## Lei Jin

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/920802/publications.pdf

Version: 2024-02-01

		218677	214800
85	2,519	26	47
papers	citations	h-index	g-index
88	88	88	4342
all docs	docs citations	times ranked	citing authors
un 4000	4000 014410110	- Imico rumou	

#	Article	IF	CITATIONS
1	Ultrahigh Energy Storage Performance of Leadâ€Free Oxide Multilayer Film Capacitors via Interface Engineering. Advanced Materials, 2017, 29, 1604427.	21.0	247
2	Stable iridium dinuclear heterogeneous catalysts supported on metal-oxide substrate for solar water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2902-2907.	7.1	229
3	Boosting the Thermoelectric Performance of (Na,K)-Codoped Polycrystalline SnSe by Synergistic Tailoring of the Band Structure and Atomic-Scale Defect Phonon Scattering. Journal of the American Chemical Society, 2017, 139, 9714-9720.	13.7	168
4	Tuning electrochemically driven surface transformation in atomically flat LaNiO3 thin films for enhanced water electrolysis. Nature Materials, 2021, 20, 674-682.	27.5	105
5	Template-free synthesis of BiVO <sub>4</sub> nanostructures: I. Nanotubes with hexagonal cross sections by oriented attachment and their photocatalytic property for water splitting under visible light. Nanotechnology, 2009, 20, 115603.	2.6	103
6	Carrier lifetime enhancement in halide perovskite via remote epitaxy. Nature Communications, 2019, 10, 4145.	12.8	93
7	Twin boundary defect engineering improves lithium-ion diffusion for fast-charging spinel cathode materials. Nature Communications, 2021, 12, 3085.	12.8	77
8	Electron ptychographic phase imaging of light elements in crystalline materials using Wigner distribution deconvolution. Ultramicroscopy, 2017, 180, 173-179.	1.9	67
9	Template-free synthesis of BiVO <sub>4</sub> nanostructures: II. Relationship between various microstructures for monoclinic BiVO <sub>4</sub> and their photocatalytic activity for the degradation of rhodamine B under visible light. Nanotechnology, 2009, 20, 405602.	2.6	64
10	Boosting Photoelectrochemical Water Oxidation of Hematite in Acidic Electrolytes by Surface State Modification. Advanced Energy Materials, 2019, 9, 1901836.	19.5	64
11	Atomic scale imaging of magnetic circular dichroism by achromatic electron microscopy. Nature Materials, 2018, 17, 221-225.	27.5	60
12	Topological Defects with Distinct Dipole Configurations in <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mi>PbTiO</mml:mi></mml:mrow><mml:mn>3<td>nml:mn&gt;&lt;</td><td>/mfil:msub&gt; &lt;</td></mml:mn></mml:msub></mml:mrow></mml:math>	nml:mn><	/mfil:msub> <
13	Understanding Nanostructuring Processes in Thermoelectrics and Their Effects on Lattice Thermal Conductivity. Advanced Materials, 2016, 28, 2737-2743.	21.0	54
14	Nonstoichiometry accommodation in SrTiO <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math> thin films studied by positron annihilation and electron microscopy. Physical Review B, 2013, 87, .	3.2	52
15	Predicting 3D Structure, Flexibility, and Stability of RNA Hairpins in Monovalent and Divalent Ion Solutions. Biophysical Journal, 2015, 109, 2654-2665.	0.5	51
16	Tunneling anisotropic magnetoresistance driven by magnetic phase transition. Nature Communications, 2017, 8, 449.	12.8	49
17	Formation of aligned ZnO nanotube arrays by chemical etching and coupling with CdSe for photovoltaic application. Thin Solid Films, 2010, 518, 5146-5152.	1.8	39
18	Ordering and Phase Control in Epitaxial Double-Perovskite Catalysts for the Oxygen Evolution Reaction. ACS Catalysis, 2017, 7, 7029-7037.	11.2	35

#	Article	IF	Citations
19	Predicting 3D structure and stability of RNA pseudoknots in monovalent and divalent ion solutions. PLoS Computational Biology, 2018, 14, e1006222.	3.2	35
20	Tuning Li-enrichment in high-Ni layered oxide cathodes to optimize electrochemical performance for Li-ion battery. Nano Energy, 2019, 62, 709-717.	16.0	33
21	Nanodomains and nanometer-scale disorder in multiferroic bismuth ferrite single crystals. Acta Materialia, 2015, 82, 356-368.	7.9	32
22	A highly-stable layered Fe/Mn-based cathode with ultralow strain for advanced sodium-ion batteries. Nano Energy, 2021, 88, 106206.	16.0	32
23	Synthesis and analysis of abnormal wurtzite ZnSe nanowheels. Journal of Applied Physics, 2007, 102, 044302.	2.5	31
24	TEM study of ã€^110〉-type 35.26° dislocations specially induced by polishing of SrTiO3 single crystals. Ultramicroscopy, 2013, 134, 77-85.	1.9	31
25	Polarizationâ€Induced Charge Distribution at Homogeneous Zincblende/Wurtzite Heterostructural Junctions in ZnSe Nanobelts. Advanced Materials, 2012, 24, 1328-1332.	21.0	30
26	Triple-Crystal Zinc Selenide Nanobelts. Journal of Physical Chemistry C, 2007, 111, 9055-9059.	3.1	28
27	Modeling Structure, Stability, and Flexibility of Double-Stranded RNAs in Salt Solutions. Biophysical Journal, 2018, 115, 1403-1416.	0.5	28
28	Controlled Charging of Ferroelastic Domain Walls in Oxide Ferroelectrics. ACS Applied Materials & Samp; Interfaces, 2017, 9, 6539-6546.	8.0	27
29	Dislocation Evolution and Migration at Grain Boundaries in Thermoelectric SnTe. ACS Applied Energy Materials, 2019, 2, 2392-2397.	5.1	27
30	Structure folding of RNA kissing complexes in salt solutions: predicting 3D structure, stability, and folding pathway. Rna, 2019, 25, 1532-1548.	3.5	24
31	What is the best reference state for building statistical potentials in RNA 3D structure evaluation?. Rna, 2019, 25, 793-812.	3.5	23
32	Direct Demonstration of a Magnetic Dead Layer Resulting from Aâ€6ite Cation Inhomogeneity in a (La,Sr)MnO <sub>3</sub> Epitaxial Film System. Advanced Materials Interfaces, 2016, 3, 1600414.	3.7	22
33	Diffusional-displacive transformation enables formation of long-period stacking order in magnesium. Scientific Reports, 2017, 7, 4046.	3.3	22
34	Electrolysis of Water at Atomically Tailored Epitaxial Cobaltite Surfaces. Chemistry of Materials, 2019, 31, 2337-2346.	6.7	22
35	Spherical aberration correction in a scanning transmission electron microscope using a sculpted thin film. Ultramicroscopy, 2018, 189, 46-53.	1.9	21
36	Unconventional anomalous Hall effect driven by oxygen-octahedra-tailoring of the SrRuO <sub>3</sub> structure. JPhys Materials, 2019, 2, 034008.	4.2	21

#	Article	IF	CITATIONS
37	Etching-Assisted Route to Heterophase Au Nanowires with Multiple Types of Active Surface Sites for Silane Oxidation. Nano Letters, 2019, 19, 6363-6369.	9.1	19
38	Realizing high thermoelectric performance in n-type SnSe polycrystals via (Pb, Br) co-doping and multi-nanoprecipitates synergy. Journal of Alloys and Compounds, 2021, 864, 158401.	5 <b>.</b> 5	19
39	{113} Twinned ZnSe Bicrystal Nanobelts Filled with <111> Twinnings. Journal of Physical Chemistry C, 2008, 112, 4903-4907.	3.1	18
40	Origin of the hump anomalies in the Hall resistance loops of ultrathin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>SrRuO</mml:mi><m .<="" 2021,="" 5,="" materials,="" multilayers.="" physical="" review="" td=""><td>ml<b>2m</b>n&gt;3<!--</td--><td>/m<b>ɪs</b>l:mn&gt;</td></td></m></mml:msub></mml:mrow></mml:math>	ml <b>2m</b> n>3 </td <td>/m<b>ɪs</b>l:mn&gt;</td>	/m <b>ɪs</b> l:mn>
41	Exsolution of Embedded Nanoparticles in Defect Engineered Perovskite Layers. ACS Nano, 2021, 15, 4546-4560.	14.6	18
42	Domain matching epitaxy of BaBiO3 on SrTiO3 with structurally modified interface. Applied Physics Letters, 2018, 112, 141601.	3.3	17
43	Electronic Inhomogeneity Influence on the Anomalous Hall Resistivity Loops of SrRuO <sub>3</sub> Epitaxially Interfaced with 5d Perovskites. ACS Omega, 2020, 5, 5824-5833.	3 <b>.</b> 5	16
44	Atomic resolution imaging of YAlO3: Ce in the chromatic and spherical aberration corrected PICO electron microscope. Ultramicroscopy, 2017, 176, 99-104.	1.9	15
45	Atomic Structure and Electron Magnetic Circular Dichroism of Individual Rock Salt Structure Antiphase Boundaries in Spinel Ferrites. Advanced Functional Materials, 2021, 31, 2008306.	14.9	15
46	Towards a holographic approach to spherical aberration correction in scanning transmission electron microscopy. Optics Express, 2017, 25, 21851.	3.4	14
47	Growth of ZnSe Nanospirals with Bending Mediated by Lomerâ^'Cottrell Sessile Dislocations through Varying Pressure. Crystal Growth and Design, 2008, 8, 3829-3833.	3.0	13
48	Surface reconstructions and related local properties of a BiFeO3 thin film. Scientific Reports, 2017, 7, 39698.	3.3	13
49	Enhanced room-temperature magnetoresistance in high-temperature sintered La2/3Sr1/3MnO3 doped with ZrO2. Physica B: Condensed Matter, 2007, 391, 206-211.	2.7	12
50	Fabrication and characterization of amorphous silica nanostructures. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 4622-4626.	2.1	12
51	ZnSe Heterocrystalline Junctions Based on Zinc Blendeâ^'Wurtzite Polytypism. Journal of Physical Chemistry C, 2010, 114, 1411-1415.	3.1	12
52	Mobility Modulation and Suppression of Defect Formation in Two-Dimensional Electron Systems by Charge-Transfer Management. ACS Applied Materials & Samp; Interfaces, 2017, 9, 10888-10896.	8.0	12
53	Effect of cation ratio and order on magnetic circular dichroism in the double perovskite Sr2Fe1+Re1-O6. Ultramicroscopy, 2018, 193, 137-142.	1.9	11
54	Magnetic coupling of ferromagnetic SrRuO3 epitaxial layers separated by ultrathin non-magnetic SrZrO3/SrIrO3. Applied Physics Letters, 2018, 113, .	3.3	10

#	Article	IF	CITATIONS
55	Atomic-scale evidence for displacive disorder in bismuth zinc niobate pyrochlore. Ultramicroscopy, 2018, 192, 57-68.	1.9	10
56	The grainâ€boundary resistance of CeO <sub>2</sub> ceramics: A combined microscopyâ€spectroscopyâ€simulation study of a dilute solution. Journal of the American Ceramic Society, 2020, 103, 1755-1764.	3.8	10
57	Twinning mediated growth of ZnSe tri- and bi-crystal nanobelts with single crystalline wurtzite nanobelts as building blocks. CrystEngComm, 2010, 12, 150-158.	2.6	9
58	Ultrathin highly uniform Ni(Al) germanosilicide layer with modulated B8 type Ni5(SiGe)3 phase formed on strained Si $1\hat{a}$ 'xGex layers. Applied Physics Letters, 2013, 103, .	3.3	9
59	Nanoscale measurement of giant saturation magnetization in α″-Fe16N2 by electron energy-loss magnetic chiral dichroism. Ultramicroscopy, 2019, 203, 37-43.	1.9	9
60	Atomicâ€Scale Observation of Offâ€Centering Rattlers in Filled Skutterudites. Advanced Energy Materials, 2022, 12, .	19.5	8
61	Orientation domains in vacancy-ordered titanium monoxide. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2013, 69, 589-594.	1.1	7
62	Engineering $180 \hat{A}^\circ$ ferroelectric domains in epitaxial PbTiO3 thin films by varying the thickness of the underlying (La,Sr)MnO3 layer. Applied Physics Letters, 2014, 105, 132903.	3.3	7
63	Polarity continuation and frustration in ZnSe nanospirals. Scientific Reports, 2014, 4, 7447.	3.3	7
64	Atomicâ€Scale Interface Structure in Domain Matching Epitaxial BaBiO 3 Thin Films Grown on SrTiO 3 Substrates. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000054.	2.4	7
65	Stoichiometry and Termination Control of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Bilayer Interfaces. Advanced Materials Interfaces, 2021, 8, 2001477.	3.7	7
66	On the origin of 'iron-cross' twins of pyrite from Mt. Katarina, Slovenia. Mineralogical Magazine, 2016, 80, 937-948.	1.4	6
67	Versatile Route to the Controlled Synthesis of Multilevel Branched Silicon Submicrometer/Nanostructures. Journal of Physical Chemistry C, 2010, 114, 134-138.	3.1	5
68	Microstructure and Photoluminescence Studies of Sb-Doped SnO <sub>2</sub> Zigzag Nanobelts. Journal of Nanoscience and Nanotechnology, 2010, 10, 6629-6633.	0.9	4
69	Ultrathin homogeneous Ni(Al) germanosilicide layer formation on strained SiGe with Al/Ni multi-layers. Microelectronic Engineering, 2015, 137, 88-91.	2.4	4
70	Structure and orbital ordering of ultrathin LaVO3probed by atomic resolution electron microscopy and Raman spectroscopy. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600350.	2.4	4
71	Atomic-Scale Characterization of Commensurate and Incommensurate Vacancy Superstructures in Natural Pyrrhotites. American Mineralogist, 2021, 106, 82-96.	1.9	4

Differentiation between strain and charge mediated magnetoelectric coupling in La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub>/Pb(Mg<sub>1/3</sub>Nb<sub>2/3</sub>)<sub>0.7</sub>@i<sub>@.3</sub>ONO</sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<sub>@i<

#	Article	IF	CITATIONS
73	Surface modification of single crystal LiTaO3 by H and He implantation. Nuclear Instruments & Methods in Physics Research B, 2017, 392, 62-66.	1.4	3
74	Solution Monolayer Epitaxy for Tunable Atomically Sharp Oxide Interfaces. Advanced Materials Interfaces, 2017, 4, 1700688.	3.7	3
75	Heteroepitaxial growth and interface structure of pyrochlore (Ca,Ti) 2 (Nb,Ti) 2 O 7 thin films on (1 1 0) NdGaO 3 substrates. Journal of Crystal Growth, 2018, 484, 64-69.	1.5	3
76	Quantitative HRTEM and its application in the study of oxide materials. Chinese Physics B, 2018, 27, 056803.	1.4	3
77	Atomic scale study of the oxygen annealing effect on piezoelectricity enhancement of (K,Na)NbO <sub>3</sub> nanorods. Journal of Materials Chemistry C, 2020, 8, 15830-15838.	5 <b>.</b> 5	3
78	Enhancing the ferromagnetic interlayer coupling between epitaxial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrRuO</mml:mi><mml:mn>3<td>ml<b>:ങമ</b>&gt;<td>nm&amp;msub&gt;</td></td></mml:mn></mml:msub></mml:math>	ml <b>:ങമ</b> > <td>nm&amp;msub&gt;</td>	nm&msub>
79	Atomic-scale understanding of enhanced polarization of highly strained nanoscale columnar PbTiO3. Physical Review B, 2021, 104, .	3.2	2
80	Growth mechanism of titanium monoxide TiO <i><sub>x</sub></i> on a reduced calcium titanate CaTi <sub>2</sub> O <sub>4</sub> surface. Journal of Applied Crystallography, 2015, 48, 1889-1895.	4.5	1
81	Dislocation bending in GaN/step-graded (Al,Ga)N/AlN buffer layers on Si(111) investigated by STM and STEM. Philosophical Magazine, 2018, 98, 3072-3085.	1.6	1
82	Photoelectrochemical Water Splitting: Boosting Photoelectrochemical Water Oxidation of Hematite in Acidic Electrolytes by Surface State Modification (Adv. Energy Mater. 34/2019). Advanced Energy Materials, 2019, 9, 1970131.	19.5	1
83	Boosting Photoelectrochemical Water Oxidation of Hematite by Surface States Modification. SSRN Electronic Journal, 0, , .	0.4	1
84	Atomic Resolution Imaging of YAlO3:Ce in the Chromatic and Spherical Aberration Corrected PICO Transmission Electron Microscope. Microscopy and Microanalysis, 2017, 23, 422-423.	0.4	0
85	Growth and characterization of pyrochlore-type (Ca,Ti)2(Nb,Ti)2O7 thin films. Thin Solid Films, 2021, 721, 138546.	1.8	O