

Sai Mu

List of Publications by Year in descending order

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47
papers

1,482
citations

361296

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315616

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all docs

47
docs citations

47
times ranked

2280
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of the third dimension in searching for Majorana fermions in In_2Te_3 via phonons. <i>Physical Review Research</i> , 2022, 4, .		
2	Role of carbon and hydrogen in limiting n -type doping of monoclinic Al_2O_3 . <i>Physical Review B</i> , 2022, 105, .	1.1	18
3	Epitaxial ScAl_2 on GaN exhibits attractive high-K dielectric properties. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	17
4	Adsorption and Diffusion of Aluminum on $\text{In}_2\text{Ga}_2\text{O}_3$ (010) Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10650-10655.	4.0	7
5	Interface cation migration kinetics induced oxygen release heterogeneity in layered lithium cathodes. <i>Energy Storage Materials</i> , 2021, 36, 115-122.	9.5	23
6	Atomic scale investigation of aluminum incorporation, defects, and phase stability in $\text{In}-(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$ films. <i>APL Materials</i> , 2021, 9, .	2.2	35
7	First-principles study of electron transport in ScN. <i>Physical Review B</i> , 2021, 104, .	1.1	13
8	Piezoelectric effect and polarization switching in Al_2ScN . <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	15
9	Element-resolved local lattice distortion in complex concentrated alloys: An observable signature of electronic effects. <i>Acta Materialia</i> , 2021, 216, 117135.	3.8	22
10	Structural, electronic, and polarization properties of YN and LaN. <i>Physical Review Materials</i> , 2021, 5, .	0.9	4
11	Photophysical properties of zero-dimensional perovskites studied by PBE0 and GW+BSE methods. <i>Journal of Applied Physics</i> , 2021, 130, 203106.	1.1	4
12	Incorporation of Si and Sn donors in $\text{In}_2\text{Ga}_2\text{O}_3$ through surface reconstructions. <i>Journal of Applied Physics</i> , 2021, 130, 185703.	1.1	7
13	First-principles calculations of hyperfine interaction, binding energy, and quadrupole coupling for shallow donors in silicon. <i>Npj Computational Materials</i> , 2020, 6, .	3.5	17
14	First-principles surface energies for monoclinic Ga_2O_3 and Al_2O_3 and consequences for cracking of $(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$. <i>APL Materials</i> , 2020, 8, .	2.2	53
15	Orientation-dependent band offsets between $(\text{Al}_x\text{Ga}_{1-x})_2\text{O}_3$ and Ga_2O_3 . <i>Applied Physics Letters</i> , 2020, 117, .	1.5	24
16	Bulk and element-specific magnetism of medium-entropy and high-entropy Cantor-Wu alloys. <i>Physical Review B</i> , 2020, 102, .	1.1	18
17	Phonons, Q -dependent Kondo spin fluctuations, and f -phonon resonance in $\text{Yb}_3\text{Co}_2\text{Sb}_5$.	1.1	3
18	Vertically Aligned Single-Crystalline CoFe_2O_4 Nanobrush Architectures with High Magnetization and Tailored Magnetic Anisotropy. <i>Nanomaterials</i> , 2020, 10, 472.	1.9	2

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19	Role of Ga and In adatoms in the epitaxial growth of O_3 . Physical Review B, 2020, 102, .	1.1	11
20	The local strain distribution in bilayer materials: a multiscale study. Nanoscale, 2020, 12, 6456-6461.	2.8	5
21	Extreme Fermi Surface Smearing in a Maximally Disordered Concentrated Solid Solution. Physical Review Letters, 2020, 124, 046402.	2.9	20
22	Unfolding the complexity of phonon quasi-particle physics in disordered materials. Npj Computational Materials, 2020, 6, .	3.5	22
23	High-Voltage Cycling Induced Thermal Vulnerability in LiCoO_2 Cathode: Cation Loss and Oxygen Release Driven by Oxygen Vacancy Migration. ACS Nano, 2020, 14, 6181-6190.	7.3	144
24	Optical conductivity of metal alloys with residual resistivities near or above the Mott-Ioffe-Regel limit. Physical Review B, 2019, 100, .	1.1	5
25	Uncovering electron scattering mechanisms in NiFeCoCrMn derived concentrated solid solution and high entropy alloys. Npj Computational Materials, 2019, 5, .	3.5	251
26	Influence of local lattice distortions on electrical transport of refractory high entropy alloys. Scripta Materialia, 2019, 170, 189-194.	2.6	26
27	Engineering atomic-level complexity in high-entropy and complex concentrated alloys. Nature Communications, 2019, 10, 2090.	5.8	182
28	Ferromagnetic Spin-1/2 Dimers with Strong Anisotropy in MoCl_5 . Chemistry of Materials, 2019, 31, 2952-2959.	3.2	6
29	<i>Ab initio</i> study of enhanced thermal conductivity in ordered AlGaO_3 alloys. Applied Physics Letters, 2019, 115, .	1.5	24
30	Error controlling of the combined Cluster-Expansion and Wang-Landau Monte-Carlo method and its application to FeCo. Computer Physics Communications, 2019, 235, 95-101.	3.0	10
31	Hidden Mn magnetic-moment disorder and its influence on the physical properties of medium-entropy NiCoMn solid solution alloys. Physical Review Materials, 2019, 3, .	0.9	14
32	Phonons, magnons, and lattice thermal transport in antiferromagnetic semiconductor MnTe. Physical Review Materials, 2019, 3, .	0.9	25
33	Influence of strain and chemical substitution on the magnetic anisotropy of antiferromagnetic Cr_2O_3 : An <i>ab initio</i> study. Physical Review Materials, 2019, 3, .	0.9	18
34	The Electronic Structure Signature of the Spin Cross-Over Transition of $[\text{Co}(\text{dpzca})_2]$. Zeitschrift Fur Physikalische Chemie, 2018, 232, 445-458.	1.4	3
35	A Facile Space-Confined Solid-Phase Sulfurization Strategy for Growth of High-Quality Ultrathin Molybdenum Disulfide Single Crystals. Nano Letters, 2018, 18, 2021-2032.	4.5	42
36	Decoupling Carrier Concentration and Electron-Phonon Coupling in Oxide Heterostructures Observed with Resonant Inelastic X-Ray Scattering. Physical Review Letters, 2018, 121, 236802.	2.9	22

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37	Electronic transport and phonon properties of maximally disordered alloys: From binaries to high-entropy alloys. <i>Journal of Materials Research</i> , 2018, 33, 2857-2880.	1.2	31
38	Temperature dependent electronic transport in concentrated solid solutions of the $3d$ -transition metals Ni, Fe, Co and Cr from first principles. <i>Physical Review B</i> , 2018, 98, .	4.1	106
39	Accurate classical short-range forces for the study of collision cascades in Fe-Cr. <i>Computer Physics Communications</i> , 2017, 219, 11-19.	3.0	39
40	X-ray absorption investigation of local structural disorder in $Ni_{1-x}Fe_x$ ($x=0.10, 0.20, 0.35, \text{ and } 0.50$) alloys. <i>Journal of Applied Physics</i> , 2017, 121, 165105.	1.1	4
41	Thermophysical properties of Ni-containing single-phase concentrated solid solution alloys. <i>Materials and Design</i> , 2017, 117, 185-192.	3.3	96
42	Surface-induced spin state locking of the $[Fe(H_2B(pz)_2)_2(bipy)]$ spin crossover complex. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 206002.	0.7	50
43	Spectral signatures of thermal spin disorder and excess Mn in half-metallic NiMnSb. <i>Physical Review B</i> , 2015, 91, .	1.1	8
44	Strategies for increasing the Néel temperature of magnetoelectric Fe_2TeO_6 . <i>Journal of Physics Condensed Matter</i> , 2015, 27, 022203.	0.7	9
45	Complexities in the Molecular Spin Crossover Transition. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16293-16302.	1.5	41
46	First-principles microscopic model of exchange-driven magnetoelectric response with application to CrO_3 . <i>Physical Review B</i> , 2014, 89, .	1.1	11
47	First-principles microscopic model of exchange-driven magnetoelectric response with application to Cr_2O_3 . <i>Physical Review B</i> , 2013, 87, .	1.1	51