

Cong Wang

List of Publications by Year in descending order

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papers

9,876
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147566

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docs citations

63
times ranked

12244
citing authors

#	ARTICLE	IF	CITATIONS
1	Mass transport induced structural evolution and healing of sulfur vacancy lines and Mo chain in monolayer MoS ₂ . Rare Metals, 2022, 41, 333-341.	3.6	8
2	Spin mapping of intralayer antiferromagnetism and field-induced spin reorientation in monolayer CrTe ₂ . Nature Communications, 2022, 13, 257.	5.8	62
3	Magnetic Phase Transitions and Magnetoelastic Coupling in a Two-Dimensional Stripy Antiferromagnet. Nano Letters, 2022, 22, 1233-1241.	4.5	21
4	Alloy-buffer-controlled van der Waals epitaxial growth of aligned tellurene. Nano Research, 2022, 15, 5712-5718.	5.8	4
5	Layer-Dependent Interlayer Antiferromagnetic Spin Reorientation in Air-Stable Semiconductor CrSBr. ACS Nano, 2022, 16, 11876-11883.	7.3	22
6	Chirality locking charge density waves in a chiral crystal. Nature Communications, 2022, 13, .	5.8	12
7	Ferroelectricity in untwisted heterobilayers of transition metal dichalcogenides. Science, 2022, 376, 973-978.	6.0	105
8	Two-Dimensional Tellurene Transistors with Low Contact Resistance and Self-Aligned Catalytic Thinning Process. Advanced Electronic Materials, 2022, 8, .	2.6	5
9	Topological phase change transistors based on tellurium Weyl semiconductor. Science Advances, 2022, 8, .	4.7	17
10	Shallowing interfacial carrier trap in transition metal dichalcogenide heterostructures with interlayer hybridization. Nano Research, 2021, 14, 1390-1396.	5.8	9
11	Van der Waals epitaxial growth of air-stable CrSe ₂ nanosheets with thickness-tunable magnetic order. Nature Materials, 2021, 20, 818-825.	13.3	206
12	Raman spectra evidence for the covalent-like quasi-bonding between exfoliated MoS ₂ and Au films. Science China Information Sciences, 2021, 64, 1.	2.7	10
13	Epitaxial fabrication of AgTe monolayer on Ag(111) and the sequential growth of Te film. Frontiers of Physics, 2021, 16, 1.	2.4	0
14	Quasiperiodic modulation of electronic states at edges of tellurium nanoribbons on graphene . Physical Review B, 2021, 103, .	6.1	6
15	Giant anisotropic photonics in the 1D van der Waals semiconductor fibrous red phosphorus. Nature Communications, 2021, 12, 4822.	5.8	32
16	Nonvolatile electric field control of magnetism in bilayer CrI_3 on monolayer CrI_3 . Physical Review B, 2021, 104, .	1.1	24
17	Light helicity detector based on 2D magnetic semiconductor CrI ₃ . Nature Communications, 2021, 12, 6874.	5.8	25
18	Heterostructures of tellurium on NbSe ₂ from sub-monolayer to few-layer films. Nanoscale, 2020, 12, 1994-2001.	2.8	7

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19	A Gd@C82 single-molecule electret. <i>Nature Nanotechnology</i> , 2020, 15, 1019-1024.	15.6	70
20	Emerging Group-VI Elemental 2D Materials: Preparations, Properties, and Device Applications. <i>Small</i> , 2020, 16, e2003319.	5.2	38
21	Strain-Sensitive Magnetization Reversal of a van der Waals Magnet. <i>Advanced Materials</i> , 2020, 32, e2004533.	11.1	119
22	Universal mechanical exfoliation of large-area 2D crystals. <i>Nature Communications</i> , 2020, 11, 2453.	5.8	394
23	Selective linear etching of monolayer black phosphorus using electron beams*. <i>Chinese Physics B</i> , 2020, 29, 086801.	0.7	2
24	Quantum spin Hall effect in monolayer and bilayer TaIrTe_4 . <i>Physical Review B</i> , 2020, 102, .	1.1	16
25	Investigating molecular orbitals with submolecular precision on pristine sites and single atomic vacancies of monolayer h-BN. <i>Nano Research</i> , 2020, 13, 2233-2238.	5.8	3
26	Quasi one-dimensional van der Waals gold selenide with strong interchain interaction and giant magnetoresistance. <i>Science Bulletin</i> , 2020, 65, 1451-1459.	4.3	7
27	Two ultra-stable novel allotropes of tellurium few-layers*. <i>Chinese Physics B</i> , 2020, 29, 097103.	0.7	5
28	Bethe-Slater-curve-like behavior and interlayer spin-exchange coupling mechanisms in two-dimensional magnetic bilayers. <i>Physical Review B</i> , 2020, 102, .	1.1	46
29	Advances in photonics of recently developed Xenes. <i>Nanophotonics</i> , 2020, 9, 1621-1649.	2.9	11
30	Realizing nearly-free-electron like conduction band in a molecular film through mediating intermolecular van der Waals interactions. <i>Nature Communications</i> , 2019, 10, 3374.	5.8	18
31	Epitaxial Synthesis of Monolayer PtSe_2 Single Crystal on MoSe_2 with Strong Interlayer Coupling. <i>ACS Nano</i> , 2019, 13, 10929-10938.	7.3	72
32	Engineering Point-Defect States in Monolayer WSe_2 . <i>ACS Nano</i> , 2019, 13, 1595-1602.	7.3	35
33	Ionic-Liquid-Gating Induced Protonation and Superconductivity in $\text{FeSe}_{0.93}\text{S}_{0.07}$, ZrNCl , 1T-TaS_2 and Bi_2Se_3 . <i>Chinese Physics Letters</i> , 2019, 36, 077401.	1.3	20
34	Surface stabilized cubic phase of CsPbI_3 and CsPbBr_3 at room temperature*. <i>Chinese Physics B</i> , 2019, 28, 056402.	0.7	16
35	Domain wall pinning and hard magnetic phase in Co-doped bulk single crystalline $\text{Fe}_{1-x}\text{Co}_x$. <i>Physical Review B</i> , 2019, 99, .		
36	UV-SWIR broad range photodetectors made from few-layer In_2Se_3 nanosheets. <i>Nanoscale</i> , 2019, 11, 12817-12828.	2.8	47

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37	Raman detection of hidden phonons assisted by atomic point defects in a two-dimensional semimetal. Npj 2D Materials and Applications, 2019, 3, .	3.9	10
38	Stacking tunable interlayer magnetism in bilayer CrI_3 . Physical Review B, 2019, 99, .	11.1	217
39	A family of high-temperature ferromagnetic monolayers with locked spin-dichroism-mobility anisotropy: MnNX and CrCX ($X = \text{Cl, Br, I; C} = \text{S, Se, Te}$). Science Bulletin, 2019, 64, 293-300.	4.3	96
40	Illuminating interlayer interactions. Nature Materials, 2018, 17, 211-213.	13.3	17
41	Few-layer Tellurium: one-dimensional-like layered elementary semiconductor with striking physical properties. Science Bulletin, 2018, 63, 159-168.	4.3	207
42	Two-dimensional ferroelectricity and switchable spin-textures in ultra-thin elemental Te multilayers. Materials Horizons, 2018, 5, 521-528.	6.4	96
43	Charge-governed phase manipulation of few-layer tellurium. Nanoscale, 2018, 10, 22263-22269.	2.8	28
44	Layer and doping tunable ferromagnetic order in two-dimensional CrS_2 layers. Physical Review B, 2018, 97, .	1.1	96
45	Giant Anisotropic Raman Response of Encapsulated Ultrathin Black Phosphorus by Uniaxial Strain. Advanced Functional Materials, 2017, 27, 1600986.	7.8	100
46	Geometric stability and electronic structure of infinite and finite phosphorus atomic chains. Chinese Physics B, 2017, 26, 036803.	0.7	11
47	Inversion Domain Boundary Induced Stacking and Bandstructure Diversity in Bilayer MoSe_2 . Nano Letters, 2017, 17, 6653-6660.	4.5	51
48	Defect Structure of Localized Excitons in a WSe_2 Monolayer. Physical Review Letters, 2017, 119, 046101.	2.9	170
49	Unusually high electron density in an intermolecular non-bonding region: Role of metal substrate. Chinese Chemical Letters, 2017, 28, 759-764.	4.8	11
50	High Electron Mobility and Air Stable 2D Layered PtSe_2 FETs. Advanced Materials, 2017, 29, 1604230.	11.1	502
51	Strain- and twist-engineered optical absorption of few-layer black phosphorus. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	2.0	12
52	Magnetism in molybdenum disulphide monolayer with sulfur substituted by 3d transition metals. Journal of Applied Physics, 2016, 120, 144305.	1.1	11
53	Interaction of Black Phosphorus with Oxygen and Water. Chemistry of Materials, 2016, 28, 8330-8339.	3.2	436
54	Extraordinarily Strong Interlayer Interaction in 2D Layered PtS_2 . Advanced Materials, 2016, 28, 2399-2407.	11.1	415

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55	Optical Anisotropy of Black Phosphorus in the Visible Regime. Journal of the American Chemical Society, 2016, 138, 300-305.	6.6	273
56	Polytypism and unexpected strong interlayer coupling in two-dimensional layered ReS ₂ . Nanoscale, 2016, 8, 8324-8332.	2.8	120
57	Interlayer electronic hybridization leads to exceptional thickness-dependent vibrational properties in few-layer black phosphorus. Nanoscale, 2016, 8, 2740-2750.	2.8	153
58	Exploring atomic defects in molybdenum disulphide monolayers. Nature Communications, 2015, 6, 6293.	5.8	1,124
59	Interface Coupling in Twisted Multilayer Graphene by Resonant Raman Spectroscopy of Layer Breathing Modes. ACS Nano, 2015, 9, 7440-7449.	7.3	127
60	Exceptionally Stiff Two-Dimensional Molecular Crystal by Substrate-Confinement. ACS Nano, 2014, 8, 11425-11431.	7.3	6
61	High-mobility transport anisotropy and linear dichroism in few-layer black phosphorus. Nature Communications, 2014, 5, 4475.	5.8	3,568
62	Real-Space Identification of Intermolecular Bonding with Atomic Force Microscopy. Science, 2013, 342, 611-614.	6.0	365
63	Electron Core-Hole Interaction and Its Induced Ionic Structural Relaxation in Molecular Systems under X-Ray Irradiation. Physical Review Letters, 2006, 97, 246101.	2.9	40