

# Linze Li

## List of Publications by Year in descending order

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57  
papers

3,654  
citations

236612

25  
h-index

182168

51  
g-index

59  
all docs

59  
docs citations

59  
times ranked

5502  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical dynamics of nanoscale metallic inclusions in dielectrics. Nature Communications, 2014, 5, 4232.	5.8	511
2	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor In <sub>2</sub> Se <sub>3</sub> . Nano Letters, 2018, 18, 1253-1258.	4.5	509
3	Reversible planar gliding and microcracking in a single-crystalline Ni-rich cathode. Science, 2020, 370, 1313-1317.	6.0	472
4	Quasiparticle energies and excitonic effects of the two-dimensional carbon allotrope graphdiyne: Theory and experiment. Physical Review B, 2011, 84, .	1.1	305
5	Tuning Electronic Structure of Bilayer MoS <sub>2</sub> by Vertical Electric Field: A First-Principles Investigation. Journal of Physical Chemistry C, 2012, 116, 21556-21562.	1.5	297
6	Ferroelastic domain switching dynamics under electrical and mechanical excitations. Nature Communications, 2014, 5, 3801.	5.8	135
7	Real-space charge-density imaging with sub-Ångström resolution by four-dimensional electron microscopy. Nature, 2019, 575, 480-484.	13.7	127
8	Elucidation of the Active Sites in Single-Atom Pd <sub>1</sub> /CeO <sub>2</sub> Catalysts for Low-Temperature CO Oxidation. ACS Catalysis, 2020, 10, 11356-11364.	5.5	123
9	Functionalized Graphene for High-Performance Two-Dimensional Spintronics Devices. ACS Nano, 2011, 5, 2601-2610.	7.3	116
10	Giant Resistive Switching via Control of Ferroelectric Charged Domain Walls. Advanced Materials, 2016, 28, 6574-6580.	11.1	83
11	Atomic Scale Structure Changes Induced by Charged Domain Walls in Ferroelectric Materials. Nano Letters, 2013, 13, 5218-5223.	4.5	59
12	Anisotropic polarization-induced conductance at a ferroelectric-insulator interface. Nature Nanotechnology, 2018, 13, 1132-1136.	15.6	53
13	Defect-Induced Hedgehog Polarization States in Multiferroics. Physical Review Letters, 2018, 120, 137602.	2.9	52
14	Real-time studies of ferroelectric domain switching: a review. Reports on Progress in Physics, 2019, 82, 126502.	8.1	51
15	Locking oxygen in lattice: A quantifiable comparison of gas generation in polycrystalline and single crystal Ni-rich cathodes. Energy Storage Materials, 2022, 47, 195-202.	9.5	50
16	Giant Ferroelectric Polarization in Ultrathin Ferroelectrics via Boundary Condition Engineering. Advanced Materials, 2017, 29, 1701475.	11.1	47
17	Atomic-Scale Mechanisms of Defect-Induced Retention Failure in Ferroelectrics. Nano Letters, 2017, 17, 3556-3562.	4.5	43
18	Robust topological surface state in Kondo insulator SmB <sub>6</sub> thin films. Applied Physics Letters, 2014, 105, 222403.	1.5	42

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19	Highly Uniform Resistive Switching in HfO <sub>2</sub> Films Embedded with Ordered Metal Nanoisland Arrays. <i>Advanced Functional Materials</i> , 2019, 29, 1808430.	7.8	42
20	Atomic-Scale Mechanisms of Enhanced Electrochemical Properties of Mo-Doped Co-Free Layered Oxide Cathodes for Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2019, 4, 2540-2546.	8.8	40
21	Intrinsic Conductance of Domain Walls in BiFeO <sub>3</sub> . <i>Advanced Materials</i> , 2019, 31, e1902099.	11.1	39
22	Redox Behaviors in a Li-Excess Cation-Disordered Mn <sup>2+</sup> Nb <sup>5+</sup> O <sub>4</sub> F Rocksalt Cathode. <i>Chemistry of Materials</i> , 2020, 32, 4490-4498.	3.2	37
23	Mesoscale-architecture-based crack evolution dictating cycling stability of advanced lithium ion batteries. <i>Nano Energy</i> , 2021, 79, 105420.	8.2	36
24	Control of Domain Structures in Multiferroic Thin Films through Defect Engineering. <i>Advanced Materials</i> , 2018, 30, e1802737.	11.1	31
25	Fluorination-Enhanced Surface Stability of Cation-Disordered Rocksalt Cathodes for Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101888.	7.8	28
26	Understanding Reactivities of Ni-Rich Li[Ni <sub>x</sub> Mn <sub>y</sub> Co <sub>1-x-y</sub> ]O <sub>2</sub> Single-Crystal Cathode Materials. <i>ACS Applied Energy Materials</i> , 2020, 3, 12238-12245.	2.5	24
27	Hidden Subsurface Reconstruction and Its Atomic Origins in Layered Oxide Cathodes. <i>Nano Letters</i> , 2020, 20, 2756-2762.	4.5	24
28	New synthesis strategies to improve Co-Free LiNi <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> cathodes: Early transition metal d <sub>0</sub> dopants and manganese pyrophosphate coating. <i>Journal of Power Sources</i> , 2020, 479, 228591.	4.0	22
29	Discovery of a magnetic conductive interface in PbZr <sub>0.2</sub> Ti <sub>0.8</sub> O <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. <i>Nature Communications</i> , 2018, 9, 685.	5.8	20
30	Switching the curl of polarization vectors by an irrotational electric field. <i>Physical Review B</i> , 2016, 94, .	1.1	19
31	Structures and electronic properties of domain walls in BiFeO <sub>3</sub> thin films. <i>National Science Review</i> , 2019, 6, 669-683.	4.6	18
32	Observation of Strong Polarization Enhancement in Ferroelectric Tunnel Junctions. <i>Nano Letters</i> , 2019, 19, 6812-6818.	4.5	18
33	Spontaneous Hall effect enhanced by local Ir moments in epitaxial Pr <sub>2</sub> Ir <sub>2</sub> O <sub>7</sub> thin films. <i>Physical Review B</i> , 2020, 101, .	1.1	17
34	Stable Solid Electrolyte Interphase Layer Formed by Electrochemical Pretreatment of Gel Polymer Coating on Li Metal Anode for Lithium-Oxygen Batteries. <i>ACS Energy Letters</i> , 2021, 6, 3321-3331.	8.8	17
35	Exceptional Cycling Performance Enabled by Local Structural Rearrangements in Disordered Rocksalt Cathodes. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	15
36	In situ electron microscopy of ferroelectric domains. <i>MRS Bulletin</i> , 2015, 40, 53-61.	1.7	13

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37	Formation of LiF Surface Layer During Direct Fluorination of High-Capacity Co-Free Disordered Rocksalt Cathodes. ACS Applied Materials & Interfaces, 2021, 13, 38221-38228.	4.0	13
38	Interplay between Cation and Anion Redox in Ni-Based Disordered Rocksalt Cathodes. ACS Nano, 2021, 15, 13360-13369.	7.3	13
39	Polarized Nonresonant Raman Spectra of Graphene Nanoribbons. Journal of Physical Chemistry C, 2011, 115, 24463-24468.	1.5	11
40	Fluorination-Enhanced Surface Stability of Disordered Rocksalt Cathodes. Advanced Materials, 2022, 34, e2106256.	11.1	11
41	Electronic Structure and Stability of Ultranarrow Single-Layer Sn <sub>2</sub> Nanoribbons: A First-Principles Study. Journal of Computational and Theoretical Nanoscience, 2010, 7, 2100-2103.	0.4	10
42	A Lithium Feedstock Pathway: Coupled Electrochemical Extraction and Direct Battery Materials Manufacturing. ACS Energy Letters, 2022, 7, 2420-2427.	8.8	9
43	Double-tilt in situ TEM holder with ultra-high stability. Ultramicroscopy, 2018, 192, 1-6.	0.8	8
44	Role of Fluorine in Chemomechanics of Cation-Disordered Rocksalt Cathodes. Chemistry of Materials, 2021, 33, 7028-7038.	3.2	8
45	LT-LiMn <sub>0.5</sub> Ni <sub>0.5</sub> O <sub>2</sub> : a unique co-free cathode for high energy Li-ion cells. Chemical Communications, 2021, 57, 11009-11012.	2.2	8
46	Origin, Nature, and the Dynamic Behavior of Nanoscale Vacancy Clusters in Ni-Rich Layered Oxide Cathodes. ACS Applied Materials & Interfaces, 2021, 13, 18849-18855.	4.0	7
47	Sign-changeable spin-filter efficiency and giant magnetoresistance in seamless graphene nanoribbon junctions. Computational Materials Science, 2011, 50, 2886-2890.	1.4	6
48	Atomic Structure and Properties of Charged Domain Walls in BiFeO <sub>3</sub> Films. Microscopy and Microanalysis, 2013, 19, 1654-1655.	0.2	5
49	Exposure History and its Effect Towards Stabilizing Li Exchange Across Disordered Rock Salt Interfaces. ChemElectroChem, 2021, 8, 3982-3991.	1.7	4
50	Size Effect on Spontaneous Flux-closure Domains in BiFeO <sub>3</sub> Thin Films. Microscopy and Microanalysis, 2016, 22, 1596-1597.	0.2	2
51	Mechanical and Electrical Control of Charged Domain Walls in Ferroelectric Materials. Microscopy and Microanalysis, 2014, 20, 1546-1547.	0.2	0
52	Atomic-scale Mechanisms of Defect-Induced Retention Failure in Ferroelectric Materials. Microscopy and Microanalysis, 2015, 21, 1307-1308.	0.2	0
53	Interaction between Ferroelectric Polarization and Defects in BiFeO <sub>3</sub> Thin Films. Microscopy and Microanalysis, 2017, 23, 1604-1605.	0.2	0
54	Partial Ferroelastic Domain Mediated Ferroelectric Domain Switching. Microscopy and Microanalysis, 2017, 23, 1624-1625.	0.2	0

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55	Double-tilt in situ TEM Holder with Ultra-high Stability. <i>Microscopy and Microanalysis</i> , 2018, 24, 1890-1891.	0.2	0
56	Observation of Dislocation-Assisted 2-Dimensional Conductive Channels Embedded in Perovskite Thin Films. <i>Microscopy and Microanalysis</i> , 2019, 25, 2410-2411.	0.2	0
57	Hidden Subsurface Reconstruction and Its Atomic Origins in Layered Oxide Cathodes. <i>Microscopy and Microanalysis</i> , 2020, 26, 2542-2544.	0.2	0