Linze Li

List of Publications by Year
in descending order

57 papers	3,654 citations	236925 25 h-index	182427 51 g-index
59 all docs	59 docs citations	59 times ranked	5502 citing authors

#	Article	IF	Citations
1	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.	18.0	50
2	Fluorinationâ€Enhanced Surface Stability of Disordered Rocksalt Cathodes. Advanced Materials, 2022, 34, e2106256.	21.0	11
3	Exceptional Cycling Performance Enabled by Local Structural Rearrangements in Disordered Rocksalt Cathodes. Advanced Energy Materials, 2022, 12, .	19.5	15
4	A Lithium Feedstock Pathway: Coupled Electrochemical Extraction and Direct Battery Materials Manufacturing. ACS Energy Letters, 2022, 7, 2420-2427.	17.4	9
5	Mesoscale-architecture-based crack evolution dictating cycling stability of advanced lithium ion batteries. Nano Energy, 2021, 79, 105420.	16.0	36
6	Fluorinationâ€Enhanced Surface Stability of Cationâ€Disordered Rocksalt Cathodes for Liâ€Ion Batteries. Advanced Functional Materials, 2021, 31, 2101888.	14.9	28
7	Origin, Nature, and the Dynamic Behavior of Nanoscale Vacancy Clusters in Ni-Rich Layered Oxide Cathodes. ACS Applied Materials & Interfaces, 2021, 13, 18849-18855.	8.0	7
8	Formation of LiF Surface Layer During Direct Fluorination of High-Capacity Co-Free Disordered Rocksalt Cathodes. ACS Applied Materials & Interfaces, 2021, 13, 38221-38228.	8.0	13
9	Interplay between Cation and Anion Redox in Ni-Based Disordered Rocksalt Cathodes. ACS Nano, 2021, 15, 13360-13369.	14.6	13
10	Role of Fluorine in Chemomechanics of Cation-Disordered Rocksalt Cathodes. Chemistry of Materials, 2021, 33, 7028-7038.	6.7	8
11	Stable Solid Electrolyte Interphase Layer Formed by Electrochemical Pretreatment of Gel Polymer Coating on Li Metal Anode for Lithiumâ€“Oxygen Batteries. ACS Energy Letters, 2021, 6, 3321-3331.	17.4	17
12	Exposure History and its Effect Towards Stabilizing Li Exchange Across Disordered Rock Salt Interfaces. ChemElectroChem, 2021, 8, 3982-3991.	3.4	4
13	LT-LiMn_{0.5}Ni_{0.5}O₂: a unique co-free cathode for high energy Li-ion cells. Chemical Communications, 2021, 57, 11009-11012.	4.1	8
14	New synthesis strategies to improve Co-Free LiNi0.5Mn0.5O2 cathodes: Early transition metal d0 dopants and manganese pyrophosphate coating. Journal of Power Sources, 2020, 479, 228591.	7.8	22
15	Understanding Reactivities of Ni-Rich Li[Ni_xMn_yCo_{1â€“xâ€“y}]O₂ Single-Crystal Cathode Materials. ACS Applied Energy Materials, 2020, 3, 12238-12245.	5.1	24
16	Elucidation of the Active Sites in Single-Atom Pd₁/CeO₂ Catalysts for Low-Temperature CO Oxidation. ACS Catalysis, 2020, 10, 11356-11364.	11.2	123
17	Reversible planar gliding and microcracking in a single-crystalline Ni-rich cathode. Science, 2020, 370, 1313-1317.	12.6	472
18	Hidden Subsurface Reconstruction and Its Atomic Origins in Layered Oxide Cathodes. Microscopy and Microanalysis, 2020, 26, 2542-2544.	0.4	0

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19	Redox Behaviors in a Li-Excess Cation-Disordered Mnâ€“Nbâ€“Oâ€“F Rocksalt Cathode. Chemistry of Materials, 2020, 32, 4490-4498.	6.7	37
20	Spontaneous Hall effect enhanced by local Ir moments in epitaxial Pr2Ir2O7 thin films. Physical Review B, 2020, 101, .	3.2	17
21	Hidden Subsurface Reconstruction and Its Atomic Origins in Layered Oxide Cathodes. Nano Letters, 2020, 20, 2756-2762.	9.1	24
22	Intrinsic Conductance of Domain Walls in BiFeO₃. Advanced Materials, 2019, 31, e1902099.	21.0	39
23	Structures and electronic properties of domain walls in BiFeO3 thin films. National Science Review, 2019, 6, 669-683.	9.5	18
24	Observation of Strong Polarization Enhancement in Ferroelectric Tunnel Junctions. Nano Letters, 2019, 19, 6812-6818.	9.1	18
25	Observation of Dislocation-Assisted 2-Dimensional Conductive Channels Embedded in Perovskite Thin Films. Microscopy and Microanalysis, 2019, 25, 2410-2411.	0.4	0
26	Atomic-Scale Mechanisms of Enhanced Electrochemical Properties of Mo-Doped Co-Free Layered Oxide Cathodes for Lithium-Ion Batteries. ACS Energy Letters, 2019, 4, 2540-2546.	17.4	40
27	Real-time studies of ferroelectric domain switching: a review. Reports on Progress in Physics, 2019, 82, 126502.	20.1	51
28	Highly Uniform Resistive Switching in HfO₂ Films Embedded with Ordered Metal Nanoisland Arrays. Advanced Functional Materials, 2019, 29, 1808430.	14.9	42
29	Real-space charge-density imaging with sub-Ã¥ngstrÃ¶m resolution by four-dimensional electron microscopy. Nature, 2019, 575, 480-484.	27.8	127
30	Discovery of a magnetic conductive interface in PbZr0.2Ti0.8O3 /SrTiO3 heterostructures. Nature Communications, 2018, 9, 685.	12.8	20
31	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor In₂Se₃. Nano Letters, 2018, 18, 1253-1258.	9.1	509
32	Defect-Induced Hedgehog Polarization States in Multiferroics. Physical Review Letters, 2018, 120, 137602.	7.8	52
33	Double-tilt in situ TEM Holder with Ultra-high Stability. Microscopy and Microanalysis, 2018, 24, 1890-1891.	0.4	0
34	Anisotropic polarization-induced conductance at a ferroelectricâ€“insulator interface. Nature Nanotechnology, 2018, 13, 1132-1136.	31.5	53
35	Control of Domain Structures in Multiferroic Thin Films through Defect Engineering. Advanced Materials, 2018, 30, e1802737.	21.0	31
36	Double-tilt in situ TEM holder with ultra-high stability. Ultramicroscopy, 2018, 192, 1-6.	1.9	8

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37	Atomic-Scale Mechanisms of Defect-Induced Retention Failure in Ferroelectrics. Nano Letters, 2017, 17, 3556-3562.	9.1	43
38	Interaction between Ferroelectric Polarization and Defects in BiFeO3 Thin Films. Microscopy and Microanalysis, 2017, 23, 1604-1605.	0.4	0
39	Partial Ferroelastic Domain Mediated Ferroelectric Domain Switching. Microscopy and Microanalysis, 2017, 23, 1624-1625.	0.4	0
40	Giant Ferroelectric Polarization in Ultrathin Ferroelectrics via Boundaryâ€Condition Engineering. Advanced Materials, 2017, 29, 1701475.	21.0	47
41	Giant Resistive Switching via Control of Ferroelectric Charged Domain Walls. Advanced Materials, 2016, 28, 6574-6580.	21.0	83
42	Size Effect on Spontaneous Flux-closure Domains in BiFeO 3 Thin Films. Microscopy and Microanalysis, 2016, 22, 1596-1597.	0.4	2
43	Switching the curl of polarization vectors by an irrotational electric field. Physical Review B, 2016, 94, .	3.2	19
44	Atomic-scale Mechanisms of Defect-Induced Retention Failure in Ferroelectric Materials. Microscopy and Microanalysis, 2015, 21, 1307-1308.	0.4	0
45	In situ electron microscopy of ferroelectric domains. MRS Bulletin, 2015, 40, 53-61.	3.5	13
46	Robust topological surface state in Kondo insulator SmB₆ thin films. Applied Physics Letters, 2014, 105, 222403.	3.3	42
47	Ferroelastic domain switching dynamics under electrical and mechanical excitations. Nature Communications, 2014, 5, 3801.	12.8	135
48	Electrochemical dynamics of nanoscale metallic inclusions in dielectrics. Nature Communications, 2014, 5, 4232.	12.8	511
49	Mechanical and Electrical Control of Charged Domain Walls in Ferroelectric Materials. Microscopy and Microanalysis, 2014, 20, 1546-1547.	0.4	0
50	Atomic Scale Structure Changes Induced by Charged Domain Walls in Ferroelectric Materials. Nano Letters, 2013, 13, 5218-5223.	9.1	59
51	Atomic Structure and Properties of Charged Domain Walls in BiFeO3 Films. Microscopy and Microanalysis, 2013, 19, 1654-1655.	0.4	5
52	Tuning Electronic Structure of Bilayer MoS₂ by Vertical Electric Field: A First-Principles Investigation. Journal of Physical Chemistry C, 2012, 116, 21556-21562.	3.1	297
53	Polarized Nonresonant Raman Spectra of Graphene Nanoribbons. Journal of Physical Chemistry C, 2011, 115, 24463-24468.	3.1	11
54	Functionalized Graphene for High-Performance Two-Dimensional Spintronics Devices. ACS Nano, 2011, 5, 2601-2610.	14.6	116

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55	Sign-changeable spin-filter efficiency and giant magnetoresistance in seamless graphene nanoribbon junctions. Computational Materials Science, 2011, 50, 2886-2890.	3.0	6
56	Quasiparticle energies and excitonic effects of the two-dimensional carbon allotrope graphdiyne: Theory and experiment. Physical Review B, 2011, 84, .	3.2	305
57	Electronic Structure and Stability of Ultranarrow Single-Layer SnS₂ Nanoribbons: A First-Principles Study. Journal of Computational and Theoretical Nanoscience, 2010, 7, 2100-2103.	0.4	10