

Karim Zaghib

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358
papers

15,438
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69
h-index

109
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384
ext. papers

17,628
ext. citations

6.9
avg, IF

6.88
L-index

#	Paper	IF	Citations
358	Current density dependence of peroxide formation in the LiO_2 battery and its effect on charge. <i>Energy and Environmental Science</i> , 2013 , 6, 1772	35.4	532
357	Electrochemical study of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ as negative electrode for Li-ion polymer rechargeable batteries. <i>Journal of Power Sources</i> , 1999 , 81-82, 300-305	8.9	437
356	Quantifying tortuosity in porous Li-ion battery materials. <i>Journal of Power Sources</i> , 2009 , 188, 592-600	8.9	362
355	Comparative Issues of Cathode Materials for Li-Ion Batteries. <i>Inorganics</i> , 2014 , 2, 132-154	2.9	277
354	Improved electrolytes for Li-ion batteries: Mixtures of ionic liquid and organic electrolyte with enhanced safety and electrochemical performance. <i>Journal of Power Sources</i> , 2010 , 195, 845-852	8.9	270
353	Safe and fast-charging Li-ion battery with long shelf life for power applications. <i>Journal of Power Sources</i> , 2011 , 196, 3949-3954	8.9	250
352	Challenges and issues facing lithium metal for solid-state rechargeable batteries. <i>Journal of Power Sources</i> , 2017 , 353, 333-342	8.9	218
351	LiFePO_4 and graphite electrodes with ionic liquids based on bis(fluorosulfonyl)imide (FSI) for Li-ion batteries. <i>Journal of Power Sources</i> , 2008 , 175, 866-873	8.9	213
350	Study of the Li-insertion/extraction process in $\text{LiFePO}_4/\text{FePO}_4$. <i>Journal of Power Sources</i> , 2009 , 187, 555-564	8.9	198
349	Electrochemistry of Anodes in Solid-State Li-Ion Polymer Batteries. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 3135-3140	3.9	196
348	Electronic, Optical, and Magnetic Properties of LiFePO_4 : Small Magnetic Polaron Effects. <i>Chemistry of Materials</i> , 2007 , 19, 3740-3747	9.6	193
347	LiFePO_4 water-soluble binder electrode for Li-ion batteries. <i>Journal of Power Sources</i> , 2007 , 163, 1047-1052	8.9	189
346	Structure and insertion properties of disordered and ordered $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ spinels prepared by wet chemistry. <i>Ionics</i> , 2006 , 12, 117-126	2.7	173
345	Nano-particle $\text{Li}_4\text{Ti}_5\text{O}_{12}$ spinel as electrode for electrochemical generators. <i>Journal of Power Sources</i> , 2003 , 119-121, 88-94	8.9	172
344	Characterization of Na-based phosphate as electrode materials for electrochemical cells. <i>Journal of Power Sources</i> , 2011 , 196, 9612-9617	8.9	165
343	A review on hexacyanoferrate-based materials for energy storage and smart windows: challenges and perspectives. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18919-18932	13	160
342	Accelerating rate calorimetry studies of the reactions between ionic liquids and charged lithium ion battery electrode materials. <i>Electrochimica Acta</i> , 2007 , 52, 6346-6352	6.7	160

341	Reduction Fe ³⁺ of Impurities in LiFePO ₄ from Pyrolysis of Organic Precursor Used for Carbon Deposition. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A1692	3.9	160
340	Spinel materials for high-voltage cathodes in Li-ion batteries. <i>RSC Advances</i> , 2014 , 4, 154-167	3.7	156
339	Rechargeable solid-state lithium metal batteries with vertically aligned ceramic nanoparticle/polymer composite electrolyte. <i>Nano Energy</i> , 2019 , 60, 205-212	17.1	155
338	Hydrogen Storage for Mobility: A Review. <i>Materials</i> , 2019 , 12,	3.5	155
337	Review and analysis of nanostructured olivine-based lithium rechargeable batteries: Status and trends. <i>Journal of Power Sources</i> , 2013 , 232, 357-369	8.9	154
336	Mechanism of the Fe ³⁺ Reduction at Low Temperature for LiFePO ₄ Synthesis from a Polymeric Additive. <i>Chemistry of Materials</i> , 2007 , 19, 2595-2602	9.6	151
335	Stabilizing Solid Electrolyte-Anode Interface in Li-Metal Batteries by Boron Nitride-Based Nanocomposite Coating. <i>Joule</i> , 2019 , 3, 1510-1522	27.8	146
334	Structural, magnetic and electrochemical properties of lithium iron orthosilicate. <i>Journal of Power Sources</i> , 2006 , 160, 1381-1386	8.9	145
333	Toward practical application of functional conductive polymer binder for a high-energy lithium-ion battery design. <i>Nano Letters</i> , 2014 , 14, 6704-10	11.5	140
332	Effect of Carbon Source as Additives in LiFePO ₄ as Positive Electrode for Lithium-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A207		135
331	Unsupported claims of ultrafast charging of LiFePO ₄ Li-ion batteries. <i>Journal of Power Sources</i> , 2009 , 194, 1021-1023	8.9	132
330	FTIR features of lithium-iron phosphates as electrode materials for rechargeable lithium batteries. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006 , 65, 1007-13	4.4	131
329	Surface Effects on the Physical and Electrochemical Properties of Thin LiFePO ₄ Particles. <i>Chemistry of Materials</i> , 2008 , 20, 462-469	9.6	129
328	New lithium metal polymer solid state battery for an ultrahigh energy: nano C-LiFePO ₄ versus nano Li _{1.2} VPO ₄ . <i>Nano Letters</i> , 2015 , 15, 2671-8	11.5	128
327	LiFePO ₄ /polymer/natural graphite: low cost Li-ion batteries. <i>Electrochimica Acta</i> , 2004 , 50, 263-270	6.7	128
326	Characterization of the carbon coating onto LiFePO ₄ particles used in lithium batteries. <i>Journal of Applied Physics</i> , 2006 , 100, 063511	2.5	124
325	Safe Li-ion polymer batteries for HEV applications. <i>Journal of Power Sources</i> , 2004 , 134, 124-129	8.9	120
324	Local structure and redox energies of lithium phosphates with olivine- and Nasicon-like structures. <i>Journal of Power Sources</i> , 2005 , 140, 370-375	8.9	116

323	Study of the surface modification of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ cathode material for lithium ion battery. <i>Journal of Power Sources</i> , 2011 , 196, 8632-8637	8.9	114
322	Light-assisted delithiation of lithium iron phosphate nanocrystals towards photo-rechargeable lithium ion batteries. <i>Nature Communications</i> , 2017 , 8, 14643	17.4	112
321	Structure and electrochemistry of FePO ₄ ·2H ₂ O hydrate. <i>Journal of Power Sources</i> , 2005 , 142, 279-284	8.9	112
320	Thermal analysis of the oxidation of natural graphite Effect of particle size. <i>Thermochimica Acta</i> , 2000 , 351, 85-93	2.9	112
319	Compatibility of N-Methyl-N-propylpyrrolidinium Cation Room-Temperature Ionic Liquid Electrolytes and Graphite Electrodes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16708-16713	3.8	108
318	Polypyrrole-covered MnO ₂ as electrode material for supercapacitor. <i>Journal of Power Sources</i> , 2013 , 240, 267-272	8.9	107
317	Surface effects on electrochemical properties of nano-sized LiFePO ₄ . <i>Journal of Materials Chemistry</i> , 2011 , 21, 9955		105
316	Electrochemical and Thermal Studies of Carbon-Coated LiFePO ₄ Cathode. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A401	3.9	105
315	Effect of Graphite Particle Size on Irreversible Capacity Loss. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 2110	3.9	102
314	Optimized electrochemical performance of LiFePO ₄ at 60°C with purity controlled by SQUID magnetometry. <i>Journal of Power Sources</i> , 2006 , 163, 560-566	8.9	101
313	Advanced Electrodes for High Power Li-ion Batteries. <i>Materials</i> , 2013 , 6, 1028-1049	3.5	97
312	Aging of LiFePO ₄ upon exposure to H ₂ O. <i>Journal of Power Sources</i> , 2008 , 185, 698-710	8.9	96
311	Building Better Batteries in the Solid State: A Review. <i>Materials</i> , 2019 , 12,	3.5	95
310	A comprehensive review of lithium salts and beyond for rechargeable batteries: Progress and perspectives. <i>Materials Science and Engineering Reports</i> , 2018 , 134, 1-21	30.9	95
309	Brief History of Early Lithium-Battery Development. <i>Materials</i> , 2020 , 13,	3.5	93
308	An improved high-power battery with increased thermal operating range: C ₆ LiFePO ₄ /C ₆ Li ₄ Ti ₅ O ₁₂ . <i>Journal of Power Sources</i> , 2012 , 216, 192-200	8.9	93
307	In situ studies of SEI formation. <i>Journal of Power Sources</i> , 2001 , 97-98, 58-66	8.9	93
306	In operando scanning electron microscopy and ultraviolet-visible spectroscopy studies of lithium/sulfur cells using all solid-state polymer electrolyte. <i>Journal of Power Sources</i> , 2016 , 319, 247-254	8.9	92

305	Progress and Status of Hydrometallurgical and Direct Recycling of Li-Ion Batteries and Beyond. <i>Materials</i> , 2020 , 13,	3.5	86
304	Nano electronically conductive titanium-spinel as lithium ion storage negative electrode. <i>Journal of Power Sources</i> , 2004 , 126, 163-168	8.9	82
303	Lattice-Strain Engineering of Homogeneous NiS Se Core-Shell Nanostructure as a Highly Efficient and Robust Electrocatalyst for Overall Water Splitting. <i>Advanced Materials</i> , 2020 , 32, e2000231	24	79
302	Effect of nano LiFePO ₄ coating on LiMn _{1.5} Ni _{0.5} O ₄ 5V cathode for lithium ion batteries. <i>Journal of Power Sources</i> , 2012 , 204, 127-132	8.9	78
301	SiO _x /graphite as negative for high energy Li-ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 5667-5678.	8.9	78
300	Advances in lithium-sulfur batteries. <i>Materials Science and Engineering Reports</i> , 2017 , 121, 1-29	30.9	77
299	Lithium Batteries 2016 ,		76
298	From Solid-Solution Electrodes and the Rocking-Chair Concept to Today's Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 534-538	16.4	76
297	Li ₄ Ti ₅ O ₁₂ : A Visible-to-Infrared Broadband Electrochromic Material for Optical and Thermal Management. <i>Advanced Functional Materials</i> , 2018 , 28, 1802180	15.6	74
296	⁷ Li-Nuclear Magnetic Resonance Observation of Lithium Insertion into Mesocarbon Microbeads. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 1923-1930	3.9	74
295	Investigation of the reaction mechanism of lithium sulfur batteries in different electrolyte systems by in situ Raman spectroscopy and in situ X-ray diffraction. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 737-747	5.8	72
294	The effects of moisture contamination in the Li-O ₂ battery. <i>Journal of Power Sources</i> , 2014 , 268, 565-574.	8.9	72
293	High cycling stability of zinc-anode/conducting polymer rechargeable battery with non-aqueous electrolyte. <i>Journal of Power Sources</i> , 2014 , 248, 1099-1104	8.9	72
292	Enhanced thermal safety and high power performance of carbon-coated LiFePO ₄ olivine cathode for Li-ion batteries. <i>Journal of Power Sources</i> , 2012 , 219, 36-44	8.9	72
291	Sulfide and Oxide Inorganic Solid Electrolytes for All-Solid-State Li Batteries: A Review. <i>Nanomaterials</i> , 2020 , 10,	5.4	72
290	Understanding Rate-Limiting Mechanisms in LiFePO ₄ Cathodes for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A1185	3.9	70
289	Recent Progress on Organic Electrodes Materials for Rechargeable Batteries and Supercapacitors. <i>Materials</i> , 2019 , 12,	3.5	67
288	Lithium battery with solid polymer electrolyte based on comb-like copolymers. <i>Journal of Power Sources</i> , 2015 , 279, 372-383	8.9	67

287	Optimization of Layered Cathode Materials for Lithium-Ion Batteries. <i>Materials</i> , 2016 , 9,	3.5	65
286	Dual active material composite cathode structures for Li-ion batteries. <i>Journal of Power Sources</i> , 2008 , 177, 528-536	8.9	64
285	Structural studies of $\text{Li}_4/3\text{Me}_5/3\text{O}_4$ (Me = Ti, Mn) electrode materials: local structure and electrochemical aspects. <i>Journal of Power Sources</i> , 2004 , 136, 72-79	8.9	64
284	In situ Scanning electron microscope study and microstructural evolution of nano silicon anode for high energy Li-ion batteries. <i>Journal of Power Sources</i> , 2014 , 248, 457-464	8.9	63
283	High capacity and high density functional conductive polymer and SiO anode for high-energy lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 862-6	9.5	62
282	LiFePO ₄ /gel/natural graphite cells for the BATT program. <i>Journal of Power Sources</i> , 2003 , 119-121, 951-954	8.9	62
281	Purification process of natural graphite as anode for Li-ion batteries: chemical versus thermal. <i>Journal of Power Sources</i> , 2003 , 119-121, 8-15	8.9	61
280	LiFePO ₄ safe Li-ion polymer batteries for clean environment. <i>Journal of Power Sources</i> , 2005 , 146, 380-385	8.9	59
279	Nanosopic scale studies of LiFePO ₄ as cathode material in lithium-ion batteries for HEV application. <i>Ionics</i> , 2007 , 13, 395-411	2.7	58
278	Recent progress in sulfide-based solid electrolytes for Li-ion batteries. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016 , 213, 169-176	3.1	58
277	In Situ Scanning Electron Microscopy Detection of Carbide Nature of Dendrites in Li-Polymer Batteries. <i>Nano Letters</i> , 2018 , 18, 7583-7589	11.5	58
276	Nacre-Inspired Composite Electrolytes for Load-Bearing Solid-State Lithium-Metal Batteries. <i>Advanced Materials</i> , 2020 , 32, e1905517	24	57
275	Unravelling the role of Li ₂ S ₂ in lithium-sulfur batteries: A first principles study of its energetic and electronic properties. <i>Journal of Power Sources</i> , 2014 , 272, 518-521	8.9	56
274	Ambient-Air Stable Lithiated Anode for Rechargeable Li-Ion Batteries with High Energy Density. <i>Nano Letters</i> , 2016 , 16, 7235-7240	11.5	56
273	Synthesis of pure phase disordered $\text{LiMn}_{1.45}\text{Cr}_{0.1}\text{Ni}_{0.45}\text{O}_4$ by a post-annealing method. <i>Journal of Power Sources</i> , 2012 , 217, 400-406	8.9	55
272	Overview of olivines in lithium batteries for green transportation and energy storage. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 835-845	2.6	55
271	Electrochemical properties of nanofibers HMoO_3 as cathode materials for Li batteries. <i>Journal of Power Sources</i> , 2012 , 219, 126-132	8.9	54
270	Investigations on some electrochemical aspects of lithium-ion ionic liquid/gel polymer battery systems. <i>Journal of Solid State Electrochemistry</i> , 2009 , 13, 1003-1014	2.6	54

269	LiFePO ₄ : From molten ingot to nanoparticles with high-rate performance in Li-ion batteries. <i>Journal of Power Sources</i> , 2010 , 195, 8280-8288	8.9	54
268	Magnetic properties of LiNi _{0.5} Mn _{1.5} O ₄ spinels prepared by wet chemical methods. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 309, 100-105	2.8	54
267	Electrochemistry and local structure of nano-sized Li _{4/3} Me _{5/3} O ₄ (MeMn, Ti) spinels. <i>Electrochimica Acta</i> , 2004 , 50, 411-416	6.7	54
266	State of charge influence on thermal reactions and abuse tests in commercial lithium-ion cells. <i>Journal of Power Sources</i> , 2018 , 399, 392-397	8.9	53
265	High reversible capacities of graphite and SiO/graphite with solvent-free solid polymer electrolyte for lithium-ion batteries. <i>Journal of Power Sources</i> , 2008 , 185, 542-548	8.9	53
264	Can we detect Li K X-ray in lithium compounds using energy dispersive spectroscopy?. <i>Scanning</i> , 2016 , 38, 571-578	1.6	53
263	Behavior of Solid Electrolyte in Li-Polymer Battery with NMC Cathode via in-Situ Scanning Electron Microscopy. <i>Nano Letters</i> , 2020 , 20, 1607-1613	11.5	52
262	New advanced cathode material: LiMnPO ₄ encapsulated with LiFePO ₄ . <i>Journal of Power Sources</i> , 2012 , 204, 177-181	8.9	52
261	Effect of particle size on lithium intercalation rates in natural graphite. <i>Journal of Power Sources</i> , 2001 , 103, 140-146	8.9	52
260	⁷ Li - NMR of Well-Graphitized Vapor-Grown Carbon Fibers and Natural Graphite Negative Electrodes of Rechargeable Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 2784-2793	2.9	52
259	Solid-State Synthesis of 70 nm Li ₄ Ti ₅ O ₁₂ Particles by Mechanically Activating Intermediates with Amino Acids. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1522-1527	3.8	51
258	Carbon fibres and natural graphite as negative electrodes for lithium ion-type batteries. <i>Journal of Power Sources</i> , 1994 , 52, 55-59	8.9	51
257	Extraction of Layerwise Conductivities in Carbon-Enhanced, Multilayered LiFePO ₄ Cathodes. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1001	3.9	50
256	Transient existence of crystalline lithium disulfide Li ₂ S ₂ in a lithium-sulfur battery. <i>Journal of Power Sources</i> , 2016 , 325, 641-645	8.9	48
255	Theoretical investigation of Chevrel phase materials for cathodes accommodating Ca ²⁺ ions. <i>Journal of Power Sources</i> , 2016 , 306, 431-436	8.9	47
254	Etched colloidal LiFePO ₄ nanoplatelets toward high-rate capable Li-ion battery electrodes. <i>Nano Letters</i> , 2014 , 14, 6828-35	11.5	47
253	Capacity Fade Mechanism of Li ₄ Ti ₅ O ₁₂ Nanosheet Anode. <i>Advanced Energy Materials</i> , 2017 , 7, 1601825	21.8	47
252	In situ high-resolution transmission electron microscopy synthesis observation of nanostructured carbon coated LiFePO ₄ . <i>Journal of Power Sources</i> , 2011 , 196, 7383-7394	8.9	47

251	Safety of solid-state Li metal battery: Solid polymer versus liquid electrolyte. <i>Journal of Power Sources</i> , 2017 , 359, 182-185	8.9	46
250	High-Performance Manganese Hexacyanoferrate with Cubic Structure as Superior Cathode Material for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1908754	15.6	46
249	Electrochemical and thermal characterization of lithium titanate spinel anode in $\text{LiFePO}_4/\text{Li}_4\text{Ti}_5\text{O}_{12}$ cells at sub-zero temperatures. <i>Journal of Power Sources</i> , 2014 , 248, 1050-1057	8.9	46
248	Structural, magnetic and electrochemical properties of $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ as positive electrode for Li-ion batteries. <i>Electrochimica Acta</i> , 2007 , 52, 4092-4100	6.7	46
247	A Study on the Effect of Porosity and Particles Size Distribution on Li-Ion Battery Performance. <i>Journal of the Electrochemical Society</i> , 2017 , 164, E3179-E3189	3.9	45
246	Thermally stable, nano-porous and eco-friendly sodium alginate/attapulgite separator for lithium-ion batteries. <i>Energy Storage Materials</i> , 2019 , 22, 48-56	19.4	45
245	Tribute to Michel Armand: from Rocking Chair Li-ion to Solid-State Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 070507	3.9	45
244	Magnetic studies of the carbothermal effect on LiFePO_4 . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, R1-R3	1.6	44
243	Negative electrodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2002 , 110, 416-423	8.9	44
242	Toward high lithium conduction in solid polymer and polymer/ceramic batteries. <i>Current Opinion in Electrochemistry</i> , 2018 , 9, 56-63	7.2	42
241	Structure and electrochemistry of scaling nano LiFePO_4 synthesized by hydrothermal route: Complexing agent effect. <i>Journal of Power Sources</i> , 2012 , 214, 1-6	8.9	41
240	Cation exchange mediated elimination of the Fe-antisites in the hydrothermal synthesis of LiFePO_4 . <i>Nano Energy</i> , 2015 , 16, 256-267	17.1	40
239	Accelerated Removal of Fe-Antisite Defects while Nanosizing Hydrothermal LiFePO_4 with Ca^{2+} . <i>Nano Letters</i> , 2016 , 16, 2692-7	11.5	40
238	Key Challenges and Opportunities for Recycling Electric Vehicle Battery Materials. <i>Sustainability</i> , 2020 , 12, 5837	3.6	40
237	Structural and electronic properties of the LiNiPO_4 orthophosphate. <i>Ionics</i> , 2012 , 18, 625-633	2.7	39
236	Magnetic studies of phospho-olivine electrodes in relation with their electrochemical performance in Li-ion batteries. <i>Solid State Ionics</i> , 2008 , 179, 16-23	3.3	39
235	Facile fabrication of thin metal oxide films on porous carbon for high density charge storage. <i>Journal of Colloid and Interface Science</i> , 2020 , 562, 567-577	9.3	39
234	Comparative studies of the phase evolution in M-doped $\text{Li}_x\text{Mn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ (M = Co, Al, Cu and Mg) by in-situ X-ray diffraction. <i>Journal of Power Sources</i> , 2014 , 264, 290-298	8.9	37

233	The phase transition behaviors of $\text{Li}_{1-x}\text{Mn}_{0.5}\text{Fe}_{0.5}\text{PO}_4$ during lithium extraction studied by in situ X-ray absorption and diffraction techniques. <i>Electrochemistry Communications</i> , 2009 , 11, 2023-2026	5.1	37
232	Insertion properties of $\text{LiFe}_{0.5}\text{Mn}_{0.5}\text{PO}_4$ electrode materials for Li-ion batteries. <i>Ionics</i> , 2008 , 14, 371-376	7	37
231	Low-tortuosity and graded lithium ion battery cathodes by ice templating. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21421-21431	13	36
230	The Role of Metal Disulfide Interlayer in LiS Batteries. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1014-1023	9.23	36
229	Solid-to-liquid transition of polycarbonate solid electrolytes in Li-metal batteries. <i>Journal of Power Sources</i> , 2019 , 436, 226852	8.9	36
228	Stirring effect in hydrothermal synthesis of nano C-LiFePO ₄ . <i>Journal of Power Sources</i> , 2014 , 266, 99-106	8.9	36
227	Importance of open pore structures with mechanical integrity in designing the cathode electrode for lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2013 , 241, 554-559	8.9	35
226	Vapor-grown carbon fiber anode for cylindrical lithium ion rechargeable batteries. <i>Journal of Power Sources</i> , 1999 , 77, 110-115	8.9	35
225	In situ observation of solid electrolyte interphase evolution in a lithium metal battery. <i>Communications Chemistry</i> , 2019 , 2,	6.3	35
224	$\text{Li}_4\text{Ti}_5\text{O}_{12}$ and LiMn_2O_4 thin-film electrodes on transparent conducting oxides for all-solid-state and electrochromic applications. <i>Journal of Power Sources</i> , 2016 , 301, 35-40	8.9	34
223	Anode Performance of Vapor-Grown Carbon Fibers in Secondary Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 1090-1096	3.9	34
222	New insight in the electrochemical behaviour of stainless steel electrode in water-in-salt electrolyte. <i>Journal of Power Sources</i> , 2018 , 399, 299-303	8.9	33
221	Ultra-low cost and highly stable hydrated FePO_4 anodes for aqueous sodium-ion battery. <i>Journal of Power Sources</i> , 2018 , 374, 211-216	8.9	32
220	Structural properties and electrochemistry of LiFeO_2 . <i>Journal of Power Sources</i> , 2012 , 197, 285-291	8.9	31
219	Electrospun ceramic nanofibers as 1D solid electrolytes for lithium batteries. <i>Electrochemistry Communications</i> , 2019 , 104, 106483	5.1	30
218	Thermal analysis of the oxidation of natural graphite: isothermal kinetic studies. <i>Thermochimica Acta</i> , 2001 , 371, 57-64	2.9	30
217	Density functional theory insights into the structural stability and Li diffusion properties of monoclinic and orthorhombic $\text{Li}_2\text{FeSiO}_4$ cathodes. <i>Journal of Power Sources</i> , 2016 , 318, 136-145	8.9	30
216	A platinum nanolayer on lithium metal as an interfacial barrier to shuttle effect in Li-S batteries. <i>Journal of Power Sources</i> , 2019 , 427, 201-206	8.9	29

215	Rate-dependent phase transitions in Li ₂ FeSiO ₄ cathode nanocrystals. <i>Scientific Reports</i> , 2015 , 5, 8599	4.9	29
214	Insights into pseudographite-structured hard carbon with stabilized performance for high energy K-ion storage. <i>Journal of Power Sources</i> , 2019 , 444, 227310	8.9	29
213	Enhanced Electrochemical Properties of LiFePO ₄ as Positive Electrode of Li-Ion Batteries for HEV Application. <i>Advances in Chemical Engineering and Science</i> , 2012 , 02, 321-329	0.4	29
212	Effect of particle morphology on lithium intercalation rates in natural graphite. <i>Journal of Power Sources</i> , 2003 , 124, 505-512	8.9	29
211	Facile dry synthesis of sulfur-LiFePO ₄ core-shell composite for the scalable fabrication of lithium/sulfur batteries. <i>Electrochemistry Communications</i> , 2013 , 32, 35-38	5.1	28
210	Synthesis of phase-pure Li ₂ MnSiO ₄ @C porous nanoboxes for high-capacity Li-ion battery cathodes. <i>Nano Energy</i> , 2015 , 12, 305-313	17.1	28
209	Electronic Structure of the Electrochemically Delithiated Li _{1-x} FePO ₄ Electrodes Investigated by P K-edge X-Ray Absorption Spectroscopy. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A415		28
208	Discovering the Influence of Lithium Loss on Garnet Li ₇ La ₃ Zr ₂ O ₁₂ Electrolyte Phase Stability. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3415-3424	6.1	27
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