87
208	Achieving High Energy Density through Increasing the Output Voltage: A Highly Reversible 5.3 V Battery. *CheM*, **2019**, 5, 896-912	16.2	86
207	Cathode-Supported All-Solid-State Lithium–Sulfur Batteries with High Cell-Level Energy Density. *ACS Energy Letters*, **2019**, 4, 1073-1079	20.1	86
206	High energy-density and reversibility of iron fluoride cathode enabled via an intercalation-extrusion reaction. *Nature Communications*, **2018**, 9, 2324	17.4	86
205	How Water Accelerates Bivalent Ion Diffusion at the Electrolyte/Electrode Interface. *Angewandte Chemie - International Edition*, **2018**, 57, 11978-11981	16.4	84
204	Manipulating electrolyte and solid electrolyte interphase to enable safe and efficient Li-S batteries. *Nano Energy*, **2018**, 50, 431-440	17.1	84
203	PEDOT Encapsulated FeOF Nanorod Cathodes for High Energy Lithium-Ion Batteries. *Nano Letters*, **2015**, 15, 7650-6	11.5	82
202	Azo Compounds Derived from Electrochemical Reduction of Nitro Compounds for High Performance Li-Ion Batteries. *Advanced Materials*, **2018**, 30, e1706498	24	82
201	A Pyrazine-Based Polymer for Fast-Charge Batteries. *Angewandte Chemie - International Edition*, **2019**, 58, 17820-17826	16.4	82
200	Solid-State Electrolyte Design for Lithium Dendrite Suppression. *Advanced Materials*, **2020**, 32, e2002741	24	82
199	Tuning the Anode-Electrolyte Interface Chemistry for Garnet-Based Solid-State Li Metal Batteries. *Advanced Materials*, **2020**, 32, e2000030	24	81
198	A Discharge Model for Phase Transformation Electrodes: Formulation, Experimental Validation, and Analysis. *Journal of Physical Chemistry C*, **2007**, 111, 16656-16663	3.8	81
197	Antimony Nanorod Encapsulated in Cross-Linked Carbon for High-Performance Sodium Ion Battery Anodes. *Nano Letters*, **2019**, 19, 538-544	11.5	81
196	Spinel LiNi0.5Mn1.5O4 Cathode for High-Energy Aqueous Lithium-Ion Batteries. *Advanced Energy Materials*, **2017**, 7, 1600922	21.8	80
195	Advanced High-Voltage Aqueous Lithium-Ion Battery Enabled by "Water-in-Bisalt" Electrolyte. *Angewandte Chemie*, **2016**, 128, 7252-7257	3.6	80
194	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. *ACS Energy Letters*, 1399-1404	20.1	78

193	Tailoring Surface Acidity of Metal Oxide for Better Polysulfide Entrapment in Li-S Batteries. *Advanced Functional Materials*, **2016**, 26, 7164-7169	15.6	78
192	Perspective—Fluorinating Interphases. *Journal of the Electrochemical Society*, **2019**, 166, A5184-A5186	3.9	78
191	Stabilizing high sulfur loading Li–S batteries by chemisorption of polysulfide on three-dimensional current collector. *Nano Energy*, **2016**, 30, 700-708	17.1	77
190	Novel CV for Phase Transformation Electrodes. *Journal of Physical Chemistry C*, **2011**, 115, 823-832	3.8	77
189	High-voltage liquid electrolytes for Li batteries: progress and perspectives. *Chemical Society Reviews*, **2021**, 50, 10486-10566	58.5	77
188	Building Self-Healing Alloy Architecture for Stable Sodium-Ion Battery Anodes: A Case Study of Tin Anode Materials. *ACS Applied Materials & Interfaces*, **2016**, 8, 7147-55	9.5	76
187	Designing In-Situ-Formed Interphases Enables Highly Reversible Cobalt-Free LiNiO2 Cathode for Li-ion and Li-metal Batteries. *Joule*, **2019**, 3, 2550-2564	27.8	76
186	Bi Nanoparticles Anchored in N-Doped Porous Carbon as Anode of High Energy Density Lithium Ion Battery. *Nano-Micro Letters*, **2018**, 10, 56	19.5	75
185	A porous silicon–carbon anode with high overall capacity on carbon fiber current collector. *Electrochemistry Communications*, **2010**, 12, 981-984	5.1	74
184	Roll-to-roll fabrication of organic nanorod electrodes for sodium ion batteries. *Nano Energy*, **2015**, 13, 537-545	17.1	73
183	Scalable Synthesis of Defect Abundant Si Nanorods for High-Performance Li-Ion Battery Anodes. *ACS Nano*, **2015**, 9, 6576-86	16.7	73
182	Structure and Interface Design Enable Stable Li-Rich Cathode. *Journal of the American Chemical Society*, **2020**, 142, 8918-8927	16.4	72
181	High-Performance All-Solid-State Na-S Battery Enabled by Casting-Annealing Technology. *ACS Nano* , **2018**, 12, 3360-3368	16.7	71
180	Electrochemical Techniques for Intercalation Electrode Materials in Rechargeable Batteries. *Accounts of Chemical Research*, **2017**, 50, 1022-1031	24.3	70
179	"Water-in-Salt" electrolyte enabled LiMn2O4/TiS2 Lithium-ion batteries. *Electrochemistry Communications*, **2017**, 82, 71-74	5.1	70
178	Low-Temperature Characterization of Lithium-Ion Carbon Anodes via Microperturbation Measurement. *Journal of the Electrochemical Society*, **2002**, 149, A754	3.9	70
177	Revitalising sodium–sulfur batteries for non-high-temperature operation: a crucial review. *Energy and Environmental Science*, **2020**, 13, 3848-3879	35.4	70
176	Solid-State Electrolyte Anchored with a Carboxylated Azo Compound for All-Solid-State Lithium Batteries. *Angewandte Chemie - International Edition*, **2018**, 57, 8567-8571	16.4	70

175	Insight into the Capacity Fading Mechanism of Amorphous Se2S5 Confined in Micro/Mesoporous Carbon Matrix in Ether-Based Electrolytes. *Nano Letters*, **2016**, 16, 2663-73	11.5	69
174	Mesoporous carbon/silicon composite anodes with enhanced performance for lithium-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 9751-9757	13	68
173	Discharge Model for LiFePO[sub 4] Accounting for the Solid Solution Range. *Journal of the Electrochemical Society*, **2008**, 155, A866	3.9	68
172	Kinetic behavior of LiFeMgPO4 cathode material for Li-ion batteries. *Journal of Power Sources*, **2006**, 162, 1289-1296	8.9	68
171	Structure-Property Relationships of Organic Electrolytes and Their Effects on Li/S Battery Performance. *Advanced Materials*, **2017**, 29, 1700449	24	67
170	Carbon cage encapsulating nano-cluster Li2S by ionic liquid polymerization and pyrolysis for high performance Li□S batteries. *Nano Energy*, **2015**, 13, 467-473	17.1	67
169	Pomegranate-Structured Conversion-Reaction Cathode with a Built-in Li Source for High-Energy Li-Ion Batteries. *ACS Nano*, **2016**, 10, 5567-77	16.7	67
168	Activation of Oxygen-Stabilized Sulfur for Li and Na Batteries. *Advanced Functional Materials*, **2016**, 26, 745-752	15.6	66
167	P2-type transition metal oxides for high performance Na-ion battery cathodes. *Journal of Materials Chemistry A*, **2017**, 5, 18214-18220	13	66
166	Design of a Solid Electrolyte Interphase for Aqueous Zn Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 13035-13041	16.4	66
165	Reducing Mg Anode Overpotential via Ion Conductive Surface Layer Formation by Iodine Additive. *Advanced Energy Materials*, **2018**, 8, 1701728	21.8	65
164	Electrolyte design for Li metal-free Li batteries. *Materials Today*, **2020**, 39, 118-126	21.8	64
163	Existence of Solid Electrolyte Interphase in Mg Batteries: Mg/S Chemistry as an Example. *ACS Applied Materials & Interfaces*, **2018**, 10, 14767-14776	9.5	64
162	Reverse Microemulsion Synthesis of Sulfur/Graphene Composite for Lithium/Sulfur Batteries. *ACS Nano*, **2017**, 11, 9048-9056	16.7	64
161	Architecturing hierarchical function layers on self-assembled viral templates as 3D nano-array electrodes for integrated Li-ion microbatteries. *Nano Letters*, **2013**, 13, 293-300	11.5	64
160	Identification of LiH and nanocrystalline LiF in the solid-electrolyte interphase of lithium metal anodes. *Nature Nanotechnology*, **2021**, 16, 549-554	28.7	64
159	Self-Healing Chemistry between Organic Material and Binder for Stable Sodium-Ion Batteries. *CheM*, **2017**, 3, 1050-1062	16.2	63
158	Effect of Co content on the kinetic properties of the MlNi4.3□CoXAl0.7 hydride electrodes. *Electrochimica Acta*, **1999**, 44, 3977-3987	6.7	63

157	Electrolytes and Interphases in Potassium Ion Batteries. *Advanced Materials*, **2021**, 33, e2003741	24	63
156	In situ investigation of electrochemical lithium intercalation into graphite powder. *Journal of Electroanalytical Chemistry*, **2000**, 489, 55-67	4.1	62
155	A tin-plated copper substrate for efficient cycling of lithium metal in an anode-free rechargeable lithium battery. *Electrochimica Acta*, **2017**, 258, 1201-1207	6.7	62
154	Nano-structured carbon-coated CuO hollow spheres as stable and high rate anodes for lithium-ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 15486	13	60
153	Strain accommodation and potential hysteresis of LiFePO4 cathodes during lithium ion insertion/extraction. *Journal of Power Sources*, **2011**, 196, 1442-1448	8.9	59
152	Kinetic Behavior of Metal Hydride Electrode by Means of AC Impedance. *Journal of the Electrochemical Society*, **1998**, 145, 1801-1812	3.9	59
151	Atomic-Layer-Deposition Functionalized Carbonized Mesoporous Wood Fiber for High Sulfur Loading Lithium Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 14801-14807	9.5	57
150	Tuning Anionic Chemistry To Improve Kinetics of Mg Intercalation. *Chemistry of Materials*, **2019**, 31, 3183-3191	9.6	57
149	A High-Performance LiBH Electrolyte for All-Solid-State Li Batteries. *Advanced Functional Materials*, **2019**, 29, 1809219	15.6	56
148	In situ synthesis of SnO2 nanoparticles encapsulated in micro/mesoporous carbon foam as a high-performance anode material for lithium ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 18367-18374	13	56
147	Self-assembled Ni/TiO2 nanocomposite anodes synthesized via electroless plating and atomic layer deposition on biological scaffolds. *Chemical Communications*, **2010**, 46, 7349-51	5.8	56
146	Realizing Complete Solid-Solution Reaction in High Sodium Content P2-Type Cathode for High-Performance Sodium-Ion Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 14511-14516	16.4	55
145	Understanding and Calibration of Charge Storage Mechanism in Cyclic Voltammetry Curves. *Angewandte Chemie - International Edition*, **2021**, 60, 21310-21318	16.4	55
144	Local electronic structure variation resulting in Li 'filament' formation within solid electrolytes. *Nature Materials*, **2021**, 20, 1485-1490	27	54
143	Ultrastable All-Solid-State Sodium Rechargeable Batteries. *ACS Energy Letters*, **2020**, 5, 2835-2841	20.1	53
142	Lithium Metal Batteries Enabled by Synergetic Additives in Commercial Carbonate Electrolytes. *ACS Energy Letters*, **2021**, 6, 1839-1848	20.1	53
141	In situ lithiated FeF3/C nanocomposite as high energy conversion-reaction cathode for lithium-ion batteries. *Journal of Power Sources*, **2016**, 307, 435-442	8.9	52
140	A Rechargeable Al/S Battery with an Ionic-Liquid Electrolyte. *Angewandte Chemie*, **2016**, 128, 10052-10055	3.6	50

139	Hoop-strong nanotubes for battery electrodes. *ACS Nano*, **2013**, 7, 8295-302	16.7	50
138	Characterization and Performance of LiFePO[sub 4] Thin-Film Cathodes Prepared with Radio-Frequency Magnetron-Sputter Deposition. *Journal of the Electrochemical Society*, **2007**, 154, A805	3.9	50
137	Solvent-Free Composite PEO-Ceramic Fiber/Mat Electrolytes for Lithium Secondary Cells. *Journal of the Electrochemical Society*, **2005**, 152, A205	3.9	50
136	A chemically stabilized sulfur cathode for lean electrolyte lithium sulfur batteries. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 14712-14720	11.5	49
135	Interface engineering on cathode side for solid garnet batteries. *Chemical Engineering Journal*, **2020**, 387, 124089	14.7	49
134	Fuel cell durability enhancement by crosslinking alkaline anion exchange membrane electrolyte. *Electrochemistry Communications*, **2012**, 16, 65-68	5.1	49
133	Copper-coordinated cellulose ion conductors for solid-state batteries. *Nature*, **2021**, 598, 590-596	50.4	49
132	An Oxide Ion and Proton Co-Ion Conducting Sn[sub 0.9]In[sub 0.1]P[sub 2]O[sub 7] Electrolyte for Intermediate-Temperature Fuel Cells. *Journal of the Electrochemical Society*, **2008**, 155, B1264	3.9	48
131	Mechanism and Kinetics of HER and OER on NiFe LDH Films in an Alkaline Electrolyte. *Journal of the Electrochemical Society*, **2018**, 165, J3395-J3404	3.9	48
130	Architectural design and fabrication approaches for solid-state batteries. *MRS Bulletin*, **2018**, 43, 775-781	3.2	48
129	Self-Regulated Phenomenon of Inorganic Artificial Solid Electrolyte Interphase for Lithium Metal Batteries. *Nano Letters*, **2020**, 20, 4029-4037	11.5	47
128	Critical Factors Dictating Reversibility of the Zinc Metal Anode. *Energy and Environmental Materials*, **2020**, 3, 516-521	13	46
127	Studies on the electrochemical properties of MlNi4.3CoxAl0.7 hydride alloy electrodes. *Journal of Alloys and Compounds*, **1999**, 293-295, 648-652	5.7	46
126	In situ healing of dendrites in a potassium metal battery. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 5588-5594	11.5	45
125	A lithiation/delithiation mechanism of monodispersed MSn5 (M = Fe, Co and FeCo) nanospheres. *Journal of Materials Chemistry A*, **2015**, 3, 7170-7178	13	44
124	High-Energy-Density Rechargeable Mg Battery Enabled by a Displacement Reaction. *Nano Letters*, **2019**, 19, 6665-6672	11.5	44
123	Both cationic and anionic redox chemistry in a P2-type sodium layered oxide. *Nano Energy*, **2020**, 69, 104474	17.1	44
122	High rate performance of virus enabled 3D n-type Si anodes for lithium-ion batteries. *Electrochimica Acta*, **2011**, 56, 5210-5213	6.7	43

121	Solvation sheath reorganization enables divalent metal batteries with fast interfacial charge transfer kinetics. *Science*, **2021**, 374, 172-178	33.3	43
120	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. *Angewandte Chemie*, **2018**, 130, 7264-7268	3.6	42
119	Synergistic gelation of silica nanoparticles and a sorbitol-based molecular gelator to yield highly-conductive free-standing gel electrolytes. *ACS Applied Materials & Interfaces*, **2013**, 5, 262-7	9.5	42
118	Irreversible capacities of graphite anode for lithium-ion batteries. *Journal of Electroanalytical Chemistry*, **2002**, 519, 9-17	4.1	42
117	Solid-State Lithium/Selenium–Sulfur Chemistry Enabled via a Robust Solid-Electrolyte Interphase. *Advanced Energy Materials*, **2019**, 9, 1802235	21.8	42
116	Reversible S0/MgSx Redox Chemistry in a MgTFSI2/MgCl2/DME Electrolyte for Rechargeable Mg/S Batteries. *Angewandte Chemie*, **2017**, 129, 13711-13715	3.6	41
115	Dual-template synthesis of ordered mesoporous carbon/Fe2O3 nanowires: high porosity and structural stability for supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 21501-21510	13	38
114	Enabling safe aqueous lithium ion open batteries by suppressing oxygen reduction reaction. *Nature Communications*, **2020**, 11, 2638	17.4	37
113	A Covalent Organic Framework for Fast-Charge and Durable Rechargeable Mg Storage. *Nano Letters*, **2020**, 20, 3880-3888	11.5	37
112	Critical review on low-temperature Li-ion/metal batteries. *Advanced Materials*, **2021**, e2107899	24	37
111	Highly Reversible Aqueous Zinc Batteries enabled by Zincophilic-Zincophobic Interfacial Layers and Interrupted Hydrogen-Bond Electrolytes. *Angewandte Chemie - International Edition*, **2021**, 60, 18845-18851	16.4	37
110	Mechanism Study on the Interfacial Stability of a Lithium Garnet-Type Oxide Electrolyte against Cathode Materials. *ACS Applied Energy Materials*, **2018**, 1, 5968-5976	6.1	37
109	Epitaxial Welding of Carbon Nanotube Networks for Aqueous Battery Current Collectors. *ACS Nano* , **2018**, 12, 5266-5273	16.7	36
108	Enhanced Electrochemical Performance of Ni-Rich Layered Cathode Materials by using LiPF6 as a Cathode Additive. *ChemElectroChem*, **2019**, 6, 1536-1541	4.3	35
107	Preventing lithium dendrite-related electrical shorting in rechargeable batteries by coating separator with a Li-killing additive. *Journal of Materials Chemistry A*, **2018**, 6, 10755-10760	13	35
106	3D tin anodes prepared by electrodeposition on a virus scaffold. *Journal of Power Sources*, **2012**, 211, 129-132	8.9	33
105	Effect of alloys modified by an alkaline solution containing potassium borohydride on the kinetic properties of MlNi3.7Co0.6Mn0.4Al0.3 hydride electrode. *Electrochimica Acta*, **1999**, 44, 2263-2269	6.7	33
104	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. *Angewandte Chemie*, **2020**, 132, 22378-22385	3.6	33

103	Grain-boundary-resistance-less Na3SbS4-xSex solid electrolytes for all-solid-state sodium batteries. *Nano Energy*, **2019**, 66, 104109	17.1	32
102	Long Cycle Life All-Solid-State Sodium Ion Battery. *ACS Applied Materials & Interfaces*, **2018**, 10, 39645-39650	9.5	30
101	Bio-inspired Nanoscaled Electronic/Ionic Conduction Networks for Room-Temperature All-Solid-State Sodium-Sulfur Battery. *Nano Today*, **2020**, 33, 100860	17.9	31
100	Sulfur-Embedded FeS as a High-Performance Cathode for Room Temperature All-Solid-State Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 18519-18525	9.5	30
99	Highly Reversible Conversion-Type FeOF Composite Electrode with Extended Lithium Insertion by Atomic Layer Deposition LiPON Protection. *Chemistry of Materials*, **2017**, 29, 8780-8791	9.6	29
98	Improvement in electrochemical properties of nano-tin-polyaniline lithium-ion composite anodes by control of electrode microstructure. *Journal of Power Sources*, **2002**, 109, 136-141	8.9	29
97	Water-in-salt polymer electrolyte for Li-ion batteries. *Energy and Environmental Science*, **2020**, 13, 2878-2887	33.4	29
96	A universal strategy towards high-energy aqueous multivalent-ion batteries. *Nature Communications*, **2021**, 12, 2857	17.4	29
95	Bifunctional Interphase-Enabled Li10GeP2S12 Electrolytes for Lithium–Sulfur Battery. *ACS Energy Letters*, **2021**, 6, 862-868	20.1	29
94	Realizing Complete Solid-Solution Reaction in High Sodium Content P2-Type Cathode for High-Performance Sodium-Ion Batteries. *Angewandte Chemie*, **2020**, 132, 14619-14624	3.6	28
93	An in-situ enabled lithium metal battery by plating lithium on a copper current collector. *Electrochemistry Communications*, **2018**, 89, 23-26	5.1	28
92	Self-discharge of secondary lithium-ion graphite anodes. *Journal of Power Sources*, **2002**, 112, 98-104	8.9	27
91	Integrating Multiredox Centers into One Framework for High-Performance Organic Li-Ion Battery Cathodes. *ACS Energy Letters*, **2020**, 5, 224-231	20.1	27
90	Construction of 3D Electronic/Ionic Conduction Networks for All-Solid-State Lithium Batteries. *Small*, **2019**, 15, e1905849	11	26
89	Electrolyte/Electrode Interfaces in All-Solid-State Lithium Batteries: A Review. *Electrochemical Energy Reviews*, **2021**, 4, 169-193	29.3	26
88	Reversible Redox Chemistry of Azo Compounds for Sodium-Ion Batteries. *Angewandte Chemie*, **2018**, 130, 2929-2933	3.6	25
87	Tunable High-Molecular-Weight Anion-Exchange Membranes for Alkaline Fuel Cells. *Macromolecular Chemistry and Physics*, **2011**, 212, 2094-2102	2.6	25
86	The self-discharge mechanism of AB5AB5-type hydride electrodes in Ni/MH batteries. *International Journal of Hydrogen Energy*, **2006**, 31, 603-611	6.7	25

85	Water-Salt Oligomers Enable Supersoluble Electrolytes for High-Performance Aqueous Batteries. *Advanced Materials*, **2021**, 33, e2007470	24	25
84	High-Energy Aqueous Sodium-Ion Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 11943-11948	16.4	24
83	Long cycle life of sodium-ion pouch cell achieved by using multiple electrolyte additives. *Journal of Power Sources*, **2018**, 407, 173-179	8.9	23
82	Functionalized Phosphonium Cations Enable Zinc Metal Reversibility in Aqueous Electrolytes. *Angewandte Chemie - International Edition*, **2021**, 60, 12438-12445	16.4	23
81	Optimization of fluorinated orthoformate based electrolytes for practical high-voltage lithium metal batteries. *Energy Storage Materials*, **2021**, 34, 76-84	19.4	23
80	Colloidal spray pyrolysis: A new fabrication technology for nanostructured energy storage materials. *Energy Storage Materials*, **2018**, 13, 8-18	19.4	22
79	An acrylate-polymer-based electrolyte membrane for alkaline fuel cell applications. *ChemSusChem*, **2011**, 4, 1557-60	8.3	22
78	Electrochemical study of the SnO2 lithium-insertion anode using microperturbation techniques. *Solid State Ionics*, **2002**, 147, 13-22	3.3	22
77	Solid-State Electrolyte Anchored with a Carboxylated Azo Compound for All-Solid-State Lithium Batteries. *Angewandte Chemie*, **2018**, 130, 8703-8707	3.6	22
76	Water-in-salt electrolyte Zn/LiFePO4 batteries. *Journal of Electroanalytical Chemistry*, **2020**, 867, 114193	4.1	21
75	Reversible Alloying of Phosphorene with Potassium and Its Stabilization Using Reduced Graphene Oxide Buffer Layers. *ACS Nano*, **2019**, 13, 14094-14106	16.7	21
74	Interfacial Design for 4.6 V High-Voltage Single-Crystalline LiCoO Cathode. *Advanced Materials*, **2021**, e2108353	24	19
73	Aqueous electrolyte design for super-stable 2.5 V LiMn2O4 || Li4Ti5O12 pouch cells. *Nature Energy*,	62.3	19
72	Intrinsic borohydride fuel cell/battery hybrid power sources. *Journal of Power Sources*, **2006**, 161, 753-760	8.9	18
71	High-Peak-Power Polymer Electrolyte Membrane Fuel Cells. *Journal of the Electrochemical Society*, **2003**, 150, A493	3.9	18
70	Elemental Sulfur as a Cathode Additive for Enhanced Rate Capability of Layered Lithium Transition Metal Oxides. *Journal of the Electrochemical Society*, **2019**, 166, A487-A492	3.9	18
69	Water-Pillared Sodium Vanadium Bronze Nanowires for Enhanced Rechargeable Magnesium Ion Storage. *Small*, **2020**, 16, e2000741	11	17
68	Compositions and Formation Mechanisms of Solid-Electrolyte Interphase on Microporous Carbon/Sulfur Cathodes. *Chemistry of Materials*, **2020**, 32, 3765-3775	9.6	17

67	An Inorganic-Rich Solid Electrolyte Interphase for Advanced Lithium-Metal Batteries in Carbonate Electrolytes. *Angewandte Chemie*, **2021**, 133, 3705-3715	3.6	17
66	A self-regulated gradient interphase for dendrite-free solid-state Li batteries. *Energy and Environmental Science*,	35.4	16
65	In situ formation of polymer-inorganic solid-electrolyte interphase for stable polymeric solid-state lithium-metal batteries. *CheM*, **2021**,	16.2	16
64	Localized Water-In-Salt Electrolyte for Aqueous Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 19965-19973	16.4	16
63	Electrochemical compressor driven metal hydride heat pump. *International Journal of Refrigeration*, **2015**, 60, 278-288	3.8	15
62	A lithium-sulfur battery with a solution-mediated pathway operating under lean electrolyte conditions. *Nano Energy*, **2020**, 76, 105041	17.1	14
61	In situ synthesis of cadmium germanates (Cd2Ge2O6)/reduced graphene oxide nanocomposites as novel high capacity anode materials for advanced lithium-ion batteries. *Materials Letters*, **2014**, 122, 327-330	3.3	14
60	Efficient Water Splitting System Enabled by Multifunctional Platinum-Free Electrocatalysts. *Advanced Functional Materials*, **2021**, 31, 2009853	15.6	14
59	Tuning Interface Lithiophobicity for Lithium Metal Solid-State Batteries. *ACS Energy Letters*, **2022**, 7, 131-139	20.1	14
58	Hydrophobic Organic-Electrolyte-Protected Zinc Anodes for Aqueous Zinc Batteries. *Angewandte Chemie*, **2020**, 132, 19454-19458	3.6	13
57	Determination of reaction resistances for metal-hydride electrodes during anodic polarization. *Journal of Power Sources*, **2000**, 85, 212-223	8.9	13
56	Understanding and Calibration of Charge Storage Mechanism in Cyclic Voltammetry Curves. *Angewandte Chemie*, **2021**, 133, 21480-21488	3.6	13
55	Elucidation of the Jahn-Teller effect in a pair of sodium isomer. *Nano Energy*, **2020**, 77, 105167	17.1	12
54	Gel electrolyte for a 4V flexible aqueous lithium-ion battery. *Journal of Power Sources*, **2020**, 469, 228378	8.9	11
53	Virus-Assembled Flexible Electrode-Electrolyte Interfaces for Enhanced Polymer-Based Battery Applications. *Journal of Nanomaterials*, **2012**, 2012, 1-6	3.2	11
52	Sodium Alginate Binders for Bivalency Aqueous Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 20681-20688	9.5	11
51	Novel Low-Temperature Electrolyte Using Isoxazole as the Main Solvent for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 24995-25001	9.5	11
50	How Water Accelerates Bivalent Ion Diffusion at the Electrolyte/Electrode Interface. *Angewandte Chemie*, **2018**, 130, 12154-12157	3.6	10

49	Sodium-Ion Batteries: An Advanced MoS2/Carbon Anode for High-Performance Sodium-Ion Batteries (Small 4/2015). *Small*, **2015**, 11, 472-472	11	10
48	Influence of amorphization on electrode performances of AB2 type hydrogen storage alloys. *Journal of Alloys and Compounds*, **1998**, 265, 264-268	5.7	10
47	In Situ Ionic/Electric Conductivity Measurement of La[sub 0.55]Li[sub 0.35]TiO[sub 3] Ceramic at Different Li Insertion Levels. *Journal of the Electrochemical Society*, **2004**, 151, A1196	3.9	10
46	Improving low-temperature performance of Li-alloy anodes by optimization of the electrolyte–electrode interface. *Journal of Power Sources*, **2003**, 114, 121-126	8.9	10
45	Criteria for Reliable Electrochemical Impedance Measurements on Li-Ion Battery Anodes. *Journal of the Electrochemical Society*, **2003**, 150, A143	3.9	10
44	Hydrogen storage properties of Ml1−xCaxNi5 pseudobinary intermetallic compounds. *Journal of Alloys and Compounds*, **1996**, 232, 192-196	5.7	10
43	The origin of the two-plateaued or one-plateaued open circuit voltage in Li–S batteries. *Nano Energy*, **2020**, 75, 104915	17.1	10
42	Cut-and-stack nanofiber paper toward fast transient energy storage. *Inorganic Chemistry Frontiers*, **2016**, 3, 681-688	6.8	10
41	Experimental study on electrochemical compression of ammonia and carbon dioxide for vapor compression refrigeration system. *International Journal of Refrigeration*, **2019**, 104, 180-188	3.8	9
40	Suppression of hydrogen evolution at catalytic surfaces in aqueous lithium ion batteries. *Journal of Materials Chemistry A*, **2020**, 8, 14921-14926	13	9
39	Isotope Effect between H2O and D2O in Hydrothermal Synthesis. *Chemistry of Materials*, **2020**, 32, 769-775	9.5	9
38	A Pyrazine-Based Polymer for Fast-Charge Batteries. *Angewandte Chemie*, **2019**, 131, 17984-17990	3.6	9
37	Copolymerization of methyl methacrylate and vinylbenzyl chloride towards alkaline anion exchange membrane for fuel cell applications. *Journal of Membrane Science*, **2012**, 423-424, 209-214	9.6	9
36	Alkaline Fuel Cell with Intrinsic Energy Storage. *Journal of the Electrochemical Society*, **2004**, 151, A260	3.9	9
35	The Role of Electron Localization in Covalency and Electrochemical Properties of Lithium-Ion Battery Cathode Materials. *Advanced Functional Materials*, **2021**, 31, 2001633	15.6	9
34	Interfacial-engineering-enabled practical low-temperature sodium metal battery.. *Nature Nanotechnology*, **2021**,	28.7	9
33	Comparison of the Electrochemical Impedance Spectroscopy Characteristics of Insertion Electrode Materials Used in Secondary Metal Hydride and Lithium-Ion Electrodes. *Journal of the Electrochemical Society*, **2001**, 148, A762	3.9	8
32	Quantifying and Suppressing Proton Intercalation to Enable High-Voltage Zn-Ion Batteries. *Advanced Energy Materials*, **2021**, 11, 2102016	21.8	8

31	Operando probing ion and electron transport in porous electrodes. *Nano Energy*, **2020**, 67, 104254	17.1	8
30	Efficient and stable cycling of lithium metal enabled by a conductive carbon primer layer. *Sustainable Energy and Fuels*, **2018**, 2, 163-168	5.8	7
29	Enhanced Pulse Power Polymer Electrolyte Membrane Fuel Cell Using Internal Hybrid Catalyst Layer Electrodes. *Journal of the Electrochemical Society*, **2006**, 153, A1795	3.9	7
28	Improvement in the cycle life of LaB5 metal hydride electrodes by addition of ZnO to alkaline electrolyte. *Electrochimica Acta*, **2002**, 47, 1069-1078	6.7	7
27	Ni (II) Coordination Supramolecular Grids for Aqueous Nickel-Zinc Battery Cathodes. *Advanced Functional Materials*, **2021**, 31, 2100443	15.6	7
26	Hybrid Aqueous/Non-aqueous Electrolyte for Safe and High-Energy Li-Ion Batteries. *Joule*, **2018**, 2, 2178	27.8	7
25	Electrochemical ammonia compression. *Chemical Communications*, **2017**, 53, 5637-5640	5.8	6
24	Electrochemical performance of patterned LiFePO4 nano-electrode with a pristine amorphous layer. *Applied Physics Letters*, **2014**, 104, 171604	3.4	6
23	Characterization of Metal Hydride Electrodes via Microperturbation and In Situ Intrinsic Resistance Measurement. *Journal of the Electrochemical Society*, **2000**, 147, 4432	3.9	6
22	Understanding LiI-LiBr Catalyst Activity for Solid State LiS/S Reactions in an All-Solid-State Lithium Battery. *Nano Letters*, **2021**, 21, 8488-8494	11.5	6
21	Design of a Solid Electrolyte Interphase for Aqueous Zn Batteries. *Angewandte Chemie*, **2021**, 133, 13145-13151	3.6	5
20	Perspective—Electrolyte Design for Aqueous Batteries: From Ultra-High Concentration to Low Concentration?. *Journal of the Electrochemical Society*, **2022**, 169, 030530	3.9	5
19	Revealing Reaction Pathways of Collective Substituted Iron Fluoride Electrode for Lithium Ion Batteries. *ACS Nano*, **2020**, 14, 10276-10283	16.7	4
18	Elastic Modulus Measurements on Large Diameter Nanowires Using a Nano-Assembled Platform. *Journal of Nanotechnology in Engineering and Medicine*, **2014**, 5,		4
17	High-Efficiency Zinc-Metal Anode Enabled by Liquefied Gas Electrolytes. *ACS Energy Letters*,4426-4430	20.1	4
16	Rational Designed Mixed-Conductive Sulfur Cathodes for All-Solid-State Lithium Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 36066-36071	9.5	4
15	Influence of concentration of KOH solution containing 0.02 M borohydride on the kinetic properties of hydrogen storage alloys. *Journal of Alloys and Compounds*, **1999**, 293-295, 680-683	5.7	3
14	Highly Reversible Aqueous Zinc Batteries enabled by Zincophilic-Zincophobic Interfacial Layers and Interrupted Hydrogen-Bond Electrolytes. *Angewandte Chemie*, **2021**, 133, 18993-18999	3.6	3

13	Nanostructured Metal Oxides for Li-Ion Batteries. *Springer Series in Materials Science*, **2012**, 337-363	0.9	2
12	Nafion-Bimevox Composite Membrane for Fuel Cell Applications. *Journal of the Electrochemical Society*, **2007**, 154, B48	3.9	2
11	Water Domain Enabled Transport in Polymer Electrolytes for Lithium-Ion Batteries. *Macromolecules* , **2021**, 54, 2882-2891	5.5	2
10	High-Energy Aqueous Sodium-Ion Batteries. *Angewandte Chemie*, **2021**, 133, 12050-12055	3.6	2
9	F and N Rich Solid Electrolyte for Stable All-Solid-State Battery. *Advanced Functional Materials*,2110876	15.6	2
8	Ammonium enables reversible aqueous Zn battery chemistries by tailoring the interphase. *One Earth*, **2022**, 5, 413-421	8.1	2
7	In-Situ Analytical Transmission Electron Microscopy Study of Electrochemical Lithiation of a Sulfur - Carbon Nanotube Composite Cathode. *Microscopy and Microanalysis*, **2015**, 21, 1513-1514	0.5	1
6	Quality monitoring for resistance spot welding using dynamic signals **2009**,		1
5	Functionalized Phosphonium Cations Enable Zinc Metal Reversibility in Aqueous Electrolytes. *Angewandte Chemie*, **2021**, 133, 12546-12553	3.6	1
4	High-energy and low-cost membrane-free chlorine flow battery.. *Nature Communications*, **2022**, 13, 1281	17.4	1
3	Bi-layer carbon design for microparticulate silicon anodes. *National Science Review*, **2021**, 8, nwab057	10.8	0
2	Localized Water-In-Salt Electrolyte for Aqueous Lithium-Ion Batteries. *Angewandte Chemie*, **2021**, 133, 20118-20126	3.6	0
1	Multimodal Analysis of Reaction Pathways of Cathode Materials for Lithium Ion Batteries. *Microscopy and Microanalysis*, **2020**, 26, 906-908	0.5	