

Shengjun Yuan

List of Publications by Year in descending order

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71
papers

4,150
citations

201674

27
h-index

114465

63
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71
all docs

71
docs citations

71
times ranked

6361
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of twist-angle-dependent excitons in WS ₂ /WSe ₂ heterobilayers. National Science Review, 2022, 9, .	9.5	9
2	General synthesis of 2D rare-earth oxide single crystals with tailorable facets. National Science Review, 2022, 9, nwab153.	9.5	11
3	Revealing the Competition between Defect-Trapped Exciton and Band-Edge Exciton Photoluminescence in Monolayer Hexagonal WS ₂ . Advanced Optical Materials, 2022, 10, .	7.3	8
4	Electronic properties of germanene on pristine and defective MoS_2 : A first-principles study. Physical Review B, 2022, 105, .		
5	Interlayer hybridization in graphene quasicrystal and other bilayer graphene systems. Physical Review B, 2022, 105, .	3.2	4
6	Understanding of Layer-Dependent Stability and Rashba Spin Splitting of Two-Dimensional Organic-Inorganic Halide Perovskites FABX_3 (B = Ge, Sn, and Pb; X = Cl, Br, and I). Journal of Physical Chemistry C, 2022, 126, 6448-6455.	3.1	1
7	An atomistic approach for the structural and electronic properties of twisted bilayer graphene-boron nitride heterostructures. Npj Computational Materials, 2022, 8, .	8.7	22
8	Effect of vertical strain and in-plane biaxial strain on type-II MoSi ₂ N ₄ /Cs ₃ Bi ₂ I ₉ van der Waals heterostructure. Journal of Applied Physics, 2022, 131, .	2.5	11
9	Electronic properties and quantum transport in functionalized graphene Sierpinski-carpet fractals. Physical Review B, 2022, 105, .	3.2	0
10	Lattice relaxation and substrate effects on the electronic properties of graphene superlattice. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.5	0
11	Flat-band plasmons in twisted bilayer transition metal dichalcogenides. Physical Review B, 2022, 105, .	3.2	6
12	Polarization-Dependent Selection Rules and Optical Spectrum Atlas of Twisted Bilayer Graphene Quantum Dots. Physical Review X, 2022, 12, .	8.9	8
13	Thermally-driven gold@poly(N-isopropylacrylamide) core-shell nanotransporters for molecular extraction. Journal of Colloid and Interface Science, 2021, 584, 789-794.	9.4	5
14	Strain-induced semiconductor to metal transition in M_2A		

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19	2D GaN for Highly Reproducible Surface Enhanced Raman Scattering. <i>Small</i> , 2021, 17, e2103442.	10.0	23
20	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
21	Electronic properties and quasiparticle model of monolayer MoSiN_4 . <i>Physical Review B</i> , 2021, 104, .	3.2	17
22	Magic angle and plasmon mode engineering in twisted trilayer graphene with pressure. <i>Physical Review B</i> , 2021, 104, .	3.2	9
23	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
24	Effect of Mechanical Strain on the Optical Properties of Nodal-Line Semimetal ZrSiS. <i>Advanced Electronic Materials</i> , 2020, 6, 1900860.	5.1	12
25	Linearized spectral decimation in fractals. <i>Physical Review B</i> , 2020, 102, .	3.2	3
26	Electronic structure of $30\text{Mo}^{\sim}30$ twisted double bilayer graphene. <i>Physical Review B</i> , 2020, 102, .	3.2	10
27	Tuning band gaps in twisted bilayer MoS_2 . <i>Physical Review B</i> , 2020, 102, .	3.2	22
28	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
29	Hall conductivity of a Sierpiński carpet. <i>Physical Review B</i> , 2020, 101, .	3.2	36
30	Type-II Lateral Heterostructures of Monolayer Halide Double Perovskites for Optoelectronic Applications. <i>ACS Energy Letters</i> , 2020, 5, 2275-2282.	17.4	20
31	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
32	Limits on gas impermeability of graphene. <i>Nature</i> , 2020, 579, 229-232.	27.8	220
33	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
34	Electronic correlations in nodal-line semimetals. <i>Nature Physics</i> , 2020, 16, 636-641.	16.7	86
35	Pressure and electric field dependence of quasicrystalline electronic states in $30\text{Mo}^{\sim}30$ twisted bilayer graphene. <i>Physical Review B</i> , 2020, 102, .	3.2	11
36	Large-area, periodic, and tunable intrinsic pseudo-magnetic fields in low-angle twisted bilayer graphene. <i>Nature Communications</i> , 2020, 11, 371.	12.8	66

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37	Confined electrons in effective plane fractals. <i>Physical Review B</i> , 2020, 102, .	3.2	5
38	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
39	Interplay between in-plane and flexural phonons in electronic transport of two-dimensional semiconductors. <i>Physical Review B</i> , 2019, 100, .	3.2	11
40	Growth and Raman Scattering Investigation of a New 2D MOX Material: $YbOCl$. <i>Advanced Functional Materials</i> , 2019, 29, 1903017.	14.9	21
41	Tuning Two-Dimensional Hyperbolic Plasmons in Black Phosphorus. <i>Physical Review Applied</i> , 2019, 12, .	3.8	59
42	Power-law energy level spacing distributions in fractals. <i>Physical Review B</i> , 2019, 99, .	3.2	18
43	Strain-tunable magnetic and electronic properties of monolayer CrI_3 . <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7750-7755.	2.8	143
44	Effects of out-of-plane strains and electric fields on the electronic structures of graphene/MTe ($M = Tl, Bi, Sb, As, Sn, Pb, Te, Se, S$). <i>Physical Review B</i> , 2019, 99, 041407.	9.6	34
45	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
46	Massively parallel quantum computer simulator, eleven years later. <i>Computer Physics Communications</i> , 2019, 237, 47-61.	7.5	65
47	Dodecagonal bilayer graphene quasicrystal and its approximants. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	53
48	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
49	$2p$ -insulator heterointerfaces: Creation of half-metallicity and anionogenic ferromagnetism via double exchange. <i>Physical Review B</i> , 2018, 97, .	3.2	2
50	Anisotropic ultraviolet-plasmon dispersion in black phosphorus. <i>Nanoscale</i> , 2018, 10, 21918-21927.	5.6	18
51	Plasmon spectrum of single-layer antimonene. <i>Physical Review B</i> , 2018, 98, .	3.2	9
52	Tunable electronic and magneto-optical properties of monolayer arsenene: From G - W_0 approximation to large-scale tight-binding propagation simulations. <i>Physical Review B</i> , 2018, 98, .	3.2	9
53	Plasmon confinement in fractal quantum systems. <i>Physical Review B</i> , 2018, 97, .	3.2	33
54	Electronic and mechanical properties of few-layer borophene. <i>Physical Review B</i> , 2018, 98, .	3.2	83

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55	Tunable half-metallicity and edge magnetism of H-saturated InSe nanoribbons. <i>Physical Review Materials</i> , 2018, 2, .	2.4	11
56	Electronic structure of monolayer antimonene nanoribbons under out-of-plane and transverse bias. <i>Physical Review Materials</i> , 2018, 2, .	2.4	3
57	Spatially resolved electronic structure of twisted graphene. <i>Physical Review B</i> , 2017, 95, .	3.2	5
58	Optical conductivity of a quantum electron gas in a Sierpinski carpet. <i>Physical Review B</i> , 2017, 96, .	3.2	29
59	Hyperhoneycomb boron nitride with anisotropic mechanical, electronic, and optical properties. <i>Physical Review Materials</i> , 2017, 1, .	2.4	3
60	Quantum transport in Sierpinski carpets. <i>Physical Review B</i> , 2016, 93, .	3.2	68
61	Quantum Hall effect and semiconductor-to-semimetal transition in biased black phosphorus. <i>Physical Review B</i> , 2016, 93, .	3.2	69
62	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
63	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
64	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
65	Screening and plasmons in pure and disordered single- and bilayer black phosphorus. <i>Physical Review B</i> , 2015, 92, .	3.2	41
66	Electronic Structures and Optical Properties of Partially and Fully Fluorinated Graphene. <i>Physical Review Letters</i> , 2015, 114, 047403.	7.8	58
67	Optical transmittance of multilayer graphene. <i>Europhysics Letters</i> , 2014, 108, 17007.	2.0	142
68	Electronic properties of disordered graphene antidot lattices. <i>Physical Review B</i> , 2013, 87, .	3.2	34
69	Excitation spectrum and high-energy plasmons in single-layer and multilayer graphene. <i>Physical Review B</i> , 2011, 84, .	3.2	105
70	Fluorographene: A Two-Dimensional Counterpart of Teflon. <i>Small</i> , 2010, 6, 2877-2884.	10.0	1,146
71	Modeling electronic structure and transport properties of graphene with resonant scattering centers. <i>Physical Review B</i> , 2010, 82, .	3.2	218