Yutao Li

List of Publications by Year in descending order

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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	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
2	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
3	Optimizing Li+ conductivity in a garnet framework. Journal of Materials Chemistry, 2012, 22, 15357.	6.7	538
4	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithiumâ€•ion Batteries. Angewandte Chemie - International Edition, 2017, 56, 753-756.	7.2	449
5	Low-Cost High-Energy Potassium Cathode. Journal of the American Chemical Society, 2017, 139, 2164-2167.	6.6	446
6	Garnet Electrolyte with an Ultralow Interfacial Resistance for Li-Metal Batteries. Journal of the American Chemical Society, 2018, 140, 6448-6455.	6.6	427
7	Ni₃Feâ€N Doped Carbon Sheets as a Bifunctional Electrocatalyst for Air Cathodes. Advanced Energy Materials, 2017, 7, 1601172.	10.2	369
8	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
9	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
10	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
11	Enhanced Surface Interactions Enable Fast Li⁺ Conduction in Oxide/Polymer Composite Electrolyte. Angewandte Chemie - International Edition, 2020, 59, 4131-4137.	7.2	242
12	Novel Hydrogel-Derived Bifunctional Oxygen Electrocatalyst for Rechargeable Air Cathodes. Nano Letters, 2016, 16, 6516-6522.	4.5	241
13	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
14	High-performance all-solid-state batteries enabled by salt bonding to perovskite in poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2 18815-18821.	3.3	213
15	Lithium Distribution in Aluminum-Free Cubic Li₇La₃Zr₂O₁₂. Chemistry of Materials, 2011, 23, 3587-3589.	3.2	205
16	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
17	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
18	Exploring reversible oxidation of oxygen in a manganese oxide. Energy and Environmental Science, 2016, 9, 2575-2577.	15.6	175

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19	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
20	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
21	Exceptional oxygen evolution reactivities on CaCoO ₃ and SrCoO ₃. Science Advances, 2019, 5, eaav6262.	4.7	132
22	Active LaNi_{1â^'x}Fe_xO₃ bifunctional catalysts for air cathodes in alkaline media. Journal of Materials Chemistry A, 2015, 3, 9421-9426.	5.2	131
23	Li₂S₆â€Integrated PEOâ€Based Polymer Electrolytes for Allâ€Solidâ€State Lithiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 17701-17706.	7.2	127
24	Reaction Mechanism Optimization of Solidâ€State Liâ€“S Batteries with a PEOâ€Based Electrolyte. Advanced Functional Materials, 2021, 31, 2001812.	7.8	116
25	A Perovskite Electrolyte That Is Stable in Moist Air for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 8587-8591.	7.2	103
26	General Strategy for Synthesis of Ordered Pt₃M Intermetallics with Ultrasmall Particle Size. Angewandte Chemie - International Edition, 2020, 59, 7857-7863.	7.2	103
27	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
28	Cathode Dependence of Liquid-Alloy Naâ€“K Anodes. Journal of the American Chemical Society, 2018, 140, 3292-3298.	6.6	95
29	Robust Fe₃Mo₃C Supported IrMn Clusters as Highly Efficient Bifunctional Air Electrode for Metalâ€“Air Battery. Advanced Materials, 2017, 29, 1702385.	11.1	90
30	Interfacial challenges for all-solid-state batteries based on sulfide solid electrolytes. Journal of Materiomics, 2021, 7, 209-218.	2.8	82
31	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
32	High Li+ conduction in NASICON-type Li1+xYxZr2â^'x(PO4)3 at room temperature. Journal of Power Sources, 2013, 240, 50-53.	4.0	72
33	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithiumâ€Ion Batteries. Angewandte Chemie, 2017, 129, 771-774.	1.6	72
34	A New Type of Electrolyte System To Suppress Polysulfide Dissolution for Lithiumâ€“Sulfur Battery. ACS Nano, 2019, 13, 9067-9073.	7.3	69
35	Antiperovskite Nitrides CuNCo_{3â€“x}V_x: Highly Efficient and Durable Electrocatalysts for the Oxygen-Evolution Reaction. Nano Letters, 2019, 19, 7457-7463.	4.5	62
36	Chevrel Phase Mo₆T₈ (T = S, Se) as Electrodes for Advanced Energy Storage. Small, 2017, 13, 1701441.	5.2	61

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37	NASICON-type Li1+2xZr2â^'xCax(PO4)3 with high ionic conductivity at room temperature. RSC Advances, 2011, 1, 1728.	1.7	59
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	Li₂S₆â€Integrated PEOâ€Based Polymer Electrolytes for Allâ€Solidâ€State Lithiumâ€Metal Batteries. Angewandte Chemie, 2021, 133, 17842-17847.	1.6	33
47	Electrolytes for Lithiumâ€and Sodiumâ€Metal Batteries. Chemistry - an Asian Journal, 2020, 15, 3584-3598.	1.7	28
48	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
49	Enhanced Surface Interactions Enable Fast Li⁺ Conduction in Oxide/Polymer Composite Electrolyte. Angewandte Chemie, 2020, 132, 4160-4166.	1.6	27
50	Ni₃FeNâ€Supported Fe₃Pt Intermetallic Nanoalloy as a Highâ€Performance Bifunctional Catalyst for Metalâ€“Air Batteries. Angewandte Chemie, 2017, 129, 10033-10037.	1.6	25
51	General Strategy for Synthesis of Ordered Pt₃M Intermetallics with Ultrasmall Particle Size. Angewandte Chemie, 2020, 132, 7931-7937.	1.6	20
52	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
53	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
54	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

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55	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
56	Effects of grain boundaries and defects on anisotropic magnon transport in textured Sr14Cu24O41. Physical Review B, 2017, 95, .	1.1	10
57	Revealing the Solidâ€State Electrolyte Interfacial Stability Model with Naâ€“K Liquid Alloy. Angewandte Chemie - International Edition, 2022, 61, .	7.2	10
58	A Perovskite Electrolyte That Is Stable in Moist Air for Lithiumâ€Ion Batteries. Angewandte Chemie, 2018, 130, 8723-8727.	1.6	7
59	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
60	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