

Jia-An Yan

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

3,466
citations

279798

23
h-index

330143

37
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38
all docs

38
docs citations

38
times ranked

5791
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Thermoelectric Efficiency via Orthogonal Electrical and Thermal Conductances in Phosphorene. Nano Letters, 2014, 14, 6393-6399.	9.1	680
2	Structural and Electronic Properties of Oxidized Graphene. Physical Review Letters, 2009, 103, 086802.	7.8	463
3	Strain-tunable magnetic anisotropy in monolayer CrCl_3 and CrBr_3 . Physical Review Letters, 2016, 116, 087401.	3.2	405
4	Oxidation functional groups on graphene: Structural and electronic properties. Physical Review B, 2010, 82, .	3.2	328
5	Phonon dispersions and vibrational properties of monolayer, bilayer, and trilayer graphene: Density-functional perturbation theory. Physical Review B, 2008, 77, .	3.2	196
6	Coupling and Stacking Order of ReS_2 Atomic Layers Revealed by Ultralow-Frequency Raman Spectroscopy. Nano Letters, 2016, 16, 1404-1409.	9.1	139
7	Tuning the electronic structure of silicene and germanene by biaxial strain and electric field. Physical Review B, 2015, 91, .	3.2	137
8	Generalized-stacking-fault energy and dislocation properties in bcc Fe: A first-principles study. Physical Review B, 2004, 70, .	3.2	111
9	Electron-phonon coupling in two-dimensional silicene and germanene. Physical Review B, 2013, 88, .	3.2	103
10	Size and orientation dependence in the electronic properties of silicon nanowires. Physical Review B, 2007, 76, .	3.2	101
11	Distinct spin-lattice and spin-phonon interactions in monolayer magnetic CrI_3 . Physical Chemistry Chemical Physics, 2018, 20, 23546-23555.	2.8	84
12	Stability and properties of high-buckled two-dimensional tin and lead. Physical Review B, 2014, 90, .	3.2	80
13	Layered material GeSe and vertical GeSe/MoS ₂ p-n heterojunctions. Nano Research, 2018, 11, 420-430.	10.4	74
14	First-principles study of the electronic structures of icosahedral TiN_n (N=13,19,43,55) clusters. Journal of Chemical Physics, 2004, 120, 8463-8468.	3.0	49
15	Band Gap Characters and Ferromagnetic/Antiferromagnetic Coupling in Group-IV Monolayers Tuned by Chemical Species and Hydrogen Adsorption Configurations. Nanoscale Research Letters, 2015, 10, 1040.	5.7	46
16	Recent Progress on Irradiation-Induced Defect Engineering of Two-Dimensional 2H-MoS ₂ Few Layers. Applied Sciences (Switzerland), 2019, 9, 678.	2.5	46
17	Electron-phonon interactions for optical-phonon modes in few-layer graphene: First-principles calculations. Physical Review B, 2009, 79, .	3.2	44
18	Structural, electronic and vibrational properties of few-layer 2H- and 1T-TaSe ₂ . Scientific Reports, 2015, 5, 16646.	3.3	44

#	ARTICLE	IF	CITATIONS
19	Stacking-dependent interlayer phonons in 3R and 2H MoS ₂ . 2D Materials, 2019, 6, 025022.	4.4	37
20	Probing the uniaxial strains in MoS ₂ by polarized Raman spectroscopy: A first-principles study. Physical Review B, 2016, 93, .	3.6	36
21	Interlayer breathing and shear modes in NbSe ₂ atomic layers. 2D Materials, 2016, 3, 031008.	4.4	33
22	Size- and Strain-Dependent Electronic Structures in H-Passivated Si [112] Nanowires. Journal of Physical Chemistry C, 2008, 112, 15680-15683.	3.1	25
23	Electronic and vibrational properties of AlH ₃ . Physical Review B, 2008, 77, .	3.2	25
24	Electronic states and doping effect of carbon in the edge-dislocation core of bcc iron. Physical Review B, 2004, 69, .	3.2	24
25	Highly tunable Raman scattering and transport in layered magnetic Cr ₂ S ₃ nanoplates grown by sulfurization. 2D Materials, 2019, 6, 035029.	4.4	24
26	Strain-tunable topological quantum phase transition in buckled honeycomb lattices. Applied Physics Letters, 2015, 106, .	3.3	22
27	Basic Concepts and Recent Advances of Crystallographic Orientation Determination of Graphene by Raman Spectroscopy. Crystals, 2018, 8, 375.	2.2	21
28	Time-domain simulation of electron diffraction in crystals. Physical Review B, 2011, 84, .	3.2	17
29	Enhanced optical conductivity induced by surface states in ABC-stacked few-layer graphene. Physical Review B, 2011, 83, .	3.2	17
30	Structural Monoclinicity and Its Coupling to Layered Magnetism in Few-Layer CrI ₃ . ACS Nano, 2021, 15, 10444-10450.	14.6	14
31	Electron Talbot effect on graphene. Physical Review B, 2016, 93, .	3.2	12
32	First-principles study of boron segregation to the edge dislocation in B2-ordered FeAl. Physical Review B, 2005, 72, .	3.2	10
33	Energetics, electronic structure and local magnetism of single 3d impurity in GaAs. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 324, 247-253.	2.1	7
34	Optical phonon anomaly in Bernal stacked bilayer graphene with ultrahigh carrier densities. Physical Review B, 2012, 86, .	3.2	3
35	Electric-field effects on the optical vibrations in AB-stacked bilayer graphene. Physical Review B, 2013, 87, .	3.2	3
36	Raman spectra and elastic light scattering dynamics of V ₂ O ₅ across insulator-metal transition. Journal of Applied Physics, 2021, 129, 025111.	2.5	3

#	ARTICLE	IF	CITATIONS
37	CBED Investigations of Boron Monoarsenide Crystals. <i>Microscopy and Microanalysis</i> , 2018, 24, 30-31.	0.4	0