

Xiao Li

List of Publications by Year in descending order

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papers

2,363
citations

318942

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all docs

45
docs citations

45
times ranked

4618
citing authors

#	ARTICLE	IF	CITATIONS
1	Valley modulation and single-edge transport of magnons in breathing kagome ferromagnets. Physical Review B, 2022, 105, .	1.1	2
2	Engineering Interlayer Electron-Phonon Coupling in WS ₂ /BN Heterostructures. Nano Letters, 2022, 22, 2725-2733.	4.5	7
3	Biophysical studies of cancer cells'™ traverse-vessel behaviors under different pressures revealed cells'™ motion state transition. Scientific Reports, 2022, 12, 7392.	1.6	2
4	Enhanced Metal-Insulator Transition in Freestanding VO ₂ Down to 5 nm Thickness. ACS Applied Materials & Interfaces, 2021, 13, 16688-16693.	4.0	19
5	Gate-tunable chiral phonons in low-buckled group-IVA monolayers. Journal of Physics Condensed Matter, 2021, 33, 285704.	0.7	1
6	Reversible modulation of metal-insulator transition in VO ₂ via chemically induced oxygen migration. Applied Physics Letters, 2021, 119, 133102.	1.5	2
7	Isotope Effect of Hydrogen Functionalization in Layered Germanane: Implications for Germanane-Based Optoelectronics. ACS Applied Nano Materials, 2021, 4, 13708-13715.	2.4	6
8	Chiral phonons in the indirect optical transition of a MoS_2 heterostructure. Physical Review B, 2020, 102, .	1.1	1
9	Valley Polarization in Superacid-Treated Monolayer MoS ₂ . ACS Applied Electronic Materials, 2020, 2, 1981-1988.	2.0	4
10	Out-of-plane carrier spin in transition-metal dichalcogenides under electric current. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16749-16755.	3.3	8
11	Erasable and recreatable two-dimensional electron gas at the heterointerface of SrTiO ₃ and a water-dissolvable overlayer. Science Advances, 2019, 5, eaaw7286.	4.7	24
12	Chiral phonons in kagome lattices. Physical Review B, 2019, 100, .	1.1	26
13	Shubnikov-de Haas oscillations in bulk ZrTe_5 single crystals: Evidence for a weak topological insulator. Physical Review B, 2018, 97, .	1.1	22
14	Electric Control of the Edge Magnetization in Zigzag Stanene Nanoribbons from First Principles. Physical Review Applied, 2018, 10, .	1.5	14
15	Wobility-controlled extremely large magnetoresistance in perfect electron-hole compensated WTe_2 . Physical Review Applied, 2018, 9, .	1.1	22
16	Tunable Resistance or Magnetoresistance Cusp and Extremely Large Magnetoresistance in Defect-Engineered WTe_2 Single Crystals. Physical Review Applied, 2018, 9, .	1.5	15
17	Near-room-temperature Chern insulator and Dirac spin-gapless semiconductor: nickel chloride monolayer. Nanoscale, 2017, 9, 2246-2252.	2.8	120
18	Experimental Observation of Anisotropic Adler-Bell-Jackiw Anomaly in Type-II Weyl Semimetal Crystals at the Quasiclassical Regime. Physical Review Letters, 2017, 118, 096603.	2.9	114

#	ARTICLE	IF	CITATIONS
19	Composition and temperature-dependent phase transition in miscible $\text{Mo}_{1-x}\text{W}_x\text{Te}_2$ single crystals. Scientific Reports, 2017, 7, 44587.	1.6	58
20	Valley splitting in the transition-metal dichalcogenide monolayer via atom adsorption. Nanoscale, 2017, 9, 2188-2194.	2.8	53
21	Topological Dirac States beyond π -Orbitals for Silicene on $\text{SiC}(0001)$ Surface. Nano Letters, 2017, 17, 6195-6202.	4.5	36
22	The relationship between anisotropic magnetoresistance and topology of Fermi surface in Td-MoTe2 crystal. Journal of Applied Physics, 2017, 122, .	1.1	7
23	Ultra-low thermal conductivities along c -axis of naturally misfit layered $\text{Bi}_2[\text{AE}]_2\text{Co}_2\text{O}_y$ ($\text{AE} = \text{Tl, ET, Q, Pb}$). <i>npj Quantum Materials</i> , 2017, 2, .	1.5	12
24	Investigation on the phase-transition-induced hysteresis in the thermal transport along the c -axis of MoTe_2 . <i>Npj Quantum Materials</i> , 2017, 2, .	1.8	41
25	Composition dependent phase transition and its induced hysteretic effect in the thermal conductivity of $\text{W}_x\text{Mo}_{1-x}\text{Te}_2$. Applied Physics Letters, 2017, 110, .	1.5	22
26	Topological phase transitions in thin films by tuning multivalley boundary-state couplings. Physical Review B, 2017, 95, .	1.1	6
27	The Microstructural Characterization of Multiferroic LaFeO_3 - YMnO_3 Multilayers Grown on (001)- and (111)- SrTiO_3 Substrates by Transmission Electron Microscopy. Materials, 2017, 10, 839.	1.3	3
28	Electrically controlled band gap and topological phase transition in two-dimensional multilayer germanane. Applied Physics Letters, 2016, 108, .	1.5	13
29	Uncovering edge states and electrical inhomogeneity in MoS_2 field-effect transistors. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8583-8588.	3.3	94
30	Two-dimensional transition metal dichalcogenides with a hexagonal lattice: Room-temperature quantum spin Hall insulators. Physical Review B, 2016, 93, .	1.1	56
31	Room temperature quantum spin Hall states in two-dimensional crystals composed of pentagonal rings and their quantum wells. <i>NPG Asia Materials</i> , 2016, 8, e264-e264.	3.8	65
32	Two-dimensional inversion-asymmetric topological insulators in functionalized III-Bi bilayers. Physical Review B, 2015, 91, .	1.1	60
33	Quantum spin Hall effect and topological phase transition in two-dimensional square transition-metal dichalcogenides. Physical Review B, 2015, 92, .	1.1	117
34	Giant and tunable valley degeneracy splitting in MoTe_2 . Physical Review B, 2015, 92, .	1.1	284
35	Electronic properties of two-dimensional van der Waals GaS/GaSe heterostructures. Journal of Materials Chemistry C, 2015, 3, 11548-11554.	2.7	66
36	Single-Spin Dirac Fermion and Chern Insulator Based on Simple Oxides. Nano Letters, 2015, 15, 6434-6439.	4.5	87

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37	2012 Problem 13: Misty Glass. , 2014, , 77-85.		0
38	Edge engineering of a topological Bi(111) bilayer. Physical Review B, 2014, 90, .	1.1	32
39	Strain tuning of magnetism in Mn doped MoS ₂ monolayer. Journal of Physics Condensed Matter, 2014, 26, 256003.	0.7	29
40	Superlattice valley engineering for designer topological insulators. Scientific Reports, 2014, 4, 6397.	1.6	27
41	Magnetic control of the valley degree of freedom of massive Dirac fermions with application to transition metal dichalcogenides. Physical Review B, 2013, 88, .	1.1	121
42	Valley Carrier Dynamics in Monolayer Molybdenum Disulfide from Helicity-Resolved Ultrafast Pump-Probe Spectroscopy. ACS Nano, 2013, 7, 11087-11093.	7.3	213
43	Bandgap engineering of rippled MoS ₂ monolayer under external electric field. Applied Physics Letters, 2013, 102, .	1.5	106
44	Coupling the valley degree of freedom to antiferromagnetic order. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3738-3742.	3.3	263
45	Influence of water on the electronic structure of metal-supported graphene: Insights from van der Waals density functional theory. Physical Review B, 2012, 85, .	1.1	70