

Michael E Manley

List of Publications by Year in descending order

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77
papers

1,939
citations

257450

24
h-index

254184

43
g-index

80
all docs

80
docs citations

80
times ranked

2407
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Energy Transport in Oxide Nuclear Fuel. <i>Chemical Reviews</i> , 2022, 122, 3711-3762.	47.7	37
2	Real-space visualization of short-range antiferromagnetic correlations in a magnetically enhanced thermoelectric. <i>Matter</i> , 2022, 5, 1853-1864.	10.0	11
3	CHES: The future direct geometry spectrometer at the second target station. <i>Review of Scientific Instruments</i> , 2022, 93, .	1.3	9
4	Suppressed thermal conductivity in hyperstoichiometric uranium dioxide controlled by phonon lifetimes. <i>Applied Physics Letters</i> , 2022, 121, 012202.	3.3	0
5	Magnetic, transport and thermal properties of $\sqrt{2} \times \sqrt{2}$ -phase UZr_2 . <i>Philosophical Magazine Letters</i> , 2021, 101, 1-11.	1.2	5
6	Prediction and observation of intermodulation sidebands from anharmonic phonons in NaBr. <i>Physical Review B</i> , 2021, 103, .	3.2	1
7	Assessment of empirical interatomic potential to predict thermal conductivity in ThO_2 and UO_2 . <i>Journal of Physics Condensed Matter</i> , 2021, 33, 275402.	1.8	9
8	Canted antiferromagnetic order and spin dynamics in the honeycomb-lattice compound TbMnO_3 . <i>Physical Review B</i> , 2021, 103, .	3.2	1
9	Uncovering design principles for amorphous-like heat conduction using two-channel lattice dynamics. <i>Materials Today Physics</i> , 2021, 18, 100344.	6.0	42
10	The 23 rd National School on Neutron & X-Ray Scattering 2021 – Virtual School with Remote Experiments. <i>Neutron News</i> , 2021, 32, 12-16.	0.2	0
11	High frequency atomic tunneling yields ultralow and glass-like thermal conductivity in chalcogenide single crystals. <i>Nature Communications</i> , 2020, 11, 6039.	12.8	36
12	Giant isotope effect on phonon dispersion and thermal conductivity in methylammonium lead iodide. <i>Science Advances</i> , 2020, 6, eaaz1842.	10.3	17
13	Phonon Spectroscopy in Antimony and Tellurium Oxides. <i>Journal of Physical Chemistry A</i> , 2020, 124, 7869-7880.	2.5	6
14	Anharmonic Origin of the Giant Thermal Expansion of NaBr. <i>Physical Review Letters</i> , 2020, 125, 085504.	7.8	13
15	Nonlinear propagating modes beyond the phonons in fluorite-structured crystals. <i>Communications Physics</i> , 2020, 3, .	5.3	17
16	Spin dynamics and a nearly continuous magnetic phase transition in an entropy-stabilized oxide antiferromagnet. <i>Physical Review Materials</i> , 2020, 4, .	2.4	11
17	Temperature-dependent lattice dynamics in iridium. <i>Physical Review Materials</i> , 2020, 4, .	2.4	8
18	The 22nd National School on Neutron & X-ray Scattering 2020 – Upsides of going virtual. <i>Neutron News</i> , 2020, 31, 4-6.	0.2	1

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19	Phonon dispersion of Mo-stabilized UO_2 measured using inelastic x-ray scattering. Physical Review B, 2019, 100, .	3.2	10
20	Paramagnon drag in high thermoelectric figure of merit Li-doped MnTe. Science Advances, 2019, 5, eaat9461.	10.3	90
21	Response to comment on "Giant electromechanical coupling of relaxor ferroelectrics controlled by polar nanoregion vibrations". Science Advances, 2019, 5, eaaw4367.	10.3	1
22	Intrinsic anharmonic localization in thermoelectric PbSe. Nature Communications, 2019, 10, 1928.	12.8	51
23	Phonons, magnons, and lattice thermal transport in antiferromagnetic semiconductor MnTe. Physical Review Materials, 2019, 3, .	2.4	25
24	Impact of anharmonicity on the vibrational entropy and specific heat of UO_2 . Physical Review Materials, 2019, 3, .	2.4	15
25	Thermal acoustic excitations with atomic-scale wavelengths in amorphous silicon. Physical Review Materials, 2019, 3, .	2.4	18
26	Glassy Phenomena and Precursors in the Lattice Dynamics. Springer Series in Materials Science, 2018, , 101-117.	0.6	0
27	Supersonic propagation of lattice energy by phasons in fersnoite. Nature Communications, 2018, 9, 1823.	12.8	14
28	Glassy Phonon Heralds a Strain Glass State in a Shape Memory Alloy. Physical Review Letters, 2018, 120, 245701.	7.8	24
29	Phonon localization transition in relaxor ferroelectric PZN-5%PT. Applied Physics Letters, 2017, 110, 132901.	3.3	2
30	Correspondence: Reply to "Phantom phonon localization in relaxors". Nature Communications, 2017, 8, 1936.	12.8	2
31	Three-mode coupling interference patterns in the dynamic structure factor of a relaxor ferroelectric. Physical Review B, 2016, 94, .	3.2	4
32	Giant electromechanical coupling of relaxor ferroelectrics controlled by polar nanoregion vibrations. Science Advances, 2016, 2, e1501814.	10.3	91
33	Lattice vibrations boost demagnetization entropy in a shape-memory alloy. Physical Review B, 2015, 92, .	3.2	19
34	Symmetry and correlations underlying hidden order in URu_2Si_2 . Physical Review B, 2015, 91, .	3.2	32
35	Structural and dynamical fluctuations in off-stoichiometric NiMnGa shape-memory alloys. Applied Physics Letters, 2014, 104, 241905.	3.3	2
36	Phonon localization drives polar nanoregions in a relaxor ferroelectric. Nature Communications, 2014, 5, 3683.	12.8	98

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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	Multiple high-temperature transitions driven by dynamical structures in NaI. <i>Physical Review B</i> , 2014, 89, .	3.2	12
39	Energy localization on the $\langle i \rangle \text{Al} \langle /i \rangle$ sublattice of $\langle i \rangle \text{Pt} \langle /i \rangle_3 \langle i \rangle \text{Al} \langle /i \rangle$ with $\langle i \rangle \text{L} \langle /i \rangle_{12}$ order. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	35
40	Measurement of the Phonon Density of States of $\text{PuO}_2(+2\% \text{Ga})$. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1444, 141.	0.1	0
41	Measurement of the phonon density of states of $\text{PuO}_2(+2\% \text{Ga})$: A critical test of theory. <i>Physical Review B</i> , 2012, 85, .	3.2	25
42	Hidden disorder in the $\text{Pu} \rightarrow \text{Pu}^{1.9}$ transformation of $\text{Pu-1.9 at.}\% \text{Ga}$. <i>Physical Review B</i> , 2012, 85, .	3.2	3
43	Symmetry-breaking dynamical pattern and localization observed in the equilibrium vibrational spectrum of NaI. <i>Scientific Reports</i> , 2011, 1, 4.	3.3	43
44	Lattice dynamical origin of peak thermoelectric performance in $\text{AgPb}_m\text{SbTe}_2+m$ observed by inelastic neutron scattering. <i>Journal of Applied Physics</i> , 2011, 109, 083722.	2.5	6
45	Impact of intrinsic localized modes of atomic motion on materials properties. <i>Acta Materialia</i> , 2010, 58, 2926-2935.	7.9	58
46	Einstein modes in the phonon density of states of the single-filled skutterudite $\text{Yb}_x\text{Co}_{4-x}\text{Sb}_3$. <i>Physical Review B</i> , 2010, 82, .	3.2	77
47	Phonon density of states of $\text{Pu}^{1.9}$ and $\text{Pu}^{1.9}$ -plutonium by inelastic x-ray scattering. <i>Physical Review B</i> , 2009, 79, .	3.2	27
48	Intrinsic Localized Lattice Modes and Thermal Transport: Potential Application in a Thermal Rectifier. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1172, 101.	0.1	0
49	Intrinsic localized modes observed in the high-temperature vibrational spectrum of NaI. <i>Physical Review B</i> , 2009, 79, .	3.2	103
50	Intrinsic nature of thermally activated dynamical modes in $\text{Pu}^{1.9}$ - Nonequilibrium mode creation by x-ray and neutron scattering. <i>Physical Review B</i> , 2008, 77, .	3.2	33
51	Intrinsically Localized Modes in Uranium and the Prospect for Finding them in Plutonium. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1104, 1.	0.1	0
52	Intrinsically localized mode in $\text{Pu}^{1.9}$ as a precursor to a solid-state phase transition. <i>Physical Review B</i> , 2008, 77, .	3.2	21
53	Phonon-confinement entropy and the formation of CeH_3 by fracture. <i>Physical Review B</i> , 2008, 78, .	3.2	2.84
54	Observation of a Continuous Phase Transition in a Shape-Memory Alloy. <i>Physical Review Letters</i> , 2008, 101, 135703.	7.8	27

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55	Soft-phonon feature, site defects, and a frustrated phase transition in Ni ₅₀ Ti ₄₇ Fe ₃ : Experiments and first-principles calculations. <i>Physical Review B</i> , 2008, 77, .	3.2	6
56	Angle-resolved photoemission and first-principles electronic structure of single-crystalline δ -U(001). <i>Physical Review B</i> , 2007, 75, .	3.2	16
57	Formation of a New Dynamical Mode in δ -Uranium Observed by Inelastic X-Ray and Neutron Scattering. <i>Physical Review Letters</i> , 2006, 96, 125501.	7.8	107
58	Photoelectric Effect in Uranium. <i>Journal of the Physical Society of Japan</i> , 2006, 75, 56-57.	1.6	2
59	Valence-band UPS, 6p core-level XPS, and LEED of a uranium (001) single crystal. <i>Physical Review B</i> , 2006, 73, .	3.2	23
60	Pinning Frequencies of the Collective Modes in δ -Uranium. <i>Physical Review Letters</i> , 2006, 96, 076401.	7.8	26
61	Vibration-dominated negative mixing entropy for C impurities in δ -U. <i>Physical Review B</i> , 2005, 72, .	3.2	4
62	Thermodynamics of phonon-stabilized Fermi distributions with application to uranium. <i>Philosophical Magazine</i> , 2003, 83, 2467-2473.	1.6	0
63	The importance of high temperature electron-phonon coupling to the thermodynamic properties of Ce _{0.9} Th _{0.1} and other f-electron bonded metals. <i>Materials Research Society Symposia Proceedings</i> , 2003, 802, 43.	0.1	0
64	Phonon dispersion in uranium measured using inelastic x-ray scattering. <i>Physical Review B</i> , 2003, 67, .	3.2	43
65	No role for phonon entropy in the fcc \rightarrow fcc volume collapse transition in Ce _{0.9} Th _{0.1} at ambient pressure. <i>Physical Review B</i> , 2003, 67, .	3.2	34
66	Phonon Dispersion in Actinides Measured with Inelastic X-Ray Scattering: New Opportunities to Solve Some Old Problems. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	1
67	Microstructural strain energy of δ -uranium determined by calorimetry and neutron diffractometry. <i>Physical Review B</i> , 2002, 66, .	3.2	14
68	Vibrational and electronic entropy of δ^2 -cerium and δ^3 -cerium measured by inelastic neutron scattering. <i>Physical Review B</i> , 2002, 65, .	3.2	31
69	Unexpected similarity of the dynamic magnetic susceptibilities of δ^3 -cerium and δ^2 -cerium. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2001, 81, 675-687.	0.6	7
70	Large Harmonic Softening of the Phonon Density of States of Uranium. <i>Physical Review Letters</i> , 2001, 86, 3076-3079.	7.8	76
71	Heat capacity and microstructure of ordered and disordered Pd ₃ V. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2000, 80, 1167-1178.	0.6	48
72	Phonon densities of states of gamma-cerium and delta-cerium measured by time-of-flight inelastic neutron scattering. <i>Philosophical Magazine Letters</i> , 2000, 80, 591-596.	1.2	12

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73	Phonon densities of states of gamma-cerium and delta-cerium measured by inelastic neutron scattering. Philosophical Magazine Letters, 1999, 79, 297-304.	1.2	10
74	Kinks and cracks in S1 ice under across-column compression. Philosophical Magazine Letters, 1997, 75, 83-90.	1.2	18
75	On the strain-rate sensitivity of columnar ice. Journal of Glaciology, 1997, 43, 408-410.	2.2	10
76	On the strain-rate sensitivity of columnar ice. Journal of Glaciology, 1997, 43, 408-410.	2.2	0
77	Four Point and Biaxial Flexure Strength of PZT Ceramics: A Probabilistic Approach. Ceramic Engineering and Science Proceedings, 0, , 885-894.	0.1	0