

Xiaobin Chen

List of Publications by Year in descending order

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42
papers

1,559
citations

331670

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302126

39
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44
all docs

44
docs citations

44
times ranked

2274
citing authors

#	ARTICLE	IF	CITATIONS
1	Ubiquitous Topological States of Phonons in Solids: Silicon as a Model Material. Nano Letters, 2022, 22, 2120-2126.	9.1	26
2	Magneto-resistance of Ni/WSe ₂ /Ni junctions: robustness against the thickness of WSe ₂ . Nanotechnology, 2022, 33, 385001.	2.6	3
3	Unambiguous determination of crystal orientation in black phosphorus by angle-resolved polarized Raman spectroscopy. Nanoscale Horizons, 2021, 6, 809-818.	8.0	20
4	Moiré Superlattice-Induced Superconductivity in One-Unit-Cell FeTe. Nano Letters, 2021, 21, 1327-1334.	9.1	6
5	Towards ultrafast cooling through transient phonon currents: A closed-form solution. Physical Review B, 2021, 103, .	3.2	1
6	Magnetic order in XY-type antiferromagnetic monolayer CoPS ₃ revealed by Raman spectroscopy. Physical Review B, 2021, 103, .	3.2	20
7	Dzyaloshinskii-Moriya anisotropy effect on field-induced magnon condensation in the kagome antiferromagnet \hat{I}_{\pm} . Physical Review B, 2021, 104, .	3.2	0
8	Understanding the flat band in $1T$ using a rotated basis. Physical Review B, 2021, 104, .	3.2	1
9	Topological Phononics: From Fundamental Models to Real Materials. Advanced Functional Materials, 2020, 30, 1904784.	14.9	143
10	Family of Magic-Sized Carbon Clusters on Transition Metal Substrates. Advanced Functional Materials, 2020, 30, 2006671.	14.9	2
11	Topological Hall Effect in Traditional Ferromagnet Embedded with Black-Phosphorus-Like Bismuth Nanosheets. ACS Applied Materials & Interfaces, 2020, 12, 25135-25142.	8.0	21
12	Magnetic Raman continuum in single-crystalline H_3LiO_6 .	3.2	11
13	Physical Review B, 2020, 101, . Raman spectroscopy. Physical Review B, 2020, 101, .	3.2	11
14	Structure and Dynamics of the Electronic Heterointerfaces in MoS ₂ by First-Principles Simulations. Journal of Physical Chemistry Letters, 2020, 11, 1644-1649.	4.6	9
15	Phonon-Grain-Boundary-Interaction-Mediated Thermal Transport in Two-Dimensional Polycrystalline MoS ₂ . ACS Applied Materials & Interfaces, 2019, 11, 25547-25555.	8.0	22
16	Valley filtering effect of phonons in graphene with a grain boundary. Physical Review B, 2019, 99, .	3.2	15
17	Raman spectroscopy evidence for dimerization and Mott collapse in \hat{I}_{\pm} under pressures. Physical Review Materials, 2019, 3, .	3.2	1
18	Rectifying full-counting statistics in a spin Seebeck engine. Physical Review B, 2018, 97, .	3.2	23

#	ARTICLE	IF	CITATIONS
19	Transient spin current under a thermal switch. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 274004.	2.8	5
20	Thermal Engineering in Low-Dimensional Quantum Devices: A Tutorial Review of Nonequilibrium Green's Function Methods. <i>Small Methods</i> , 2018, 2, 1700343.	8.6	18
21	Piezoelectric scattering limited mobility of hybrid organic-inorganic perovskites CH ₃ NH ₃ PbI ₃ . <i>Scientific Reports</i> , 2017, 7, 41860.	3.3	31
22	Widely tunable and anisotropic charge carrier mobility in monolayer tin(II) selenide using biaxial strain: a first-principles study. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1247-1254.	5.5	104
23	Perfect spin and valley polarized quantum transport in twisted SiC nanoribbons. <i>2D Materials</i> , 2017, 4, 025013.	4.4	27
24	Enhancing the spin transfer torque in magnetic tunnel junctions by ac modulation. <i>Physical Review B</i> , 2017, 95, .	3.2	7
25	Phonon structures of GaN-based random semiconductor alloys. <i>European Physical Journal B</i> , 2017, 90, 1.	1.5	0
26	Observation of thermal spin-transfer torque via ferromagnetic resonance in magnetic tunnel junctions. <i>Physical Review B</i> , 2016, 94, .	3.2	22
27	Negative differential resistance in GeSi core-shell transport junctions: the role of local sp ² hybridization. <i>Nanoscale</i> , 2016, 8, 16026-16033.	5.6	3
28	Theory of quantum transport in disordered systems driven by voltage pulse. <i>Physical Review B</i> , 2016, 94, .	3.2	12
29	Valley caloritronics and its realization by graphene nanoribbons. <i>Physical Review B</i> , 2015, 92, .	3.2	35
30	Enhanced thermoelectric figure of merit in thin GaAs nanowires. <i>Nanoscale</i> , 2015, 7, 8776-8781.	5.6	24
31	Dirac fermions in blue-phosphorus. <i>2D Materials</i> , 2014, 1, 031002.	4.4	34
32	A proposal of a spin cell using light on magnetic tunneling junctions. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 016003.	1.8	2
33	Tunable anisotropic thermal conduction in graphene nanoribbons. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	15
34	Giant room-temperature spin caloritronics in spin-semiconducting graphene nanoribbons. <i>Physical Review B</i> , 2014, 90, .	3.2	85
35	Interfacial thermal conductance of partially unzipped carbon nanotubes: Linear scaling and exponential decay. <i>Physical Review B</i> , 2013, 87, .	3.2	33
36	Defect-Dominated Shape Recovery of Nanocrystals: A New Strategy for Trimetallic Catalysts. <i>Journal of the American Chemical Society</i> , 2013, 135, 12220-12223.	13.7	96

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37	Photon-assisted thermoelectric properties of noncollinear spin valves. <i>Physical Review B</i> , 2013, 87, .	3.2	38
38	Interlayer interactions in graphites. <i>Scientific Reports</i> , 2013, 3, 3046.	3.3	171
39	PdCu ₂ O and AgCu ₂ O Hybrid Concave Nanomaterials for an Effective Synergistic Catalyst. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11049-11053.	13.8	74
40	Trends in charge transfer and spin alignment of metallocene on graphene. <i>Physical Review B</i> , 2011, 83, .	3.2	15
41	Thermal transport in graphene junctions and quantum dots. <i>Physical Review B</i> , 2010, 81, .	3.2	95
42	Intrinsic anisotropy of thermal conductance in graphene nanoribbons. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	176