

Hongzhe Pan

List of Publications by Year in descending order

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papers

881
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567281

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1153
citing authors

#	ARTICLE	IF	CITATIONS
1	Increasing Solar Absorption of Atomically Thin 2D Carbon Nitride Sheets for Enhanced Visible-Light Photocatalysis. <i>Advanced Materials</i> , 2019, 31, e1807540.	21.0	166
2	First-principles studies of HF molecule adsorption on intrinsic graphene and Al-doped graphene. <i>Solid State Communications</i> , 2010, 150, 1906-1910.	1.9	92
3	Magnetism of graphene quantum dots. <i>Npj Quantum Materials</i> , 2017, 2, .	5.2	53
4	Atomic chemisorption on graphene with Stone-Wales defects. <i>Carbon</i> , 2011, 49, 3356-3361.	10.3	51
5	Constructing van der Waals Heterogeneous Photocatalysts Based on Atomically Thin Carbon Nitride Sheets and Graphdiyne for Highly Efficient Photocatalytic Conversion of CO ₂ into CO. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40629-40637.	8.0	51
6	Li-decorated porous hydrogen substituted graphyne: A new member of promising hydrogen storage medium. <i>Applied Surface Science</i> , 2021, 535, 147683.	6.1	36
7	Comparative investigation of the mechanical, electrical and thermal transport properties in graphene-like C3B and C3N. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	32
8	Gas Adsorption Effects on the Electronic Properties of Two-Dimensional Nickel Bis(dithiolene) Complex. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3846-3852.	3.1	31
9	Ultrahigh hydrogen storage capacity of holey graphyne. <i>Nanotechnology</i> , 2021, 32, 215402.	2.6	28
10	B ₄ CN ₃ and B ₃ CN ₄ monolayers as the promising candidates for metal-free spintronic materials. <i>New Journal of Physics</i> , 2016, 18, 093021.	2.9	27
11	Realization of Strong Room-Temperature Ferromagnetism in Atomically Thin 2D Carbon Nitride Sheets by Thermal Annealing. <i>ACS Nano</i> , 2021, 15, 12069-12076.	14.6	27
12	Interstitial boron doping effects on the electronic and magnetic properties of graphitic carbon nitride materials. <i>Solid State Communications</i> , 2015, 203, 35-40.	1.9	26
13	Identifying the stacking style, intrinsic bandgap and magnetism of pristine graphdiyne. <i>Carbon</i> , 2019, 143, 8-13.	10.3	22
14	Half-metallicity in a honeycomb-kagome-lattice Mg ₃ C ₂ monolayer with carrier doping. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14166-14173.	2.8	19
15	Graphitic-nitrogen-enhanced ferromagnetic couplings in nitrogen-doped graphene. <i>Physical Review B</i> , 2020, 102, .	3.2	19
16	The Limit of Noether Conserved Charges is the Number of Primary First-Class Constraints in a Constrained System. <i>Communications in Theoretical Physics</i> , 2012, 58, 539-543.	2.5	17
17	Realization of ultrathin red 2D carbon nitride sheets to significantly boost the photoelectrochemical water splitting performance of TiO ₂ photoanodes. <i>Chemical Engineering Journal</i> , 2020, 396, 125267.	12.7	16
18	$C_4N_3H_3$ monolayer: A two-dimensional organic Dirac material with high Fermi velocity. <i>Physical Review B</i> , 2017, 96, .	3.2	15

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19	Ultrasml and Monolayered Tungsten Dichalcogenide Quantum Dots with Giant Spin Valley Coupling and Purple Luminescence. ACS Omega, 2018, 3, 12188-12194.	3.5	15
20	First-principles study of hydrogen adsorption on titanium-decorated single-layer and bilayer graphenes. Chinese Physics B, 2013, 22, 067101.	1.4	14
21	Unusual mechanical and electronic behaviors of bulk layered hydrogen substituted graphdiyne under biaxial strain. Applied Surface Science, 2020, 513, 145694.	6.1	13
22	Promoted photocarriers separation by straining in 2D/2D van der Waals heterostructures for high-efficiency visible-light photocatalysis. Materials Today Physics, 2022, 22, 100600.	6.0	13
23	First-principles prediction of a new planar hydrocarbon material: half-hydrogenated 14,14,14-graphyne. Physical Chemistry Chemical Physics, 2016, 18, 23954-23960.	2.8	11
24	Magnetic properties of graphene. , 2020, , 137-161.		11
25	Electronic and magnetic properties of copper-family-element atom adsorbed graphene nanoribbons with zigzag edges. Solid State Communications, 2011, 151, 1440-1443.	1.9	9
26	Tunable electronic structures and magnetic properties of zigzag C ₃ N nanoribbons. Journal Physics D: Applied Physics, 2018, 51, 345301.	2.8	9
27	Adsorption-induced magnetism properties in graphene. Journal of Magnetism and Magnetic Materials, 2011, 323, 547-551.	2.3	8
28	The influence of Stone-Wales defects on magnetic properties in graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 43, 593-597.	2.7	7
29	Tensile strain effects on C ₄ N ₃ H monolayer: Large Poisson's ratio and robust Dirac cone. Applied Physics Letters, 2019, 114, .	3.3	7
30	Metal-free spin and spin-gapless semiconducting heterobilayers: monolayer boron carbonitrides on hexagonal boron nitride. Physical Chemistry Chemical Physics, 2017, 19, 14801-14810.	2.8	6
31	The effect of thermal annealing on the magnetic properties of graphene oxide quantum dots. Applied Surface Science, 2020, 501, 144234.	6.1	5
32	Electron tunneling of graphene modulated by realistic magnetic barriers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1906-1911.	2.1	4
33	Tuning electronic properties in the C ₃ N/C ₃ B lateral heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 126, 114497.	2.7	4
34	Tuning length scale effect of hardness in Ag/Nb/Cu/Nb multilayers by Nb amorphous interlayer. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 835, 142651.	5.6	4
35	Electronic properties of 1±-graphyne on hexagonal boron nitride and 1±-BNyne substrates. RSC Advances, 2019, 9, 35297-35303.	3.6	3
36	Comprehensive mechanism of ferromagnetism enhancement in nitrogen-doped graphene. New Journal of Physics, 2021, 23, 103003.	2.9	3

#	ARTICLE	IF	CITATIONS
37	FIRST-PRINCIPLES CALCULATION OF THE ELECTRONIC STRUCTURE AND MAGNETISM AT THE GRAPHENE/Ni(111) INTERFACE. <i>International Journal of Modern Physics B</i> , 2011, 25, 2791-2800.	2.0	2
38	Stable group-IIb elements α -Zn, Cd and Hg at terapascal pressures. <i>Europhysics Letters</i> , 2019, 126, 36001.	2.0	2
39	Tuning electronic structure and optical properties of C3N by B doping. <i>Physica B: Condensed Matter</i> , 2020, 577, 411807.	2.7	2
40	Fractional charges and fractional spins for composite fermions in quantum electrodynamics. <i>Chinese Physics B</i> , 2012, 21, 070501.	1.4	1
41	Total Hamiltonian and Extended Hamiltonian for Constrained Hamilton Systems. <i>International Journal of Theoretical Physics</i> , 2008, 47, 2319-2325.	1.2	0