Quanquan Pang

List of Publications by Citations

31 papers	8,640 citations	24 h-index	35 g-index
35 ext. papers	9,950 ext. citations	20.2 avg, IF	6.73 L-index

#	Paper	IF	Citations
31	A highly efficient polysulfide mediator for lithium-sulfur batteries. *Nature Communications*, **2015**, 6, 5682	17.4	1385
30	Advances in lithium–sulfur batteries based on multifunctional cathodes and electrolytes. *Nature Energy*, **2016**, 1,	62.3	1317
29	Surface-enhanced redox chemistry of polysulphides on a metallic and polar host for lithium-sulphur batteries. *Nature Communications*, **2014**, 5, 4759	17.4	972
28	A facile surface chemistry route to a stabilized lithium metal anode. *Nature Energy*, **2017**, 2,	62.3	618
27	A nitrogen and sulfur dual-doped carbon derived from polyrhodanine@cellulose for advanced lithium-sulfur batteries. *Advanced Materials*, **2015**, 27, 6021-8	24	595
26	Interwoven MXene Nanosheet/Carbon-Nanotube Composites as Li-S Cathode Hosts. *Advanced Materials*, **2017**, 29, 1603040	24	451
25	Tuning Transition Metal Oxide–Sulfur Interactions for Long Life Lithium Sulfur Batteries: The "Goldilocks" Principle. *Advanced Energy Materials*, **2016**, 6, 1501636	21.8	448
24	A graphene-like metallic cathode host for long-life and high-loading lithium–sulfur batteries. *Materials Horizons*, **2016**, 3, 130-136	14.4	355
23	Long-Life and High-Areal-Capacity Li-S Batteries Enabled by a Light-Weight Polar Host with Intrinsic Polysulfide Adsorption. *ACS Nano*, **2016**, 10, 4111-8	16.7	314
22	Tuning the electrolyte network structure to invoke quasi-solid state sulfur conversion and suppress lithium dendrite formation in Li–S batteries. *Nature Energy*, **2018**, 3, 783-791	62.3	282
21	Review—The Importance of Chemical Interactions between Sulfur Host Materials and Lithium Polysulfides for Advanced Lithium-Sulfur Batteries. *Journal of the Electrochemical Society*, **2015**, 162, A2567-A2576	3.9	263
20	Lithium-sulfur batteries. *MRS Bulletin*, **2014**, 39, 436-442	3.2	249
19	A Comprehensive Approach toward Stable Lithium–Sulfur Batteries with High Volumetric Energy Density. *Advanced Energy Materials*, **2017**, 7, 1601630	21.8	240
18	An In Vivo Formed Solid Electrolyte Surface Layer Enables Stable Plating of Li Metal. *Joule*, **2017**, 1, 871-886	27.8	213
17	Lightweight Metallic MgB2 Mediates Polysulfide Redox and Promises High-Energy-Density Lithium-Sulfur Batteries. *Joule*, **2019**, 3, 136-148	27.8	178
16	Advances in metal-organic framework coatings: versatile synthesis and broad applications. *Chemical Society Reviews*, **2020**, 49, 3142-3186	58.5	167
15	Directing the Lithium-Sulfur Reaction Pathway via Sparingly Solvating Electrolytes for High Energy Density Batteries. *ACS Central Science*, **2017**, 3, 605-613	16.8	125

List of Publications

14	Methods and Protocols for Electrochemical Energy Storage Materials Research. *Chemistry of Materials*, **2017**, 29, 90-105	9.6	106
13	Stabilizing Lithium Plating by a Biphasic Surface Layer Formed In Situ. *Angewandte Chemie - International Edition*, **2018**, 57, 9795-9798	16.4	98
12	Inhibiting Polysulfide Shuttle in Lithium-Sulfur Batteries through Low-Ion-Pairing Salts and a Triflamide Solvent. *Angewandte Chemie - International Edition*, **2017**, 56, 6192-6197	16.4	86
11	Electrolyte solutions design for lithium-sulfur batteries. *Joule*, **2021**, 5, 2323-2364	27.8	38
10	Elastic and Li-ion-percolating hybrid membrane stabilizes Li metal plating. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 12389-12394	11.5	32
9	Stabilizing Lithium Plating by a Biphasic Surface Layer Formed In Situ. *Angewandte Chemie*, **2018**, 130, 9943-9946	3.6	31
8	Effects of titanium incorporation on phase and electrochemical performance in LiFePO4 cathode material. *Electrochimica Acta*, **2012**, 78, 576-584	6.7	26
7	Inhibiting Polysulfide Shuttle in Lithium–Sulfur Batteries through Low-Ion-Pairing Salts and a Triflamide Solvent. *Angewandte Chemie*, **2017**, 129, 6288-6293	3.6	19
6	Impact of the Mechanical Properties of a Functionalized Cross-Linked Binder on the Longevity of Li-S Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 22481-22491	9.5	14
5	Efforts at Enhancing Bifunctional Electrocatalysis and Related Events for Rechargeable Zinc-Air Batteries. *ChemElectroChem*, **2021**, 8, 3998	4.3	6
4	Lithium-Sulfur Batteries: Tuning Transition Metal Oxide–Sulfur Interactions for Long Life Lithium Sulfur Batteries: The "Goldilocks" Principle (Adv. Energy Mater. 6/2016). *Advanced Energy Materials*, **2016**, 6,	21.8	3
3	Introduce Tortuosity to Retain Polysulfides and Suppress Li Dendrites. *Matter*, **2020**, 2, 1363-1365	12.7	2
2	Charge storage mechanisms of cathode materials in rechargeable aluminum batteries. *Science China Chemistry*,1	7.9	1
1	Efforts at Enhancing Bifunctional Electrocatalysis and Related Events for Rechargeable Zinc-Air Batteries. *ChemElectroChem*, **2021**, 8, 3996	4.3	0