

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	Realizing quinary charge states of solitary defects in two-dimensional intermetallic semiconductor. National Science Review, 2022, 9, nwab070.	4.6	3
2	Synthesis of bilayer borophene. Nature Chemistry, 2022, 14, 25-31.	6.6	105
3	Vibrational Property of $\hat{\pm}$ -Borophene Determined by Tip-Enhanced Raman Spectroscopy. Molecules, 2022, 27, 834.	1.7	4
4	Observation of One-Dimensional Dirac Fermions in Silicon Nanoribbons. Nano Letters, 2022, 22, 695-701.	4.5	12
5	Real-space detection and manipulation of two-dimensional quantum well states in few-layer MoS_2 . Physical Review B, 2022, 105, .	1.1	4
6	Engineering novel surface electronic states via complex supramolecular tessellations. Nanoscale, 2022, , .	2.8	4
7	Giant Bandgap Engineering in Two-Dimensional Ferroelectric $\hat{\pm}\text{-In}_2\text{Se}_3$. Journal of Physical Chemistry Letters, 2022, 13, 3261-3268.	2.1	7
8	Observation of Topological Flat Bands in the Kagome Semiconductor Nb_3Cl_8 . Nano Letters, 2022, 22, 4596-4602.	4.5	37
9	<i>In-Situ</i> Manipulation of the Magnetic Anisotropy of Single Mn Atom via Molecular Ligands. Nano Letters, 2021, 21, 3566-3572.	4.5	7
10	Realization of Large Scale, 2D van der Waals Heterojunction of SnS_2/SnS by Reversible Sulfurization. Small, 2021, 17, e2101154.	5.2	10
11	Observation of topological edge states in the quantum spin Hall insulator TaTe_2 . Physical Review B, 2021, 104, .	1.1	10
12	2D Boron Sheets: Structure, Growth, and Electronic and Thermal Transport Properties. Advanced Functional Materials, 2020, 30, 1904349.	7.8	124
13	Epitaxial Growth and Transport Properties of Magnetic Weyl Semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ Thin Films. ACS Applied Electronic Materials, 2020, 2, 126-133.	2.0	22
14	Topological electronic structure in the antiferromagnet HoSbTe . Physical Review B, 2020, 102, .	1.1	22
15	Experimental observation of Dirac cones in artificial graphene lattices. Physical Review B, 2020, 102, .	1.1	9
16	Realization of Regular C_{1D} Borophene Chains with Long-Range Order. Advanced Materials, 2020, 32, e2005128.	11.1	30
17	Regular Arrangement of Two-Dimensional Clusters of Blue Phosphorene on $\text{Ag}(111)$. Chinese Physics Letters, 2020, 37, 096803.	1.3	17
18	Universal mechanical exfoliation of large-area 2D crystals. Nature Communications, 2020, 11, 2453.	5.8	394

#	ARTICLE	IF	CITATIONS
19	Experimental evidence of monolayer AlB ₂ with symmetry-protected Dirac cones. <i>Physical Review B</i> , 2020, 101, .	1.1	20
20	Precise determination of moiré pattern in monolayer FeO(111) films on Au(111) by scanning tunneling microscopy. <i>Physical Review Materials</i> , 2020, 4, .	0.9	5
21	One-dimensional nearly free electron states in borophene. <i>Nanoscale</i> , 2019, 11, 15605-15611.	2.8	25
22	Raman Spectroscopy of Two-Dimensional Borophene Sheets. <i>ACS Nano</i> , 2019, 13, 4133-4139.	7.3	73
23	Dynamics of Single-Molecule Dissociation by Selective Excitation of Molecular Phonons. <i>Physical Review Letters</i> , 2019, 123, 246804.	2.9	4
24	The Pentagonal Nature of Self-Assembled Silicon Chains and Magic Clusters on Ag(110). <i>Nano Letters</i> , 2018, 18, 2937-2942.	4.5	52
25	Binary Two-Dimensional Honeycomb Lattice with Strong Spin-Orbit Coupling and Electron-Hole Asymmetry. <i>Physical Review Letters</i> , 2018, 121, 126801.	2.9	33
26	Low-temperature, ultrahigh-vacuum tip-enhanced Raman spectroscopy combined with molecular beam epitaxy for in situ two-dimensional materials studies. <i>Review of Scientific Instruments</i> , 2018, 89, 053107.	0.6	10
27	Experimental realization of two-dimensional Dirac nodal line fermions in monolayer Cu ₂ Si. <i>Nature Communications</i> , 2017, 8, 1007.	5.8	219
28	Vibrational Properties of a Monolayer Silicene Sheet Studied by Tip-Enhanced Raman Spectroscopy. <i>Physical Review Letters</i> , 2017, 119, 196803.	2.9	74
29	Synthesis of borophene nanoribbons on Ag(110) surface. <i>Physical Review Materials</i> , 2017, 1, .	0.9	113
30	Strain-induced band engineering in monolayer stanene on Sb(111). <i>Physical Review Materials</i> , 2017, 1, .	0.9	91
31	Ordered chlorinated monolayer silicene structures. <i>Physical Review B</i> , 2016, 93, .	1.1	30
32	Experimental realization of two-dimensional boron sheets. <i>Nature Chemistry</i> , 2016, 8, 563-568.	6.6	1,398
33	Physics design of a 10 MeV injector test stand for an accelerator-driven subcritical system. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2015, 18, .	1.8	3
34	Intrinsic Josephson junctions in the iron-based multi-band superconductor (V ₂ Sr ₄ O ₆)Fe ₂ As ₂ . <i>Nature Physics</i> , 2014, 10, 644-647.	6.5	43
35	Tuning the surface plasmon on Ag(111) by organic molecules. <i>Journal of Applied Physics</i> , 2012, 112, 023302.	1.1	5
36	Highly tunable electron transport in epitaxial topological insulator (Bi _{1-x} Sb _x) ₂ Te ₃ thin films. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	76

#	ARTICLE	IF	CITATIONS
37	Anomalous Meissner effect in pnictide superconductors. Physical Review B, 2010, 82, .	1.1	17
38	Superconductivity in Ti-doped iron-arsenide compound Sr ₄ Cr _{0.8} Ti _{1.2} O ₆ Fe ₂ As ₂ . Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 1876-1878.	0.2	7
39	Superconductivity at 36 K in gadolinium-arsenide oxides GdO _{1-x} F _x FeAs. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 719-722.	0.2	146
40	Probing Superexchange Interaction in Molecular Magnets by Spin-Flip Spectroscopy and Microscopy. Physical Review Letters, 2008, 101, 197208.	2.9	231
41	Critical fields and anisotropy of NdFeAsO _{0.82} F _{0.18} single crystals. Applied Physics Letters, 2008, 93, .	1.5	169
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