Haifeng Wang

List of Publications by Year
in descending order

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27 papers	1,778 citations	430874 18 h-index	477307 29 g-index
29 all docs	29 docs citations	29 times ranked	3672 citing authors

#	Article	IF	Citations
1	2D Monolayer MoS₂â€“Carbon Interoverlapped Superstructure: Engineering Ideal Atomic Interface for Lithium Ion Storage. Advanced Materials, 2015, 27, 3687-3695.	21.0	504
2	Tunable Ambipolar Polarization-Sensitive Photodetectors Based on High-Anisotropy ReSe₂ Nanosheets. ACS Nano, 2016, 10, 8067-8077.	14.6	276
3	Strain effects on borophene: ideal strength, negative Possionâ€™s ratio and phonon instability. New Journal of Physics, 2016, 18, 073016.	2.9	174
4	The In-Plane Anisotropy of WTe2 Investigated by Angle-Dependent and Polarized Raman Spectroscopy. Scientific Reports, 2016, 6, 29254.	3.3	102
5	In-Plane Anisotropies of Polarized Raman Response and Electrical Conductivity in Layered Tin Selenide. ACS Applied Materials & Interfaces, 2017, 9, 12601-12607.	8.0	101
6	Palladium diselenide as a direct absorption saturable absorber for ultrafast mode-locked operations: from all anomalous dispersion to all normal dispersion. Nanophotonics, 2020, 9, 4295-4306.	6.0	100
7	First-principles study of intrinsic phononic thermal transport in monolayer C3N. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 99, 194-201.	2.7	58
8	Anisotropic phonon transport and lattice thermal conductivities in tin dichalcogenides SnS₂ and SnSe₂. RSC Advances, 2017, 7, 8098-8105.	3.6	50
9	Anomalous in-plane anisotropic Raman response of monoclinic semimetal 1â€‰TÂ´-MoTe 2. Scientific Reports, 2017, 7, 1758.	3.3	47
10	Improved Transport Properties and Novel Li Diffusion Dynamics in van der Waals C₂N/Graphene Heterostructure as Anode Materials for Lithium-Ion Batteries: A First-Principles Investigation. Journal of Physical Chemistry C, 2019, 123, 3353-3367.	3.1	43
11	Anisotropic intrinsic lattice thermal conductivity of borophane from first-principles calculations. Physical Chemistry Chemical Physics, 2017, 19, 2843-2849.	2.8	40
12	Anisotropic carrier mobility in single- and bi-layer C 3 N sheets. Physica B: Condensed Matter, 2018, 537, 314-319.	2.7	38
13	Cleavage tendency of anisotropic two-dimensional materials:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Re</mml:mi><mml:msub><mml:mi>X</mml:mi><mml:mi> and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml: Physical Review B, 2017, 96, .	3.2	36
14	Li-decorated porous hydrogen substituted graphyne: A new member of promising hydrogen storage medium. Applied Surface Science, 2021, 535, 147683.	6.1	36
15	Comparative investigation of the mechanical, electrical and thermal transport properties in graphene-like C3B and C3N. Journal of Applied Physics, 2019, 126, .	2.5	32
16	The polarization-dependent anisotropic Raman response of few-layer and bulk WTe₂under different excitation wavelengths. RSC Advances, 2016, 6, 103830-103837.	3.6	28
17	Li-Decorated Î²12-Borophene as Potential Candidates for Hydrogen Storage: A First-Principle Study. Materials, 2017, 10, 1399.	2.9	21
18	First-principles study of lattice thermal conductivity in ZrTe5 and HfTe5. Journal of Applied Physics, 2018, 123, .	2.5	19

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19	Competition between the catalyzed birth and death in the exchange-driven growth. Physical Review E, 2007, 75, 046108.	2.1	14
20	Unusual mechanical and electronic behaviors of bulk layered hydrogen substituted graphdiyne under biaxial strain. Applied Surface Science, 2020, 513, 145694.	6.1	13
21	Tunable electronic structures and magnetic properties of zigzag C₃N nanoribbons. Journal Physics D: Applied Physics, 2018, 51, 345301.	2.8	9
22	Unique mechanical responses of layered phosphorus-like group-IV monochalcogenides. Journal of Applied Physics, 2019, 125, 082519.	2.5	8
23	Li-decorated carbon eneâ€“yne as a potential high-capacity hydrogen storage medium. Physical Chemistry Chemical Physics, 2018, 20, 24011-24018.	2.8	7
24	Electronic structures and charge carrier mobilities of boron-graphdiyne sheet and nanoribbons. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114354.	2.7	6
25	Tuning electronic properties in the C3N/C3B lateral heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 126, 114497.	2.7	4
26	Tuning electronic structure and optical properties of C3N by B doping. Physica B: Condensed Matter, 2020, 577, 411807.	2.7	2
27	Theoretical Study on the Reaction Mechanism of Nitrate Radical with HNO and HONO. Acta Chimica Sinica, 2012, 70, 2543.	1.4	2