Yun-Peng Wang

List of Publications by Year
in descending order

34	725	759233 12	552781 26
papers	citations	h-index	g-index

34	34	34	1209
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Negative thermal expansion of two-dimensional magnets. Applied Physics Letters, 2022, 120, .	3.3	6
2	Enhanced tunneling electroresistance effect by designing interfacial ferroelectric polarization in multiferroic tunnel junctions. Physical Review B, 2022, 105, .	3.2	1
3	Thermal transport of monolayer amorphous carbon and boron nitride. Applied Physics Letters, 2022, 120, .	3.3	3
4	Engineering the Crack Structure and Fracture Behavior in Monolayer MoS₂ By Selective Creation of Point Defects. Advanced Science, 2022, 9, .	11.2	10
5	Giant ferroelectric modulation of barrier height and width in multiferroic tunnel junctions. Physical Review B, 2021, 103, .	3.2	4
6	First-principles investigations on a two-dimensional S₃N₂/black phosphorene van der Waals heterostructure: mechanical, carrier transport and thermoelectric anisotropy. Journal of Physics Condensed Matter, 2021, 33, 425301.	1.8	7
7	Effects of pressure and strain on physical properties of VI₃. Journal of Physics Condensed Matter, 2021, 33, 485402.	1.8	0
8	Thermodynamic properties of metastable wurtzite InP nanosheets. Journal Physics D: Applied Physics, 2021, 54, 505112.	2.8	1
9	The Magnetic Proximity Effect at the MoS2/CrI3 Interface. Journal of Physics Condensed Matter, 2021, 34, .	1.8	4
10	One-dimensional model for coupling between magnon and optical phonon. Physical Review B, 2021, 104, .	3.2	1
11	The spin-polarized edge states of blue phosphorene nanoribbons induced by electric field and electron doping. Journal of Physics Condensed Matter, 2021, 33, 105302.	1.8	2
12	Synthesis and properties of free-standing monolayer amorphous carbon. Nature, 2020, 577, 199-203.	27.8	250
13	Outstanding thermoelectric properties of solvothermal-synthesized Sn_{1â˜3x}In_xAg_{2x}Te micro-crystals through defect engineering and band tuning. Journal of Materials Chemistry A, 2020, 8, 3978-3987.	10.3	25
14	Observation of split defect-bound excitons in twisted WSe2/WSe2 homostructure. Applied Physics Letters, 2020, 117, .	3.3	18
15	Paramagnetic phases of two-dimensional magnetic materials. Physical Review B, 2020, 102, .	3.2	6
16	Modifications of magnetic anisotropy of Fe3GeTe2 by the electric field effect. Applied Physics Letters, 2020, 116, .	3.3	30
17	Gate field effects on the topological insulator BiSbTeSe2 interface. Applied Physics Letters, 2020, 116, 031601.	3.3	5
18	Electronic and magnetic properties of van der Waals ferromagnetic semiconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>VI</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:m Physical Review B, 2020, 101, .	3.2	28

#	Article	IF	Citations
19	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>DFT</mml:mi><mml:mo>+</mml:mo><mml:mi>DMFT</mml:mi></mml:mrow></mml:math> calculations of the complex band and tunneling behavior for the transition metal monoxides MnO, FeO, CoO, and NiO. Physical Review B, 2019, 100, .	3.2	18
20	First-principles prediction of switchable metallic ferroelectricity in multiferroic tunnel junctions. Physical Review B, 2019, 99, .	3.2	8
21	Tuning spin transport across two-dimensional organometallic junctions. Physical Review B, 2018, 97, .	3.2	2
22	Magnetic phase transition induced by electrostatic gating in two-dimensional square metal-organic frameworks. Physical Review B, 2018, 97, .	3.2	6
23	Cation Substitution Effect on a Molecular Analogue of Perovskite Manganites. Journal of Physical Chemistry C, 2017, 121, 10893-10898.	3.1	3
24	Two-dimensional lateral GaN/SiC heterostructures: First-principles studies of electronic and magnetic properties. Physical Review B, 2017, 95, .	3.2	22
25	Molecular analogue of the perovskite repeating unit and evidence for direct MnIII-CeIV-MnIII exchange coupling pathway. Nature Communications, 2017, 8, 500.	12.8	28
26	Multicontrol Over Grapheneâ€“Molecule Hetereojunctions. ACS Omega, 2017, 2, 5824-5830.	3.5	2
27	Comparative investigation of electronic transport across three-dimensional nanojunctions. Physical Review B, 2017, 95, .	3.2	2
28	All-electron self-consistent<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi></mml:mrow></mml:m the Matsubara-time domain: Implementation and benchmarks of semiconductors and insulators. Physical Review B, 2016, 93, .	3.2	23
29	First-principles studies of electric field effects on the electronic structure of trilayer graphene. Physical Review B, 2016, 94, .	3.2	20
30	First-principles simulations of a graphene-based field-effect transistor. Physical Review B, 2015, 91, .	3.2	15
31	CONTROL OF CONDUCTANCE AND MAGNETORESISTANCE OF MOLECULAR JUNCTIONS. Spin, 2014, 04, 1440011.	1.3	1
32	Absence of a Dirac cone in silicene on Ag(111): First-principles density functional calculations with a modified effective band structure technique. Physical Review B, 2013, 87, .	3.2	141
33	Resistance of Ag-silicene-Ag junctions: A combined nonequilibrium Green's function and Boltzmann transport study. Physical Review B, 2013, 88, .	3.2	9
34	Engineering Dual Singleâ€Atom Sites on 2D Ultrathin Nâ€doped Carbon Nanosheets Attaining Ultraâ€Lowâ€Temperature Zincâ€Air Battery. Angewandte Chemie, 0, , .	2.0	24