

Lan Chen

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97
papers

6,625
citations

37
h-index

81
g-index

107
ext. papers

7,667
ext. citations

8
avg, IF

5.65
L-index

#	Paper	IF	Citations
97	Evidence of silicene in honeycomb structures of silicon on Ag(111). <i>Nano Letters</i> , 2012 , 12, 3507-11	11.5	1055
96	Experimental realization of two-dimensional boron sheets. <i>Nature Chemistry</i> , 2016 , 8, 563-8	17.6	996
95	Evidence for Dirac fermions in a honeycomb lattice based on silicon. <i>Physical Review Letters</i> , 2012 , 109, 056804	7.4	577
94	Controlling the Kondo effect of an adsorbed magnetic ion through its chemical bonding. <i>Science</i> , 2005 , 309, 1542-4	33.3	543
93	Dirac Fermions in Borophene. <i>Physical Review Letters</i> , 2017 , 118, 096401	7.4	256
92	Experimental realization of honeycomb borophene. <i>Science Bulletin</i> , 2018 , 63, 282-286	10.6	243
91	Spontaneous symmetry breaking and dynamic phase transition in monolayer silicene. <i>Physical Review Letters</i> , 2013 , 110, 085504	7.4	193
90	Experimental realization of two-dimensional Dirac nodal line fermions in monolayer CuSi. <i>Nature Communications</i> , 2017 , 8, 1007	17.4	138
89	Mechanism for negative differential resistance in molecular electronic devices: local orbital symmetry matching. <i>Physical Review Letters</i> , 2007 , 99, 146803	7.4	135
88	Direct evidence of metallic bands in a monolayer boron sheet. <i>Physical Review B</i> , 2016 , 94,	3.3	113
87	Quasi-freestanding epitaxial silicene on Ag(111) by oxygen intercalation. <i>Science Advances</i> , 2016 , 2, e1600067	10.7	112
86	Observation of a possible superconducting gap in silicene on Ag(111) surface. <i>Applied Physics Letters</i> , 2013 , 102, 081602	3.4	110
85	Ordered and reversible hydrogenation of silicene. <i>Physical Review Letters</i> , 2015 , 114, 126101	7.4	106
84	Observation of Dirac cone warping and chirality effects in silicene. <i>ACS Nano</i> , 2013 , 7, 9049-54	16.7	83
83	Synthesis of borophene nanoribbons on Ag(110) surface. <i>Physical Review Materials</i> , 2017 , 1,	3.2	78
82	From Silicene to Half-Silicane by Hydrogenation. <i>ACS Nano</i> , 2015 , 9, 11192-9	16.7	76
81	Strain-induced band engineering in monolayer stanene on Sb(111). <i>Physical Review Materials</i> , 2017 , 1,	3.2	75

80	2D Boron Sheets: Structure, Growth, and Electronic and Thermal Transport Properties. <i>Advanced Functional Materials</i> , 2020 , 30, 1904349	15.6	69
79	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
78	Discovery of 2D Anisotropic Dirac Cones. <i>Advanced Materials</i> , 2018 , 30, 1704025	24	62
77	Realization of flat band with possible nontrivial topology in electronic Kagome lattice. <i>Science Advances</i> , 2018 , 4, eaau4511	14.3	62
76	Investigation of electron-phonon coupling in epitaxial silicene by in situ Raman spectroscopy. <i>Physical Review B</i> , 2015 , 91,	3.3	59
75	C60 molecular chains on alpha-sexithiophene nanostripes. <i>Small</i> , 2007 , 3, 2015-8	11	59
74	Molecular orientation of 3, 4, 9, 10-perylene-tetracarboxylic-dianhydride thin films at organic heterojunction interfaces. <i>Applied Physics Letters</i> , 2007 , 91, 114102	3.4	59
73	Metastable phases of 2D boron sheets on Ag(1 1 1). <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 095002	11.5	57
72	Preferential trapping of C60 in nanomesh voids. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2720-1	16.4	56
71	Unveiling metal-cage hybrid states in a single endohedral metallofullerene. <i>Physical Review Letters</i> , 2003 , 91, 185504	7.4	56
70	Vibrational Properties of a Monolayer Silicene Sheet Studied by Tip-Enhanced Raman Spectroscopy. <i>Physical Review Letters</i> , 2017 , 119, 196803	7.4	53
69	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
68	Tunable Arrays of C60 Molecular Chains. <i>Advanced Materials</i> , 2008 , 20, 484-488	24	51
67	Strained monolayer germanene with 1 × 1 lattice on Sb(111). <i>2D Materials</i> , 2016 , 3, 045005	5.9	48
66	Orientationally ordered C60 on p-sexiphenyl nanostripes on Ag111. <i>ACS Nano</i> , 2008 , 2, 693-8	16.7	47
65	Nonlocal chemical reactivity at organic-metal interfaces. <i>ACS Nano</i> , 2009 , 3, 3684-90	16.7	41
64	Raman Spectroscopy of Two-Dimensional Borophene Sheets. <i>ACS Nano</i> , 2019 , 13, 4133-4139	16.7	40
63	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

62	Geometric and electronic structure of a C60 monolayer on Ag(100). <i>Physical Review B</i> , 2007 , 75,	3.3	39
61	Discovery of Weyl Nodal Lines in a Single-Layer Ferromagnet. <i>Physical Review Letters</i> , 2019 , 123, 116401	7.4	37
60	Recent progress on borophene: Growth and structures. <i>Frontiers of Physics</i> , 2018 , 13, 1	3.7	35
59	Self-assembled organic donor/acceptor nanojunction arrays. <i>Applied Physics Letters</i> , 2008 , 92, 193301	3.4	34
58	Delocalized Surface State in Epitaxial Si(111) Film with Spontaneous $\sqrt{3} \times \sqrt{3}$ Superstructure. <i>Scientific Reports</i> , 2015 , 5, 13590	4.9	33
57	Observation of van Hove Singularities in Twisted Silicene Multilayers. <i>ACS Central Science</i> , 2016 , 2, 517-216	6.8	28
56	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
55	Multilayered silicene: the bottom-up approach for a weakly relaxed Si(111) with Dirac surface states. <i>Nanoscale</i> , 2015 , 7, 15880-5	7.7	26
54	Ordered chlorinated monolayer silicene structures. <i>Physical Review B</i> , 2016 , 93,	3.3	26
53	Structure and quantum well states in silicene nanoribbons on Ag(110). <i>Surface Science</i> , 2016 , 645, 74-79	1.8	25
52	Chen et al. reply. <i>Physical Review Letters</i> , 2013 , 110, 229702	7.4	24
51	Observation of hierarchical chiral structures in 8-nitrospiropyran monolayers. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 6973-7	3.4	23
50	Structural and electronic properties of atomically thin Bismuth on Au(111). <i>Surface Science</i> , 2019 , 679, 147-153	1.8	23
49	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
48	Deoxidation of graphene oxide nanosheets to extended graphenites by "unzipping" elimination. <i>Journal of Chemical Physics</i> , 2008 , 129, 114702	3.9	22
47	The effect of moiré superstructures on topological edge states in twisted bismuthene homojunctions. <i>Science Advances</i> , 2020 , 6, eaba2773	14.3	21
46	Zigzag C60 chain arrays. <i>Applied Physics Letters</i> , 2008 , 92, 023105	3.4	21
45	In Situ Oxygen Doping of Monolayer MoS for Novel Electronics. <i>Small</i> , 2020 , 16, e2004276	11	21

44	Detecting surface resonance states of Si(111)Ag with a scanning tunneling microscope. <i>Physical Review B</i> , 2004 , 70,	3.3	20
43	Synthesis of bilayer borophene. <i>Nature Chemistry</i> , 2021 ,	17.6	19
42	Superstructure-Induced Splitting of Dirac Cones in Silicene. <i>Physical Review Letters</i> , 2019 , 122, 196801	7.4	14
41	One-dimensional nearly free electron states in borophene. <i>Nanoscale</i> , 2019 , 11, 15605-15611	7.7	14
40	Substitution-induced spin-split surface states in topological insulator (Bi 1-x Sbx)2Te3. <i>Scientific Reports</i> , 2015 , 5, 8830	4.9	14
39	Detecting a Molecule-Surface Hybrid State by an Fe-Coated Tip with a Non-s-Like Orbital. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15603-15606	3.8	14
38	Quasiparticle interference in unconventional 2D systems. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 103001	1.8	13
37	Epitaxial Growth and Transport Properties of Magnetic Weyl Semimetal Co3Sn2S2 Thin Films. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 126-133	4	13
36	Observation of local electronic structures of adatom vacancies in Si(111)(7x7) surface in real space. <i>Physical Review B</i> , 2007 , 75,	3.3	12
35	Realization of Regular-Mixed Quasi-1D Borophene Chains with Long-Range Order. <i>Advanced Materials</i> , 2020 , 32, e2005128	24	10
34	Superconductivity and Fermi-surface nesting in the candidate Dirac semimetal NbC. <i>Physical Review B</i> , 2020 , 102,	3.3	9
33	Observation of a Flat Band in Silicene. <i>Chinese Physics Letters</i> , 2014 , 31, 127303	1.8	8
32	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
31	Experimental evidence of monolayer AlB2 with symmetry-protected Dirac cones. <i>Physical Review B</i> , 2020 , 101,	3.3	7
30	Growth of Atomically Flat Ultra-Thin Ag Films on Si(111) by Introducing a Bi-Ga Buffer Layer. <i>Chinese Physics Letters</i> , 2014 , 31, 128102	1.8	7
29	Delocalized π state between molecules through a surface confined pseudodihydrogen bond. <i>Physical Review Letters</i> , 2010 , 105, 226103	7.4	7
28	One-dimensional molecular chains with dispersive electronic States. <i>Nano Letters</i> , 2009 , 9, 4292-6	11.5	7
27	Topological electronic structure in the antiferromagnet HoSbTe. <i>Physical Review B</i> , 2020 , 102,	3.3	6

26	Wafer-Scale Oxygen-Doped MoS Monolayer.. <i>Small Methods</i> , 2021 , 5, e2100091	12.8	6
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	Scanning tunneling microscopy investigations of unoccupied surface states in two-dimensional semiconducting $\sqrt{3}\sqrt{3}$ -Bi/Si(111) surface. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 20188-20193	3.6	5
23	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	1.2	5
22	Regular Arrangement of Two-Dimensional Clusters of Blue Phosphorene on Ag(111). <i>Chinese Physics Letters</i> , 2020 , 37, 096803	1.8	5
21	Prediction of silicon-based room temperature quantum spin Hall insulator via orbital mixing. <i>Europhysics Letters</i> , 2016 , 113, 67003	1.6	5
20	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
19	Tuning the surface plasmon on Ag(111) by organic molecules. <i>Journal of Applied Physics</i> , 2012 , 112, 023303	3.3	4
18	Variable Coupling Strength of Silicene on Ag(111). <i>Chinese Physics Letters</i> , 2015 , 32, 037302	1.8	3
17	Observation of One-Dimensional Dirac Fermions in Silicon Nanoribbons.. <i>Nano Letters</i> , 2022 , 22, 695-701	11.5	3
16	Manipulation of the Magnetic Anisotropy of Single Mn Atom via Molecular Ligands. <i>Nano Letters</i> , 2021 , 21, 3566-3572	11.5	3
15	Dynamics of Single-Molecule Dissociation by Selective Excitation of Molecular Phonons. <i>Physical Review Letters</i> , 2019 , 123, 246804	7.4	3
14	Experimental Realization of Two-Dimensional Buckled Lieb Lattice. <i>Nano Letters</i> , 2020 , 20, 2537-2543	11.5	2
13	Substrate-mediated electron tunneling through molecule-electrode interfaces. <i>Applied Physics Letters</i> , 2011 , 99, 143122	3.4	2
12	Symmetry Breaking and Reversible Hydrogenation of Two-Dimensional Semiconductor Sn ₂ Bi. <i>Chinese Physics Letters</i> , 2020 , 37, 066802	1.8	2
11	Nonlinear saturable properties of indium selenide film fabricated by molecular beam epitaxy method in near infrared region and Q-switched laser performance for Nd:GdYNbO laser. <i>Optics and Laser Technology</i> , 2022 , 149, 107851	4.2	1
10	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
9	Synthesis of Borophene 2021 , 51-72		1

8	Molecular beam epitaxy fabrication of two-dimensional materials 2020 , 103-134		1
7	Realizing quinary charge states of solitary defects in two-dimensional intermetallic semiconductor.. <i>National Science Review</i> , 2022 , 9, nwab070	10.8	1
6	Giant Bandgap Engineering in Two-Dimensional Ferroelectric InSe .. <i>Journal of Physical Chemistry Letters</i> , 2022 , 3261-3268	6.4	1
5	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
4	Realization of Large Scale, 2D van der Waals Heterojunction of SnS / SnS by Reversible Sulfurization. <i>Small</i> , 2021 , 17, e2101154	11	0
3	Inside Back Cover: Wafer-Scale Oxygen-Doped MoS_2 Monolayer (Small Methods 6/2021). <i>Small Methods</i> , 2021 , 5, 2170026	12.8	
2	Silicene on $\text{Ag}(111)$ at Low Temperatures. <i>Nanoscience and Technology</i> , 2018 , 179-196	0.6	
1	Borophene 2022 , 73-106		