

Guodong Yu

List of Publications by Year in descending order

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26
papers

675
citations

623734

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h-index

552781

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26
all docs

26
docs citations

26
times ranked

1092
citing authors

#	ARTICLE	IF	CITATIONS
1	PyCDT: A Python toolkit for modeling point defects in semiconductors and insulators. Computer Physics Communications, 2018, 226, 165-179.	7.5	142
2	Electronic and mechanical properties of few-layer borophene. Physical Review B, 2018, 98, .	3.2	83
3	Dodecagonal bilayer graphene quasicrystal and its approximants. Npj Computational Materials, 2019, 5, .	8.7	53
4	A computational assessment of the electronic, thermoelectric, and defect properties of bournonite (CuPbSbS ₃) and related substitutions. Physical Chemistry Chemical Physics, 2017, 19, 6743-6756.	2.8	47
5	A simple tight-binding model for typical graphyne structures. New Journal of Physics, 2012, 14, 113007.	2.9	41
6	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
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	Origins of ultralow thermal conductivity in 1-2-1-4 quaternary selenides. Journal of Materials Chemistry A, 2019, 7, 2589-2596.	10.3	28
9	Electronic properties of four typical zigzag-edged graphyne nanoribbons. Journal of Physics Condensed Matter, 2013, 25, 285502.	1.8	23
10	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
11	RKKY interaction in AB-stacked multilayer graphene. Journal of Physics Condensed Matter, 2012, 24, 206003.	1.8	17
12	Electronic properties and quasiparticle model of monolayer MoSi_2N_4 . Physical Review B, 2021, 104, .	3.2	17
13	Two-dimensional Kagome phosphorus and its edge magnetism: a density functional theory study. Journal of Physics Condensed Matter, 2015, 27, 255006.	1.8	16
14	Computationally driven high-throughput identification of CaTe and Li_3P as promising candidates for high-mobility transparent conducting materials. Physical Review Materials, 2019, 3, .	2.4	16
15	Pressure and electric field dependence of quasicrystalline electronic states in $\text{Yb}_{14}\text{MnSb}_{11}$ twisted bilayer graphene. Physical Review B, 2020, 102, .	3.2	13
16	Structure-Composition-Property Relationships in Antiperovskite Nitrides: Guiding a Rational Alloy Design. ACS Applied Materials & Interfaces, 2021, 13, 48516-48524.	8.0	14
17	Resonant Bonding, Multiband Thermoelectric Transport, and Native Defects in n-Type BaBiTe_3 . Physical Review Applied, 2021, 15, 044002.	6.7	13
18	Interplay between in-plane and flexural phonons in electronic transport of two-dimensional semiconductors. Physical Review B, 2019, 100, .	3.2	11

#	ARTICLE	IF	CITATIONS
19	Tunable half-metallicity and edge magnetism of H-saturated InSe nanoribbons. Physical Review Materials, 2018, 2, .	2.4	11
20	Electronic structure of $30\text{-}\tilde{\text{m}}\text{m}^2$ twisted double bilayer graphene. Physical Review B, 2020, 102, .	3.2	10
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	Polarization-Dependent Selection Rules and Optical Spectrum Atlas of Twisted Bilayer Graphene Quantum Dots. Physical Review X, 2022, 12, .	8.9	8
23	Line-defect-induced Fano interference in an armchair graphene nanoribbon. Europhysics Letters, 2013, 103, 18003.	2.0	7
24	Surface magnetism of the carbon foam: An ab-initio theoretical study. Applied Physics Letters, 2014, 105, 061601.	3.3	7
25	Interlayer hybridization in graphene quasicrystal and other bilayer graphene systems. Physical Review B, 2022, 105, .	3.2	4
26	A valley-filtering switch based on the Stone-Wales defect array in carbon nanotube. Europhysics Letters, 2013, 103, 47008.	2.0	1