

# Bingyu Lu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11852754/publications.pdf>

Version: 2024-02-01

17  
papers

2,451  
citations

567281

15  
h-index

888059

17  
g-index

17  
all docs

17  
docs citations

17  
times ranked

2340  
citing authors

#	ARTICLE	IF	CITATIONS
1	Leveraging cryogenic electron microscopy for advancing battery design. <i>Matter</i> , 2022, 5, 26-42.	10.0	20
2	Interphase control for high performance lithium metal batteries using ether aided ionic liquid electrolyte. <i>Energy and Environmental Science</i> , 2022, 15, 1907-1919.	30.8	62
3	Bridging nano- and microscale X-ray tomography for battery research by leveraging artificial intelligence. <i>Nature Nanotechnology</i> , 2022, 17, 446-459.	31.5	66
4	Fire-extinguishing, recyclable liquefied gas electrolytes for temperature-resilient lithium-metal batteries. <i>Nature Energy</i> , 2022, 7, 548-559.	39.5	60
5	Unraveling the Stable Cathode Electrolyte Interface in all Solid-State Thin-Film Battery Operating at 5ÅV. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	15
6	A Safer, Wide-Temperature Liquefied Gas Electrolyte Based on Difluoromethane. <i>Journal of Power Sources</i> , 2021, 493, 229668.	7.8	18
7	A closed-host bi-layer dense/porous solid electrolyte interphase for enhanced lithium-metal anode stability. <i>Materials Today</i> , 2021, 49, 48-58.	14.2	22
8	Quantitatively Designing Porous Copper Current Collectors for Lithium Metal Anodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 6454-6465.	5.1	17
9	Carbon-free high-loading silicon anodes enabled by sulfide solid electrolytes. <i>Science</i> , 2021, 373, 1494-1499.	12.6	393
10	Quantifying lithium loss in amorphous silicon thin-film anodes via titration-gas chromatography. <i>Cell Reports Physical Science</i> , 2021, 2, 100597.	5.6	14
11	Role of electrolyte in stabilizing hard carbon as an anode for rechargeable sodium-ion batteries with long cycle life. <i>Energy Storage Materials</i> , 2021, 42, 78-87.	18.0	61
12	Pressure-tailored lithium deposition and dissolution in lithium metal batteries. <i>Nature Energy</i> , 2021, 6, 987-994.	39.5	208
13	Conformal three-dimensional interphase of Li metal anode revealed by low-dose cryoelectron microscopy. <i>Matter</i> , 2021, 4, 3741-3752.	10.0	37
14	Glassy Li metal anode for high-performance rechargeable Li batteries. <i>Nature Materials</i> , 2020, 19, 1339-1345.	27.5	162
15	Unveiling the Stable Nature of the Solid Electrolyte Interphase between Lithium Metal and LiPON via Cryogenic Electron Microscopy. <i>Joule</i> , 2020, 4, 2484-2500.	24.0	136
16	Quantifying inactive lithium in lithium metal batteries. <i>Nature</i> , 2019, 572, 511-515.	27.8	852
17	New Insights on the Structure of Electrochemically Deposited Lithium Metal and Its Solid Electrolyte Interphases via Cryogenic TEM. <i>Nano Letters</i> , 2017, 17, 7606-7612.	9.1	308