Guodong Yu

List of Publications by Year in descending order

26 papers	675 citations	623734 14 h-index	552781 26 g-index
26 all docs	26 docs citations	26 times ranked	1092 citing authors

#	Article	IF	Citations
1	Interlayer hybridization in graphene quasicrystal and other bilayer graphene systems. Physical Review B, 2022, 105, .	3.2	4
2	Polarization-Dependent Selection Rules and Optical Spectrum Atlas of Twisted Bilayer Graphene Quantum Dots. Physical Review X, 2022, 12, .	8.9	8
3	Discovery of multivalley Fermi surface responsible for the high thermoelectric performance in Yb ₁₄ MnSb ₁₁ and Yb ₁₄ MgSb ₁₁. Science Advances, 2021, 7, .	10.3	34
4	Structureâ€“Compositionâ€“Property Relationships in Antiperovskite Nitrides: Guiding a Rational Alloy Design. ACS Applied Materials & Interfaces, 2021, 13, 48516-48524.	8.0	14
5	Electronic properties and quasiparticle model of monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>MoSi</mml:mi></mml:mrow><mml:mn>2</ mathvariant="normal">N</mml:mi></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2021, 104, .	3.2	17
6	Electronic structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mn>30</mml:mn><mml:mo>â˜</mml:mo></mml:msup></m twisted double bilayer graphene. Physical Review B, 2020, 102, .	3.2	10
7	Tunability of multiple ultraflat bands and effect of spin-orbit coupling in twisted bilayer transition metal dichalcogenides. Physical Review B, 2020, 102, .	3.2	31
8	Pressure and electric field dependence of quasicrystalline electronic states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mn>30</mml:mn><mml:mo>â˜</mml:mo></mml:msup></m twisted bilayer graphene. Physical Review B, 2020, 102, .	3.2	14
9	Interplay between in-plane and flexural phonons in electronic transport of two-dimensional semiconductors. Physical Review B, 2019, 100, .	3.2	11
10	Origins of ultralow thermal conductivity in 1-2-1-4 quaternary selenides. Journal of Materials Chemistry A, 2019, 7, 2589-2596.	10.3	28
11	Dodecagonal bilayer graphene quasicrystal and its approximants. Npj Computational Materials, 2019, 5, .	8.7	53
12	Computationally driven high-throughput identification of CaTe and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Li</mml:mi><mml:mn>3</mml:mn></mml:m as promising candidates for high-mobility <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi></mml:math> -type transparent conducting materials. Physical Review Materials, 2019, 3, .	2.4	16
13	Resonant Bonding, Multiband Thermoelectric Transport, and Native Defects in n-Type BaBiTe3â€“xSex (x =) Tj ETQq1 1 0.784314 rgB	6.7	13
14	PyCDT: A Python toolkit for modeling point defects in semiconductors and insulators. Computer Physics Communications, 2018, 226, 165-179.	7.5	142
15	Electronic and mechanical properties of few-layer borophene. Physical Review B, 2018, 98, .	3.2	83
16	Tunable half-metallicity and edge magnetism of H-saturated InSe nanoribbons. Physical Review Materials, 2018, 2, .	2.4	11
17	A computational assessment of the electronic, thermoelectric, and defect properties of bournonite (CuPbSbS₃) and related substitutions. Physical Chemistry Chemical Physics, 2017, 19, 6743-6756.	2.8	47
18	Two-dimensional Kagome phosphorus and its edge magnetism: a density functional theory study. Journal of Physics Condensed Matter, 2015, 27, 255006.	1.8	16

#	Article	IF	Citations
19	Surface magnetism of the carbon foam: An ab-initio theoretical study. Applied Physics Letters, 2014, 105, 061601.	3.3	7
20	First-principles study of 3d transition metal atom adsorption onto graphene: the role of the extended line defect. Journal of Materials Chemistry C, 2014, 2, 9767-9774.	5.5	18
21	Structural, electronic and magnetic properties of transition-metal embedded zigzag-edged graphene nanoribbons. Journal Physics D: Applied Physics, 2013, 46, 375303.	2.8	9
22	Electronic properties of four typical zigzag-edged graphyne nanoribbons. Journal of Physics Condensed Matter, 2013, 25, 285502.	1.8	23
23	A valley-filtering switch based on the Stone-Wales defect array in carbon nanotube. Europhysics Letters, 2013, 103, 47008.	2.0	1
24	Line-defectâ€“induced Fano interference in an armchair graphene nanoribbon. Europhysics Letters, 2013, 103, 18003.	2.0	7
25	RKKY interaction in AB-stacked multilayer graphene. Journal of Physics Condensed Matter, 2012, 24, 206003.	1.8	17
26	A simple tight-binding model for typical graphyne structures. New Journal of Physics, 2012, 14, 113007.	2.9	41