

Shengjun Yuan

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

4,150
citations

201674

27
h-index

114465

63
g-index

71
all docs

71
docs citations

71
times ranked

6361
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Fluorographene: A Two-Dimensional Counterpart of Teflon. <i>Small</i> , 2010, 6, 2877-2884. | 10.0 | 1,146 |
| 2 | Production of Highly Monolayer Enriched Dispersions of Liquid-Exfoliated Nanosheets by Liquid Cascade Centrifugation. <i>ACS Nano</i> , 2016, 10, 1589-1601. | 14.6 | 365 |
| 3 | Limits on gas impermeability of graphene. <i>Nature</i> , 2020, 579, 229-232. | 27.8 | 220 |
| 4 | Modeling electronic structure and transport properties of graphene with resonant scattering centers. <i>Physical Review B</i> , 2010, 82, . | 3.2 | 218 |
| 5 | Spectroscopic metrics allow in situ measurement of mean size and thickness of liquid-exfoliated few-layer graphene nanosheets. <i>Nanoscale</i> , 2016, 8, 4311-4323. | 5.6 | 194 |
| 6 | Strain-tunable magnetic and electronic properties of monolayer CrI ₃ . <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7750-7755. | 2.8 | 143 |
| 7 | Optical transmittance of multilayer graphene. <i>Europhysics Letters</i> , 2014, 108, 17007. | 2.0 | 142 |
| 8 | Excitation spectrum and high-energy plasmons in single-layer and multilayer graphene. <i>Physical Review B</i> , 2011, 84, . | 3.2 | 105 |
| 9 | Effect of Structural Relaxation on the Electronic Structure of Graphene on Hexagonal Boron Nitride. <i>Physical Review Letters</i> , 2015, 115, 186801. | 7.8 | 93 |
| 10 | How Substitutional Point Defects in Two-Dimensional WS ₂ Induce Charge Localization, Spin-Orbit Splitting, and Strain. <i>ACS Nano</i> , 2019, 13, 10520-10534. | 14.6 | 86 |
| 11 | Electronic correlations in nodal-line semimetals. <i>Nature Physics</i> , 2020, 16, 636-641. | 16.7 | 86 |
| 12 | Electronic and mechanical properties of few-layer borophene. <i>Physical Review B</i> , 2018, 98, . | 3.2 | 83 |
| 13 | Strain-induced semiconductor to metal transition in M_2A_3 | | |

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|----|---|------|-----------|
| 19 | Electronic Structures and Optical Properties of Partially and Fully Fluorinated Graphene. <i>Physical Review Letters</i> , 2015, 114, 047403. | 7.8 | 58 |
| 20 | The mechanical, electronic and optical properties of two-dimensional transition metal chalcogenides MX_2 and M_2X_3 ($M = Ni, Pd; X = S, Se, Te$) with hexagonal and orthorhombic structures. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13518-13525. | 5.5 | 58 |
| 21 | Dodecagonal bilayer graphene quasicrystal and its approximants. <i>Npj Computational Materials</i> , 2019, 5, . | 8.7 | 53 |
| 22 | Screening and plasmons in pure and disordered single- and bilayer black phosphorus. <i>Physical Review B</i> , 2015, 92, . | 3.2 | 41 |
| 23 | Hall conductivity of a Sierpiński carpet. <i>Physical Review B</i> , 2020, 101, . | 3.2 | 36 |
| 24 | Electronic properties of disordered graphene antidot lattices. <i>Physical Review B</i> , 2013, 87, . | 3.2 | 34 |
| 25 | Effects of out-of-plane strains and electric fields on the electronic structures of graphene/MTe ($M = Tl, Bi, Sb, As, Sn, Pb, Bi, Te, Se, S$). <i>Physical Review B</i> , 2019, 100, 041407. | 3.6 | 34 |
| 26 | Plasmon confinement in fractal quantum systems. <i>Physical Review B</i> , 2018, 97, . | 3.2 | 33 |
| 27 | Tunability of multiple ultraflat bands and effect of spin-orbit coupling in twisted bilayer transition metal dichalcogenides. <i>Physical Review B</i> , 2020, 102, . | 3.2 | 31 |
| 28 | Optical conductivity of a quantum electron gas in a Sierpinski carpet. <i>Physical Review B</i> , 2017, 96, . | 3.2 | 29 |
| 29 | Collective excitations and flat-band plasmon in twisted bilayer graphene near the magic angle. <i>Physical Review B</i> , 2021, 103, . | 3.2 | 23 |
| 30 | Lattice relaxation, mirror symmetry and magnetic field effects on ultraflat bands in twisted trilayer graphene. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1. | 5.1 | 23 |
| 31 | 2D GaN for Highly Reproducible Surface Enhanced Raman Scattering. <i>Small</i> , 2021, 17, e2103442. | 10.0 | 23 |
| 32 | Tuning band gaps in twisted bilayer MoS_2 . <i>Physical Review B</i> , 2020, 102, . | 3.2 | 22 |
| 33 | An atomistic approach for the structural and electronic properties of twisted bilayer graphene-boron nitride heterostructures. <i>Npj Computational Materials</i> , 2022, 8, . | 8.7 | 22 |
| 34 | Growth and Raman Scattering Investigation of a New 2D MOX Material: YbOCl. <i>Advanced Functional Materials</i> , 2019, 29, 1903017. | 14.9 | 21 |
| 35 | Type-II Lateral Heterostructures of Monolayer Halide Double Perovskites for Optoelectronic Applications. <i>ACS Energy Letters</i> , 2020, 5, 2275-2282. | 17.4 | 20 |
| 36 | Strain-Induced Bandgap Enhancement of InSe Ultrathin Films with Self-Formed Two-Dimensional Electron Gas. <i>ACS Nano</i> , 2021, 15, 10700-10709. | 14.6 | 19 |

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|----|---|-----|-----------|
| 37 | Anisotropic ultraviolet-plasmon dispersion in black phosphorus. <i>Nanoscale</i> , 2018, 10, 21918-21927. | 5.6 | 18 |
| 38 | Power-law energy level spacing distributions in fractals. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 18 |
| 39 | Electronic properties and quasiparticle model of monolayer MoSi_2N_4 . <i>Physical Review B</i> , 2021, 104, . | 3.2 | 17 |
| 40 | Electronic and optical properties of monolayer tin diselenide: The effect of doping, magnetic field, and defects. <i>Physical Review B</i> , 2020, 101, . | 3.2 | 15 |
| 41 | Pressure and electric field dependence of quasicrystalline electronic states in twisted bilayer graphene. <i>Physical Review B</i> , 2020, 102, . | 3.2 | 14 |
| 42 | Structure-Composition-Property Relationships in Antiperovskite Nitrides: Guiding a Rational Alloy Design. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48516-48524. | 8.0 | 14 |
| 43 | Effect of Mechanical Strain on the Optical Properties of Nodal-Line Semimetal ZrSiS. <i>Advanced Electronic Materials</i> , 2020, 6, 1900860. | 5.1 | 12 |
| 44 | Lattice dynamics and topological surface phonon states in cuprous oxide Cu_2O . <i>Physical Review B</i> , 2021, 103, . | 3.2 | 12 |
| 45 | Interplay between in-plane and flexural phonons in electronic transport of two-dimensional semiconductors. <i>Physical Review B</i> , 2019, 100, . | 3.2 | 11 |
| 46 | General synthesis of 2D rare-earth oxide single crystals with tailorable facets. <i>National Science Review</i> , 2022, 9, nwab153. | 9.5 | 11 |
| 47 | Tunable half-metallicity and edge magnetism of H-saturated InSe nanoribbons. <i>Physical Review Materials</i> , 2018, 2, . | 2.4 | 11 |
| 48 | Effect of vertical strain and in-plane biaxial strain on type-II $\text{MoSi}_2\text{N}_4/\text{Cs}_3\text{Bi}_2\text{I}_9$ van der Waals heterostructure. <i>Journal of Applied Physics</i> , 2022, 131, . | 2.5 | 11 |
| 49 | Electronic structure of twisted double bilayer graphene. <i>Physical Review B</i> , 2020, 102, . | 3.2 | 10 |
| 50 | Plasmon spectrum of single-layer antimonene. <i>Physical Review B</i> , 2018, 98, . | 3.2 | 9 |
| 51 | Tunable electronic and magneto-optical properties of monolayer arsenene: From G_0W_0 approximation to large-scale tight-binding propagation simulations. <i>Physical Review B</i> , 2018, 98, . | 3.2 | 9 |
| 52 | Identification of twist-angle-dependent excitons in WS_2/WSe_2 heterobilayers. <i>National Science Review</i> , 2022, 9, . | 9.5 | 9 |
| 53 | Magic angle and plasmon mode engineering in twisted trilayer graphene with pressure. <i>Physical Review B</i> , 2021, 104, . | 3.2 | 9 |
| 54 | Electron-phonon interaction and zero-field charge carrier transport in the nodal-line semimetal ZrSiS. <i>Physical Review B</i> , 2020, 101, . | 3.2 | 8 |

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|----|--|-----|-----------|
| 55 | Revealing the Competition between Defect- π -Trapped Exciton and Band- π -Edge Exciton Photoluminescence in Monolayer Hexagonal WS ₂ . <i>Advanced Optical Materials</i> , 2022, 10, . | 7.3 | 8 |
| 56 | Polarization-Dependent Selection Rules and Optical Spectrum Atlas of Twisted Bilayer Graphene Quantum Dots. <i>Physical Review X</i> , 2022, 12, . | 8.9 | 8 |
| 57 | Time-dependent quantum Monte Carlo simulation of electron devices with two-dimensional Dirac materials: A genuine terahertz signature for graphene. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 7 |
| 58 | Flat-band plasmons in twisted bilayer transition metal dichalcogenides. <i>Physical Review B</i> , 2022, 105, . | 3.2 | 6 |
| 59 | Spatially resolved electronic structure of twisted graphene. <i>Physical Review B</i> , 2017, 95, . | 3.2 | 5 |
| 60 | Thermally-driven gold@poly(N-isopropylacrylamide) core-shell nanotransporters for molecular extraction. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 789-794. | 9.4 | 5 |
| 61 | Confined electrons in effective plane fractals. <i>Physical Review B</i> , 2020, 102, . | 3.2 | 5 |
| 62 | Interlayer hybridization in graphene quasicrystal and other bilayer graphene systems. <i>Physical Review B</i> , 2022, 105, . | 3.2 | 4 |
| 63 | Linearized spectral decimation in fractals. <i>Physical Review B</i> , 2020, 102, . | 3.2 | 3 |
| 64 | Hyperhoneycomb boron nitride with anisotropic mechanical, electronic, and optical properties. <i>Physical Review Materials</i> , 2017, 1, . | 2.4 | 3 |
| 65 | Electronic structure of monolayer antimonene nanoribbons under out-of-plane and transverse bias. <i>Physical Review Materials</i> , 2018, 2, . | 2.4 | 3 |
| 66 | π -insulator heterointerfaces: Creation of half-metallicity and anionogenic ferromagnetism via double exchange. <i>Physical Review B</i> , 2018, 97, . | 3.2 | 2 |
| 67 | Native Atomic Defects Manipulation for Enhancing the Electronic Transport Properties of Epitaxial SnTe Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56446-56455. | 8.0 | 2 |
| 68 | Electronic properties of germanene on pristine and defective MoS_2 : A first-principles study. <i>Physical Review B</i> , 2022, 105, . | 3.2 | 2 |
| 69 | Understanding of Layer-Dependent Stability and Rashba Spin Splitting of Two-Dimensional Organic-Inorganic Halide Perovskites A_3FABX_3 (B = Ge, Sn, and Pb; X = Cl, Br, and I). <i>Journal of Physical Chemistry C</i> , 2022, 126, 6448-6455. | 3.1 | 1 |
| 70 | Electronic properties and quantum transport in functionalized graphene Sierpinski-carpet fractals. <i>Physical Review B</i> , 2022, 105, . | 3.2 | 0 |
| 71 | Lattice relaxation and substrate effects on the electronic properties of graphene superlattice. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, . | 0.5 | 0 |