Feng Wu

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310 papers	13,075 citations	66 h-index	99 g-index
325 ext. papers	16,948 ext. citations	11.1 avg, IF	7.03 L-index

#	Paper	IF	Citations
310	The pursuit of solid-state electrolytes for lithium batteries: from comprehensive insight to emerging horizons. *Materials Horizons*, **2016**, 3, 487-516	14.4	414
309	Sustainable Recycling Technology for Li-Ion Batteries and Beyond: Challenges and Future Prospects. *Chemical Reviews*, **2020**, 120, 7020-7063	68.1	358
308	Sustainable nitrogen-doped porous carbon with high surface areas prepared from gelatin for supercapacitors. *Journal of Materials Chemistry*, **2012**, 22, 19088		331
307	Ni-Rich LiNiCoMnO Oxide Coated by Dual-Conductive Layers as High Performance Cathode Material for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 29732-29743	9.5	224
306	Effect of Ni(2+) content on lithium/nickel disorder for Ni-rich cathode materials. *ACS Applied Materials & Interfaces*, **2015**, 7, 7702-8	9.5	223
305	Spinel/layered heterostructured cathode material for high-capacity and high-rate Li-ion batteries. *Advanced Materials*, **2013**, 25, 3722-6	24	222
304	Effects of Mg doping on the remarkably enhanced electrochemical performance of Na3V2(PO4)3 cathode materials for sodium ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 9578-9586	13	197
303	Ultrathin spinel membrane-encapsulated layered lithium-rich cathode material for advanced Li-ion batteries. *Nano Letters*, **2014**, 14, 3550-5	11.5	197
302	Electrochemically activated spinel manganese oxide for rechargeable aqueous aluminum battery. *Nature Communications*, **2019**, 10, 73	17.4	169
301	Nitrogen-Rich Mesoporous Carbon as Anode Material for High-Performance Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 27124-30	9.5	168
300	Process for recycling mixed-cathode materials from spent lithium-ion batteries and kinetics of leaching. *Waste Management*, **2018**, 71, 362-371	8.6	163
299	Improvement of Rate and Cycle Performence by Rapid Polyaniline Coating of a MWCNT/Sulfur Cathode. *Journal of Physical Chemistry C*, **2011**, 115, 24411-24417	3.8	162
298	Multifunctional AlPO4 coating for improving electrochemical properties of low-cost Li[Li0.2Fe0.1Ni0.15Mn0.55]O2 cathode materials for lithium-ion batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 3773-81	9.5	160
297	Biomimetic ant-nest ionogel electrolyte boosts the performance of dendrite-free lithium batteries. *Energy and Environmental Science*, **2017**, 10, 1660-1667	35.4	157
296	An effective approach to protect lithium anode and improve cycle performance for Li-S batteries. *ACS Applied Materials & Interfaces*, **2014**, 6, 15542-9	9.5	143
295	Electrolytes and Electrolyte/Electrode Interfaces in Sodium-Ion Batteries: From Scientific Research to Practical Application. *Advanced Materials*, **2019**, 31, e1808393	24	141
294	Paving the Path toward Reliable Cathode Materials for Aluminum-Ion Batteries. *Advanced Materials* , **2019**, 31, e1806510	24	138

293	The Recycling of Spent Lithium-Ion Batteries: a Review of Current Processes and Technologies. *Electrochemical Energy Reviews*, **2018**, 1, 461-482	29.3	131
292	Anion-effects on electrochemical properties of ionic liquid electrolytes for rechargeable aluminum batteries. *Journal of Materials Chemistry A*, **2015**, 3, 22677-22686	13	129
291	3D-0D Graphene-FeO Quantum Dot Hybrids as High-Performance Anode Materials for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 26878-26885	9.5	125
290	Insights into the Na+ Storage Mechanism of Phosphorus-Functionalized Hard Carbon as Ultrahigh Capacity Anodes. *Advanced Energy Materials*, **2018**, 8, 1702781	21.8	124
289	Freestanding three-dimensional core-shell nanoarrays for lithium-ion battery anodes. *Nature Communications*, **2016**, 7, 11774	17.4	124
288	A High-Efficiency CoSe Electrocatalyst with Hierarchical Porous Polyhedron Nanoarchitecture for Accelerating Polysulfides Conversion in Li-S Batteries. *Advanced Materials*, **2020**, 32, e2002168	24	123
287	Phosphorus-Doped Hard Carbon Nanofibers Prepared by Electrospinning as an Anode in Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 21335-21342	9.5	119
286	Anode Interface Engineering and Architecture Design for High-Performance Lithium-Sulfur Batteries. *Advanced Materials*, **2019**, 31, e1806532	24	109
285	Solid-State Li-Ion Batteries Using Fast, Stable, Glassy Nanocomposite Electrolytes for Good Safety and Long Cycle-Life. *Nano Letters*, **2016**, 16, 1960-8	11.5	103
284	Chemical Inhibition Method to Synthesize Highly Crystalline Prussian Blue Analogs for Sodium-Ion Battery Cathodes. *ACS Applied Materials & Interfaces*, **2016**, 8, 31669-31676	9.5	102
283	Co-Construction of Sulfur Vacancies and Heterojunctions in Tungsten Disulfide to Induce Fast Electronic/Ionic Diffusion Kinetics for Sodium-Ion Batteries. *Advanced Materials*, **2020**, 32, e2005802	24	100
282	Systematic Effect for an Ultralong Cycle Lithium-Sulfur Battery. *Nano Letters*, **2015**, 15, 7431-9	11.5	98
281	Development and Challenges of Functional Electrolytes for High-Performance Lithium-Sulfur Batteries. *Advanced Functional Materials*, **2018**, 28, 1800919	15.6	98
280	Enhanced Sodium Ion Storage Behavior of P2-Type Na(2/3)Fe(1/2)Mn(1/2)O2 Synthesized via a Chelating Agent Assisted Route. *ACS Applied Materials & Interfaces*, **2016**, 8, 2857-65	9.5	97
279	3D coral-like nitrogen-sulfur co-doped carbon-sulfur composite for high performance lithium-sulfur batteries. *Scientific Reports*, **2015**, 5, 13340	4.9	96
278	Novel solid-state Li/LiFePO4 battery configuration with a ternary nanocomposite electrolyte for practical applications. *Advanced Materials*, **2011**, 23, 5081-5	24	95
277	The role of yttrium content in improving electrochemical performance of layered lithium-rich cathode materials for Li-ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 9760	13	94
276	Open-Structured V2O5·nH2O Nanoflakes as Highly Reversible Cathode Material for Monovalent and Multivalent Intercalation Batteries. *Advanced Energy Materials*, **2017**, 7, 1602720	21.8	91

275	Surface Modification of Li-Rich Cathode Materials for Lithium-Ion Batteries with a PEDOT:PSS Conducting Polymer. *ACS Applied Materials & Interfaces*, **2016**, 8, 23095-104	9.5	91
274	Boosting Fast Sodium Storage of a Large-Scalable Carbon Anode with an Ultralong Cycle Life. *Advanced Energy Materials*, **2018**, 8, 1703159	21.8	90
273	Three-dimensional fusiform hierarchical micro/nano Li1.2Ni0.2Mn0.6O2 with a preferred orientation (110) plane as a high energy cathode material for lithium-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 5942-5951	13	89
272	High-Voltage and Noncorrosive Ionic Liquid Electrolyte Used in Rechargeable Aluminum Battery. *ACS Applied Materials & Interfaces*, **2016**, 8, 27444-27448	9.5	89
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270	Crumpled Ir Nanosheets Fully Covered on Porous Carbon Nanofibers for Long-Life Rechargeable Lithium-CO Batteries. *Advanced Materials*, **2018**, 30, e1803124	24	89
269	Layer-by-Layer Assembled Architecture of Polyelectrolyte Multilayers and Graphene Sheets on Hollow Carbon Spheres/Sulfur Composite for High-Performance Lithium-Sulfur Batteries. *Nano Letters*, **2016**, 16, 5488-94	11.5	88
268	Can surface modification be more effective to enhance the electrochemical performance of lithium rich materials?. *Journal of Materials Chemistry*, **2012**, 22, 1489-1497		87
267	Innovative Application of Acid Leaching to Regenerate Li(Ni1/3Co1/3Mn1/3)O2 Cathodes from Spent Lithium-Ion Batteries. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 5959-5968	8.3	86
266	High-Rate and Cycling-Stable Nickel-Rich Cathode Materials with Enhanced Li(+) Diffusion Pathway. *ACS Applied Materials & Interfaces*, **2016**, 8, 582-7	9.5	86
265	Lotus Seedpod-Derived Hard Carbon with Hierarchical Porous Structure as Stable Anode for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 12554-12561	9.5	84
264	Sufficient Utilization of Zirconium Ions to Improve the Structure and Surface properties of Nickel-Rich Cathode Materials for Lithium-Ion Batteries. *ChemSusChem*, **2018**, 11, 1639-1648	8.3	83
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261	Toward Practical High-Energy Batteries: A Modular-Assembled Oval-Like Carbon Microstructure for Thick Sulfur Electrodes. *Advanced Materials*, **2017**, 29, 1700598	24	82
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238	Ultrathin Surface Coating of Nitrogen-Doped Graphene Enables Stable Zinc Anodes for Aqueous Zinc-Ion Batteries. *Advanced Materials*, **2021**, 33, e2101649	24	62
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232	Kinetics Tuning the Electrochemistry of Lithium Dendrites Formation in Lithium Batteries through Electrolytes. *ACS Applied Materials & Interfaces*, **2017**, 9, 7003-7008	9.5	56
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