

Juchuan Li

List of Publications by Year in descending order

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42
papers

5,580
citations

159585

30
h-index

276875

41
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42
all docs

42
docs citations

42
times ranked

8221
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon-Based Nanomaterials for Lithium-Ion Batteries: A Review. <i>Advanced Energy Materials</i> , 2014, 4, 1300882.	19.5	1,250
2	Solid Electrolyte: the Key for High-Voltage Lithium Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1401408.	19.5	544
3	The Effect of Fluoroethylene Carbonate as an Additive on the Solid Electrolyte Interphase on Silicon Lithium-Ion Electrodes. <i>Chemistry of Materials</i> , 2015, 27, 5531-5542.	6.7	347
4	Air-stable, high-conduction solid electrolytes of arsenic-substituted Li_4SnS_4 . <i>Energy and Environmental Science</i> , 2014, 7, 1053-1058.	30.8	326
5	Interfacial Stability of Li Metal-Solid Electrolyte Elucidated via in Situ Electron Microscopy. <i>Nano Letters</i> , 2016, 16, 7030-7036.	9.1	309
6	In Situ STEM-EELS Observation of Nanoscale Interfacial Phenomena in All-Solid-State Batteries. <i>Nano Letters</i> , 2016, 16, 3760-3767.	9.1	278
7	Compatibility issues between electrodes and electrolytes in solid-state batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1150-1166.	30.8	267
8	Crack Pattern Formation in Thin Film Lithium-Ion Battery Electrodes. <i>Journal of the Electrochemical Society</i> , 2011, 158, A689.	2.9	242
9	High magnesium mobility in ternary spinel chalcogenides. <i>Nature Communications</i> , 2017, 8, 1759.	12.8	212
10	Liquid Metal Alloys as Self-Healing Negative Electrodes for Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2011, 158, A845.	2.9	144
11	Artificial Solid Electrolyte Interphase To Address the Electrochemical Degradation of Silicon Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10083-10088.	8.0	141
12	Potentiostatic Intermittent Titration Technique for Electrodes Governed by Diffusion and Interfacial Reaction. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1472-1478.	3.1	119
13	Aligned TiO ₂ Nanotube Arrays As Durable Lithium-Ion Battery Negative Electrodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18669-18677.	3.1	111
14	Electrochemical Study of Functionalized Carbon Nano-Onions for High-Performance Supercapacitor Electrodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15068-15075.	3.1	105
15	Using all energy in a battery. <i>Science</i> , 2015, 347, 131-132.	12.6	99
16	Atomic Layered Coating Enabling Ultrafast Surface Kinetics at Silicon Electrodes in Lithium Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3387-3391.	4.6	84
17	Lithium-Ion Batteries: Solid Electrolyte: the Key for High-Voltage Lithium Batteries (<i>Adv. Energy Mater.</i>)	19.5	82
18	Nanocomposite of N-Doped TiO ₂ Nanorods and Graphene as an Effective Electrocatalyst for the Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21978-21985.	8.0	76

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19	An Artificial Solid Electrolyte Interphase Enables the Use of a $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ 5 V Cathode with Conventional Electrolytes. <i>Advanced Energy Materials</i> , 2013, 3, 1275-1278.	19.5	75
20	Pushing the Theoretical Limit of Li-CF_x Batteries: A Tale of Bifunctional Electrolyte. <i>Journal of the American Chemical Society</i> , 2014, 136, 6874-6877.	13.7	70
21	A high-conduction Ge substituted Li_3AsS_4 solid electrolyte with exceptional low activation energy. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10396-10403.	10.3	67
22	Unravelling the Impact of Reaction Paths on Mechanical Degradation of Intercalation Cathodes for Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2015, 137, 13732-13735.	13.7	61
23	Effects of stress on lithium transport in amorphous silicon electrodes for lithium-ion batteries. <i>Nano Energy</i> , 2015, 13, 192-199.	16.0	58
24	Potentiostatic intermittent titration technique (PITT) for spherical particles with finite interfacial kinetics. <i>Electrochimica Acta</i> , 2012, 75, 56-61.	5.2	53
25	One-pot synthesis of novel $\text{Fe}_3\text{O}_4/\text{Cu}_2\text{O}/\text{PANI}$ nanocomposites as absorbents in water treatment. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7953.	10.3	51
26	A cellulose nanocrystal-based composite electrolyte with superior dimensional stability for alkaline fuel cell membranes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13350-13356.	10.3	51
27	Asymmetric Rate Behavior of Si Anodes for Lithium-Ion Batteries: Ultrafast De-lithiation versus Sluggish Lithiation at High Current Densities. <i>Advanced Energy Materials</i> , 2015, 5, 1401627.	19.5	50
28	Mesoscopic Framework Enables Facile Ionic Transport in Solid Electrolytes for Li Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600053.	19.5	46
29	The possibility of forming a sacrificial anode coating for Mg. <i>Corrosion Science</i> , 2014, 87, 11-14.	6.6	35
30	Porous $\text{Fe}_3\text{O}_4/\text{Cu}/\text{PANI}$ nanosheets with excellent microwave absorption and hydrophobic property. <i>Materials Research Bulletin</i> , 2014, 53, 58-64.	5.2	30
31	Practical, cost-effective and large-scale production of nitrogen-doped porous carbon particles and their use as metal-free electrocatalysts for oxygen reduction. <i>Electrochimica Acta</i> , 2015, 165, 29-35.	5.2	26
32	Whisker formation on a thin film tin lithium-ion battery anode. <i>Journal of Power Sources</i> , 2011, 196, 1474-1477.	7.8	25
33	A one-pot hydrothermal synthesis of 3D nitrogen-doped graphene aerogels-supported NiS_2 nanoparticles as efficient electrocatalysts for the oxygen-reduction reaction. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	23
34	Lattice-Cell Orientation Disorder in Complex Spinel Oxides. <i>Advanced Energy Materials</i> , 2017, 7, 1601950.	19.5	21
35	Supramolecular self-assembly of three-dimensional polyaniline and polypyrrole crystals. <i>Chemical Communications</i> , 2014, 50, 12757-12760.	4.1	20
36	In situ stress measurements during electrochemical cycling of lithium-rich cathodes. <i>Journal of Power Sources</i> , 2017, 364, 383-391.	7.8	18

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37	Stacked-cup-type MWCNTs as highly stable lithium-ion battery anodes. Journal of Applied Electrochemistry, 2014, 44, 179-187.	2.9	15
38	Oxidation-resistant, solution-processed plasmonic Ni nanochain-SiO _x (x ≈ 1.2) selective solar thermal absorbers. Journal of Applied Physics, 2014, 116, .	2.5	15
39	Ordered Macroporous CdS-sensitized N-doped TiO ₂ Inverse Opals Films with Enhanced Photoelectrochemical Performance. Electrochimica Acta, 2014, 146, 378-385.	5.2	15
40	PANI-Sensitized N-TiO ₂ Inverse Opals with Enhanced Photoelectrochemical Performance and Photocatalytic Activity. Journal of the Electrochemical Society, 2014, 161, H332-H336.	2.9	14
41	The search for high cycle life, high capacity, self healing negative electrodes for lithium ion batteries and a potential solution based on lithiated gallium. Materials Research Society Symposia Proceedings, 2011, 1333, 50401.	0.1	5
42	Energy Storage: Lattice Cell Orientation Disorder in Complex Spinel Oxides (Adv. Energy Mater. 4/2017). Advanced Energy Materials, 2017, 7, .	19.5	0