

Lan Chen

List of Publications by Year in descending order

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105
papers

8,675
citations

76196

40
h-index

42291

92
g-index

107
all docs

107
docs citations

107
times ranked

7120
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental realization of two-dimensional boron sheets. <i>Nature Chemistry</i> , 2016, 8, 563-568.	6.6	1,398
2	Evidence of Silicene in Honeycomb Structures of Silicon on Ag(111). <i>Nano Letters</i> , 2012, 12, 3507-3511.	4.5	1,190
3	Evidence for Dirac Fermions in a Honeycomb Lattice Based on Silicon. <i>Physical Review Letters</i> , 2012, 109, 056804.	2.9	634
4	Controlling the Kondo Effect of an Adsorbed Magnetic Ion Through Its Chemical Bonding. <i>Science</i> , 2005, 309, 1542-1544.	6.0	594
5	Experimental realization of honeycomb borophene. <i>Science Bulletin</i> , 2018, 63, 282-286.	4.3	397
6	Dirac Fermions in Borophene. <i>Physical Review Letters</i> , 2017, 118, 096401.	2.9	353
7	Experimental realization of two-dimensional Dirac nodal line fermions in monolayer Cu ₂ Si. <i>Nature Communications</i> , 2017, 8, 1007.	5.8	219
8	Spontaneous Symmetry Breaking and Dynamic Phase Transition in Monolayer Silicene. <i>Physical Review Letters</i> , 2013, 110, 085504.	2.9	205
9	Direct evidence of metallic bands in a monolayer boron sheet. <i>Physical Review B</i> , 2016, 94, .	1.1	152
10	Mechanism for Negative Differential Resistance in Molecular Electronic Devices: Local Orbital Symmetry Matching. <i>Physical Review Letters</i> , 2007, 99, 146803.	2.9	150
11	Quasi-freestanding epitaxial silicene on Ag(111) by oxygen intercalation. <i>Science Advances</i> , 2016, 2, e1600067.	4.7	138
12	Realization of flat band with possible nontrivial topology in electronic Kagome lattice. <i>Science Advances</i> , 2018, 4, eaau4511.	4.7	131
13	Ordered and Reversible Hydrogenation of Silicene. <i>Physical Review Letters</i> , 2015, 114, 126101.	2.9	127
14	2D Boron Sheets: Structure, Growth, and Electronic and Thermal Transport Properties. <i>Advanced Functional Materials</i> , 2020, 30, 1904349.	7.8	124
15	Observation of a possible superconducting gap in silicene on Ag(111) surface. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	119
16	Synthesis of borophene nanoribbons on Ag(110) surface. <i>Physical Review Materials</i> , 2017, 1, .	0.9	113
17	Synthesis of bilayer borophene. <i>Nature Chemistry</i> , 2022, 14, 25-31.	6.6	105
18	From Silicene to Half-Silicane by Hydrogenation. <i>ACS Nano</i> , 2015, 9, 11192-11199.	7.3	97

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19	Discovery of 2D Anisotropic Dirac Cones. <i>Advanced Materials</i> , 2018, 30, 1704025.	11.1	91
20	Strain-induced band engineering in monolayer stanene on Sb(111). <i>Physical Review Materials</i> , 2017, 1, .	0.9	91
21	Observation of Dirac Cone Warping and Chirality Effects in Silicene. <i>ACS Nano</i> , 2013, 7, 9049-9054.	7.3	88
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 _{1-x} Sb _x) 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	C ₆₀ Molecular Chains on 1,4-Bis(6-mercaptohexyl)benzene Nanostripes. <i>Small</i> , 2007, 3, 2015-2018.	5.2	63
31	Unveiling Metal-Cage Hybrid States in a Single Endohedral Metallofullerene. <i>Physical Review Letters</i> , 2003, 91, 185504.	2.9	61
32	Molecular orientation of 3, 4, 9, 10-perylene-tetracarboxylic-dianhydride thin films at organic heterojunction interfaces. <i>Applied Physics Letters</i> , 2007, 91, 114102.	1.5	60
33	Preferential Trapping of C ₆₀ in Nanomesh Voids. <i>Journal of the American Chemical Society</i> , 2008, 130, 2720-2721.	6.6	60
34	In Situ Oxygen Doping of Monolayer MoS ₂ for Novel Electronics. <i>Small</i> , 2020, 16, e2004276.	5.2	54
35	Tunable Arrays of C ₆₀ Molecular Chains. <i>Advanced Materials</i> , 2008, 20, 484-488.	11.1	53
36	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

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37	Recent progress on borophene: Growth and structures. <i>Frontiers of Physics</i> , 2018, 13, 1.	2.4	50
38	Orientationally Ordered C ₆₀ on <i>p</i> -Sexiphenyl Nanostripes on Ag(111). <i>ACS Nano</i> , 2008, 2, 693-698.	7.3	48
39	Nonlocal Chemical Reactivity at Organic-Metal Interfaces. <i>ACS Nano</i> , 2009, 3, 3684-3690.	7.3	48
40	Geometric and electronic structure of aC ₆₀ monolayer on Ag(100). <i>Physical Review B</i> , 2007, 75, .	1.1	42
41	The effect of moiré superstructures on topological edge states in twisted bismuthene homojunctions. <i>Science Advances</i> , 2020, 6, eaba2773.	4.7	39
42	Self-assembled organic donor/acceptor nanojunction arrays. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	38
43	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
44	Observation of van Hove Singularities in Twisted Silicene Multilayers. <i>ACS Central Science</i> , 2016, 2, 517-521.	5.3	37
45	Observation of Topological Flat Bands in the Kagome Semiconductor Nb ₃ Cl ₈ . <i>Nano Letters</i> , 2022, 22, 4596-4602.	4.5	37
46	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
47	Chen <i>et al.</i> Reply. <i>Physical Review Letters</i> , 2013, 110, 229702.	2.9	30
48	Ordered chlorinated monolayer silicene structures. <i>Physical Review B</i> , 2016, 93, .	1.1	30
49	Proximity-induced magnetism and an anomalous Hall effect in Bi ₂ Se ₃ /LaCoO ₃ : a topological insulator/ferromagnetic insulator thin film heterostructure. <i>Nanoscale</i> , 2018, 10, 10041-10049.	2.8	30
50	Realization of Regular-Mixed Quasi-1D Borophene Chains with Long-Range Order. <i>Advanced Materials</i> , 2020, 32, e2005128.	11.1	30
51	Wafer-Scale Oxygen-Doped MoS ₂ Monolayer. <i>Small Methods</i> , 2021, 5, e2100091.	4.6	30
52	Structural and electronic properties of atomically thin Bismuth on Au(111). <i>Surface Science</i> , 2019, 679, 147-153.	0.8	29
53	Superconductivity and Fermi-surface nesting in the candidate Dirac semimetal NbC. <i>Physical Review B</i> , 2020, 102, .	1.1	29
54	Multilayered silicene: the bottom-up approach for a weakly relaxed Si(111) with Dirac surface states. <i>Nanoscale</i> , 2015, 7, 15880-15885.	2.8	28

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55	Structure and quantum well states in silicene nanoribbons on Ag(110). Surface Science, 2016, 645, 74-79.	0.8	27
56	Quasiparticle interference in unconventional 2D systems. Journal of Physics Condensed Matter, 2017, 29, 103001.	0.7	26
57	Superstructure-Induced Splitting of Dirac Cones in Silicene. Physical Review Letters, 2019, 122, 196801.	2.9	26
58	One-dimensional nearly free electron states in borophene. Nanoscale, 2019, 11, 15605-15611.	2.8	25
59	Observation of Hierarchical Chiral Structures in 8-Nitrospiropyran Monolayers. Journal of Physical Chemistry B, 2007, 111, 6973-6977.	1.2	23
60	Deoxidation of graphene oxide nanosheets to extended graphenites by "unzipping" elimination. Journal of Chemical Physics, 2008, 129, 114702.	1.2	23
61	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
62	Topological electronic structure in the antiferromagnet HoSbTe. Physical Review B, 2020, 102, .	1.1	22
63	"Zigzag" C60 chain arrays. Applied Physics Letters, 2008, 92, 023105.	1.5	21
64	Detecting surface resonance states of $\text{Si}(111)\sqrt{3}\times\sqrt{3}$ Ag with a scanning tunneling microscope. Physical Review B, 2004, 70, .	1.1	20
65	Experimental evidence of monolayer AlB ₂ with symmetry-protected Dirac cones. Physical Review B, 2020, 101, .	1.1	20
66	Substitution-induced spin-split surface states in topological insulator $(\text{Bi}_{1-x}\text{Sbx})_2\text{Te}_3$. Scientific Reports, 2015, 5, 8830.	1.6	19
67	Regular Arrangement of Two-Dimensional Clusters of Blue Phosphorene on Ag(111). Chinese Physics Letters, 2020, 37, 096803.	1.3	17
68	Detecting a Molecule Surface Hybrid State by an Fe-Coated Tip with a Non-s-Like Orbital. Journal of Physical Chemistry C, 2008, 112, 15603-15606.	1.5	14
69	Observation of local electronic structures of adatom vacancies in $\text{Si}(111)\sqrt{7}\times\sqrt{7}$ surface in real space. Physical Review B, 2007, 75, .	1.1	12
70	A modified Wenzel model for water wetting on van der Waals layered materials with topographic surfaces. Nanoscale, 2017, 9, 3843-3849.	2.8	12
71	Experimental Realization of Two-Dimensional Buckled Lieb Lattice. Nano Letters, 2020, 20, 2537-2543.	4.5	12
72	Observation of One-Dimensional Dirac Fermions in Silicon Nanoribbons. Nano Letters, 2022, 22, 695-701.	4.5	12

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73	Low-temperature, ultrahigh-vacuum tip-enhanced Raman spectroscopy combined with molecular beam epitaxy for in situ two-dimensional materials TM studies. Review of Scientific Instruments, 2018, 89, 053107.	0.6	10
74	Realization of Large Scale, 2D van der Waals Heterojunction of SnS ₂ /SnS by Reversible Sulfurization. Small, 2021, 17, e2101154.	5.2	10
75	Observation of topological edge states in the quantum spin Hall insulator Ta_{2}Te_5 . Physical Review B, 2021, 104, .	1.0	2
76	Delocalized H^+ State between Molecules through a Surface Confined Pseudodihydrogen Bond. Physical Review Letters, 2010, 105, 226103.	2.9	9
77	Observation of a Flat Band in Silicene. Chinese Physics Letters, 2014, 31, 127303.	1.3	9
78	Abnormal phase transition between two-dimensional high-density liquid crystal and low-density crystalline solid phases. Nature Communications, 2018, 9, 198.	5.8	9
79	Experimental observation of Dirac cones in artificial graphene lattices. Physical Review B, 2020, 102, .	1.1	9
80	One-Dimensional Molecular Chains with Dispersive Electronic States. Nano Letters, 2009, 9, 4292-4296.	4.5	8
81	Scanning tunneling microscopy investigations of unoccupied surface states in two-dimensional semiconducting In_2S_3 - $\text{Bi}/\text{Si}(111)$ surface. Physical Chemistry Chemical Physics, 2018, 20, 20188-20193.	1.3	8
82	Growth of Atomically Flat Ultra-Thin Ag Films on Si(111) by Introducing a In_2S_3 -Ga Buffer Layer. Chinese Physics Letters, 2014, 31, 128102.	1.3	7
83	Growth and transport properties of topological insulator Bi_2Se_3 thin film on a ferromagnetic insulating substrate. Chinese Physics B, 2018, 27, 076801.	0.7	7
84	<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
85	Giant Bandgap Engineering in Two-Dimensional Ferroelectric In_2Se_3 . Journal of Physical Chemistry Letters, 2022, 13, 3261-3268.	2.1	7
86	Prediction of silicon-based room temperature quantum spin Hall insulator via orbital mixing. Europhysics Letters, 2016, 113, 67003.	0.7	6
87	Topological Crystalline Insulator Candidate ErAs with Hourglass Fermion and Magnetic-Tuned Topological Phase Transition. Advanced Materials, 2022, 34, .	11.1	6
88	Tuning the surface plasmon on Ag(111) by organic molecules. Journal of Applied Physics, 2012, 112, 023302.	1.1	5
89	Precise determination of moiré pattern in monolayer FeO(111) films on Au(111) by scanning tunneling microscopy. Physical Review Materials, 2020, 4, .	0.9	5
90	Variable Coupling Strength of Silicene on Ag(111). Chinese Physics Letters, 2015, 32, 037302.	1.3	4

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91	Dynamics of Single-Molecule Dissociation by Selective Excitation of Molecular Phonons. Physical Review Letters, 2019, 123, 246804.	2.9	4
92	Molecular beam epitaxy fabrication of two-dimensional materials. , 2020, , 103-134.		4
93	Vibrational Property of $\hat{1}\pm$ -Borophene Determined by Tip-Enhanced Raman Spectroscopy. Molecules, 2022, 27, 834.	1.7	4
94	Real-space detection and manipulation of two-dimensional quantum well states in few-layer MoS_2 . Physical Review B, 2022, 105, .	1.1	4
95	Engineering novel surface electronic states via complex supramolecular tessellations. Nanoscale, 2022, , .	2.8	4
96	Realizing quinary charge states of solitary defects in two-dimensional intermetallic semiconductor. National Science Review, 2022, 9, nwab070.	4.6	3
97	Substrate-mediated electron tunneling through molecule-electrode interfaces. Applied Physics Letters, 2011, 99, 143122.	1.5	2
98	Symmetry Breaking and Reversible Hydrogenation of Two-Dimensional Semiconductor Sn_2Bi . Chinese Physics Letters, 2020, 37, 066802.	1.3	2
99	Creating supramolecular semiregular Archimedean tilings via gas-mediated deprotonation of a terminal alkyne derivative. CrystEngComm, 0, , .	1.3	2
100	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. Optics and Laser Technology, 2022, 149, 107851.	2.2	2
101	Melamine Self-assembly and Dehydrogenation on Ag(111) Studied by Tip-enhanced Raman Spectroscopy. Journal of Chemical Physics, 0, , .	1.2	1
102	Silicene on Ag(111) at Low Temperatures. Nanoscience and Technology, 2018, , 179-196.	1.5	0
103	Inside Back Cover: Wafer-Scale Oxygen-Doped MoS_2 Monolayer (Small Methods 6/2021). Small Methods, 2021, 5, 2170026.	4.6	0
104	Hydrogen adsorption on silicene. Chinese Science Bulletin, 2015, 60, 2719-2725.	0.4	0
105	Borophene. , 2022, , 73-106.		0