

Chen Li

List of Publications by Year in descending order

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53
papers

3,055
citations

279798

23
h-index

189892

50
g-index

55
all docs

55
docs citations

55
times ranked

5651
citing authors

#	ARTICLE	IF	CITATIONS
1	Monolayer PtSe ₂ , a New Semiconducting Transition-Metal-Dichalcogenide, Epitaxially Grown by Direct Selenization of Pt. Nano Letters, 2015, 15, 4013-4018.	9.1	560
2	Orbitally driven giant phonon anharmonicity in SnSe. Nature Physics, 2015, 11, 1063-1069.	16.7	539
3	Grain-Boundary-Enhanced Carrier Collection in CdTe Solar Cells. Physical Review Letters, 2014, 112, 156103.	7.8	258
4	Metallization of vanadium dioxide driven by large phonon entropy. Nature, 2014, 515, 535-539.	27.8	252
5	Structural Relationship between Negative Thermal Expansion and Quartic Anharmonicity of Cubic ScF_3 . Physical Review Letters, 2011, 107, 195504.	7.8	201
6	Phonon Self-Energy and Origin of Anomalous Neutron Scattering Spectra in SnTe and PbTe Thermoelectrics. Physical Review Letters, 2014, 112, 175501.	7.8	125
7	Phonon anharmonicity and negative thermal expansion in SnSe. Physical Review B, 2016, 94, .	3.2	90
8	Separating the configurational and vibrational entropy contributions in metallic glasses. Nature Physics, 2017, 13, 900-905.	16.7	83
9	Direct Imaging of Cl- and Cu-Induced Short-Circuit Efficiency Changes in CdTe Solar Cells. Advanced Energy Materials, 2014, 4, 1400454.	19.5	79
10	Nuclear quantum effect with pure anharmonicity and the anomalous thermal expansion of silicon. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1992-1997.	7.1	68
11	Anharmonicity and atomic distribution of SnTe and PbTe thermoelectrics. Physical Review B, 2014, 90, .	3.2	64
12	Carrier Separation at Dislocation Pairs in CdTe. Physical Review Letters, 2013, 111, 096403.	7.8	51
13	Phonon anharmonicity in silicon from 100 to 1500 K. Physical Review B, 2015, 91, .	3.2	47
14	Phonon anharmonicity of rutile SnO ₂ studied by Raman spectrometry and first principles calculations of the kinematics of phonon-phonon interactions. Physical Review B, 2012, 86, .	3.2	42
15	Anharmonicity-induced phonon broadening in aluminum at high temperatures. Physical Review B, 2010, 82, .	3.2	37
16	Positive Vibrational Entropy of Chemical Ordering in FeV. Physical Review Letters, 2011, 107, 115501.	7.8	35
17	Observation of Magnon Polarons in a Uniaxial Antiferromagnetic Insulator. Physical Review Letters, 2020, 125, 217201.	7.8	35
18	Thermal Switching of Thermoresponsive Polymer Aqueous Solutions. ACS Macro Letters, 2018, 7, 53-58.	4.8	33

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19	Heavy-impurity resonance, hybridization, and phonon spectral functions in $\langle \text{mml:math}$		
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#	ARTICLE	IF	CITATIONS
37	Controlling phonon lifetimes via sublattice disordering in AgBi_2S_6 . Physical Review Materials, 2020, 4, .	2.4	2
38	Giant anisotropic in-plane thermal conduction induced by Anomalous phonons in pentagonal PdSe ₂ . Materials Today Physics, 2022, 22, 100599.	6.0	8
39	Nonharmonic phonons in MgB ₂ at elevated temperatures. Physical Review B, 2011, 83, .	3.2	4
40	Interfacial thermal transport in spin caloritronic material systems. Physical Review Materials, 2021, 5, .	2.4	4
41	Core Structures of Dislocations within CdTe Grains. Materials Research Society Symposia Proceedings, 2013, 1526, 1.	0.1	3
42	Giant low-temperature anharmonicity in silicon nanocrystals. Physical Review Materials, 2020, 4, .	2.4	3
43	Significant phase-space-driven thermal transport suppression in BC8 silicon. Materials Today Physics, 2021, 21, 100566.	6.0	3
44	AtomSim: web-deployed atomistic dynamics simulator. Journal of Applied Crystallography, 2010, 43, 1553-1559.	4.5	1
45	Defect Physics in Photovoltaic Materials Revealed by Combined High-Resolution Microscopy and Density-Functional Theory Calculation. Microscopy and Microanalysis, 2014, 20, 514-515.	0.4	1
46	Understanding Individual Defects in CdTe Solar Cells: From Atomic Structure to Electrical Activity. Microscopy and Microanalysis, 2014, 20, 518-519.	0.4	1
47	Column-by-Column Imaging of Dislocation Slip Processes in CdTe. Microscopy and Microanalysis, 2014, 20, 1054-1055.	0.4	1
48	Anomalous neutron scattering 'halo' observed in highly oriented pyrolytic graphite. Journal of Applied Crystallography, 2019, 52, 296-303.	4.5	1
49	Pressure- and temperature-dependent inelastic neutron scattering study of the phase transition and phonon lattice dynamics in <i>para</i> -terphenyl. Physical Chemistry Chemical Physics, 2021, 23, 8792-8799.	2.8	1
50	Matryoshka phonon twinning in $\hat{\Gamma}$ -GaN. Communications Physics, 2021, 4, .	5.3	1
51	Mutual spin-phonon driving effects and phonon eigenvector renormalization in nickel (II) oxide. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	1
52	Thin Films: Direct Imaging of Cl and Cu Induced Short-Circuit Efficiency Changes in CdTe Solar Cells (Adv. Energy Mater. 15/2014). Advanced Energy Materials, 2014, 4, .	19.5	0
53	Frustration-induced diffusive scattering anomaly and dimension change in FeGe_2 . Physical Review B, 2022, 106, .	3.2	1