Yutao Li

List of Publications by Year
in descending order

60 papers	9,209 citations	70961 41 h-index	128067 60 g-index
60 all docs	60 docs citations	60 times ranked	8604 citing authors

#	Article	IF	Citations
1	Optimized CeO₂ Nanowires with Rich Surface Oxygen Vacancies Enable Fast Liâ€Ion Conduction in Composite Polymer Electrolytes. Energy and Environmental Materials, 2023, 6, .	7.3	19
2	Coordination-Assisted Precise Construction of Metal Oxide Nanofilms for High-Performance Solid-State Batteries. Journal of the American Chemical Society, 2022, 144, 2179-2188.	6.6	38
3	Revealing the Solidâ€State Electrolyte Interfacial Stability Model with Naâ€“K Liquid Alloy. Angewandte Chemie - International Edition, 2022, 61, .	7.2	10
4	Reaction Mechanism Optimization of Solidâ€State Liâ€“S Batteries with a PEOâ€Based Electrolyte. Advanced Functional Materials, 2021, 31, 2001812.	7.8	116
5	Interfacial challenges for all-solid-state batteries based on sulfide solid electrolytes. Journal of Materiomics, 2021, 7, 209-218.	2.8	82
6	Li-ion conductivity and stability of hot-pressed LiTa2PO8 solid electrolyte for all-solid-state batteries. Journal of Materials Science, 2021, 56, 2425-2434.	1.7	20
7	Constructing Electronic and Ionic Dual Conductive Polymeric Interface in the Cathode for Highâ€Energyâ€Density Solidâ€State Batteries. Advanced Functional Materials, 2021, 31, 2008487.	7.8	40
8	Low-operating temperature quasi-solid-state potassium-ion battery based on commercial materials. Journal of Colloid and Interface Science, 2021, 582, 932-939.	5.0	20
9	Solidâ€State Batteries: Constructing Electronic and Ionic Dual Conductive Polymeric Interface in the Cathode for Highâ€Energyâ€Density Solidâ€State Batteries (Adv. Funct. Mater. 13/2021). Advanced Functional Materials, 2021, 31, 2170091.	7.8	1
10	Ultra-high-voltage Ni-rich layered cathodes in practical Li metal batteries enabled by a sulfonamide-based electrolyte. Nature Energy, 2021, 6, 495-505.	19.8	323
11	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.	6.6	200
12	Li₂S₆â€Integrated PEOâ€Based Polymer Electrolytes for Allâ€Solidâ€State Lithiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 17701-17706.	7.2	127
13	Li₂S₆â€Integrated PEOâ€Based Polymer Electrolytes for Allâ€Solidâ€State Lithiumâ€Metal Batteries. Angewandte Chemie, 2021, 133, 17842-17847.	1.6	33
14	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.	2.5	5
15	Fast Li⁺ Conduction Mechanism and Interfacial Chemistry of a NASICON/Polymer Composite Electrolyte. Journal of the American Chemical Society, 2020, 142, 2497-2505.	6.6	199
16	Enhanced Surface Interactions Enable Fast Li⁺ Conduction in Oxide/Polymer Composite Electrolyte. Angewandte Chemie, 2020, 132, 4160-4166.	1.6	27
17	Enhanced Surface Interactions Enable Fast Li⁺ Conduction in Oxide/Polymer Composite Electrolyte. Angewandte Chemie - International Edition, 2020, 59, 4131-4137.	7.2	242
18	Structural and Electrochemical Consequences of Sodium in the Transition-Metal Layer of Oâ€²3-Na₃Ni_{1.5}TeO₆. Chemistry of Materials, 2020, 32, 10035-10044.	3.2	14

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19	Enhanced Performance of Li_{6.4}La₃Zr_{1.4}Ta_{0.6}O₁₂ Solid Electrolyte by the Regulation of Grain and Grain Boundary Phases. ACS Applied Materials & Interfaces, 2020, 12, 56118-56125.	4.0	54
20	Electrolytes for Lithiumâ€•and Sodiumâ€Metal Batteries. Chemistry - an Asian Journal, 2020, 15, 3584-3598.	1.7	28
21	NASICON Li_{1.2}Mg_{0.1}Zr_{1.9}(PO₄)₃ Solid Electrolyte for an Allâ€Solidâ€State Liâ€Metal Battery. Small Methods, 2020, 4, 2000764.	4.6	42
22	General Strategy for Synthesis of Ordered Pt₃M Intermetallics with Ultrasmall Particle Size. Angewandte Chemie, 2020, 132, 7931-7937.	1.6	20
23	In Situ Formation of Li₃P Layer Enables Fast Li⁺ Conduction across Li/Solid Polymer Electrolyte Interface. Advanced Functional Materials, 2020, 30, 2000831.	7.8	78
24	General Strategy for Synthesis of Ordered Pt₃M Intermetallics with Ultrasmall Particle Size. Angewandte Chemie - International Edition, 2020, 59, 7857-7863.	7.2	103
25	Exceptional oxygen evolution reactivities on CaCoO ₃ and SrCoO ₃. Science Advances, 2019, 5, eaav6262.	4.7	132
26	A New Type of Electrolyte System To Suppress Polysulfide Dissolution for Lithiumâ€“Sulfur Battery. ACS Nano, 2019, 13, 9067-9073.	7.3	69
27	Short Oâ€“O separation in layered oxide Na _{0.67} CoO ₂ enables an ultrafast oxygen evolution reaction. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23473-23479.	3.3	52
28	High-performance all-solid-state batteries enabled by salt bonding to perovskite in poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 18815-18821.	3.3	213
29	Antiperovskite Nitrides CuNCo_{3â€“<i>x</i>}V_{<i>x</i>}: Highly Efficient and Durable Electrocatalysts for the Oxygen-Evolution Reaction. Nano Letters, 2019, 19, 7457-7463.	4.5	62
30	A dopamine modified Li_{6.4}La₃Zr_{1.4}Ta_{0.6}O₁₂/PEO solid-state electrolyte: enhanced thermal and electrochemical properties. Journal of Materials Chemistry A, 2019, 7, 16425-16436.	5.2	162
31	Structurally Ordered Fe₃Pt Nanoparticles on Robust Nitride Support as a High Performance Catalyst for the Oxygen Reduction Reaction. Advanced Energy Materials, 2019, 9, 1803040.	10.2	96
32	Garnet Electrolyte with an Ultralow Interfacial Resistance for Li-Metal Batteries. Journal of the American Chemical Society, 2018, 140, 6448-6455.	6.6	427
33	Cathode Dependence of Liquid-Alloy Naâ€“K Anodes. Journal of the American Chemical Society, 2018, 140, 3292-3298.	6.6	95
34	PEO/garnet composite electrolytes for solid-state lithium batteries: From â€œceramic-in-polymerâ€•to â€œpolymer-in-ceramicâ€• Nano Energy, 2018, 46, 176-184.	8.2	1,042
35	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.	1.7	27
36	Li₃N-Modified Garnet Electrolyte for All-Solid-State Lithium Metal Batteries Operated at 40 Â°C. Nano Letters, 2018, 18, 7414-7418.	4.5	270

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37	Neat Design for the Structure of Electrode To Optimize the Lithium-Ion Battery Performance. ACS Applied Materials & Interfaces, 2018, 10, 27106-27115.	4.0	40
38	A Perovskite Electrolyte That Is Stable in Moist Air for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 8587-8591.	7.2	103
39	A Perovskite Electrolyte That Is Stable in Moist Air for Lithiumâ€Ion Batteries. Angewandte Chemie, 2018, 130, 8723-8727.	1.6	7
40	Low-Cost High-Energy Potassium Cathode. Journal of the American Chemical Society, 2017, 139, 2164-2167.	6.6	446
41	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithiumâ€Ion Batteries. Angewandte Chemie, 2017, 129, 771-774.	1.6	72
42	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2017, 56, 753-756.	7.2	449
43	Effects of grain boundaries and defects on anisotropic magnon transport in textured Sr14Cu24O41. Physical Review B, 2017, 95, .	1.1	10
44	Robust Fe₃Mo₃C Supported IrMn Clusters as Highly Efficient Bifunctional Air Electrode for Metalâ€“Air Battery. Advanced Materials, 2017, 29, 1702385.	11.1	90
45	Controlling the Compositional Chemistry in Single Nanoparticles for Functional Hollow Carbon Nanospheres. Journal of the American Chemical Society, 2017, 139, 13492-13498.	6.6	264
46	Chevrel Phase Mo₆T₈ (T = S, Se) as Electrodes for Advanced Energy Storage. Small, 2017, 13, 1701441.	5.2	61
47	Ni₃FeNâ€Supported Fe₃Pt Intermetallic Nanoalloy as a Highâ€Performance Bifunctional Catalyst for Metalâ€“Air Batteries. Angewandte Chemie, 2017, 129, 10033-10037.	1.6	25
48	Ni₃FeNâ€Supported Fe₃Pt Intermetallic Nanoalloy as a Highâ€Performance Bifunctional Catalyst for Metalâ€“Air Batteries. Angewandte Chemie - International Edition, 2017, 56, 9901-9905.	7.2	175
49	Ni₃Feâ€N Doped Carbon Sheets as a Bifunctional Electrocatalyst for Air Cathodes. Advanced Energy Materials, 2017, 7, 1601172.	10.2	369
50	Builtâ€in Carbon Nanotube Network inside a Biomassâ€Derived Hierarchically Porous Carbon to Enhance the Performance of the Sulfur Cathode in a Liâ€S Battery. ChemNanoMat, 2016, 2, 712-718.	1.5	52
51	Novel Hydrogel-Derived Bifunctional Oxygen Electrocatalyst for Rechargeable Air Cathodes. Nano Letters, 2016, 16, 6516-6522.	4.5	241
52	Graphene Sandwiched by Sulfur-Confined Mesoporous Carbon Nanosheets: A Kinetically Stable Cathode for Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2016, 8, 33704-33711.	4.0	56
53	Plating a Dendrite-Free Lithium Anode with a Polymer/Ceramic/Polymer Sandwich Electrolyte. Journal of the American Chemical Society, 2016, 138, 9385-9388.	6.6	844
54	Exploring reversible oxidation of oxygen in a manganese oxide. Energy and Environmental Science, 2016, 9, 2575-2577.	15.6	175

#	ARTICLE	IF	CITATIONS
55	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.	3.3	237
56	Active LaNi_{1âˆ’x}Fe_xO₃ bifunctional catalysts for air cathodes in alkaline media. Journal of Materials Chemistry A, 2015, 3, 9421-9426.	5.2	131
57	High Li+ conduction in NASICON-type Li1+xYxZr2âˆ’x(PO4)3 at room temperature. Journal of Power Sources, 2013, 240, 50-53.	4.0	72
58	Optimizing Li+ conductivity in a garnet framework. Journal of Materials Chemistry, 2012, 22, 15357.	6.7	538
59	NASICON-type Li1+2xZr2âˆ’xCax(PO4)3 with high ionic conductivity at room temperature. RSC Advances, 2011, 1, 1728.	1.7	59
60	Lithium Distribution in Aluminum-Free Cubic Li₇La₃Zr₂O₁₂. Chemistry of Materials, 2011, 23, 3587-3589.	3.2	205