Ji Qian

List of Publications by Citations

44 papers	2,338 citations	28 h-index	45 g-index
45 ext. papers	2,882 ext. citations	13.8 avg, IF	5.06 L-index

#	Paper	IF	Citations
44	Free-standing hierarchically sandwich-type tungsten disulfide nanotubes/graphene anode for lithium-ion batteries. *Nano Letters*, **2014**, 14, 5899-904	11.5	243
43	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
42	Freestanding three-dimensional core-shell nanoarrays for lithium-ion battery anodes. *Nature Communications*, **2016**, 7, 11774	17.4	124
41	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
40	Systematic Effect for an Ultralong Cycle Lithium-Sulfur Battery. *Nano Letters*, **2015**, 15, 7431-9	11.5	98
39	Enhanced Performance of a Lithium-Sulfur Battery Using a Carbonate-Based Electrolyte. *Angewandte Chemie - International Edition*, **2016**, 55, 10372-5	16.4	94
38	Exceptional adsorption and catalysis effects of hollow polyhedra/carbon nanotube confined CoP nanoparticles superstructures for enhanced lithium–sulfur batteries. *Nano Energy*, **2019**, 64, 103965	17.1	92
37	Boosting Fast Sodium Storage of a Large-Scalable Carbon Anode with an Ultralong Cycle Life. *Advanced Energy Materials*, **2018**, 8, 1703159	21.8	90
36	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
35	Crumpled Ir Nanosheets Fully Covered on Porous Carbon Nanofibers for Long-Life Rechargeable Lithium-CO Batteries. *Advanced Materials*, **2018**, 30, e1803124	24	89
34	Toward Practical High-Energy Batteries: A Modular-Assembled Oval-Like Carbon Microstructure for Thick Sulfur Electrodes. *Advanced Materials*, **2017**, 29, 1700598	24	82
33	"Liquid-in-Solid" and "Solid-in-Liquid" Electrolytes with High Rate Capacity and Long Cycling Life for Lithium-Ion Batteries. *Chemistry of Materials*, **2016**, 28, 848-856	9.6	78
32	Protecting lithium/sodium metal anode with metal-organic framework based compact and robust shield. *Nano Energy*, **2019**, 60, 866-874	17.1	69
31	Facile Synthesis of Boron-Doped rGO as Cathode Material for High Energy Li-O2 Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 23635-45	9.5	65
30	Sulfur Nanodots Stitched in 2D "Bubble-Like" Interconnected Carbon Fabric as Reversibility-Enhanced Cathodes for Lithium-Sulfur Batteries. *ACS Nano*, **2017**, 11, 4694-4702	16.7	62
29	Light-weight functional layer on a separator as a polysulfide immobilizer to enhance cycling stability for lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2016**, 4, 17033-17041	13	61
28	Gluing Carbon Black and Sulfur at Nanoscale: A Polydopamine-Based "Nano-Binder" for Double-Shelled Sulfur Cathodes. *Advanced Energy Materials*, **2017**, 7, 1601591	21.8	57

27	Boosting High-Rate Li-S Batteries by an MOF-Derived Catalytic Electrode with a Layer-by-Layer Structure. *Advanced Science*, **2019**, 6, 1802362	13.6	55
26	Sulfur cathode based on layered carbon matrix for high-performance Li–S batteries. *Nano Energy*, **2015**, 12, 742-749	17.1	55
25	An Effectively Activated Hierarchical Nano-/Microspherical Li1.2Ni0.2Mn0.6O2 Cathode for Long-Life and High-Rate Lithium-Ion Batteries. *ChemSusChem*, **2016**, 9, 728-35	8.3	52
24	Ionic liquid-based electrolyte with binary lithium salts for high performance lithium–sulfur batteries. *Journal of Power Sources*, **2015**, 296, 10-17	8.9	49
23	Electrocatalytic Interlayer with Fast Lithium–Polysulfides Diffusion for Lithium–Sulfur Batteries to Enhance Electrochemical Kinetics under Lean Electrolyte Conditions. *Advanced Functional Materials*, **2020**, 30, 2000742	15.6	48
22	A modularly-assembled interlayer to entrap polysulfides and protect lithium metal anode for high areal capacity lithium–sulfur batteries. *Energy Storage Materials*, **2017**, 9, 126-133	19.4	40
21	Boron-doped microporous nano carbon as cathode material for high-performance Li-S batteries. *Nano Research*, **2017**, 10, 426-436	10	37
20	Enhanced Electrochemical Kinetics with Highly Dispersed Conductive and Electrocatalytic Mediators for Lithium-Sulfur Batteries. *Advanced Materials*, **2021**, 33, e2100810	24	35
19	Lithium Induced Nano-Sized Copper with Exposed Lithiophilic Surfaces to Achieve Dense Lithium Deposition for Lithium Metal Anode. *Advanced Functional Materials*, **2021**, 31, 2006950	15.6	33
18	In situ formation of a LiF and Li–Al alloy anode protected layer on a Li metal anode with enhanced cycle life. *Journal of Materials Chemistry A*, **2020**, 8, 1247-1253	13	31
17	Strongly Coupled Carbon Nanosheets/Molybdenum Carbide Nanocluster Hollow Nanospheres for High-Performance Aprotic Li-O Battery. *Small*, **2018**, 14, e1704366	11	28
16	Enhanced Performance of a Lithium–Sulfur Battery Using a Carbonate-Based Electrolyte. *Angewandte Chemie*, **2016**, 128, 10528-10531	3.6	27
15	Zirconia-supported solid-state electrolytes for high-safety lithium secondary batteries in a wide temperature range. *Journal of Materials Chemistry A*, **2017**, 5, 24677-24685	13	25
14	Micrometer-Sized RuO2 Catalysts Contributing to Formation of Amorphous Na-Deficient Sodium Peroxide in Na–O2 Batteries. *Advanced Functional Materials*, **2017**, 27, 1700632	15.6	24
13	Oxygenated Nitrogen-Doped Microporous Nanocarbon as a Permselective Interlayer for Ultrastable Lithium-Sulfur Batteries. *ChemElectroChem*, **2019**, 6, 1094-1100	4.3	21
12	Metal Chalcogenides with Heterostructures for High-Performance Rechargeable Batteries. *Small Science*, **2021**, 1, 2100012		21
11	Bicomponent electrolyte additive excelling fluoroethylene carbonate for high performance Si-based anodes and lithiated Si-S batteries. *Energy Storage Materials*, **2019**, 20, 388-394	19.4	21
10	A polypyrrole-supported carbon paper acting as a polysulfide trap for lithium–sulfur batteries. *RSC Advances*, **2015**, 5, 94479-94485	3.7	18

9	Long-life lithium-O2 battery achieved by integrating quasi-solid electrolyte and highly active Pt3Co nanowires catalyst. *Energy Storage Materials*, **2020**, 24, 707-713	19.4	15
8	Materials and structure engineering by magnetron sputtering for advanced lithium batteries. *Energy Storage Materials*, **2021**, 39, 203-224	19.4	15
7	High Pseudocapacitance Boosts Ultrafast, High-Capacity Sodium Storage of 3D Graphene Foam-Encapsulated TiO Architecture. *ACS Applied Materials & Interfaces*, **2020**, 12, 23939-23950	9.5	14
6	A Mixed Modified Layer Formed In Situ to Protect and Guide Lithium Plating/Stripping Behavior. *ACS Applied Materials & Interfaces*, **2020**, 12, 31411-31418	9.5	12
5	CoS Nanorods as an Electrocatalyst To Enhance Polysulfide Conversion and Alleviate Passivation in Li-S Batteries under Lean Electrolyte Conditions. *ACS Applied Materials & Interfaces*, **2020**, 12, 21701-21708	9.5	12
4	Freestanding N-Doped Carbon Coated CuO Array Anode for Lithium-Ion and Sodium-Ion Batteries. *Energy Technology*, **2019**, 7, 1900252	3.5	5
3	A novel nanocomposite electrolyte with ultrastable interface boosts long life solid-state lithium metal batteries. *Journal of Power Sources*, **2021**, 484, 229195	8.9	5
2	An Antipulverization and High-Continuity Lithium Metal Anode for High-Energy Lithium Batteries. *Advanced Materials*, **2021**, e2105029	24	2
1	Lightweight Shield to Stabilize Li Metal Anodes at High Current Rates. *ACS Applied Energy Materials*, **2021**, 4, 11878-11885	6.1	1