Karim Zaghib

List of Publications by Year in Descending Order

358 papers	15,438 citations	69 h-index	109 g-index
384 ext. papers	17,628 ext. citations	6.9 avg, IF	6.88 L-index

#	Paper	IF	Citations
358	High rate and stable capacity performance of 2D LiMn1.5Ni0.5O4 nanoplates cathode with ultra-long cycle stability. *Journal of Alloys and Compounds*, **2022**, 903, 163869	5.7	1
357	Advanced silicon-based electrodes for high-energy lithium-ion batteries **2022**, 411-456		
356	Graphene: Chemistry and Applications for Lithium-Ion Batteries. *Electrochem*, **2022**, 3, 143-183	2.9	1
355	Photoactive nanomaterials enabled integrated photo-rechargeable batteries. *Nanophotonics*, **2022**,	6.3	1
354	Structural Study of Sulfur-Added Carbon Nanohorns. *Materials*, **2022**, 15, 3412	3.5	
353	In Situ and In Operando Techniques to Study Li-Ion and Solid-State Batteries: Micro to Atomic Level. *Inorganics*, **2021**, 9, 85	2.9	2
352	Design Parameters for Enhanced Performance of Li1+xNi0.6Co0.2Mn0.2O2 at High Voltage: A Phase Transformation Study by In Situ XRD. *Journal of the Electrochemical Society*, **2021**, 168, 100526	3.9	1
351	Design and Simulation Studies of Hybrid Power Systems Based on Photovoltaic, Wind, Electrolyzer, and PEM Fuel Cells. *Energies*, **2021**, 14, 2643	3.1	5
350	Enabling High-Performance NASICON-Based Solid-State Lithium Metal Batteries Towards Practical Conditions. *Advanced Functional Materials*, **2021**, 31, 2102765	15.6	6
349	EDS of Lithium Materials from 0.5 to 30 keV. *Microscopy and Microanalysis*, **2021**, 27, 1868-1869	0.5	0
348	Synthesis of Nickel Fumarate and Its Electrochemical Properties for Li-Ion Batteries. *Electrochem*, **2021**, 2, 439-451	2.9	3
347	Tribute to John B. Goodenough: From Magnetism to Rechargeable Batteries. *Advanced Energy Materials*, **2021**, 11, 2000773	21.8	6
346	Molten salt synthesis of CoFe2O4 and its energy storage properties. *Materials Chemistry and Physics*, **2021**, 257, 123747	4.4	3
345	Facile synthesis of hierarchical porous Na3V2(PO4)3/C composites with high-performance Na storage properties. *Journal of Power Sources*, **2021**, 481, 228828	8.9	11
344	High performance LiMnFePO4/Li4Ti5O12 full cells by functionalized polymeric additives. *Materials Advances*, **2021**, 2, 253-260	3.3	0
343	Large-Area Electrochromic Devices on Flexible Polymer Substrates with High Optical Contrast and Enhanced Cycling Stability. *Advanced Materials Technologies*, **2021**, 6, 2000836	6.8	11
342	Pillar-beam structures prevent layered cathode materials from destructive phase transitions. *Nature Communications*, **2021**, 12, 13	17.4	24

341	Metal□rganic framework-based materials: advances, exploits, and challenges in promoting post Li-ion battery technologies. *Materials Advances*, **2021**, 2, 2457-2482	3.3	11
340	Alumina-flame retardant separators toward safe high voltage Li-Ion batteries. *Journal of Power Sources*, **2021**, 506, 230189	8.9	7
339	Cause and Mitigation of Lithium-Ion Battery Failure-A Review. *Materials*, **2021**, 14,	3.5	8
338	Nanoboxes with a porous MnO core and amorphous TiO2 shell as a mediator for lithium□ulfur batteries. *Journal of Materials Chemistry A*, **2021**, 9, 4952-4961	13	7
337	On high-temperature evolution of passivation layer in Li-10 wt % Mg alloy via in situ SEM-EBSD. *Science Advances*, **2020**, 6,	14.3	5
336	Characterization Technique for Advanced Materials for Lithium Batteries in an SEM. *Microscopy and Microanalysis*, **2020**, 26, 2790-2792	0.5	1
335	A 3D Network Based on Poly(□caprolactone) Macromonomers as Polymer Electrolyte for Solid State Lithium Metal Batteries. *Journal of the Electrochemical Society*, **2020**, 167, 080527	3.9	2
334	Toward an All-Ceramic Cathode□lectrolyte Interface with Low-Temperature Pressed NASICON Li1.5Al0.5Ge1.5(PO4)3 Electrolyte. *Advanced Materials Interfaces*, **2020**, 7, 2000164	4.6	10
333	PEDOT Encapsulated and Mechanochemically Engineered Silicate Nanocrystals for High Energy Density Cathodes. *Advanced Materials Interfaces*, **2020**, 7, 2000226	4.6	3
332	Comprehensive Review of Polymer Architecture for All-Solid-State Lithium Rechargeable Batteries. *Materials*, **2020**, 13,	3.5	10
331	Porous Carbon Membrane-Supported Atomically Dispersed Pyrrole-Type Fe?N as Active Sites for Electrochemical Hydrazine Oxidation Reaction. *Small*, **2020**, 16, e2002203	11	19
330	Fabrication of Current Collectors and Binder-Free Electrodes on Separators Used in Lithium-Ion Batteries. *Batteries and Supercaps*, **2020**, 3, 638-646	5.6	2
329	The Critical Role of Carbon in the Chemical Delithiation Kinetics of LiFePO4. *Journal of the Electrochemical Society*, **2020**, 167, 070538	3.9	5
328	Large □Conjugated Condensed Perylene-Based Aromatic Polyimide as Organic Cathode for Lithium-Ion Batteries. *ACS Applied Energy Materials*, **2020**, 3, 6511-6524	6.1	7
327	Novel polymer coating for chemically absorbing CO for safe Li-ion battery. *Scientific Reports*, **2020**, 10, 10305	4.9	2
326	Hot Press Method: Toward an All-Ceramic Cathode□lectrolyte Interface with Low-Temperature Pressed NASICON Li1.5Al0.5Ge1.5(PO4)3 Electrolyte (Adv. Mater. Interfaces 12/2020). *Advanced Materials Interfaces*, **2020**, 7, 2070069	4.6	1
325	Effects of ester-based electrolyte composition and salt concentration on the Na-storage stability of hard carbon anodes. *Journal of Power Sources*, **2020**, 471, 228455	8.9	7
324	Understanding the Reactivity of a Thin Li1.5Al0.5Ge1.5(PO4)3 Solid-State Electrolyte toward Metallic Lithium Anode. *Advanced Energy Materials*, **2020**, 10, 2001497	21.8	25

323	Protection of LiFePO against Moisture. *Materials*, **2020**, 13,	3.5	6
322	Toward Low-Cost All-Organic and Biodegradable Li-Ion Batteries. *Scientific Reports*, **2020**, 10, 3812	4.9	24
321	Unusual Li-ion Intercalation Activation with Progressive Capacity Increase in Orthosilicate Nanocomposite Cathode. *Journal of Physical Chemistry C*, **2020**, 124, 5966-5977	3.8	2
320	Discovering the Influence of Lithium Loss on Garnet Li7La3Zr2O12 Electrolyte Phase Stability. *ACS Applied Energy Materials*, **2020**, 3, 3415-3424	6.1	27
319	Progress and Status of Hydrometallurgical and Direct Recycling of Li-Ion Batteries and Beyond. *Materials*, **2020**, 13,	3.5	86
318	High-Performance Manganese Hexacyanoferrate with Cubic Structure as Superior Cathode Material for Sodium-Ion Batteries. *Advanced Functional Materials*, **2020**, 30, 1908754	15.6	46
317	Behavior of Solid Electrolyte in Li-Polymer Battery with NMC Cathode via in-Situ Scanning Electron Microscopy. *Nano Letters*, **2020**, 20, 1607-1613	11.5	52
316	Brief History of Early Lithium-Battery Development. *Materials*, **2020**, 13,	3.5	93
315	Electrochemical Study of Functional Additives for Li-Ion Batteries. *Journal of the Electrochemical Society*, **2020**, 167, 120535	3.9	5
314	Review□i-Ion Photo-Batteries: Challenges and Opportunities. *Journal of the Electrochemical Society*, **2020**, 167, 120545	3.9	13
313	A low-cost and Li-rich organic coating on a Li4Ti5O12 anode material enabling Li-ion battery cycling at subzero temperatures. *Materials Advances*, **2020**, 1, 854-872	3.3	4
312	Engineering interfacial adhesion for high-performance lithium metal anode. *Nano Energy*, **2020**, 67, 104242	17.1	18
311	Correlative imaging of ionic transport and electronic structure in nano LiFePO electrodes. *Chemical Communications*, **2020**, 56, 984-987	5.8	4
310	KOH-doped polybenzimidazole membrane for direct hydrazine fuel cell. *Journal of Colloid and Interface Science*, **2020**, 563, 27-32	9.3	15
309	Crown Ether Functionalized Conductive Carbon for High-Voltage Spinel LiMn1.5Ni0.5O4/Graphite Cell. *ACS Applied Energy Materials*, **2020**, 3, 647-657	6.1	7
308	Improvement of the energy resolution of energy dispersive spectrometers (EDS) using Richardson-Lucy deconvolution. *Ultramicroscopy*, **2020**, 209, 112886	3.1	4
307	Tribute to Michel Armand: from Rocking Chair □Li-ion to Solid-State Lithium Batteries. *Journal of the Electrochemical Society*, **2020**, 167, 070507	3.9	45
306	Defect Engineering of Iron-Rich Orthosilicate Cathode Materials with Enhanced Lithium-Ion Intercalation Capacity and Kinetics. *ACS Applied Energy Materials*, **2020**, 3, 675-686	6.1	1

305	Facile fabrication of thin metal oxide films on porous carbon for high density charge storage. *Journal of Colloid and Interface Science*, **2020**, 562, 567-577	9.3	39
304	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. *Angewandte Chemie*, **2020**, 132, 542-546	3.6	12
303	Nacre-Inspired Composite Electrolytes for Load-Bearing Solid-State Lithium-Metal Batteries. *Advanced Materials*, **2020**, 32, e1905517	24	57
302	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 534-538	16.4	76
301	Electrophoretically co-deposited Li4Ti5O12/reduced graphene oxide nanolayered composites for high-performance battery application. *Energy Storage Materials*, **2020**, 26, 560-569	19.4	20
300	Synthesis and Performance of MOF-Based Non-Noble Metal Catalysts for the Oxygen Reduction Reaction in Proton-Exchange Membrane Fuel Cells: A Review. *Nanomaterials*, **2020**, 10,	5.4	8
299	High-Voltage Lithium-Ion Battery Using Substituted LiCoPO: Electrochemical and Safety Performance of 1.2 Ah Pouch Cell. *Materials*, **2020**, 13,	3.5	2
298	ZIF-derived Co□□ ORR catalyst with high performance in proton exchange membrane fuel cells. *Progress in Natural Science: Materials International*, **2020**, 30, 855-860	3.6	12
297	Facile formulation and fabrication of the cathode using a self-lithiated carbon for all-solid-state batteries. *Scientific Reports*, **2020**, 10, 11813	4.9	4
296	Nanoscale assembling of graphene oxide with electrophoretic deposition leads to superior percolation network in Li-ion electrodes: TiNbO/rGO composite anodes. *Nanoscale*, **2020**, 12, 23092-23104	7.7	8
295	A sustainable light-chargeable two-electrode energy storage system based on aqueous sodium-ion photo-intercalation. *Sustainable Energy and Fuels*, **2020**, 4, 4789-4799	5.8	6
294	Key Challenges and Opportunities for Recycling Electric Vehicle Battery Materials. *Sustainability*, **2020**, 12, 5837	3.6	40
293	Determination of Binary Diffusivities in Concentrated Lithium Battery Electrolytes via NMR and Conductivity Measurements. *Journal of Physical Chemistry C*, **2020**, 124, 24624-24630	3.8	3
292	Direct observation of lithium metal dendrites with ceramic solid electrolyte. *Scientific Reports*, **2020**, 10, 18410	4.9	16
291	Lattice-Strain Engineering of Homogeneous NiS Se Core-Shell Nanostructure as a Highly Efficient and Robust Electrocatalyst for Overall Water Splitting. *Advanced Materials*, **2020**, 32, e2000231	24	79
290	Phase Transformation of Doped LiCoPO during Galvanostatic Cycling. *Materials*, **2020**, 13,	3.5	2
289	Lithium Anodes: Understanding the Reactivity of a Thin Li1.5Al0.5Ge1.5(PO4)3 Solid-State Electrolyte toward Metallic Lithium Anode (Adv. Energy Mater. 32/2020). *Advanced Energy Materials*, **2020**, 10, 2070136	21.8	1
288	Sulfide and Oxide Inorganic Solid Electrolytes for All-Solid-State Li Batteries: A Review. *Nanomaterials*, **2020**, 10,	5.4	72

287	**2020**,		2
286	Application of Magnetic Resonance Techniques to the In Situ Characterization of Li-Ion Batteries: A Review. *Materials*, **2020**, 13,	3.5	15
285	Low-tortuosity and graded lithium ion battery cathodes by ice templating. *Journal of Materials Chemistry A*, **2019**, 7, 21421-21431	13	36
284	Functionalization of the carbon additive of a high-voltage Li-ion cathode. *Journal of Materials Chemistry A*, **2019**, 7, 1585-1597	13	16
283	Amphiphilic latex as a water-based binder for LiFePO4 cathode. *Journal of Power Sources*, **2019**, 415, 172-178	8.9	13
282	The Effect of Structural Properties of a Two-Layered Electrode on the Li-Ion Battery Polarization. *Journal of the Electrochemical Society*, **2019**, 166, A225-A235	3.9	6
281	In-Situ Characterization of Lithium Native Passivation Layer in A High Vacuum Scanning Electron Microscope. *Microscopy and Microanalysis*, **2019**, 25, 866-873	0.5	4
280	A platinum nanolayer on lithium metal as an interfacial barrier to shuttle effect in Li-S batteries. *Journal of Power Sources*, **2019**, 427, 201-206	8.9	29
279	Electrospun ceramic nanofibers as 1D solid electrolytes for lithium batteries. *Electrochemistry Communications*, **2019**, 104, 106483	5.1	30
278	Enhancing the electrochemical performance of an O3 NaCrO2 cathode in sodium-ion batteries by cation substitution. *Journal of Power Sources*, **2019**, 435, 226760	8.9	14
277	Recent Progress on Organic Electrodes Materials for Rechargeable Batteries and Supercapacitors. *Materials*, **2019**, 12,	3.5	67
276	Mechanochemically tuned structural annealing: a new pathway to enhancing Li-ion intercalation activity in nanosized Li2FeSiO4. *Journal of Materials Chemistry A*, **2019**, 7, 13705-13713	13	4
275	Stabilizing Solid Electrolyte-Anode Interface in Li-Metal Batteries by Boron Nitride-Based Nanocomposite Coating. *Joule*, **2019**, 3, 1510-1522	27.8	146
274	Rechargeable solid-state lithium metal batteries with vertically aligned ceramic nanoparticle/polymer composite electrolyte. *Nano Energy*, **2019**, 60, 205-212	17.1	155
273	Roles of Ti in Electrode Materials for Sodium-Ion Batteries. *Frontiers in Energy Research*, **2019**, 7,	3.8	13
272	A versatile method for grafting polymers onto Li4Ti5O12 particles applicable to lithium-ion batteries. *Journal of Power Sources*, **2019**, 421, 116-123	8.9	8
271	Multi-carbonyl molecules immobilized on high surface area carbon by diazonium chemistry for energy storage applications. *Electrochimica Acta*, **2019**, 308, 99-114	6.7	15
270	Facile Protection of Lithium Metal for All-Solid-State Batteries. *ChemistryOpen*, **2019**, 8, 192-195	2.3	15

269	Diffusion Control of Organic Cathode Materials in Lithium Metal Battery. *Scientific Reports*, **2019**, 9, 1213	4.9	15
268	EV/HEV Industry Trends of Wide-bandgap Power Semiconductor Devices for Power Electronics Converters **2019**,		3
267	Solid-to-liquid transition of polycarbonate solid electrolytes in Li-metal batteries. *Journal of Power Sources*, **2019**, 436, 226852	8.9	36
266	Thermally stable, nano-porous and eco-friendly sodium alginate/attapulgite separator for lithium-ion batteries. *Energy Storage Materials*, **2019**, 22, 48-56	19.4	45
265	Hydrogen Storage for Mobility: A Review. *Materials*, **2019**, 12,	3.5	155
264	Insights into pseudographite-structured hard carbon with stabilized performance for high energy K-ion storage. *Journal of Power Sources*, **2019**, 444, 227310	8.9	29
263	EELS Monitoring of Beam-Induced Dynamic Transformation of Lithium Materials at 30 keV. *Microscopy and Microanalysis*, **2019**, 25, 2168-2169	0.5	
262	Capacity Contribution Induced by Pseudo-Capacitance Adsorption Mechanism of Anode Carbonaceous Materials Applied in Potassium-ion Battery. *Frontiers in Chemistry*, **2019**, 7, 640	5	9
261	Lithium Photo-intercalation of CdS-Sensitized WO Anode for Energy Storage and Photoelectrochromic Applications. *ChemSusChem*, **2019**, 12, 2220-2230	8.3	24
260	Boosting Ultra-Fast Charge Battery Performance: Filling Porous nanoLiTiO Particles with 3D Network of N-doped Carbons. *Scientific Reports*, **2019**, 9, 16871	4.9	12
259	In situ observation of solid electrolyte interphase evolution in a lithium metal battery. *Communications Chemistry*, **2019**, 2,	6.3	35
258	Unveiling the mechanism of improved capacity retention in Pmn21 Li2FeSiO4 cathode by cobalt substitution. *Journal of Materials Chemistry A*, **2019**, 7, 25399-25414	13	7
257	Building Better Batteries in the Solid State: A Review. *Materials*, **2019**, 12,	3.5	95
256	Pre-treatments of Lithium Foil Surface for Improving the Cycling Life of Li Metal Batteries. *Frontiers in Materials*, **2019**, 6,	4	18
255	Highly conductive NMP-free carbon-coated nano-lithium titanate/carbon composite electrodes via SBR-assisted electrophoretic deposition. *Electrochimica Acta*, **2019**, 299, 107-115	6.7	13
254	Hydrothermal crystallization of Pmn21 Li2FeSiO4 hollow mesocrystals for Li-ion cathode application. *Chemical Engineering Journal*, **2019**, 359, 1592-1602	14.7	20
253	Ethylenediamine-Enabled Sustainable Synthesis of Mesoporous Nanostructured Li2FeIISiO4 Particles from Fe(III) Aqueous Solution for Li-Ion Battery Application. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 7458-7467	8.3	12
252	Mesoscopic modeling and parameter estimation of a lithium-ion battery based on LiFePO4/graphite. *Journal of Power Sources*, **2018**, 379, 84-90	8.9	10

251	High-Capacity and Long-Cycle Life Aqueous Rechargeable Lithium-Ion Battery with the FePO Anode. *ACS Applied Materials & Interfaces*, **2018**, 10, 7061-7068	9.5	25
250	Layered oxides-LiNi1/3Co1/3Mn1/3O2 as anode electrode for symmetric rechargeable lithium-ion batteries. *Journal of Power Sources*, **2018**, 378, 516-521	8.9	23
249	Toward high lithium conduction in solid polymer and polymer□eramic batteries. *Current Opinion in Electrochemistry*, **2018**, 9, 56-63	7.2	42
248	High-energy lithium-ion battery using substituted LiCoPO4: From coin type to 1 Ah cell. *Journal of Power Sources*, **2018**, 388, 52-56	8.9	20
247	The Role of Metal Disulfide Interlayer in Li□ Batteries. *Journal of Physical Chemistry C*, **2018**, 122, 1014-1023	3.3	36
246	High Capacity and High Efficiency Maple Tree-Biomass-Derived Hard Carbon as an Anode Material for Sodium-Ion Batteries. *Materials*, **2018**, 11,	3.5	23
245	Li4Ti5O12: A Visible-to-Infrared Broadband Electrochromic Material for Optical and Thermal Management. *Advanced Functional Materials*, **2018**, 28, 1802180	15.6	74
244	State of charge influence on thermal reactions and abuse tests in commercial lithium-ion cells. *Journal of Power Sources*, **2018**, 399, 392-397	8.9	53
243	New insight in the electrochemical behaviour of stainless steel electrode in water-in-salt electrolyte. *Journal of Power Sources*, **2018**, 399, 299-303	8.9	33
242	Solid-State NMR Study of New Copolymers as Solid Polymer Electrolytes. *Magnetochemistry*, **2018**, 4, 13	3.1	5
241	Application of Operando X-ray Diffraction and Raman Spectroscopies in Elucidating the Behavior of Cathode in Lithium-Ion Batteries. *Frontiers in Energy Research*, **2018**, 6,	3.8	22
240	In Situ TEM Investigation of Electron Irradiation Induced Metastable States in Lithium-Ion Battery Cathodes: Li2FeSiO4 versus LiFePO4. *ACS Applied Energy Materials*, **2018**, 1, 3180-3189	6.1	12
239	Ultra-low cost and highly stable hydrated FePO 4 anodes for aqueous sodium-ion battery. *Journal of Power Sources*, **2018**, 374, 211-216	8.9	32
238	In Situ Scanning Electron Microscopy Detection of Carbide Nature of Dendrites in Li-Polymer Batteries. *Nano Letters*, **2018**, 18, 7583-7589	11.5	58
237	Nanoscale Lithium Quantification in LiNiCoMnO as Cathode for Rechargeable Batteries. *Scientific Reports*, **2018**, 8, 17575	4.9	18
236	Application of Operando X-ray Diffractometry in Various Aspects of the Investigations of Lithium/Sodium-Ion Batteries. *Energies*, **2018**, 11, 2963	3.1	13
235	Hydrothermal Production of Lithium Metal Silicate Powders with Controlled Properties for Application to Li-ion Batteries. *Minerals, Metals and Materials Series*, **2018**, 2555-2563	0.3	
234	A comprehensive review of lithium salts and beyond for rechargeable batteries: Progress and perspectives. *Materials Science and Engineering Reports*, **2018**, 134, 1-21	30.9	95

233	Annealing-regulated elimination of residual strain-induced structural relaxation for stable high-power Li4Ti5O12 nanosheet anodes. *Nano Energy*, **2017**, 32, 533-541	17.1	25
232	Investigation of the reaction mechanism of lithium sulfur batteries in different electrolyte systems by in situ Raman spectroscopy and in situ X-ray diffraction. *Sustainable Energy and Fuels*, **2017**, 1, 737-747	5.8	72
231	Light-assisted delithiation of lithium iron phosphate nanocrystals towards photo-rechargeable lithium ion batteries. *Nature Communications*, **2017**, 8, 14643	17.4	112
230	Challenges and issues facing lithium metal for solid-state rechargeable batteries. *Journal of Power Sources*, **2017**, 353, 333-342	8.9	218
229	A Study on the Effect of Porosity and Particles Size Distribution on Li-Ion Battery Performance. *Journal of the Electrochemical Society*, **2017**, 164, E3179-E3189	3.9	45
228	Measuring Spatially Resolved Collective Ionic Transport on Lithium Battery Cathodes Using Atomic Force Microscopy. *Nano Letters*, **2017**, 17, 4489-4496	11.5	22
227	Safety of solid-state Li metal battery: Solid polymer versus liquid electrolyte. *Journal of Power Sources*, **2017**, 359, 182-185	8.9	46
226	Li(Ni,Co)PO4 as cathode materials for lithium batteries: Will the dream come true?. *Current Opinion in Electrochemistry*, **2017**, 6, 63-69	7.2	23
225	On the Detection Limits of Li K X-rays Using Windowless Energy Dispersive Spectrometer (EDS). *Microscopy and Microanalysis*, **2017**, 23, 2024-2025	0.5	4
224	Advances in lithium–sulfur batteries. *Materials Science and Engineering Reports*, **2017**, 121, 1-29	30.9	77
223	A review on hexacyanoferrate-based materials for energy storage and smart windows: challenges and perspectives. *Journal of Materials Chemistry A*, **2017**, 5, 18919-18932	13	160
222	New Avenue for Limiting Degradation in NanoLiTiO for Ultrafast-Charge Lithium-Ion Batteries: Hybrid Polymer-Inorganic Particles. *Nano Letters*, **2017**, 17, 7372-7379	11.5	14
221	Schiff Base as Additive for Preventing Gas Evolution in LiTiO-Based Lithium-Ion Battery. *ACS Applied Materials & Interfaces*, **2017**, 9, 41371-41377	9.5	13
220	Capacity Fade Mechanism of Li4Ti5O12 Nanosheet Anode. *Advanced Energy Materials*, **2017**, 7, 1601825	21.8	47
219	Development of Quantitative Techniques with Time-of-Flight Secondary Ion Mass Spectrometry (TOF-SIMS) for Li Characterization in High Energy Batteries.. *Microscopy and Microanalysis*, **2017**, 23, 2088-2089	0.5	2
218	Silicon nanopowder synthesis by inductively coupled plasma as anode for high-energy Li-ion batteries. *Series in Materials Science and Engineering*, **2017**, 463-484		
217	Synthesis and characterization of substituted garnet and perovskite-based lithium-ion conducting solid electrolytes. *Ionics*, **2016**, 22, 317-325	2.7	13
216	Li4Ti5O12 and LiMn2O4 thin-film electrodes on transparent conducting oxides for all-solid-state and electrochromic applications. *Journal of Power Sources*, **2016**, 301, 35-40	8.9	34

215	Electrolytes and Separators for Lithium Batteries **2016**, 431-460		1
214	Nanotechnology for Energy Storage **2016**, 461-497		
213	Safety Aspects of Li-Ion Batteries **2016**, 549-583		2
212	Technology of the Li-Ion Batteries **2016**, 585-603		
211	Polyanionic Compounds as Cathode Materials **2016**, 201-268		2
210	Fluoro-polyanionic Compounds **2016**, 269-293		1
209	Lithium Batteries **2016**, 29-68		16
208	Principles of Intercalation **2016**, 69-91		1
207	Li-ion storage dynamics in metastable nanostructured Li2FeSiO4 cathode: Antisite-induced phase transition and lattice oxygen participation. *Journal of Power Sources*, **2016**, 329, 355-363	8.9	24
206	High Cycling Stability of Electrochromic Devices Using a Metallic Counter Electrode. *Electrochimica Acta*, **2016**, 214, 313-318	6.7	9
205	Na 3 Fe 2 (SO 4) 2 (SO 3 N) as a potential high capacity cathode material. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2016**, 211, 185-190	3.1	1
204	Chemically fabricated LiFePO4 thin film electrode for transparent batteries and electrochromic devices. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2016**, 214, 81-86	3.1	9
203	High rechargeable sodium metal-conducting polymer batteries. *Journal of Power Sources*, **2016**, 335, 131-137	8.9	16
202	Transient existence of crystalline lithium disulfide Li2S2 in a lithium-sulfur battery. *Journal of Power Sources*, **2016**, 325, 641-645	8.9	48
201	Formation of Lithium Titanate Hydrate Nanosheets: Insight into a Two-Dimension Growth Mechanism by in Situ Raman. *Crystal Growth and Design*, **2016**, 16, 3898-3904	3.5	6
200	Accelerated Removal of Fe-Antisite Defects while Nanosizing Hydrothermal LiFePO4 with Ca(2). *Nano Letters*, **2016**, 16, 2692-7	11.5	40
199	Theoretical investigation of Chevrel phase materials for cathodes accommodating Ca2+ ions. *Journal of Power Sources*, **2016**, 306, 431-436	8.9	47
198	Lithium Batteries **2016**,		76

197	Anodes for Li-Ion Batteries **2016**, 323-429		
196	Spontaneous reaction between an uncharged lithium iron silicate cathode and a LiPF6-based electrolyte. *Chemical Communications*, **2016**, 52, 190-3	5.8	14
195	Smart materials for energy storage in Li-ion batteries. *AIMS Materials Science*, **2016**, 3, 137-148	1.9	4
194	Basic Elements for Energy Storage and Conversion **2016**, 1-27		
193	Cathode Materials with Two-Dimensional Structure **2016**, 119-162		
192	Cathode Materials with Monoatomic Ions in a Three-Dimensional Framework **2016**, 163-199		
191	Optimization of Layered Cathode Materials for Lithium-Ion Batteries. *Materials*, **2016**, 9,	3.5	65
190	Olivine-Based Blended Compounds as Positive Electrodes for Lithium Batteries. *Inorganics*, **2016**, 4, 17	2.9	10
189	Towards Li Quantification at High Spatial Resolution Using EDS. *Microscopy and Microanalysis*, **2016**, 22, 84-85	0.5	1
188	Can we detect Li K X-ray in lithium compounds using energy dispersive spectroscopy?. *Scanning*, **2016**, 38, 571-578	1.6	53
187	Recent progress in sulfide-based solid electrolytes for Li-ion batteries. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2016**, 213, 169-176	3.1	58
186	Density functional theory insights into the structural stability and Li diffusion properties of monoclinic and orthorhombic Li 2 FeSiO 4 cathodes. *Journal of Power Sources*, **2016**, 318, 136-145	8.9	30
185	Structural properties and application in lithium cells of Li(Ni0.5Co0.5)1−yFeyO2 (0 ⩽ y ⩽ 0.25) prepared by sol–gel route: Doping optimization. *Journal of Power Sources*, **2016**, 320, 168-179	8.9	13
184	In operando scanning electron microscopy and ultraviolet–visible spectroscopy studies of lithium/sulfur cells using all solid-state polymer electrolyte. *Journal of Power Sources*, **2016**, 319, 247-254	8.9	92
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