Nannan Han

List of Publications by Year
in descending order

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26	1,539	471509 17	552781 26
papers	citations	h-index	g-index

26	26	26	2775
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rise of silicene: A competitive 2D material. Progress in Materials Science, 2016, 83, 24-151.	32.8	713
2	Atomistic insight into the oxidation of monolayer transition metal dichalcogenides: from structures to electronic properties. RSC Advances, 2015, 5, 17572-17581.	3.6	183
3	Lateral heterostructures of monolayer group-IV monochalcogenides: band alignment and electronic properties. Journal of Materials Chemistry C, 2017, 5, 3788-3795.	5.5	94
4	Single-Atom Tungsten-Doped CoP Nanoarrays as a High-Efficiency pH-Universal Catalyst for Hydrogen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 14825-14832.	6.7	73
5	2D lateral heterostructures of group-III monochalcogenide: Potential photovoltaic applications. Applied Physics Letters, 2018, 112, .	3.3	66
6	Initial Growth Mechanism of Blue Phosphorene on Au(111) Surface. Journal of Physical Chemistry C, 2017, 121, 17893-17899.	3.1	48
7	Unique Transformation from Graphene to Carbide on Re(0001) Induced by Strong Carbonâ€“Metal Interaction. Journal of the American Chemical Society, 2017, 139, 17574-17581.	13.7	38
8	Growth control, interface behavior, band alignment, and potential device applications of 2D lateral heterostructures. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2018, 8, e1353.	14.6	37
9	Tunable Linearity of Highâ€Performance Vertical Dualâ€Gate vdW Phototransistors. Advanced Materials, 2021, 33, e2008080.	21.0	36
10	Band gap opening in bilayer silicene by alkali metal intercalation. Journal of Physics Condensed Matter, 2014, 26, 475303.	1.8	30
11	Machine Learning Driven Synthesis of Few-Layered WTe₂ with Geometrical Control. Journal of the American Chemical Society, 2021, 143, 18103-18113.	13.7	30
12	Strong Adlayerâ€“Substrate Interactions â€œBreakâ€•the Patching Growth of h-BN onto Graphene on Re(0001). ACS Nano, 2017, 11, 1807-1815.	14.6	27
13	Possible Formation of Graphyne on Transition Metal Surfaces: A Competition with Graphene from the Chemical Potential Point of View. Journal of Physical Chemistry C, 2016, 120, 14699-14705.	3.1	24
14	Schottky barrier at graphene/metal oxide interfaces: insight from first-principles calculations. Scientific Reports, 2017, 7, 41771.	3.3	23
15	A Ternary Alloy Substrate to Synthesize Monolayer Graphene with Liquid Carbon Precursor. ACS Nano, 2017, 11, 1371-1379.	14.6	21
16	Atomistic understanding of the lateral growth of graphene from the edge of an h-BN domain: towards a sharp in-plane junction. Nanoscale, 2017, 9, 3585-3592.	5.6	19
17	Novel Magnetic Monolayers of Transition Metal Silicide. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1755-1758.	1.8	17
18	Temperature and coverage effects on the stability of epitaxial silicene on Ag(111) surfaces. Applied Surface Science, 2017, 409, 97-101.	6.1	13

#	Article	IF	Citations
19	Electrically Tunable Second Harmonic Generation in Atomically Thin ReS₂. ACS Nano, 2022, 16, 6404-6413.	14.6	13
20	Role of Buffer Layer and Building Unit in the Monolayer CrI₃ Growth: A First-Principles Perspective. Journal of Physical Chemistry Letters, 2020, 11, 9453-9460.	4.6	10
21	Tuning the structures of two-dimensional cuprous oxide confined on Au(111). Nano Research, 2018, 11, 5957-5967.	10.4	8
22	Growth mechanism and modification of electronic and magnetic properties of silicene. Chinese Physics B, 2015, 24, 087303.	1.4	5
23	Epitaxial growth of large-grain-size ferromagnetic monolayer CrI₃ for valley Zeeman splitting enhancement. Nanoscale, 2021, 13, 2955-2962.	5.6	5
24	Modulation of electronic and magnetic properties of monolayer chromium trihalides by alloy and strain engineering. Journal of Applied Physics, 2021, 129, 155104.	2.5	3
25	Site-selective growth of two-dimensional materials: strategies and applications. Nanoscale, 2022, 14, 9946-9962.	5.6	2
26	Remote Passivation in Two-Dimensional Materials: The Case of the Monolayerâ€“Bilayer Lateral Junction of MoSe2. Journal of Physical Chemistry Letters, 2021, 12, 8046-8052.	4.6	1