Jia-An Yan

List of Publications by Year
in descending order

37 papers	3,466 citations	279798 23 h-index	330143 37 g-index
38 all docs	38 docs citations	38 times ranked	5791 citing authors

#	Article	IF	Citations
1	Structural Monoclinicity and Its Coupling to Layered Magnetism in Few-Layer CrI₃. ACS Nano, 2021, 15, 10444-10450.	14.6	14
2	Raman spectra and elastic light scattering dynamics of V3O5 across insulatorâ€“metal transition. Journal of Applied Physics, 2021, 129, 025111.	2.5	3
3	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
4	Recent Progress on Irradiation-Induced Defect Engineering of Two-Dimensional 2H-MoS2 Few Layers. Applied Sciences (Switzerland), 2019, 9, 678.	2.5	46
5	Stacking-dependent interlayer phonons in 3R and 2H MoS ₂. 2D Materials, 2019, 6, 025022.	4.4	37
6	Layered material GeSe and vertical GeSe/MoS2 p-n heterojunctions. Nano Research, 2018, 11, 420-430.	10.4	74
7	Basic Concepts and Recent Advances of Crystallographic Orientation Determination of Graphene by Raman Spectroscopy. Crystals, 2018, 8, 375.	2.2	21
8	Strain-tunable magnetic anisotropy in monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrCl</mml:mi><mml:mn>3</mml:mn></mml:msub></mm , <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrBr</mml:mi><mml:mn>3</mml:mn></mml:msub></mm , and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrI</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:	3.2	405
9	Distinct spinâ€“lattice and spinâ€“phonon interactions in monolayer magnetic CrI₃. Physical Chemistry Chemical Physics, 2018, 20, 23546-23555.	2.8	84
10	CBED Investigations of Boron Monoarsenide Crystals. Microscopy and Microanalysis, 2018, 24, 30-31.	0.4	0
11	Interlayer breathing and shear modes in NbSe ₂ atomic layers. 2D Materials, 2016, 3, 031008.	4.4	33
12	Probing the uniaxial strains in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>MoS</mml:mtext><mml:mn>2</mml:mn></mml:msub> polarized Raman spectroscopy: A first-principles study. Physical Review B, 2016, 93, .	3.2	36
13	Electron Talbot effect on graphene. Physical Review B, 2016, 93, .	3.2	12
14	Coupling and Stacking Order of ReS₂ Atomic Layers Revealed by Ultralow-Frequency Raman Spectroscopy. Nano Letters, 2016, 16, 1404-1409.	9.1	139
15	Structural, electronic and vibrational properties of few-layer 2H- and 1T-TaSe2. Scientific Reports, 2015, 5, 16646.	3.3	44
16	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
17	Tuning the electronic structure of silicene and germanene by biaxial strain and electric field. Physical Review B, 2015, 91, .	3.2	137
18	Strain-tunable topological quantum phase transition in buckled honeycomb lattices. Applied Physics Letters, 2015, 106, .	3.3	22

#	Article	IF	Citations
19	Stability and properties of high-buckled two-dimensional tin and lead. Physical Review B, 2014, 90, .	3.2	80
20	Enhanced Thermoelectric Efficiency via Orthogonal Electrical and Thermal Conductances in Phosphorene. Nano Letters, 2014, 14, 6393-6399.	9.1	680
21	Electron-phonon coupling in two-dimensional silicene and germanene. Physical Review B, 2013, 88, .	3.2	103
22	Electric-field effects on the optical vibrations in AB-stacked bilayer graphene. Physical Review B, 2013, 87, .	3.2	3
23	Optical phonon anomaly in Bernal stacked bilayer graphene with ultrahigh carrier densities. Physical Review B, 2012, 86, .	3.2	3
24	Time-domain simulation of electron diffraction in crystals. Physical Review B, 2011, 84, .	3.2	17
25	Enhanced optical conductivity induced by surface states in ABC-stacked few-layer graphene. Physical Review B, 2011, 83, .	3.2	17
26	Oxidation functional groups on graphene: Structural and electronic properties. Physical Review B, 2010, 82, .	3.2	328
27	Structural and Electronic Properties of Oxidized Graphene. Physical Review Letters, 2009, 103, 086802.	7.8	463
28	Electron-phonon interactions for optical-phonon modes in few-layer graphene: First-principles calculations. Physical Review B, 2009, 79, .	3.2	44
29	Phonon dispersions and vibrational properties of monolayer, bilayer, and trilayer graphene: Density-functional perturbation theory. Physical Review B, 2008, 77, .	3.2	196
30	Size- and Strain-Dependent Electronic Structures in H-Passivated Si [112] Nanowires. Journal of Physical Chemistry C, 2008, 112, 15680-15683.	3.1	25
31	Electronic and vibrational properties ofÎ³â^'AlH3. Physical Review B, 2008, 77, .	3.2	25
32	Size and orientation dependence in the electronic properties of silicon nanowires. Physical Review B, 2007, 76, .	3.2	101
33	First-principles study of boron segregation to the edge dislocation inB2-ordered FeAl. Physical Review B, 2005, 72, .	3.2	10
34	Electronic states and doping effect of carbon in the edge-dislocation core of bcc iron. Physical Review B, 2004, 69, .	3.2	24
35	First-principles study of the electronic structures of icosahedral TiNâ€Š(N=13,19,43,55) clusters. Journal of Chemical Physics, 2004, 120, 8463-8468.	3.0	49
36	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

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37	Generalized-stacking-fault energy and dislocation properties inbccFe:â€ƒ A first-principles study. Physical Review B, 2004, 70, .	3.2	111