Yutao Li

List of Publications by Year in Descending Order

58 papers	6,068 citations	37 h-index	60 g-index
60 ext. papers	7,664 ext. citations	12.9 avg, IF	6.27 L-index

#	Paper	IF	Citations
58	Coordination-Assisted Precise Construction of Metal Oxide Nanofilms for High-Performance Solid-State Batteries.. *Journal of the American Chemical Society*, **2022**,	16.4	3
57	Ultra-high-voltage Ni-rich layered cathodes in practical Li metal batteries enabled by a sulfonamide-based electrolyte. *Nature Energy*, **2021**, 6, 495-505	62.3	82
56	Interfacial Chemistry Enables Stable Cycling of All-Solid-State Li Metal Batteries at High Current Densities. *Journal of the American Chemical Society*, **2021**, 143, 6542-6550	16.4	52
55	Li S -Integrated PEO-Based Polymer Electrolytes for All-Solid-State Lithium-Metal Batteries. *Angewandte Chemie - International Edition*, **2021**, 60, 17701-17706	16.4	25
54	Li2S6-Integrated PEO-Based Polymer Electrolytes for All-Solid-State Lithium-Metal Batteries. *Angewandte Chemie*, **2021**, 133, 17842-17847	3.6	8
53	Reaction Mechanism Optimization of Solid-State Li$_2$S Batteries with a PEO-Based Electrolyte. *Advanced Functional Materials*, **2021**, 31, 2001812	15.6	55
52	Interfacial challenges for all-solid-state batteries based on sulfide solid electrolytes. *Journal of Materiomics*, **2021**, 7, 209-218	6.7	30
51	Li-ion conductivity and stability of hot-pressed LiTa2PO8 solid electrolyte for all-solid-state batteries. *Journal of Materials Science*, **2021**, 56, 2425-2434	4.3	4
50	Constructing Electronic and Ionic Dual Conductive Polymeric Interface in the Cathode for High-Energy-Density Solid-State Batteries. *Advanced Functional Materials*, **2021**, 31, 2008487	15.6	17
49	Low-operating temperature quasi-solid-state potassium-ion battery based on commercial materials. *Journal of Colloid and Interface Science*, **2021**, 582, 932-939	9.3	6
48	Solid-State Batteries: Constructing Electronic and Ionic Dual Conductive Polymeric Interface in the Cathode for High-Energy-Density Solid-State Batteries (Adv. Funct. Mater. 13/2021). *Advanced Functional Materials*, **2021**, 31, 2170091	15.6	0
47	Surface Coating on a Separator with a Reductive Solid Li-Ion Conductor for Dendrite-Free Li-Metal Batteries. *ACS Applied Energy Materials*, **2021**, 4, 8621-8628	6.1	3
46	General Strategy for Synthesis of Ordered Pt3M Intermetallics with Ultrasmall Particle Size. *Angewandte Chemie*, **2020**, 132, 7931-7937	3.6	15
45	In Situ Formation of Li3P Layer Enables Fast Li+ Conduction across Li/Solid Polymer Electrolyte Interface. *Advanced Functional Materials*, **2020**, 30, 2000831	15.6	38
44	Fast Li Conduction Mechanism and Interfacial Chemistry of a NASICON/Polymer Composite Electrolyte. *Journal of the American Chemical Society*, **2020**, 142, 2497-2505	16.4	91
43	Enhanced Surface Interactions Enable Fast Li+ Conduction in Oxide/Polymer Composite Electrolyte. *Angewandte Chemie*, **2020**, 132, 4160-4166	3.6	18
42	Enhanced Surface Interactions Enable Fast Li Conduction in Oxide/Polymer Composite Electrolyte. *Angewandte Chemie - International Edition*, **2020**, 59, 4131-4137	16.4	114

41	Structural and Electrochemical Consequences of Sodium in the Transition-Metal Layer of O?3-Na3Ni1.5TeO6. *Chemistry of Materials*, **2020**, 32, 10035-10044	9.6	7
40	Enhanced Performance of LiLaZrTaO Solid Electrolyte by the Regulation of Grain and Grain Boundary Phases. *ACS Applied Materials & Interfaces*, **2020**, 12, 56118-56125	9.5	16
39	Electrolytes for Lithium- and Sodium-Metal Batteries. *Chemistry - an Asian Journal*, **2020**, 15, 3584-3598	4.5	18
38	NASICON Li1.2Mg0.1Zr1.9(PO4)3 Solid Electrolyte for an All-Solid-State Li-Metal Battery. *Small Methods*, **2020**, 4, 2000764	12.8	15
37	General Strategy for Synthesis of Ordered Pt M Intermetallics with Ultrasmall Particle Size. *Angewandte Chemie - International Edition*, **2020**, 59, 7857-7863	16.4	51
36	High-performance all-solid-state batteries enabled by salt bonding to perovskite in poly(ethylene oxide). *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 18815-18821	11.5	117
35	Antiperovskite Nitrides CuNCoV: Highly Efficient and Durable Electrocatalysts for the Oxygen-Evolution Reaction. *Nano Letters*, **2019**, 19, 7457-7463	11.5	37
34	A dopamine modified Li6.4La3Zr1.4Ta0.6O12/PEO solid-state electrolyte: enhanced thermal and electrochemical properties. *Journal of Materials Chemistry A*, **2019**, 7, 16425-16436	13	82
33	Exceptional oxygen evolution reactivities on CaCoO and SrCoO. *Science Advances*, **2019**, 5, eaav6262	14.3	89
32	A New Type of Electrolyte System To Suppress Polysulfide Dissolution for Lithium-Sulfur Battery. *ACS Nano*, **2019**, 13, 9067-9073	16.7	45
31	Short O-O separation in layered oxide NaCoO enables an ultrafast oxygen evolution reaction. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 23473-23479	11.5	35
30	Structurally Ordered Fe3Pt Nanoparticles on Robust Nitride Support as a High Performance Catalyst for the Oxygen Reduction Reaction. *Advanced Energy Materials*, **2019**, 9, 1803040	21.8	68
29	Garnet Electrolyte with an Ultralow Interfacial Resistance for Li-Metal Batteries. *Journal of the American Chemical Society*, **2018**, 140, 6448-6455	16.4	295
28	Cathode Dependence of Liquid-Alloy Na-K Anodes. *Journal of the American Chemical Society*, **2018**, 140, 3292-3298	16.4	73
27	PEO/garnet composite electrolytes for solid-state lithium batteries: From "ceramic-in-polymer" to "polymer-in-ceramic" *Nano Energy*, **2018**, 46, 176-184	17.1	672
26	Improved electrochemical performance of bagasse and starch-modified LiNi0.5Mn0.3Co0.2O2 materials for lithium-ion batteries. *Journal of Materials Science*, **2018**, 53, 5242-5254	4.3	21
25	Neat Design for the Structure of Electrode To Optimize the Lithium-Ion Battery Performance. *ACS Applied Materials & Interfaces*, **2018**, 10, 27106-27115	9.5	30
24	A Perovskite Electrolyte That Is Stable in Moist Air for Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2018**, 57, 8587-8591	16.4	76

23	A Perovskite Electrolyte That Is Stable in Moist Air for Lithium-Ion Batteries. *Angewandte Chemie*, **2018**, 130, 8723-8727	3.6	5
22	LiN-Modified Garnet Electrolyte for All-Solid-State Lithium Metal Batteries Operated at 40 °C. *Nano Letters*, **2018**, 18, 7414-7418	11.5	160
21	Low-Cost High-Energy Potassium Cathode. *Journal of the American Chemical Society*, **2017**, 139, 2164-2167	16.4	366
20	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. *Angewandte Chemie*, **2017**, 129, 771-774	3.6	66
19	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2017**, 56, 753-756	16.4	341
18	Effects of grain boundaries and defects on anisotropic magnon transport in textured Sr14Cu24O41. *Physical Review B*, **2017**, 95,	3.3	7
17	Robust Fe Mo C Supported IrMn Clusters as Highly Efficient Bifunctional Air Electrode for Metal-Air Battery. *Advanced Materials*, **2017**, 29, 1702385	24	79
16	Controlling the Compositional Chemistry in Single Nanoparticles for Functional Hollow Carbon Nanospheres. *Journal of the American Chemical Society*, **2017**, 139, 13492-13498	16.4	202
15	Chevrel Phase Mo T (T = S, Se) as Electrodes for Advanced Energy Storage. *Small*, **2017**, 13, 1701441	11	37
14	Ni3FeN-Supported Fe3Pt Intermetallic Nanoalloy as a High-Performance Bifunctional Catalyst for Metal–Air Batteries. *Angewandte Chemie*, **2017**, 129, 10033-10037	3.6	21
13	Ni FeN-Supported Fe Pt Intermetallic Nanoalloy as a High-Performance Bifunctional Catalyst for Metal-Air Batteries. *Angewandte Chemie - International Edition*, **2017**, 56, 9901-9905	16.4	133
12	Ni3Fe-N Doped Carbon Sheets as a Bifunctional Electrocatalyst for Air Cathodes. *Advanced Energy Materials*, **2017**, 7, 1601172	21.8	305
11	Graphene Sandwiched by Sulfur-Confined Mesoporous Carbon Nanosheets: A Kinetically Stable Cathode for Li-S Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 33704-33711	9.5	51
10	Plating a Dendrite-Free Lithium Anode with a Polymer/Ceramic/Polymer Sandwich Electrolyte. *Journal of the American Chemical Society*, **2016**, 138, 9385-8	16.4	662
9	Exploring reversible oxidation of oxygen in a manganese oxide. *Energy and Environmental Science*, **2016**, 9, 2575-2577	35.4	115
8	Mastering the interface for advanced all-solid-state lithium rechargeable batteries. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 13313-13317	11.5	193
7	Built-in Carbon Nanotube Network inside a Biomass-Derived Hierarchically Porous Carbon to Enhance the Performance of the Sulfur Cathode in a Li-S Battery. *ChemNanoMat*, **2016**, 2, 712-718	3.5	47
6	Novel Hydrogel-Derived Bifunctional Oxygen Electrocatalyst for Rechargeable Air Cathodes. *Nano Letters*, **2016**, 16, 6516-6522	11.5	192

5	Active LaNi1−xFexO3 bifunctional catalysts for air cathodes in alkaline media. *Journal of Materials Chemistry A*, **2015**, 3, 9421-9426	13	98
4	High Li+ conduction in NASICON-type Li1+xYxZr2−x(PO4)3 at room temperature. *Journal of Power Sources*, **2013**, 240, 50-53	8.9	61
3	Optimizing Li+ conductivity in a garnet framework. *Journal of Materials Chemistry*, **2012**, 22, 15357		409
2	NASICON-type Li1+2xZr2−xCax(PO4)3 with high ionic conductivity at room temperature. *RSC Advances*, **2011**, 1, 1728	3.7	49
1	Lithium Distribution in Aluminum-Free Cubic Li7La3Zr2O12. *Chemistry of Materials*, **2011**, 23, 3587-3589	9.6	160