

Lin Xie

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,685
citations

218592

26
h-index

189801

50
g-index

54
all docs

54
docs citations

54
times ranked

2908
citing authors

#	ARTICLE	IF	CITATIONS
1	High-entropy-stabilized chalcogenides with high thermoelectric performance. <i>Science</i> , 2021, 371, 830-834.	6.0	546
2	Enhanced atomic ordering leads to high thermoelectric performance in AgSbTe_2 . <i>Science</i> , 2021, 371, 722-727.	6.0	306
3	High figure-of-merit and power generation in high-entropy GeTe-based thermoelectrics. <i>Science</i> , 2022, 377, 208-213.	6.0	233
4	Direct Growth of Carbon Nanotubes Doped with Single Atomic Fe ^N Active Sites and Neighboring Graphitic Nitrogen for Efficient and Stable Oxygen Reduction Electrocatalysis. <i>Advanced Functional Materials</i> , 2019, 29, 1906174.	7.8	159
5	Importance of Functional Groups in Cross-Linking Methoxysilane Additives for High-Efficiency and Stable Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2019, 4, 2192-2200.	8.8	157
6	Entropy engineering promotes thermoelectric performance in p-type chalcogenides. <i>Nature Communications</i> , 2021, 12, 3234.	5.8	105
7	High Thermoelectric Performance Achieved in GeTe_2Te_3 Pseudo-Binary via Van der Waals Gap-Induced Hierarchical Ferroelectric Domain Structure. <i>Advanced Functional Materials</i> , 2019, 29, 1806613.	7.8	101
8	Energetics of Nanoparticle Exsolution from Perovskite Oxides. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3772-3778.	2.1	65
9	Formation and stability of NOM-Mn(III) colloids in aquatic environments. <i>Water Research</i> , 2019, 149, 190-201.	5.3	64
10	Interfacial Defect Passivation and Charge Carrier Management for Efficient Perovskite Solar Cells via a Highly Crystalline Small Molecule. <i>ACS Energy Letters</i> , 2021, 6, 4209-4219.	8.8	63
11	Reduced NOM triggered rapid Cr(VI) reduction and formation of NOM-Cr(III) colloids in anoxic environments. <i>Water Research</i> , 2020, 181, 115923.	5.3	56
12	Constructing van der Waals gaps in cubic-structured SnTe-based thermoelectric materials. <i>Energy and Environmental Science</i> , 2020, 13, 5135-5142.	15.6	53
13	Realizing Reduced Imperfections via Quantum Dots Interdiffusion in High Efficiency Perovskite Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2003296.	11.1	50
14	Magnetotransport signatures of Weyl physics and discrete scale invariance in the elemental semiconductor tellurium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11337-11343.	3.3	42
15	Intrinsic Conductance of Domain Walls in BiFeO_3 . <i>Advanced Materials</i> , 2019, 31, e1902099.	11.1	39
16	Modifying Li@Mn_6 Superstructure Units by Al Substitution to Enhance the Long-Cycle Performance of Co-Free Li-Rich Cathode. <i>Advanced Energy Materials</i> , 2021, 11, 2101962.	10.2	39
17	Chemical Bath Deposition of Co-Doped TiO_2 Electron Transport Layer for Hysteresis-Suppressed High-Efficiency Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1900176.	3.1	36
18	Atomic Imaging of Subsurface Interstitial Hydrogen and Insights into Surface Reactivity of Palladium Hydrides. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20348-20352.	7.2	36

#	ARTICLE	IF	CITATIONS
19	Realizing Improved Thermoelectric Performance in Bi ₃ -Doped Sb ₂ Te ₃ (GeTe) ₁₇ via Introducing Dual Vacancy Defects. <i>Chemistry of Materials</i> , 2020, 32, 1693-1701.	3.2	36
20	Efficient and Reproducible CH ₃ NH ₃ PbI ₃ Perovskite Layer Prepared Using a Binary Solvent Containing a Cyclic Urea Additive. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9390-9397.	4.0	31
21	Elucidating the Role of Sulfide on the Stability of Ferrihydrite Colloids under Anoxic Conditions. <i>Environmental Science & Technology</i> , 2019, 53, 4173-4184.	4.6	31
22	Deterministic Switching of Ferroelectric Bubble Nanodomains. <i>Advanced Functional Materials</i> , 2019, 29, 1808573.	7.8	30
23	Coherent Sb/CuTe Core/Shell Nanostructure with Large Strain Contrast Boosting the Thermoelectric Performance of n-Type PbTe. <i>Advanced Functional Materials</i> , 2021, 31, 2007340.	7.8	30
24	Ternary solvent for CH ₃ NH ₃ PbI ₃ perovskite films with uniform domain size. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1143-1150.	1.3	29
25	SnSe, the rising star thermoelectric material: a new paradigm in atomic blocks, building intriguing physical properties. <i>Materials Horizons</i> , 2021, 8, 1847-1865.	6.4	29
26	A highly asymmetric interfacial superstructure in WC: expanding the classic grain boundary segregation and new complexion theories. <i>Materials Horizons</i> , 2020, 7, 173-180.	6.4	26
27	Step-Up Thermoelectric Performance Realized in Bi ₂ Te ₃ Alloyed GeTe via Carrier Concentration and Microstructure Modulations. <i>ACS Applied Energy Materials</i> , 2019, 2, 1616-1622.	2.5	25
28	Interfacial superstructures and chemical bonding transitions at metal-ceramic interfaces. <i>Science Advances</i> , 2021, 7, .	4.7	24
29	Multilayer Ion Load and Diffusion on TMD/MXene Heterostructure Anodes for Alkali-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 7699-7709.	2.5	22
30	Electric Polarization Switching on an Atomically Thin Metallic Oxide. <i>Nano Letters</i> , 2021, 21, 144-150.	4.5	19
31	Direct Atomic-Scale Structure and Electric Field Imaging of Triazine-Based Crystalline Carbon Nitride. <i>Advanced Materials</i> , 2021, 33, e2106359.	11.1	19
32	Organic Photovoltaics Utilizing a Polymer Nanofiber/Fullerene Interdigitated Bilayer Prepared by Sequential Solution Deposition. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12933-12940.	1.5	18
33	Immobilization of Cr(VI) on engineered silicate nanoparticles: Microscopic mechanisms and site energy distribution. <i>Journal of Hazardous Materials</i> , 2020, 383, 121145.	6.5	18
34	Control of Epitaxial BaFe ₂ As ₂ Atomic Configurations with Substrate Surface Terminations. <i>Nano Letters</i> , 2018, 18, 6347-6352.	4.5	16
35	Direct atomic-scale observation of the Ag ⁺ diffusion structure in the quasi-2D "liquid-like" state of superionic thermoelectric AgCrSe ₂ . <i>Journal of Materials Chemistry C</i> , 2019, 7, 9263-9269.	2.7	16
36	Watershed-scale distributions of heavy metals in the hyporheic zones of a heavily polluted Maozhou River watershed, southern China. <i>Chemosphere</i> , 2020, 239, 124773.	4.2	15

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37	Superconductivity in undoped BaFe ₂ As ₂ by tetrahedral geometry design. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21170-21174.	3.3	13
38	Effective protection of sequential solution-processed polymer/fullerene bilayer solar cell against charge recombination and degradation. Organic Electronics, 2015, 25, 212-218.	1.4	12
39	Enhanced Bidimensionality-Driven Ultrahigh Laser-Induced Voltages in High-T _c Superconducting Epitaxial Films. Advanced Electronic Materials, 2018, 4, 1800116.	2.6	11
40	Development and characterization of Nb ₃ Sn/Al ₂ O ₃ superconducting multilayers for particle accelerators. Scientific Reports, 2021, 11, 7770.	1.6	10
41	Porous Thermoelectric Zintl: YbCd ₂ Sb ₂ . ACS Applied Energy Materials, 2021, 4, 913-920.	2.5	9
42	Directing Gold Nanoparticles into Free-Standing Honeycomb-Like Ordered Mesoporous Superstructures. Small, 2019, 15, e1901304.	5.2	8
43	Ga-ZnS Multilayer Films: Visible-Light Photoelectrodes by Interface Engineering. Journal of Physical Chemistry C, 2019, 123, 3336-3342.	1.5	7
44	Enhanced thermoelectric properties in chimney ladder structured Mn(BxSi _{1-x}) _{1.75} due to the dual lattice occupation of boron. Applied Physics Letters, 2019, 115, 123902.	1.5	5
45	Plasmonic evolution of atomically size-selected Au clusters by electron energy loss spectrum. National Science Review, 2020, 8, nwaa282.	4.6	5
46	Single-element amorphous palladium nanoparticles formed via phase separation. Nano Research, 2022, 15, 5575-5580.	5.8	5
47	Significantly Enhanced Electrochemical Redox for High-Performance Electrochemical Capacitor via Active Ion-Tunnel Oriented BaCoF ₄ Electrodes. Advanced Energy Materials, 2021, 11, 2003734.	10.2	4
48	ZnS-GaP Solid Solution Thin Films with Enhanced Visible-Light Photocurrent. ACS Applied Energy Materials, 0, , .	2.5	4
49	Fe-N-C Catalysts: Direct Growth of Carbon Nanotubes Doped with Single Atomic Fe-N ₄ Active Sites and Neighboring Graphitic Nitrogen for Efficient and Stable Oxygen Reduction Electrocatalysis (Adv. Funct. Mater. 49/2019). Advanced Functional Materials, 2019, 29, 1970332.	7.8	3
50	Rational design of D ⁰ -hole-transporting materials for efficient perovskite solar cells. Materials Chemistry Frontiers, 2021, 5, 7824-7832.	3.2	3
51	Colossal photovoltages in strain-driven crystal field transition and symmetry breaking of superconducting epitaxial systems. Physical Review Materials, 2019, 3, .	0.9	1
52	Preparation and magnetic properties of cylindrical permalloy nanowire arrays. MRS Communications, 0, , 1.	0.8	1
53	Superstructures: Directing Gold Nanoparticles into Free-Standing Honeycomb-Like Ordered Mesoporous Superstructures (Small 31/2019). Small, 2019, 15, 1970165.	5.2	0
54	Surface Crystallization of Amorphous Palladium Nanoparticles. Journal of Physical Chemistry C, 2021, 125, 1107-1112.	1.5	0