

Yutao Li

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	PEO/garnet composite electrolytes for solid-state lithium batteries: From ceramic-in-polymer to polymer-in-ceramic. <i>Nano Energy</i> , 2018 , 46, 176-184	17.1	672
57	Plating a Dendrite-Free Lithium Anode with a Polymer/Ceramic/Polymer Sandwich Electrolyte. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9385-8	16.4	662
56	Optimizing Li ⁺ conductivity in a garnet framework. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15357		409
55	Low-Cost High-Energy Potassium Cathode. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2164-2167	16.4	366
54	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 753-756	16.4	341
53	Ni ₃ Fe-N Doped Carbon Sheets as a Bifunctional Electrocatalyst for Air Cathodes. <i>Advanced Energy Materials</i> , 2017 , 7, 1601172	21.8	305
52	Garnet Electrolyte with an Ultralow Interfacial Resistance for Li-Metal Batteries. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6448-6455	16.4	295
51	Controlling the Compositional Chemistry in Single Nanoparticles for Functional Hollow Carbon Nanospheres. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13492-13498	16.4	202
50	Mastering the interface for advanced all-solid-state lithium rechargeable batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13313-13317	11.5	193
49	Novel Hydrogel-Derived Bifunctional Oxygen Electrocatalyst for Rechargeable Air Cathodes. <i>Nano Letters</i> , 2016 , 16, 6516-6522	11.5	192
48	Lithium Distribution in Aluminum-Free Cubic Li ₇ La ₃ Zr ₂ O ₁₂ . <i>Chemistry of Materials</i> , 2011 , 23, 3587-3589	9.6	160
47	LiN-Modified Garnet Electrolyte for All-Solid-State Lithium Metal Batteries Operated at 40 °C. <i>Nano Letters</i> , 2018 , 18, 7414-7418	11.5	160
46	Ni ₃ FeN-Supported Fe Pt Intermetallic Nanoalloy as a High-Performance Bifunctional Catalyst for Metal-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9901-9905	16.4	133
45	High-performance all-solid-state batteries enabled by salt bonding to perovskite in poly(ethylene oxide). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 18815-18821	11.5	117
44	Exploring reversible oxidation of oxygen in a manganese oxide. <i>Energy and Environmental Science</i> , 2016 , 9, 2575-2577	35.4	115
43	Enhanced Surface Interactions Enable Fast Li Conduction in Oxide/Polymer Composite Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4131-4137	16.4	114
42	Active LaNi _{1-x} Fe _x O ₃ bifunctional catalysts for air cathodes in alkaline media. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9421-9426	13	98

41	Fast Li Conduction Mechanism and Interfacial Chemistry of a NASICON/Polymer Composite Electrolyte. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2497-2505	16.4	91
40	Exceptional oxygen evolution reactivities on CaCoO and SrCoO. <i>Science Advances</i> , 2019 , 5, eaav6262	14.3	89
39	A dopamine modified Li _{6.4} La ₃ Zr _{1.4} Ta _{0.6} O ₁₂ /PEO solid-state electrolyte: enhanced thermal and electrochemical properties. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16425-16436	13	82
38	Ultra-high-voltage Ni-rich layered cathodes in practical Li metal batteries enabled by a sulfonamide-based electrolyte. <i>Nature Energy</i> , 2021 , 6, 495-505	62.3	82
37	Robust Fe Mo C Supported IrMn Clusters as Highly Efficient Bifunctional Air Electrode for Metal-Air Battery. <i>Advanced Materials</i> , 2017 , 29, 1702385	24	79
36	A Perovskite Electrolyte That Is Stable in Moist Air for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8587-8591	16.4	76
35	Cathode Dependence of Liquid-Alloy Na-K Anodes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3292-3298	16.4	73
34	Structurally Ordered Fe ₃ Pt Nanoparticles on Robust Nitride Support as a High Performance Catalyst for the Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , 2019 , 9, 1803040	21.8	68
33	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 771-774	3.6	66
32	High Li ⁺ conduction in NASICON-type Li _{1+x} Y _x Zr _{2-x} (PO ₄) ₃ at room temperature. <i>Journal of Power Sources</i> , 2013 , 240, 50-53	8.9	61
31	Reaction Mechanism Optimization of Solid-State Li ₈ Batteries with a PEO-Based Electrolyte. <i>Advanced Functional Materials</i> , 2021 , 31, 2001812	15.6	55
30	Interfacial Chemistry Enables Stable Cycling of All-Solid-State Li Metal Batteries at High Current Densities. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6542-6550	16.4	52
29	Graphene Sandwiched by Sulfur-Confined Mesoporous Carbon Nanosheets: A Kinetically Stable Cathode for Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33704-33711	9.5	51
28	General Strategy for Synthesis of Ordered Pt M Intermetallics with Ultrasmall Particle Size. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7857-7863	16.4	51
27	NASICON-type Li _{1+2x} Zr _{2-x} Cax(PO ₄) ₃ with high ionic conductivity at room temperature. <i>RSC Advances</i> , 2011 , 1, 1728	3.7	49
26	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. <i>ChemNanoMat</i> , 2016 , 2, 712-718	3.5	47
25	A New Type of Electrolyte System To Suppress Polysulfide Dissolution for Lithium-Sulfur Battery. <i>ACS Nano</i> , 2019 , 13, 9067-9073	16.7	45
24	In Situ Formation of Li ₃ P Layer Enables Fast Li ⁺ Conduction across Li/Solid Polymer Electrolyte Interface. <i>Advanced Functional Materials</i> , 2020 , 30, 2000831	15.6	38

23	Antiperovskite Nitrides CuNCoV: Highly Efficient and Durable Electrocatalysts for the Oxygen-Evolution Reaction. <i>Nano Letters</i> , 2019 , 19, 7457-7463	11.5	37
22	Chevrel Phase Mo T (T = S, Se) as Electrodes for Advanced Energy Storage. <i>Small</i> , 2017 , 13, 1701441	11	37
21	Short O-O separation in layered oxide NaCoO enables an ultrafast oxygen evolution reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23473-23479	11.5	35
20	Neat Design for the Structure of Electrode To Optimize the Lithium-Ion Battery Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27106-27115	9.5	30
19	Interfacial challenges for all-solid-state batteries based on sulfide solid electrolytes. <i>Journal of Materiomics</i> , 2021 , 7, 209-218	6.7	30
18	Li S -Integrated PEO-Based Polymer Electrolytes for All-Solid-State Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17701-17706	16.4	25
17	Improved electrochemical performance of bagasse and starch-modified LiNi _{0.5} Mn _{0.3} Co _{0.2} O ₂ materials for lithium-ion batteries. <i>Journal of Materials Science</i> , 2018 , 53, 5242-5254	4.3	21
16	Ni ₃ FeN-Supported Fe ₃ Pt Intermetallic Nanoalloy as a High-Performance Bifunctional Catalyst for Metal-Air Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 10033-10037	3.6	21
15	Enhanced Surface Interactions Enable Fast Li ⁺ Conduction in Oxide/Polymer Composite Electrolyte. <i>Angewandte Chemie</i> , 2020 , 132, 4160-4166	3.6	18
14	Electrolytes for Lithium- and Sodium-Metal Batteries. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 3584-3598	4.5	18
13	Constructing Electronic and Ionic Dual Conductive Polymeric Interface in the Cathode for High-Energy-Density Solid-State Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2008487	15.6	17
12	Enhanced Performance of LiLaZrTaO Solid Electrolyte by the Regulation of Grain and Grain Boundary Phases. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56118-56125	9.5	16
11	General Strategy for Synthesis of Ordered Pt ₃ M Intermetallics with Ultrasmall Particle Size. <i>Angewandte Chemie</i> , 2020 , 132, 7931-7937	3.6	15
10	NASICON Li _{1.2} Mg _{0.1} Zr _{1.9} (PO ₄) ₃ Solid Electrolyte for an All-Solid-State Li-Metal Battery. <i>Small Methods</i> , 2020 , 4, 2000764	12.8	15
9	Li ₂ S ₆ -Integrated PEO-Based Polymer Electrolytes for All-Solid-State Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 17842-17847	3.6	8
8	Effects of grain boundaries and defects on anisotropic magnon transport in textured Sr ₁₄ Cu ₂₄ O ₄₁ . <i>Physical Review B</i> , 2017 , 95,	3.3	7
7	Structural and Electrochemical Consequences of Sodium in the Transition-Metal Layer of O ₃ -Na ₃ Ni _{1.5} TeO ₆ . <i>Chemistry of Materials</i> , 2020 , 32, 10035-10044	9.6	7
6	Low-operating temperature quasi-solid-state potassium-ion battery based on commercial materials. <i>Journal of Colloid and Interface Science</i> , 2021 , 582, 932-939	9.3	6

5	A Perovskite Electrolyte That Is Stable in Moist Air for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 8723-8727	3.6	5
4	Li-ion conductivity and stability of hot-pressed LiTa ₂ PO ₈ solid electrolyte for all-solid-state batteries. <i>Journal of Materials Science</i> , 2021 , 56, 2425-2434	4.3	4
3	Coordination-Assisted Precise Construction of Metal Oxide Nanofilms for High-Performance Solid-State Batteries.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	3
2	Surface Coating on a Separator with a Reductive Solid Li-Ion Conductor for Dendrite-Free Li-Metal Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8621-8628	6.1	3
1	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). <i>Advanced Functional Materials</i> , 2021 , 31, 2170091	15.6	0