

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	Giant anisotropic in-plane thermal conduction induced by Anomalous phonons in pentagonal PdSe ₂ . <i>Materials Today Physics</i> , 2022, 22, 100599.	6.0	8
2	Frustration-induced diffusive scattering anomaly and dimension change in FeGe . <i>Physical Review B</i> , 2022, 106, .	6.2	1
3	Mutual spin-phonon driving effects and phonon eigenvector renormalization in nickel (II) oxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	1
4	Pressure- and temperature-dependent inelastic neutron scattering study of the phase transition and phonon lattice dynamics in <i>para</i> -terphenyl. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 8792-8799.	2.8	1
5	Phonon anharmonicity: a pertinent review of recent progress and perspective. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	5.1	26
6	Matryoshka phonon twinning in $\hat{\Gamma}$ -GaN. <i>Communications Physics</i> , 2021, 4, .	5.3	1
7	Significant phase-space-driven thermal transport suppression in BC8 silicon. <i>Materials Today Physics</i> , 2021, 21, 100566.	6.0	3
8	Interfacial thermal transport in spin caloritronic material systems. <i>Physical Review Materials</i> , 2021, 5, .	2.4	4
9	Observation of Magnon Polarons in a Uniaxial Antiferromagnetic Insulator. <i>Physical Review Letters</i> , 2020, 125, 217201.	7.8	35
10	Temperature-dependent phonon lifetimes and thermal conductivity of silicon by inelastic neutron scattering and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2020, 102, .	3.2	18
11	Controlling phonon lifetimes via sublattice disordering in AgBi . <i>Physical Review Materials</i> , 2020, 4, .	2.4	1
12	Giant low-temperature anharmonicity in silicon nanocrystals. <i>Physical Review Materials</i> , 2020, 4, .	2.4	3
13	Anomalous neutron scattering 'halo' observed in highly oriented pyrolytic graphite. <i>Journal of Applied Crystallography</i> , 2019, 52, 296-303.	4.5	1
14	Nuclear quantum effect with pure anharmonicity and the anomalous thermal expansion of silicon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1992-1997.	7.1	68
15	Thermal Switching of Thermoresponsive Polymer Aqueous Solutions. <i>ACS Macro Letters</i> , 2018, 7, 53-58.	4.8	33
16	Probing the electrolyte infiltration behaviour of activated carbon supercapacitor electrodes by in situ neutron scattering using aqueous NaCl as electrolyte. <i>Carbon</i> , 2018, 136, 139-142.	10.3	19
17	Temperature dependence of phonons in FeGe_2 . <i>Physical Review Materials</i> , 2018, 2, .	2.4	9
18	Thermal Transport Properties of Black Phosphorus: A Topical Review. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2017, 21, 45-57.	2.6	20

#	ARTICLE	IF	CITATIONS
19	Separating the configurational and vibrational entropy contributions in metallic glasses. Nature Physics, 2017, 13, 900-905.	16.7	83
20	Wide-angle diamond cell for neutron scattering. High Pressure Research, 2017, 37, 495-506.	1.2	20
21	Boron arsenide phonon dispersion from inelastic x-ray scattering: Potential for ultrahigh thermal conductivity. Physical Review B, 2016, 94, .	3.2	29
22	Phonon anharmonicity and negative thermal expansion in SnSe. Physical Review B, 2016, 94, .	3.2	90
23	Phonon anharmonicity and components of the entropy in palladium and platinum. Physical Review B, 2016, 93, .	3.2	8
24	Heavy-impurity resonance, hybridization, and phonon spectral functions in		

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37	Metallization of vanadium dioxide driven by large phonon entropy. <i>Nature</i> , 2014, 515, 535-539.	27.8	252
38	Phonon Self-Energy and Origin of Anomalous Neutron Scattering Spectra in SnTe and PbTe Thermoelectrics. <i>Physical Review Letters</i> , 2014, 112, 175501.	7.8	125
39	Direct Imaging of Cl and Cu Induced Short-Circuit Efficiency Changes in CdTe Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400454.	19.5	79
40	Column-by-Column Imaging of Dislocation Slip Processes in CdTe. <i>Microscopy and Microanalysis</i> , 2014, 20, 1054-1055.	0.4	1
41	Thin Films: Direct Imaging of Cl and Cu Induced Short-Circuit Efficiency Changes in CdTe Solar Cells (Adv. Energy Mater. 15/2014). <i>Advanced Energy Materials</i> , 2014, 4, .	19.5	0
42	Carrier Separation at Dislocation Pairs in CdTe. <i>Physical Review Letters</i> , 2013, 111, 096403.	7.8	51
43	Core Structures of Dislocations within CdTe Grains. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1526, 1.	0.1	3
44	Phonon anharmonicity of rutile SnO ₂ studied by Raman spectrometry and first principles calculations of the kinematics of phonon-phonon interactions. <i>Physical Review B</i> , 2012, 86, .	3.2	42
45	Structural Relationship between Negative Thermal Expansion and Quartic Anharmonicity of Cubic ScF_3 . <i>Physical Review Letters</i> , 2011, 107, 195504.	7.8	201
46	Nonharmonic phonons in MgB ₂ at elevated temperatures. <i>Physical Review B</i> , 2011, 83, .	3.2	4
47	Positive Vibrational Entropy of Chemical Ordering in FeV. <i>Physical Review Letters</i> , 2011, 107, 115501.	7.8	35
48	A Raman Spectrometry Study of Phonon Anharmonicity of Zirconia at Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , 2011, 94, 224-229.	3.8	15
49	AtomSim: web-deployed atomistic dynamics simulator. <i>Journal of Applied Crystallography</i> , 2010, 43, 1553-1559.	4.5	1
50	Anharmonicity-induced phonon broadening in aluminum at high temperatures. <i>Physical Review B</i> , 2010, 82, .	3.2	37
51	Effects of chemical composition and B ₂ order on phonons in bcc Fe-Co alloys. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	13
52	Raman spectrometry study of phonon anharmonicity of hafnia at elevated temperatures. <i>Physical Review B</i> , 2009, 80, .	3.2	30
53	Magnetic levitation force between a superconducting bulk magnet and a permanent magnet. <i>Superconductor Science and Technology</i> , 2003, 16, 527-533.	3.5	11