Xilin Chen

List of Publications by Year
in descending order

39 papers	11,116 citations	136950 32 h-index	302126 39 g-index
39 all docs	39 docs citations	39 times ranked	12601 citing authors

#	Article	IF	Citations
1	Lithium metal anodes for rechargeable batteries. Energy and Environmental Science, 2014, 7, 513-537.	30.8	3,665
2	Dendrite-Free Lithium Deposition via Self-Healing Electrostatic Shield Mechanism. Journal of the American Chemical Society, 2013, 135, 4450-4456.	13.7	1,736
3	Mesoporous silicon sponge as an anti-pulverization structure for high-performance lithium-ion battery anodes. Nature Communications, 2014, 5, 4105.	12.8	1,160
4	Highâ€Performance LiNi_{0.5}Mn_{1.5}O₄ Spinel Controlled by Mn³⁺ Concentration and Site Disorder. Advanced Materials, 2012, 24, 2109-2116.	21.0	434
5	Cyclability study of siliconâ€“carbon composite anodes for lithium-ion batteries using electrochemical impedance spectroscopy. Electrochimica Acta, 2011, 56, 3981-3987.	5.2	374
6	Dendrite-Free Lithium Deposition with Self-Aligned Nanorod Structure. Nano Letters, 2014, 14, 6889-6896.	9.1	326
7	Hollow coreâ€“shell structured porous Siâ€“C nanocomposites for Li-ion battery anodes. Journal of Materials Chemistry, 2012, 22, 11014.	6.7	280
8	Demonstration of an Electrochemical Liquid Cell for Operando Transmission Electron Microscopy Observation of the Lithiation/Delithiation Behavior of Si Nanowire Battery Anodes. Nano Letters, 2013, 13, 6106-6112.	9.1	265
9	Effects of Carbonate Solvents and Lithium Salts on Morphology and Coulombic Efficiency of Lithium Electrode. Journal of the Electrochemical Society, 2013, 160, A1894-A1901.	2.9	260
10	Surface-Driven Sodium Ion Energy Storage in Nanocellular Carbon Foams. Nano Letters, 2013, 13, 3909-3914.	9.1	245
11	Virus-Enabled Silicon Anode for Lithium-Ion Batteries. ACS Nano, 2010, 4, 5366-5372.	14.6	228
12	A facile approach using MgCl2 to formulate high performance Mg2+ electrolytes for rechargeable Mg batteries. Journal of Materials Chemistry A, 2014, 2, 3430.	10.3	197
13	Enhanced charging capability of lithium metal batteries based on lithium bis(trifluoromethanesulfonyl)imide-lithium bis(oxalato)borate dual-salt electrolytes. Journal of Power Sources, 2016, 318, 170-177.	7.8	186
14	Enhanced Li+ ion transport in LiNi0.5Mn1.5O4 through control of site disorder. Physical Chemistry Chemical Physics, 2012, 14, 13515.	2.8	167
15	Conductive Rigid Skeleton Supported Silicon as High-Performance Li-Ion Battery Anodes. Nano Letters, 2012, 12, 4124-4130.	9.1	160
16	Carbon scaffold structured silicon anodes for lithium-ion batteries. Journal of Materials Chemistry, 2010, 20, 5035.	6.7	136
17	Enhanced performance of graphite anode materials by AlF3 coating for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 12745.	6.7	129
18	Reduction Mechanism of Fluoroethylene Carbonate for Stable Solidâ€“Electrolyte Interphase Film on Silicon Anode. ChemSusChem, 2014, 7, 549-554.	6.8	126

#	Article	IF	Citations
19	A Patterned 3D Silicon Anode Fabricated by Electrodeposition on a Virus-Structured Current Collector. Advanced Functional Materials, 2011, 21, 380-387.	14.9	125
20	Effects of Cesium Cations in Lithium Deposition via Self-Healing Electrostatic Shield Mechanism. Journal of Physical Chemistry C, 2014, 118, 4043-4049.	3.1	117
21	Mixed salts of LiTFSI and LiBOB for stable LiFePO4-based batteries at elevated temperatures. Journal of Materials Chemistry A, 2014, 2, 2346.	10.3	85
22	An Electrically Switchable Metal-Organic Framework. Scientific Reports, 2014, 4, 6114.	3.3	70
23	Reinvestigation on the state-of-the-art nonaqueous carbonate electrolytes for 5ÂV Li-ion battery applications. Journal of Power Sources, 2012, 213, 304-316.	7.8	69
24	Self-assembled Ni/TiO2 nanocomposite anodes synthesized via electroless plating and atomic layer deposition on biological scaffolds. Chemical Communications, 2010, 46, 7349.	4.1	60
25	Surface and structural stabilities of carbon additives in high voltage lithium ion batteries. Journal of Power Sources, 2013, 227, 211-217.	7.8	55
26	Simply AlF3-treated Li4Ti5O12 composite anode materials for stable and ultrahigh power lithium-ion batteries. Journal of Power Sources, 2013, 236, 169-174.	7.8	51
27	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.	2.9	50
28	Hybrid CFxâ€“Ag2V4O11 as a high-energy, power density cathode for application in an underwater acoustic microtransmitter. Electrochemistry Communications, 2011, 13, 1344-1344.	4.7	45
29	High rate performance of virus enabled 3D n-type Si anodes for lithium-ion batteries. Electrochimica Acta, 2011, 56, 5210-5213.	5.2	45
30	In-Situ Electrochemical Transmission Electron Microscopy for Battery Research. Microscopy and Microanalysis, 2014, 20, 484-492.	0.4	45
31	Effects of cell positive cans and separators on the performance of high-voltage Li-ion batteries. Journal of Power Sources, 2012, 213, 160-168.	7.8	44
32	3D tin anodes prepared by electrodeposition on a virus scaffold. Journal of Power Sources, 2012, 211, 129-132.	7.8	37
33	Enhanced performance of Li|LiFePO4 cells using CsPF6 as an electrolyte additive. Journal of Power Sources, 2015, 293, 1062-1067.	7.8	29
34	Micro-battery Development for Juvenile Salmon Acoustic Telemetry System Applications. Scientific Reports, 2014, 4, 3790.	3.3	25
35	Interplay between two-phase and solid solution reactions in high voltage spinel cathode material for lithium ion batteries. Journal of Power Sources, 2013, 242, 736-741.	7.8	24
36	In situ 7Li and 133Cs nuclear magnetic resonance investigations on the role of Cs+ additive in lithium-metal deposition process. Journal of Power Sources, 2016, 304, 51-59.	7.8	20

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37	The Effect of Entropy and Enthalpy Changes on the Thermal Behavior of Li-Mn-Rich Layered Composite Cathode Materials. Journal of the Electrochemical Society, 2016, 163, A571-A577.	2.9	19
38	Solid state protonic conductor NH4PO3â€“(NH4)2Mn(PO3)4 for intermediate temperature fuel cells. Electrochimica Acta, 2006, 51, 6542-6547.	5.2	18
39	Water effect on the conductivity behavior of NH4PO3-based electrolytes for intermediate temperature fuel cells. Electrochimica Acta, 2007, 52, 7835-7840.	5.2	9