Peng Cheng

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/460923/publications.pdf

Version: 2024-02-01

43 papers	3,684 citations	331538 21 h-index	265120 42 g-index
44 all docs	44 docs citations	44 times ranked	4838 citing authors

#	Article	IF	Citations
1	Experimental realization of two-dimensional boron sheets. Nature Chemistry, 2016, 8, 563-568.	6.6	1,398
2	Universal mechanical exfoliation of large-area 2D crystals. Nature Communications, 2020, 11, 2453.	5.8	394
3	Probing Superexchange Interaction in Molecular Magnets by Spin-Flip Spectroscopy and Microscopy. Physical Review Letters, 2008, 101, 197208.	2.9	231
4	Experimental realization of two-dimensional Dirac nodal line fermions in monolayer Cu2Si. Nature Communications, 2017, 8, 1007.	5.8	219
5	Critical fields and anisotropy of NdFeAsO0.82F0.18 single crystals. Applied Physics Letters, 2008, 93, .	1.5	169
6	Superconductivity at 36 K in gadolinium-arsenide oxides GdO1â^'x F x FeAs. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 719-722.	0.2	146
7	2D Boron Sheets: Structure, Growth, and Electronic and Thermal Transport Properties. Advanced Functional Materials, 2020, 30, 1904349.	7.8	124
8	Synthesis of borophene nanoribbons on Ag(110) surface. Physical Review Materials, 2017, 1, .	0.9	113
9	Synthesis of bilayer borophene. Nature Chemistry, 2022, 14, 25-31.	6.6	105
10	Strain-induced band engineering in monolayer stanene on Sb(111). Physical Review Materials, 2017, 1, .	0.9	91
11	Highly tunable electron transport in epitaxial topological insulator (Bi1-xSbx)2Te3 thin films. Applied Physics Letters, 2012, 101, .	1.5	76
12	Vibrational Properties of a Monolayer Silicene Sheet Studied by Tip-Enhanced Raman Spectroscopy. Physical Review Letters, 2017, 119, 196803.	2.9	74
13	Raman Spectroscopy of Two-Dimensional Borophene Sheets. ACS Nano, 2019, 13, 4133-4139.	7.3	73
14	The Pentagonal Nature of Self-Assembled Silicon Chains and Magic Clusters on Ag(110). Nano Letters, 2018, 18, 2937-2942.	4.5	52
15	Intrinsic Josephson junctions in the iron-based multi-band superconductor (V2Sr4O6)Fe2As2. Nature Physics, 2014, 10, 644-647.	6.5	43
16	Observation of Topological Flat Bands in the Kagome Semiconductor Nb₃Cl₈. Nano Letters, 2022, 22, 4596-4602.	4.5	37
17	Binary Two-Dimensional Honeycomb Lattice with Strong Spin-Orbit Coupling and Electron-Hole Asymmetry. Physical Review Letters, 2018, 121, 126801.	2.9	33
18	Ordered chlorinated monolayer silicene structures. Physical Review B, 2016, 93, .	1.1	30

#	Article	IF	Citations
19	Realization of Regularâ€Mixed Quasiâ€1D Borophene Chains with Longâ€Range Order. Advanced Materials, 2020, 32, e2005128.	11.1	30
20	One-dimensional nearly free electron states in borophene. Nanoscale, 2019, 11, 15605-15611.	2.8	25
21	Epitaxial Growth and Transport Properties of Magnetic Weyl Semimetal Co₃Sn₂S₂ Thin Films. ACS Applied Electronic Materials, 2020, 2, 126-133.	2.0	22
22	Topological electronic structure in the antiferromagnet HoSbTe. Physical Review B, 2020, 102, .	1.1	22
23	Experimental evidence of monolayer AlB2 with symmetry-protected Dirac cones. Physical Review B, 2020, 101, .	1.1	20
24	Anomalous Meissner effect in pnictide superconductors. Physical Review B, 2010, 82, .	1.1	17
25	Regular Arrangement of Two-Dimensional Clusters of Blue Phosphorene on Ag(111). Chinese Physics Letters, 2020, 37, 096803.	1.3	17
26	Observation of One-Dimensional Dirac Fermions in Silicon Nanoribbons. Nano Letters, 2022, 22, 695-701.	4.5	12
27	Low-temperature, ultrahigh-vacuum tip-enhanced Raman spectroscopy combined with molecular beam epitaxy for in situ two-dimensional materialsâ€™ studies. Review of Scientific Instruments, 2018, 89, 053107.	0.6	10
28	Realization of Large Scale, 2D van der Waals Heterojunction of SnS₂/SnS by Reversible Sulfurization. Small, 2021, 17, e2101154.	5.2	10
29	Observation of topological edge states in the quantum spin Hall insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Ta</mml:mi></mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2021, 104, .	1.1	10
30	Experimental observation of Dirac cones in artificial graphene lattices. Physical Review B, 2020, 102, .	1.1	9
31	Superconductivity in Ti-doped iron-arsenide compound Sr4Cr0.8Ti1.2O6Fe2As2. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 1876-1878.	0.2	7
32	In-Situ Manipulation of the Magnetic Anisotropy of Single Mn Atom via Molecular Ligands. Nano Letters, 2021, 21, 3566-3572.	4.5	7
33	Giant Bandgap Engineering in Two-Dimensional Ferroelectric Î±-In₂Se₃. Journal of Physical Chemistry Letters, 2022, 13, 3261-3268.	2.1	7
34	Tuning the surface plasmon on Ag(111) by organic molecules. Journal of Applied Physics, 2012, 112, 023302.	1.1	5
35	Precise determination of moirÃ© pattern in monolayer FeO(111) films on Au(111) by scanning tunneling microscopy. Physical Review Materials, 2020, 4, .	0.9	5
36	Dynamics of Single-Molecule Dissociation by Selective Excitation of Molecular Phonons. Physical Review Letters, 2019, 123, 246804.	2.9	4

#	Article	IF	Citations
37	Vibrational Property of Î±-Borophene Determined by Tip-Enhanced Raman Spectroscopy. Molecules, 2022, 27, 834.	1.7	4
38	Real-space detection and manipulation of two-dimensional quantum well states in few-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2022, 105, .	1.1	4
39	Engineering novel surface electronic states via complex supramolecular tessellations. Nanoscale, 2022, , .	2.8	4
40	Realizing quinary charge states of solitary defects in two-dimensional intermetallic semiconductor. National Science Review, 2022, 9, nwab070.	4.6	3
41	Physics design of a 10ÂMeV injector test stand for an accelerator-driven subcritical system. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	3
42	Creating supramolecular semiregular Archimedean tilings via gas-mediated deprotonation of a terminal alkyne derivative. CrystEngComm, 0, , .	1.3	2
43	Melamine Self-assembly and Dehydrogenation on Ag(111) Studied by Tip-enhanced Raman Spectroscopy. Journal of Chemical Physics, 0, , .	1.2	1