Lan Chen

List of Publications by Year in Descending Order

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	Observation of One-Dimensional Dirac Fermions in Silicon Nanoribbons.. *Nano Letters*, **2022**, 22, 695-701	11.5	3
96	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	4.2	1
95	Realizing quinary charge states of solitary defects in two-dimensional intermetallic semiconductor.. *National Science Review*, **2022**, 9, nwab070	10.8	1
94	Giant Bandgap Engineering in Two-Dimensional Ferroelectric InSe.. *Journal of Physical Chemistry Letters*, **2022**, 3261-3268	6.4	1
93	Borophene **2022**, 73-106		
92	Synthesis of bilayer borophene. *Nature Chemistry*, **2021**,	17.6	19
91	Synthesis of Borophene **2021**, 51-72		1
90	Manipulation of the Magnetic Anisotropy of Single Mn Atom via Molecular Ligands. *Nano Letters*, **2021**, 21, 3566-3572	11.5	3
89	Wafer-Scale Oxygen-Doped MoS Monolayer.. *Small Methods*, **2021**, 5, e2100091	12.8	6
88	Inside Back Cover: Wafer-Scale Oxygen-Doped MoS2 Monolayer (Small Methods 6/2021). *Small Methods*, **2021**, 5, 2170026	12.8	
87	Realization of Large Scale, 2D van der Waals Heterojunction of SnS /SnS by Reversible Sulfurization. *Small*, **2021**, 17, e2101154	11	0
86	Observation of topological edge states in the quantum spin Hall insulator Ta2Pd3Te5. *Physical Review B*, **2021**, 104,	3.3	1
85	Superconductivity and Fermi-surface nesting in the candidate Dirac semimetal NbC. *Physical Review B*, **2020**, 102,	3.3	9
84	The effect of moir superstructures on topological edge states in twisted bismuthene homojunctions. *Science Advances*, **2020**, 6, eaba2773	14.3	21
83	Experimental Realization of Two-Dimensional Buckled Lieb Lattice. *Nano Letters*, **2020**, 20, 2537-2543	11.5	2
82	Experimental evidence of monolayer AlB2 with symmetry-protected Dirac cones. *Physical Review B*, **2020**, 101,	3.3	7
81	Precise determination of moir pattern in monolayer FeO(111) films on Au(111) by scanning tunneling microscopy. *Physical Review Materials*, **2020**, 4,	3.2	1

80	Epitaxial Growth and Transport Properties of Magnetic Weyl Semimetal Co3Sn2S2 Thin Films. *ACS Applied Electronic Materials*, **2020**, 2, 126-133	4	13
79	Molecular beam epitaxy fabrication of two-dimensional materials **2020**, 103-134		1
78	Topological electronic structure in the antiferromagnet HoSbTe. *Physical Review B*, **2020**, 102,	3.3	6
77	Symmetry Breaking and Reversible Hydrogenation of Two-Dimensional Semiconductor Sn2Bi. *Chinese Physics Letters*, **2020**, 37, 066802	1.8	2
76	Realization of Regular-Mixed Quasi-1D Borophene Chains with Long-Range Order. *Advanced Materials*, **2020**, 32, e2005128	24	10
75	In Situ Oxygen Doping of Monolayer MoS for Novel Electronics. *Small*, **2020**, 16, e2004276	11	21
74	Regular Arrangement of Two-Dimensional Clusters of Blue Phosphorene on Ag(111). *Chinese Physics Letters*, **2020**, 37, 096803	1.8	5
73	2D Boron Sheets: Structure, Growth, and Electronic and Thermal Transport Properties. *Advanced Functional Materials*, **2020**, 30, 1904349	15.6	69
72	Discovery of Weyl Nodal Lines in a Single-Layer Ferromagnet. *Physical Review Letters*, **2019**, 123, 116401	7.4	37
71	Superstructure-Induced Splitting of Dirac Cones in Silicene. *Physical Review Letters*, **2019**, 122, 196801	7.4	14
70	Raman Spectroscopy of Two-Dimensional Borophene Sheets. *ACS Nano*, **2019**, 13, 4133-4139	16.7	40
69	One-dimensional nearly free electron states in borophene. *Nanoscale*, **2019**, 11, 15605-15611	7.7	14
68	Dynamics of Single-Molecule Dissociation by Selective Excitation of Molecular Phonons. *Physical Review Letters*, **2019**, 123, 246804	7.4	3
67	Structural and electronic properties of atomically thin Bismuth on Au(111). *Surface Science*, **2019**, 679, 147-153	1.8	23
66	Experimental realization of honeycomb borophene. *Science Bulletin*, **2018**, 63, 282-286	10.6	243
65	Abnormal phase transition between two-dimensional high-density liquid crystal and low-density crystalline solid phases. *Nature Communications*, **2018**, 9, 198	17.4	5
64	Proximity-induced magnetism and an anomalous Hall effect in BiSe/LaCoO: a topological insulator/ferromagnetic insulator thin film heterostructure. *Nanoscale*, **2018**, 10, 10041-10049	7.7	22
63	The Pentagonal Nature of Self-Assembled Silicon Chains and Magic Clusters on Ag(110). *Nano Letters*, **2018**, 18, 2937-2942	11.5	39

62	Recent progress on borophene: Growth and structures. *Frontiers of Physics*, **2018**, 13, 1	3.7	35
61	Scanning tunneling microscopy investigations of unoccupied surface states in two-dimensional semiconducting □□-Bi/Si(111) surface. *Physical Chemistry Chemical Physics*, **2018**, 20, 20188-20193	3.6	5
60	Growth and transport properties of topological insulator Bi 2 Se 3 thin film on a ferromagnetic insulating substrate. *Chinese Physics B*, **2018**, 27, 076801	1.2	5
59	Discovery of 2D Anisotropic Dirac Cones. *Advanced Materials*, **2018**, 30, 1704025	24	62
58	Realization of flat band with possible nontrivial topology in electronic Kagome lattice. *Science Advances*, **2018**, 4, eaau4511	14.3	62
57	Silicene on Ag(111) at Low Temperatures. *Nanoscience and Technology*, **2018**, 179-196	0.6	
56	Binary Two-Dimensional Honeycomb Lattice with Strong Spin-Orbit Coupling and Electron-Hole Asymmetry. *Physical Review Letters*, **2018**, 121, 126801	7.4	27
55	Low-temperature, ultrahigh-vacuum tip-enhanced Raman spectroscopy combined with molecular beam epitaxy for in situ two-dimensional materials' studies. *Review of Scientific Instruments*, **2018**, 89, 053107	1.7	5
54	Metastable phases of 2D boron sheets on Ag(1 1 1). *Journal of Physics Condensed Matter*, **2017**, 29, 095002	1.8	57
53	Quasiparticle interference in unconventional 2D systems. *Journal of Physics Condensed Matter*, **2017**, 29, 103001	1.8	13
52	A modified Wenzel model for water wetting on van der Waals layered materials with topographic surfaces. *Nanoscale*, **2017**, 9, 3843-3849	7.7	7
51	Dirac Fermions in Borophene. *Physical Review Letters*, **2017**, 118, 096401	7.4	256
50	Experimental realization of two-dimensional Dirac nodal line fermions in monolayer CuSi. *Nature Communications*, **2017**, 8, 1007	17.4	138
49	Vibrational Properties of a Monolayer Silicene Sheet Studied by Tip-Enhanced Raman Spectroscopy. *Physical Review Letters*, **2017**, 119, 196803	7.4	53
48	Synthesis of borophene nanoribbons on Ag(110) surface. *Physical Review Materials*, **2017**, 1,	3.2	78
47	Strain-induced band engineering in monolayer stanene on Sb(111). *Physical Review Materials*, **2017**, 1,	3.2	75
46	Ordered chlorinated monolayer silicene structures. *Physical Review B*, **2016**, 93,	3.3	26
45	Direct evidence of metallic bands in a monolayer boron sheet. *Physical Review B*, **2016**, 94,	3.3	113

44	Quasi-freestanding epitaxial silicene on Ag(111) by oxygen intercalation. *Science Advances*, **2016**, 2, e1600067	11.5	112
43	Experimental realization of two-dimensional boron sheets. *Nature Chemistry*, **2016**, 8, 563-8	17.6	996
42	Structure and quantum well states in silicene nanoribbons on Ag(110). *Surface Science*, **2016**, 645, 74-79	1.8	25
41	Prediction of silicon-based room temperature quantum spin Hall insulator via orbital mixing. *Europhysics Letters*, **2016**, 113, 67003	1.6	5
40	Direct evidence of interaction-induced Dirac cones in a monolayer silicene/Ag(111) system. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 14656-14661	11.5	52
39	Strained monolayer germanene with 1 □ 1 lattice on Sb(111). *2D Materials*, **2016**, 3, 045005	5.9	48
38	Observation of van Hove Singularities in Twisted Silicene Multilayers. *ACS Central Science*, **2016**, 2, 517-21	16.8	28
37	Variable Coupling Strength of Silicene on Ag(111). *Chinese Physics Letters*, **2015**, 32, 037302	1.8	3
36	Ordered and reversible hydrogenation of silicene. *Physical Review Letters*, **2015**, 114, 126101	7.4	106
35	From Silicene to Half-Silicane by Hydrogenation. *ACS Nano*, **2015**, 9, 11192-9	16.7	76
34	Multilayered silicene: the bottom-up approach for a weakly relaxed Si(111) with Dirac surface states. *Nanoscale*, **2015**, 7, 15880-5	7.7	26
33	Investigation of electron-phonon coupling in epitaxial silicene by in situ Raman spectroscopy. *Physical Review B*, **2015**, 91,	3.3	59
32	Delocalized Surface State in Epitaxial Si(111) Film with Spontaneous □ □ Superstructure. *Scientific Reports*, **2015**, 5, 13590	4.9	33
31	Substitution-induced spin-splitted surface states in topological insulator (Bi 1-x Sbx)2Te3. *Scientific Reports*, **2015**, 5, 8830	4.9	14
30	Observation of a Flat Band in Silicene. *Chinese Physics Letters*, **2014**, 31, 127303	1.8	8
29	Growth of Atomically Flat Ultra-Thin Ag Films on Si(111) by Introducing a □ □-Ga Buffer Layer. *Chinese Physics Letters*, **2014**, 31, 128102	1.8	7
28	Observation of Dirac cone warping and chirality effects in silicene. *ACS Nano*, **2013**, 7, 9049-54	16.7	83
27	Chen et al. reply. *Physical Review Letters*, **2013**, 110, 229702	7.4	24

26	Spontaneous symmetry breaking and dynamic phase transition in monolayer silicene. *Physical Review Letters*, **2013**, 110, 085504	7.4	193
25	Observation of a possible superconducting gap in silicene on Ag(111) surface. *Applied Physics Letters*, **2013**, 102, 081602	3.4	110
24	Highly tunable electron transport in epitaxial topological insulator (Bi1-xSbx)2Te3 thin films. *Applied Physics Letters*, **2012**, 101, 123111	3.4	68
23	Evidence for Dirac fermions in a honeycomb lattice based on silicon. *Physical Review Letters*, **2012**, 109, 056804	7.4	577
22	Evidence of silicene in honeycomb structures of silicon on Ag(111). *Nano Letters*, **2012**, 12, 3507-11	11.5	1055
21	Tuning the surface plasmon on Ag(111) by organic molecules. *Journal of Applied Physics*, **2012**, 112, 023102	2.5	4
20	Substrate-mediated electron tunneling through molecule-electrode interfaces. *Applied Physics Letters*, **2011**, 99, 143122	3.4	2
19	Delocalized state between molecules through a surface confined pseudodihydrogen bond. *Physical Review Letters*, **2010**, 105, 226103	7.4	7
18	Nonlocal chemical reactivity at organic-metal interfaces. *ACS Nano*, **2009**, 3, 3684-90	16.7	41
17	One-dimensional molecular chains with dispersive electronic States. *Nano Letters*, **2009**, 9, 4292-6	11.5	7
16	Orientationally ordered C60 on p-sexiphenyl nanostripes on Ag111. *ACS Nano*, **2008**, 2, 693-8	16.7	47
15	Preferential trapping of C60 in nanomesh voids. *Journal of the American Chemical Society*, **2008**, 130, 2720-1	16.4	56
14	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	3.8	14
13	Deoxidation of graphene oxide nanosheets to extended graphenites by "unzipping" elimination. *Journal of Chemical Physics*, **2008**, 129, 114702	3.9	22
12	Self-assembled organic donor/acceptor nanojunction arrays. *Applied Physics Letters*, **2008**, 92, 193301	3.4	34
11	Zigzag C60 chain arrays. *Applied Physics Letters*, **2008**, 92, 023105	3.4	21
10	Tunable Arrays of C60 Molecular Chains. *Advanced Materials*, **2008**, 20, 484-488	24	51
9	Observation of hierarchical chiral structures in 8-nitrospiropyran monolayers. *Journal of Physical Chemistry B*, **2007**, 111, 6973-7	3.4	23

8	Mechanism for negative differential resistance in molecular electronic devices: local orbital symmetry matching. *Physical Review Letters*, **2007**, 99, 146803	7.4	135
7	C60 molecular chains on alpha-sexithiophene nanostripes. *Small*, **2007**, 3, 2015-8	11	59
6	Observation of local electronic structures of adatom vacancies in Si(111)(7×7) surface in real space. *Physical Review B*, **2007**, 75,	3.3	12
5	Geometric and electronic structure of a C60 monolayer on Ag(100). *Physical Review B*, **2007**, 75,	3.3	39
4	Molecular orientation of 3, 4, 9, 10-perylene-tetracarboxylic-dianhydride thin films at organic heterojunction interfaces. *Applied Physics Letters*, **2007**, 91, 114102	3.4	59
3	Controlling the Kondo effect of an adsorbed magnetic ion through its chemical bonding. *Science*, **2005**, 309, 1542-4	33.3	543
2	Detecting surface resonance states of Si(111)√3×√3-Ag with a scanning tunneling microscope. *Physical Review B*, **2004**, 70,	3.3	20
1	Unveiling metal-cage hybrid states in a single endohedral metallofullerene. *Physical Review Letters*, **2003**, 91, 185504	7.4	56