

Jia-An Yan

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

3,466
citations

279701

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37
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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. | 4.5 | 680 |
| 2 | Structural and Electronic Properties of Oxidized Graphene. Physical Review Letters, 2009, 103, 086802. | 2.9 | 463 |
| 3 | Strain-tunable magnetic anisotropy in monolayer CrCl_3 , CrBr_3 , and CrI_3 . Physical Review Letters, 2018, 121, 087201. | 1.1 | 405 |
| 4 | Oxidation functional groups on graphene: Structural and electronic properties. Physical Review B, 2010, 82, . | 1.1 | 328 |
| 5 | Phonon dispersions and vibrational properties of monolayer, bilayer, and trilayer graphene: Density-functional perturbation theory. Physical Review B, 2008, 77, . | 1.1 | 196 |
| 6 | Coupling and Stacking Order of ReS_2 Atomic Layers Revealed by Ultralow-Frequency Raman Spectroscopy. Nano Letters, 2016, 16, 1404-1409. | 4.5 | 139 |
| 7 | Tuning the electronic structure of silicene and germanene by biaxial strain and electric field. Physical Review B, 2015, 91, . | 1.1 | 137 |
| 8 | Generalized-stacking-fault energy and dislocation properties in bcc Fe: A first-principles study. Physical Review B, 2004, 70, . | 1.1 | 111 |
| 9 | Electron-phonon coupling in two-dimensional silicene and germanene. Physical Review B, 2013, 88, . | 1.1 | 103 |
| 10 | Size and orientation dependence in the electronic properties of silicon nanowires. Physical Review B, 2007, 76, . | 1.1 | 101 |
| 11 | Distinct spin-lattice and spin-phonon interactions in monolayer magnetic CrI_3 . Physical Chemistry Chemical Physics, 2018, 20, 23546-23555. | 1.3 | 84 |
| 12 | Stability and properties of high-buckled two-dimensional tin and lead. Physical Review B, 2014, 90, . | 1.1 | 80 |
| 13 | Layered material GeSe and vertical GeSe/MoS ₂ p-n heterojunctions. Nano Research, 2018, 11, 420-430. | 5.8 | 74 |
| 14 | First-principles study of the electronic structures of icosahedral TiN_x (N=13,19,43,55) clusters. Journal of Chemical Physics, 2004, 120, 8463-8468. | 1.2 | 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. | 3.1 | 46 |
| 16 | Recent Progress on Irradiation-Induced Defect Engineering of Two-Dimensional 2H-MoS ₂ Few Layers. Applied Sciences (Switzerland), 2019, 9, 678. | 1.3 | 46 |
| 17 | Electron-phonon interactions for optical-phonon modes in few-layer graphene: First-principles calculations. Physical Review B, 2009, 79, . | 1.1 | 44 |
| 18 | Structural, electronic and vibrational properties of few-layer 2H- and 1T-TaSe ₂ . Scientific Reports, 2015, 5, 16646. | 1.6 | 44 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Stacking-dependent interlayer phonons in 3R and 2H MoS ₂ . 2D Materials, 2019, 6, 025022. | 2.0 | 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. | 2.0 | 33 |
| 22 | Size- and Strain-Dependent Electronic Structures in H-Passivated Si [112] Nanowires. Journal of Physical Chemistry C, 2008, 112, 15680-15683. | 1.5 | 25 |
| 23 | Electronic and vibrational properties of AlH ₃ . Physical Review B, 2008, 77, . | 1.1 | 25 |
| 24 | Electronic states and doping effect of carbon in the edge-dislocation core of bcc iron. Physical Review B, 2004, 69, . | 1.1 | 24 |
| 25 | Highly tunable Raman scattering and transport in layered magnetic Cr ₂ S ₃ nanoplates grown by sulfurization. 2D Materials, 2019, 6, 035029. | 2.0 | 24 |
| 26 | Strain-tunable topological quantum phase transition in buckled honeycomb lattices. Applied Physics Letters, 2015, 106, . | 1.5 | 22 |
| 27 | Basic Concepts and Recent Advances of Crystallographic Orientation Determination of Graphene by Raman Spectroscopy. Crystals, 2018, 8, 375. | 1.0 | 21 |
| 28 | Time-domain simulation of electron diffraction in crystals. Physical Review B, 2011, 84, . | 1.1 | 17 |
| 29 | Enhanced optical conductivity induced by surface states in ABC-stacked few-layer graphene. Physical Review B, 2011, 83, . | 1.1 | 17 |
| 30 | Structural Monoclinicity and Its Coupling to Layered Magnetism in Few-Layer CrI ₃ . ACS Nano, 2021, 15, 10444-10450. | 7.3 | 14 |
| 31 | Electron Talbot effect on graphene. Physical Review B, 2016, 93, . | 1.1 | 12 |
| 32 | First-principles study of boron segregation to the edge dislocation in B2-ordered FeAl. Physical Review B, 2005, 72, . | 1.1 | 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. | 0.9 | 7 |
| 34 | Optical phonon anomaly in Bernal stacked bilayer graphene with ultrahigh carrier densities. Physical Review B, 2012, 86, . | 1.1 | 3 |
| 35 | Electric-field effects on the optical vibrations in AB-stacked bilayer graphene. Physical Review B, 2013, 87, . | 1.1 | 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. | 1.1 | 3 |

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|----|--|-----|-----------|
| 37 | CBED Investigations of Boron Monoarsenide Crystals. <i>Microscopy and Microanalysis</i> , 2018, 24, 30-31. | 0.2 | 0 |