

Kehui Wu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

5,672
citations

31
h-index

75
g-index

90
ext. papers

6,631
ext. citations

7.8
avg, IF

5.54
L-index

#	Paper	IF	Citations
81	Evidence of silicene in honeycomb structures of silicon on Ag(111). <i>Nano Letters</i> , 2012 , 12, 3507-11	11.5	1055
80	Experimental realization of two-dimensional boron sheets. <i>Nature Chemistry</i> , 2016 , 8, 563-8	17.6	996
79	Evidence for Dirac fermions in a honeycomb lattice based on silicon. <i>Physical Review Letters</i> , 2012 , 109, 056804	7.4	577
78	Dirac Fermions in Borophene. <i>Physical Review Letters</i> , 2017 , 118, 096401	7.4	256
77	Experimental realization of honeycomb borophene. <i>Science Bulletin</i> , 2018 , 63, 282-286	10.6	243
76	Spontaneous symmetry breaking and dynamic phase transition in monolayer silicene. <i>Physical Review Letters</i> , 2013 , 110, 085504	7.4	193
75	Tuning the band gap in silicene by oxidation. <i>ACS Nano</i> , 2014 , 8, 10019-25	16.7	147
74	Experimental realization of two-dimensional Dirac nodal line fermions in monolayer CuSi. <i>Nature Communications</i> , 2017 , 8, 1007	17.4	138
73	d+idTchiral superconductivity in bilayer silicene. <i>Physical Review Letters</i> , 2013 , 111, 066804	7.4	124
72	Direct evidence of metallic bands in a monolayer boron sheet. <i>Physical Review B</i> , 2016 , 94,	3.3	113
71	Quasi-freestanding epitaxial silicene on Ag(111) by oxygen intercalation. <i>Science Advances</i> , 2016 , 2, e1600067	10.7	112
70	Observation of a possible superconducting gap in silicene on Ag(111) surface. <i>Applied Physics Letters</i> , 2013 , 102, 081602	3.4	110
69	Growth of Topological Insulator Bi ₂ Se ₃ Thin Films on SrTiO ₃ with Large Tunability in Chemical Potential. <i>Advanced Functional Materials</i> , 2011 , 21, 2351-2355	15.6	108
68	Ordered and reversible hydrogenation of silicene. <i>Physical Review Letters</i> , 2015 , 114, 126101	7.4	106
67	Observation of Dirac cone warping and chirality effects in silicene. <i>ACS Nano</i> , 2013 , 7, 9049-54	16.7	83
66	Synthesis of borophene nanoribbons on Ag(110) surface. <i>Physical Review Materials</i> , 2017 , 1,	3.2	78
65	From Silicene to Half-Silicane by Hydrogenation. <i>ACS Nano</i> , 2015 , 9, 11192-9	16.7	76

64	Strain-induced band engineering in monolayer stanene on Sb(111). <i>Physical Review Materials</i> , 2017 , 1,	3.2	75
63	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, 123111	3.4	68
62	Observation of Anderson localization in ultrathin films of three-dimensional topological insulators. <i>Physical Review Letters</i> , 2015 , 114, 216601	7.4	65
61	Discovery of 2D Anisotropic Dirac Cones. <i>Advanced Materials</i> , 2018 , 30, 1704025	2.4	62
60	Investigation of electron-phonon coupling in epitaxial silicene by in situ Raman spectroscopy. <i>Physical Review B</i> , 2015 , 91,	3.3	59
59	Metastable phases of 2D boron sheets on Ag(1 1 1). <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 095002	7.4	57
58	Vibrational Properties of a Monolayer Silicene Sheet Studied by Tip-Enhanced Raman Spectroscopy. <i>Physical Review Letters</i> , 2017 , 119, 196803	7.4	53
57	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	11.5	52
56	Strained monolayer germanene with 1 × 1 lattice on Sb(111). <i>2D Materials</i> , 2016 , 3, 045005	5.9	48
55	Raman Spectroscopy of Two-Dimensional Borophene Sheets. <i>ACS Nano</i> , 2019 , 13, 4133-4139	16.7	40
54	The Pentagonal Nature of Self-Assembled Silicon Chains and Magic Clusters on Ag(110). <i>Nano Letters</i> , 2018 , 18, 2937-2942	11.5	39
53	Discovery of Weyl Nodal Lines in a Single-Layer Ferromagnet. <i>Physical Review Letters</i> , 2019 , 123, 116401	7.4	37
52	Recent progress on borophene: Growth and structures. <i>Frontiers of Physics</i> , 2018 , 13, 1	3.7	35
51	Delocalized Surface State in Epitaxial Si(111) Film with Spontaneous √3 × √3 Superstructure. <i>Scientific Reports</i> , 2015 , 5, 13590	4.9	33
50	Observation of van Hove Singularities in Twisted Silicene Multilayers. <i>ACS Central Science</i> , 2016 , 2, 517-216.8	216.8	28
49	Binary Two-Dimensional Honeycomb Lattice with Strong Spin-Orbit Coupling and Electron-Hole Asymmetry. <i>Physical Review Letters</i> , 2018 , 121, 126801	7.4	27
48	Ordered chlorinated monolayer silicene structures. <i>Physical Review B</i> , 2016 , 93,	3.3	26
47	Structure and quantum well states in silicene nanoribbons on Ag(110). <i>Surface Science</i> , 2016 , 645, 74-79	1.8	25

46	Proximity-induced magnetism and an anomalous Hall effect in BiSe/LaCoO: a topological insulator/ferromagnetic insulator thin film heterostructure. <i>Nanoscale</i> , 2018 , 10, 10041-10049	7.7	22
45	The effect of moiré superstructures on topological edge states in twisted bismuthene homojunctions. <i>Science Advances</i> , 2020 , 6, eaba2773	14.3	21
44	In Situ Oxygen Doping of Monolayer MoS for Novel Electronics. <i>Small</i> , 2020 , 16, e2004276	11	21
43	Electron cyclotron resonance assisted chemical vapor deposition of carbon nitride films on diamond. <i>Journal of Applied Physics</i> , 1998 , 83, 1702-1704	2.5	20
42	Tuning the termination of the SrTiO ₃ (110) surface by Ar ⁺ sputtering. <i>Applied Physics Letters</i> , 2009 , 95, 021912	3.4	19
41	Synthesis of bilayer borophene. <i>Nature Chemistry</i> , 2021 ,	17.6	19
40	Chemical potential fluctuations in topological insulator (Bi _{0.5} Sb _{0.5}) ₂ Te ₃ -films visualized by photocurrent spectroscopy. <i>2D Materials</i> , 2015 , 2, 024012	5.9	15
39	Superstructure-Induced Splitting of Dirac Cones in Silicene. <i>Physical Review Letters</i> , 2019 , 122, 196801	7.4	14
38	One-dimensional nearly free electron states in borophene. <i>Nanoscale</i> , 2019 , 11, 15605-15611	7.7	14
37	Substitution-induced spin-split surface states in topological insulator (Bi _{1-x} Sb _x) ₂ Te ₃ . <i>Scientific Reports</i> , 2015 , 5, 8830	4.9	14
36	Quantum size effect induced dilute atomic layers in ultrathin Al films. <i>Physical Review B</i> , 2007 , 76,	3.3	14
35	Epitaxial Growth and Transport Properties of Magnetic Weyl Semimetal Co ₃ Sn ₂ S ₂ Thin Films. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 126-133	4	13
34	Realization of Regular-Mixed Quasi-1D Borophene Chains with Long-Range Order. <i>Advanced Materials</i> , 2020 , 32, e2005128	24	10
33	Superconductivity and Fermi-surface nesting in the candidate Dirac semimetal NbC. <i>Physical Review B</i> , 2020 , 102,	3.3	9
32	Quantum size effects in the nonmetal to metal transition of two-dimensional Al islands. <i>Physical Review B</i> , 2007 , 76,	3.3	9
31	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	7.1	9
30	A modified Wenzel model for water wetting on van der Waals layered materials with topographic surfaces. <i>Nanoscale</i> , 2017 , 9, 3843-3849	7.7	7
29	Experimental evidence of monolayer AlB ₂ with symmetry-protected Dirac cones. <i>Physical Review B</i> , 2020 , 101,	3.3	7

28	Topological electronic structure in the antiferromagnet HoSbTe. <i>Physical Review B</i> , 2020 , 102,	3.3	6
27	Wafer-Scale Oxygen-Doped MoS Monolayer.. <i>Small Methods</i> , 2021 , 5, e2100091	12.8	6
26	Robust Gapless Surface State against Surface Magnetic Impurities on $(\text{Bi}_{0.5}\text{Sb}_{0.5})_2\text{Te}_3$ Evidenced by In Situ Magnetotransport Measurements. <i>Physical Review Letters</i> , 2020 , 124, 126601	7.4	5
25	Abnormal phase transition between two-dimensional high-density liquid crystal and low-density crystalline solid phases. <i>Nature Communications</i> , 2018 , 9, 198	17.4	5
24	Growth and transport properties of topological insulator Bi_2Se_3 thin film on a ferromagnetic insulating substrate. <i>Chinese Physics B</i> , 2018 , 27, 076801	1.2	5
23	Regular Arrangement of Two-Dimensional Clusters of Blue Phosphorene on Ag(111). <i>Chinese Physics Letters</i> , 2020 , 37, 096803	1.8	5
22	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	1.7	5
21	Tuning the surface plasmon on Ag(111) by organic molecules. <i>Journal of Applied Physics</i> , 2012 , 112, 023303	3.3	4
20	Quantized Conductance in Topological Insulators Revealed by the Shockley-Ramo Theorem. <i>Physical Review Letters</i> , 2019 , 122, 146804	7.4	3
19	Epitaxial growth mechanism of silicene on Ag(111) 2014 ,		3
18	Observation of One-Dimensional Dirac Fermions in Silicon Nanoribbons.. <i>Nano Letters</i> , 2022 , 22, 695-701	11.5	3
17	Manipulation of the Magnetic Anisotropy of Single Mn Atom via Molecular Ligands. <i>Nano Letters</i> , 2021 , 21, 3566-3572	11.5	3
16	Dynamics of Single-Molecule Dissociation by Selective Excitation of Molecular Phonons. <i>Physical Review Letters</i> , 2019 , 123, 246804	7.4	3
15	Liu et al. reply. <i>Physical Review Letters</i> , 2015 , 114, 099702	7.4	2
14	Locally probing the screening potential at a metal-semiconductor interface. <i>Physical Review B</i> , 2010 , 81,	3.3	2
13	d+id? Chiral Superconductivity in Bilayer Silicene		1
12	Precise determination of moiré pattern in monolayer FeO(111) films on Au(111) by scanning tunneling microscopy. <i>Physical Review Materials</i> , 2020 , 4,	3.2	1
11	Realizing quinary charge states of solitary defects in two-dimensional intermetallic semiconductor.. <i>National Science Review</i> , 2022 , 9, nwab070	10.8	1

10	Giant Bandgap Engineering in Two-Dimensional Ferroelectric InSe . <i>Journal of Physical Chemistry Letters</i> , 2022 , 3261-3268	6.4	1
9	Observation of topological edge states in the quantum spin Hall insulator $\text{Ta}_2\text{Pd}_3\text{Te}_5$. <i>Physical Review B</i> , 2021 , 104,	3.3	1
8	Atomic-Scale Characterization of Negative Differential Resistance in Ferroelectric Bi_2WO_6 . <i>Advanced Functional Materials</i> , 2022 , 32, 2105256	15.6	0
7	Realization of Large Scale, 2D van der Waals Heterojunction of SnS / SnS by Reversible Sulfurization. <i>Small</i> , 2021 , 17, e2101154	11	0
6	Electronic Structures of Borophene 2021 , 73-88		
5	Inside Back Cover: Wafer-Scale Oxygen-Doped MoS_2 Monolayer (Small Methods 6/2021). <i>Small Methods</i> , 2021 , 5, 2170026	12.8	
4	Surface Functionalization of Silicene. <i>Nanoscience and Technology</i> , 2018 , 211-233	0.6	
3	Spin-Glass State above Room Temperature in a Layered Nickelate $\text{La}_{n+1}\text{Ni}_n\text{O}_{3n+1}$. <i>Advanced Electronic Materials</i> , 2101136	6.4	
2	Photoinduced Polaron Formation in a Polymerized Electron-Acceptor Semiconductor. <i>Journal of Physical Chemistry Letters</i> , 5143-5150	6.4	
1	Borophene 2022 , 73-106		