

# Yang Lu

## List of Publications by Year in descending order

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23  
papers

2,063  
citations

331670

21  
h-index

642732

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24  
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docs citations

24  
times ranked

1508  
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical Current Density in Solid-State Lithium Metal Batteries: Mechanism, Influences, and Strategies. <i>Advanced Functional Materials</i> , 2021, 31, 2009925.	14.9	239
2	The timescale identification decoupling complicated kinetic processes in lithium batteries. <i>Joule</i> , 2022, 6, 1172-1198.	24.0	207
3	An <i>in situ</i> element permeation constructed high endurance Li-LLZO interface at high current densities. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18853-18858.	10.3	157
4	Acid induced conversion towards a robust and lithiophilic interface for $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14565-14574.	10.3	138
5	Sulfonic Groups Originated Dual-Functional Interlayer for High Performance Lithium-Sulfur Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 14878-14888.	8.0	126
6	Highly stable garnet solid electrolyte based Li-S battery with modified anodic and cathodic interfaces. <i>Energy Storage Materials</i> , 2018, 15, 282-290.	18.0	121
7	Engineering a passivating electric double layer for high performance lithium metal batteries. <i>Nature Communications</i> , 2022, 13, 2029.	12.8	113
8	The carrier transition from Li atoms to Li vacancies in solid-state lithium alloy anodes. <i>Science Advances</i> , 2021, 7, eabi5520.	10.3	110
9	Dry electrode technology, the rising star in solid-state battery industrialization. <i>Matter</i> , 2022, 5, 876-898.	10.0	108
10	A 3D Cross-Linking Lithiophilic and Electronically Insulating Interfacial Engineering for Garnet-Type Solid-State Lithium Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2007815.	14.9	82
11	Anode-Free Solid-State Lithium Batteries: A Review. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	81
12	A Self-Limited Free-Standing Sulfide Electrolyte Thin Film for All-Solid-State Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101985.	14.9	77
13	A rGO-CNT aerogel covalently bonded with a nitrogen-rich polymer as a polysulfide adsorptive cathode for high sulfur loading lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14775-14782.	10.3	71
14	In Situ Lithiophilic Layer from $\text{H}^+/\text{Li}^+$ Exchange on Garnet Surface for the Stable Lithium-Solid Electrolyte Interface. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35030-35038.	8.0	70
15	Method Using Water-Based Solvent to Prepare $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Solid Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17147-17155.	8.0	58
16	Recent Progress in Liquid Electrolyte-Based Li-S Batteries: Shuttle Problem and Solutions. <i>Electrochemical Energy Reviews</i> , 2018, 1, 599-624.	25.5	56
17	Understanding the Impedance Response of Lithium Polysulfide Symmetric Cells. <i>Small Science</i> , 2021, 1, 2100042.	9.9	54
18	Dry electrode technology for scalable and flexible high-energy sulfur cathodes in all-solid-state lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2022, 71, 612-618.	12.9	54

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19	Slurry-Coated Sulfur/Sulfide Cathode with Li Metal Anode for All-Solid-State Lithium-Sulfur Pouch Cells. Batteries and Supercaps, 2020, 3, 596-603.	4.7	50
20	Rationally Designed Fluorinated Amide Additive Enables the Stable Operation of Lithium Metal Batteries by Regulating the Interfacial Chemistry. Nano Letters, 2022, 22, 5936-5943.	9.1	36
21	From protonation & Li-rich contamination to grain-boundary segregation: Evaluations of solvent-free vs. wet routes on preparing Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> solid electrolyte. Journal of Energy Chemistry, 2022, 73, 223-239.	12.9	24
22	Highly active mixed-valent MnO <sub>x</sub> spheres constructed by nanocrystals as efficient catalysts for long-cycle Li-O <sub>2</sub> batteries. Journal of Materials Chemistry A, 2016, 4, 17129-17137.	10.3	22
23	Li <sub>1.5</sub> Al <sub>0.5</sub> Ge <sub>1.5</sub> (PO <sub>4</sub> ) <sub>3</sub> Ceramic Based Lithium-Sulfur Batteries with High Cycling Stability Enabled by a Dual Confinement Effect for Polysulfides. ChemElectroChem, 2020, 7, 4093-4100.	3.4	9