Abdelbast

List of Publications by Year
in descending order

42 papers	1,918 citations	257450 24 h-index	265206 42 g-index
42 all docs	42 docs citations	42 times ranked	3000 citing authors

#	ARTICLE	IF	CITATIONS
1	Unveiling the Cation Exchange Reaction between the NASICON Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ Solid Electrolyte and the pyr13TFSI Ionic Liquid. Journal of the American Chemical Society, 2022, 144, 3442-3448.	13.7	15
2	Largeâ€Area Electrochromic Devices on Flexible Polymer Substrates with High Optical Contrast and Enhanced Cycling Stability. Advanced Materials Technologies, 2021, 6, 2000836.	5.8	30
3	Enabling Highâ€Performance NASICONâ€Based Solidâ€State Lithium Metal Batteries Towards Practical Conditions. Advanced Functional Materials, 2021, 31, 2102765.	14.9	32
4	Direct observation of lithium metal dendrites with ceramic solid electrolyte. Scientific Reports, 2020, 10, 18410.	3.3	45
5	Lithium Anodes: Understanding the Reactivity of a Thin Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ Solidâ€State Electrolyte toward Metallic Lithium Anode (Adv. Energy Mater. 32/2020). Advanced Energy Materials, 2020, 10, 2070136.	19.5	2
6	Toward an Allâ€Ceramic Cathodeâ€“Electrolyte Interface with Lowâ€Temperature Pressed NASICON Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ Electrolyte. Advanced Materials Interfaces, 2020, 7, 2000164.	3.7	17
7	Hot Press Method: Toward an Allâ€Ceramic Cathodeâ€“Electrolyte Interface with Lowâ€Temperature Pressed NASICON Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ Electrolyte (Adv. Mater. Interfaces 12/2020). Advanced Materials Interfaces, 2020, 7, 2070069.	3.7	1
8	Understanding the Reactivity of a Thin Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ Solidâ€State Electrolyte toward Metallic Lithium Anode. Advanced Energy Materials, 2020, 10, 2001497.	19.5	49
9	Discovering the Influence of Lithium Loss on Garnet Li₇La₃Zr₂O₁₂ Electrolyte Phase Stability. ACS Applied Energy Materials, 2020, 3, 3415-3424.	5.1	49
10	Behavior of Solid Electrolyte in Li-Polymer Battery with NMC Cathode via in-Situ Scanning Electron Microscopy. Nano Letters, 2020, 20, 1607-1613.	9.1	85
11	Reviewâ€”Li-Ion Photo-Batteries: Challenges and Opportunities. Journal of the Electrochemical Society, 2020, 167, 120545.	2.9	26
12	Solid-to-liquid transition of polycarbonate solid electrolytes in Li-metal batteries. Journal of Power Sources, 2019, 436, 226852.	7.8	61
13	Amphiphilic latex as a water-based binder for LiFePO4 cathode. Journal of Power Sources, 2019, 415, 172-178.	7.8	18
14	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.	7.8	36
15	Electrospun ceramic nanofibers as 1D solid electrolytes for lithium batteries. Electrochemistry Communications, 2019, 104, 106483.	4.7	46
16	Enhancing the electrochemical performance of an O3â€“NaCrO2 cathode in sodium-ion batteries by cation substitution. Journal of Power Sources, 2019, 435, 226760.	7.8	24
17	Facile Protection of Lithium Metal for Allâ€Solidâ€State Batteries. ChemistryOpen, 2019, 8, 192-195.	1.9	21
18	In situ observation of solid electrolyte interphase evolution in a lithium metal battery. Communications Chemistry, 2019, 2, .	4.5	52

#	Article	IF	Citations
19	High-Capacity and Long-Cycle Life Aqueous Rechargeable Lithium-Ion Battery with the FePO₄ Anode. ACS Applied Materials & Interfaces, 2018, 10, 7061-7068.	8.0	34
20	Layered oxides-LiNi1/3Co1/3Mn1/3O2 as anode electrode for symmetric rechargeable lithium-ion batteries. Journal of Power Sources, 2018, 378, 516-521.	7.8	24
21	The Role of Metal Disulfide Interlayer in Liâ€“S Batteries. Journal of Physical Chemistry C, 2018, 122, 1014-1023.	3.1	40
22	Ultra-low cost and highly stable hydrated FePO 4 anodes for aqueous sodium-ion battery. Journal of Power Sources, 2018, 374, 211-216.	7.8	44
23	High Capacity and High Efficiency Maple Tree-Biomass-Derived Hard Carbon as an Anode Material for Sodium-Ion Batteries. Materials, 2018, 11, 1294.	2.9	34
24	A review on hexacyanoferrate-based materials for energy storage and smart windows: challenges and perspectives. Journal of Materials Chemistry A, 2017, 5, 18919-18932.	10.3	235
25	Alkaline aqueous electrolytes for secondary zinc-air batteries: an overview. International Journal of Energy Research, 2016, 40, 1032-1049.	4.5	226
26	In operando scanning electron microscopy and ultravioletâ€“visible spectroscopy studies of lithium/sulfur cells using all solid-state polymer electrolyte. Journal of Power Sources, 2016, 319, 247-254.	7.8	118
27	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.	3.5	11
28	Accelerated Removal of Fe-Antisite Defects while Nanosizing Hydrothermal LiFePO₄ with Ca²⁺. Nano Letters, 2016, 16, 2692-2697.	9.1	52
29	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.	7.8	44
30	Synthesis and characterization of a new family of aryl-trifluoromethanesulfonylimide Li-Salts for Li-ion batteries and beyond. Journal of Power Sources, 2015, 293, 78-88.	7.8	11
31	Lithium battery with solid polymer electrolyte based on comb-like copolymers. Journal of Power Sources, 2015, 279, 372-383.	7.8	77
32	Cation exchange mediated elimination of the Fe-antisites in the hydrothermal synthesis of LiFePO4. Nano Energy, 2015, 16, 256-267.	16.0	54
33	Power capability of LiTDI-based electrolytes for lithium-ion batteries. Journal of Power Sources, 2015, 294, 507-515.	7.8	14
34	Silicon as anode for high-energy lithium ion batteries: From molten ingot to nanoparticles. Journal of Power Sources, 2015, 299, 529-536.	7.8	24
35	Determination of the electrochemical performance and stability of the lithium-salt, lithium 4,5-dicyano-2-(trifluoromethyl) imidazolide, with various anodes in Li-ion cells. Journal of Power Sources, 2015, 299, 309-314.	7.8	12
36	Silylated quaternary ammonium salts â€“ ionic liquids with hydrophobic cations. Journal of Materials Chemistry A, 2014, 2, 15964-15971.	10.3	5

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37	Evaluation of lithium ion cells with titanate negative electrodes and iron phosphate positive electrode for startâ€“stop applications. Journal of Power Sources, 2014, 256, 288-293.	7.8	14
38	Aqueous Synthesized Nanostructured Li₄Ti₅O₁₂for High-Performance Lithium Ion Battery Anodes. Journal of the Electrochemical Society, 2013, 160, A3041-A3047.	2.9	19
39	Redox Behaviors of Ni and Cr with Different Counter Cations in Spinel Cathodes for Li-Ion Batteries. Journal of the Electrochemical Society, 2010, 157, A770.	2.9	20
40	Solidâ€State Synthesis of 70 nm Li₄Ti₅O₁₂ Particles by Mechanically Activating Intermediates with Amino Acids. Journal of the American Ceramic Society, 2008, 91, 1522-1527.	3.8	54
41	Compatibility of <i>N</i>-Methyl-<i>N</i>-propylpyrrolidinium Cation Room-Temperature Ionic Liquid Electrolytes and Graphite Electrodes. Journal of Physical Chemistry C, 2008, 112, 16708-16713.	3.1	115
42	Effect of heat-treatment and additives on the particles and carbon fibers as anodes for lithium-ion batteries. Journal of Power Sources, 2002, 108, 86-96.	7.8	28