

Kehui Wu

List of Publications by Year in descending order

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88
papers

7,561
citations

117453

34
h-index

60497

81
g-index

90
all docs

90
docs citations

90
times ranked

6038
citing authors

#	ARTICLE	IF	CITATIONS
19	Strain-induced band engineering in monolayer stanene on Sb(111). <i>Physical Review Materials</i> , 2017, 1, .	0.9	91
20	Observation of Dirac Cone Warping and Chirality Effects in Silicene. <i>ACS Nano</i> , 2013, 7, 9049-9054.	7.3	88
21	Observation of Anderson Localization in Ultrathin Films of Three-Dimensional Topological Insulators. <i>Physical Review Letters</i> , 2015, 114, 216601.	2.9	82
22	Metastable phases of 2D boron sheets on Ag(111). <i>Journal of Physics Condensed Matter</i> , 2017, 29, 095002.	0.7	78
23	Highly tunable electron transport in epitaxial topological insulator (Bi ₂ Sb) ₂ Te ₃ thin films. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	76
24	Direct evidence of interaction-induced Dirac cones in a monolayer silicene/Ag(111) system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14656-14661.	3.3	76
25	Strained monolayer germanene with 1 Å ⁻¹ lattice on Sb(111). <i>2D Materials</i> , 2016, 3, 045005.	2.0	75
26	Vibrational Properties of a Monolayer Silicene Sheet Studied by Tip-Enhanced Raman Spectroscopy. <i>Physical Review Letters</i> , 2017, 119, 196803.	2.9	74
27	Raman Spectroscopy of Two-Dimensional Borophene Sheets. <i>ACS Nano</i> , 2019, 13, 4133-4139.	7.3	73
28	Discovery of Weyl Nodal Lines in a Single-Layer Ferromagnet. <i>Physical Review Letters</i> , 2019, 123, 116401.	2.9	70
29	Investigation of electron-phonon coupling in epitaxial silicene by <i>in situ</i> Raman spectroscopy. <i>Physical Review B</i> , 2015, 91, .	1.1	67
30	In Situ Oxygen Doping of Monolayer MoS ₂ for Novel Electronics. <i>Small</i> , 2020, 16, e2004276.	5.2	54
31	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
32	Recent progress on borophene: Growth and structures. <i>Frontiers of Physics</i> , 2018, 13, 1.	2.4	50
33	The effect of moiré superstructures on topological edge states in twisted bismuthene homojunctions. <i>Science Advances</i> , 2020, 6, eaba2773.	4.7	39
34	Delocalized Surface State in Epitaxial Si(111) Film with Spontaneous $\sqrt{3}\times\sqrt{3}$ Superstructure. <i>Scientific Reports</i> , 2015, 5, 13590.	1.6	37
35	Observation of van Hove Singularities in Twisted Silicene Multilayers. <i>ACS Central Science</i> , 2016, 2, 517-521.	5.3	37
36	Observation of Topological Flat Bands in the Kagome Semiconductor Nb ₃ Cl ₈ . <i>Nano Letters</i> , 2022, 22, 4596-4602.	4.5	37

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37	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
38	Ordered chlorinated monolayer silicene structures. <i>Physical Review B</i> , 2016, 93, .	1.1	30
39	Proximity-induced magnetism and an anomalous Hall effect in $\text{Bi}_2\text{Se}_3/\text{LaCoO}_3$: a topological insulator/ferromagnetic insulator thin film heterostructure. <i>Nanoscale</i> , 2018, 10, 10041-10049.	2.8	30
40	Realization of Regular-Mixed Quasi-1D Borophene Chains with Long-Range Order. <i>Advanced Materials</i> , 2020, 32, e2005128.	11.1	30
41	Wafer-Scale Oxygen-Doped MoS_2 Monolayer. <i>Small Methods</i> , 2021, 5, e2100091.	4.6	30
42	Superconductivity and Fermi-surface nesting in the candidate Dirac semimetal NbC. <i>Physical Review B</i> , 2020, 102, .	1.1	29
43	Structure and quantum well states in silicene nanoribbons on Ag(110). <i>Surface Science</i> , 2016, 645, 74-79.	0.8	27
44	Superstructure-Induced Splitting of Dirac Cones in Silicene. <i>Physical Review Letters</i> , 2019, 122, 196801.	2.9	26
45	One-dimensional nearly free electron states in borophene. <i>Nanoscale</i> , 2019, 11, 15605-15611.	2.8	25
46	Electron cyclotron resonance assisted chemical vapor deposition of carbon nitride films on diamond. <i>Journal of Applied Physics</i> , 1998, 83, 1702-1704.	1.1	22
47	Epitaxial Growth and Transport Properties of Magnetic Weyl Semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ Thin Films. <i>ACS Applied Electronic Materials</i> , 2020, 2, 126-133.	2.0	22
48	Topological electronic structure in the antiferromagnet HoSbTe. <i>Physical Review B</i> , 2020, 102, .	1.1	22
49	Tuning the termination of the $\text{SrTiO}_3(110)$ surface by Ar^+ sputtering. <i>Applied Physics Letters</i> , 2009, 95, 021912.	1.5	20
50	Experimental evidence of monolayer AlB_2 with symmetry-protected Dirac cones. <i>Physical Review B</i> , 2020, 101, .	1.1	20
51	Substitution-induced spin-split surface states in topological insulator $(\text{Bi}_{1-x}\text{Sb}_x)_2\text{Te}_3$. <i>Scientific Reports</i> , 2015, 5, 8830.	1.6	19
52	Regular Arrangement of Two-Dimensional Clusters of Blue Phosphorene on Ag(111). <i>Chinese Physics Letters</i> , 2020, 37, 096803.	1.3	17
53	Chemical potential fluctuations in topological insulator $(\text{Bi}_{0.5}\text{Sb}_{0.5})_2\text{Te}_3$ -films visualized by photocurrent spectroscopy. <i>2D Materials</i> , 2015, 2, 024012.	2.0	16
54	Quantum size effect induced dilute atomic layers in ultrathin Al films. <i>Physical Review B</i> , 2007, 76, .	1.1	14

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55	A modified Wenzel model for water wetting on van der Waals layered materials with topographic surfaces. <i>Nanoscale</i> , 2017, 9, 3843-3849.	2.8	12
56	Observation of One-Dimensional Dirac Fermions in Silicon Nanoribbons. <i>Nano Letters</i> , 2022, 22, 695-701.	4.5	12
57	Unusual diffusivity and clustering of alkali metals on the Si(111)-7x7 surface. <i>Science and Technology of Advanced Materials</i> , 2005, 6, 789-794.	2.8	10
58	Quantum size effects in the nonmetal to metal transition of two-dimensional Al islands. <i>Physical Review B</i> , 2007, 76, .	1.1	10
59	Low-temperature, ultrahigh-vacuum tip-enhanced Raman spectroscopy combined with molecular beam epitaxy for in situ two-dimensional materialsâ€™ studies. <i>Review of Scientific Instruments</i> , 2018, 89, 053107.	0.6	10
60	Realization of Large Scale, 2D van der Waals Heterojunction of SnS ₂ /SnS by Reversible Sulfurization. <i>Small</i> , 2021, 17, e2101154.	5.2	10
61	Observation of topological edge states in the quantum spin Hall insulator TaTe_2 . <i>Physical Review B</i> , 2021, 104, .	1.1	10
62	Abnormal phase transition between two-dimensional high-density liquid crystal and low-density crystalline solid phases. <i>Nature Communications</i> , 2018, 9, 198.	5.8	9
63	Experimental observation of Dirac cones in artificial graphene lattices. <i>Physical Review B</i> , 2020, 102, .	1.1	9
64	Growth and transport properties of topological insulator Bi ₂ Se ₃ thin film on a ferromagnetic insulating substrate. <i>Chinese Physics B</i> , 2018, 27, 076801.	0.7	7
65	Quantized Conductance in Topological Insulators Revealed by the Shockley-Ramo Theorem. <i>Physical Review Letters</i> , 2019, 122, 146804.	2.9	7
66	Robust Gapless Surface State against Surface Magnetic Impurities on (Bi _{0.5} Sb _{0.5}) ₂ Te ₃ Evidenced by In-Situ Magnetotransport Measurements. <i>Physical Review Letters</i> , 2020, 124, 126601.	2.9	7
67	In-Situ Manipulation of the Magnetic Anisotropy of Single Mn Atom via Molecular Ligands. <i>Nano Letters</i> , 2021, 21, 3566-3572.	4.5	7
68	Giant Bandgap Engineering in Two-Dimensional Ferroelectric In_2Se_3 . <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3261-3268.	2.1	7
69	Atomic-Scale Characterization of Negative Differential Resistance in Ferroelectric Bi ₂ WO ₆ . <i>Advanced Functional Materials</i> , 2022, 32, 2105256.	7.8	6
70	Tuning the surface plasmon on Ag(111) by organic molecules. <i>Journal of Applied Physics</i> , 2012, 112, 023302.	1.1	5
71	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
72	Liu et al. Reply. <i>Physical Review Letters</i> , 2015, 114, 099702.	2.9	4

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73	Dynamics of Single-Molecule Dissociation by Selective Excitation of Molecular Phonons. Physical Review Letters, 2019, 123, 246804.	2.9	4
74	Emergent perpendicular magnetic anisotropy at the interface of an oxide heterostructure. Physical Review B, 2021, 104, .	1.1	4
75	Vibrational Property of $\hat{1}\pm$ -Borophene Determined by Tip-Enhanced Raman Spectroscopy. Molecules, 2022, 27, 834.	1.7	4
76	Real-space detection and manipulation of two-dimensional quantum well states in few-layer MoS_2 . Physical Review B, 2022, 105, .	1.1	4
77	Engineering novel surface electronic states via complex supramolecular tessellations. Nanoscale, 2022, , .	2.8	4
78	Epitaxial growth mechanism of silicene on Ag(111). , 2014, , .		3
79	Realizing quinary charge states of solitary defects in two-dimensional intermetallic semiconductor. National Science Review, 2022, 9, nwab070.	4.6	3
80	Locally probing the screening potential at a metal-semiconductor interface. Physical Review B, 2010, 81, .	1.1	2
81	Creating supramolecular semiregular Archimedean tilings via gas-mediated deprotonation of a terminal alkyne derivative. CrystEngComm, 0, , .	1.3	2
82	Photoinduced Polaron Formation in a Polymerized Electron-Acceptor Semiconductor. Journal of Physical Chemistry Letters, 2022, 13, 5143-5150.	2.1	2
83	Surface Functionalization of Silicene. Nanoscience and Technology, 2018, , 211-233.	1.5	1
84	$d+id^2$ Chiral Superconductivity in Bilayer Silicene. , 0, .		1
85	Melamine Self-assembly and Dehydrogenation on Ag(111) Studied by Tip-enhanced Raman Spectroscopy. Journal of Chemical Physics, 0, , .	1.2	1
86	Inside Back Cover: Wafer-Scale Oxygen-Doped MoS_2 Monolayer (Small Methods 6/2021). Small Methods, 2021, 5, 2170026.	4.6	0
87	Spin-Glass State above Room Temperature in a Layered Nickelate $\text{La}_{n+1}\text{Ni}_n\text{O}_{3n+1}$. Advanced Electronic Materials, 2022, 8, .		0
88	Borophene. , 2022, , 73-106.		0