

# Xilin Chen

## List of Publications by Year in descending order

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39  
papers

11,116  
citations

136740

32  
h-index

301761

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. <i>Energy and Environmental Science</i> , 2014, 7, 513-537.	15.6	3,665
2	Dendrite-Free Lithium Deposition via Self-Healing Electrostatic Shield Mechanism. <i>Journal of the American Chemical Society</i> , 2013, 135, 4450-4456.	6.6	1,736
3	Mesoporous silicon sponge as an anti-pulverization structure for high-performance lithium-ion battery anodes. <i>Nature Communications</i> , 2014, 5, 4105.	5.8	1,160
4	High-Performance $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Spinel Controlled by $\text{Mn}^{3+}$ Concentration and Site Disorder. <i>Advanced Materials</i> , 2012, 24, 2109-2116.	11.1	434
5	Cyclability study of silicon-carbon composite anodes for lithium-ion batteries using electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2011, 56, 3981-3987.	2.6	374
6	Dendrite-Free Lithium Deposition with Self-Aligned Nanorod Structure. <i>Nano Letters</i> , 2014, 14, 6889-6896.	4.5	326
7	Hollow core-shell structured porous Si-C nanocomposites for Li-ion battery anodes. <i>Journal of Materials Chemistry</i> , 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. <i>Nano Letters</i> , 2013, 13, 6106-6112.	4.5	265
9	Effects of Carbonate Solvents and Lithium Salts on Morphology and Coulombic Efficiency of Lithium Electrode. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1894-A1901.	1.3	260
10	Surface-Driven Sodium Ion Energy Storage in Nanocellular Carbon Foams. <i>Nano Letters</i> , 2013, 13, 3909-3914.	4.5	245
11	Virus-Enabled Silicon Anode for Lithium-Ion Batteries. <i>ACS Nano</i> , 2010, 4, 5366-5372.	7.3	228
12	A facile approach using $\text{MgCl}_2$ to formulate high performance $\text{Mg}^{2+}$ electrolytes for rechargeable Mg batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3430.	5.2	197
13	Enhanced charging capability of lithium metal batteries based on lithium bis(trifluoromethanesulfonyl)imide-lithium bis(oxalato)borate dual-salt electrolytes. <i>Journal of Power Sources</i> , 2016, 318, 170-177.	4.0	186
14	Enhanced $\text{Li}^+$ ion transport in $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ through control of site disorder. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13515.	1.3	167
15	Conductive Rigid Skeleton Supported Silicon as High-Performance Li-Ion Battery Anodes. <i>Nano Letters</i> , 2012, 12, 4124-4130.	4.5	160
16	Carbon scaffold structured silicon anodes for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 5035.	6.7	136
17	Enhanced performance of graphite anode materials by $\text{AlF}_3$ coating for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 12745.	6.7	129
18	Reduction Mechanism of Fluoroethylene Carbonate for Stable Solid-Electrolyte Interphase Film on Silicon Anode. <i>ChemSusChem</i> , 2014, 7, 549-554.	3.6	126

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19	A Patterned 3D Silicon Anode Fabricated by Electrodeposition on a Virus-Structured Current Collector. <i>Advanced Functional Materials</i> , 2011, 21, 380-387.	7.8	125
20	Effects of Cesium Cations in Lithium Deposition via Self-Healing Electrostatic Shield Mechanism. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4043-4049.	1.5	117
21	Mixed salts of LiTFSI and LiBOB for stable LiFePO <sub>4</sub> -based batteries at elevated temperatures. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2346.	5.2	85
22	An Electrically Switchable Metal-Organic Framework. <i>Scientific Reports</i> , 2014, 4, 6114.	1.6	70
23	Reinvestigation on the state-of-the-art nonaqueous carbonate electrolytes for 5V Li-ion battery applications. <i>Journal of Power Sources</i> , 2012, 213, 304-316.	4.0	69
24	Self-assembled Ni/TiO <sub>2</sub> nanocomposite anodes synthesized via electroless plating and atomic layer deposition on biological scaffolds. <i>Chemical Communications</i> , 2010, 46, 7349.	2.2	60
25	Surface and structural stabilities of carbon additives in high voltage lithium ion batteries. <i>Journal of Power Sources</i> , 2013, 227, 211-217.	4.0	55
26	Simply AlF <sub>3</sub> -treated Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> composite anode materials for stable and ultrahigh power lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 236, 169-174.	4.0	51
27	An Oxide Ion and Proton Co-Ion Conducting Sn <sub>0.9</sub> In <sub>0.1</sub> P <sub>2</sub> O <sub>7</sub> Electrolyte for Intermediate-Temperature Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2008, 155, B1264.	1.3	50
28	Hybrid CFx@Ag <sub>2</sub> V <sub>4</sub> O <sub>11</sub> as a high-energy, power density cathode for application in an underwater acoustic microtransmitter. <i>Electrochemistry Communications</i> , 2011, 13, 1344-1344.	2.3	45
29	High rate performance of virus enabled 3D n-type Si anodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2011, 56, 5210-5213.	2.6	45
30	<i>In-Situ</i> Electrochemical Transmission Electron Microscopy for Battery Research. <i>Microscopy and Microanalysis</i> , 2014, 20, 484-492.	0.2	45
31	Effects of cell positive cans and separators on the performance of high-voltage Li-ion batteries. <i>Journal of Power Sources</i> , 2012, 213, 160-168.	4.0	44
32	3D tin anodes prepared by electrodeposition on a virus scaffold. <i>Journal of Power Sources</i> , 2012, 211, 129-132.	4.0	37
33	Enhanced performance of Li LiFePO <sub>4</sub> cells using CsPF <sub>6</sub> as an electrolyte additive. <i>Journal of Power Sources</i> , 2015, 293, 1062-1067.	4.0	29
34	Micro-battery Development for Juvenile Salmon Acoustic Telemetry System Applications. <i>Scientific Reports</i> , 2014, 4, 3790.	1.6	25
35	Interplay between two-phase and solid solution reactions in high voltage spinel cathode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2013, 242, 736-741.	4.0	24
36	In situ <sup>7</sup> Li and <sup>133</sup> Cs nuclear magnetic resonance investigations on the role of Cs <sup>+</sup> additive in lithium-metal deposition process. <i>Journal of Power Sources</i> , 2016, 304, 51-59.	4.0	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. <i>Journal of the Electrochemical Society</i> , 2016, 163, A571-A577.	1.3	19
38	Solid state protonic conductor $\text{NH}_4\text{PO}_3 \cdot (\text{NH}_4)_2\text{Mn}(\text{PO}_3)_4$ for intermediate temperature fuel cells. <i>Electrochimica Acta</i> , 2006, 51, 6542-6547.	2.6	18
39	Water effect on the conductivity behavior of $\text{NH}_4\text{PO}_3$ -based electrolytes for intermediate temperature fuel cells. <i>Electrochimica Acta</i> , 2007, 52, 7835-7840.	2.6	9