

Xiao Lin

List of Publications by Year in Descending Order

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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.

99
papers

4,803
citations

31
h-index

68
g-index

102
ext. papers

5,364
ext. citations

8
avg, IF

4.86
L-index

#	Paper	IF	Citations
99	Observation of an Incommensurate Charge Density Wave in Monolayer $\text{TiSe}_2/\text{CuSe}/\text{Cu}(111)$ Heterostructure.. <i>Physical Review Letters</i> , 2022 , 128, 026401	7.4	1
98	Se-concentration dependent superstructure transformations of CuSe monolayer on Cu(111) substrate. <i>2D Materials</i> , 2022 , 9, 015017	5.9	0
97	Two distinct superconducting states controlled by orientations of local wrinkles in LiFeAs. <i>Nature Communications</i> , 2021 , 12, 6312	17.4	1
96	Direct growth of wafer-scale highly oriented graphene on sapphire. <i>Science Advances</i> , 2021 , 7, eabk011514.3	14.3	5
95	Intrinsically Honeycomb-Patterned Hydrogenated Graphene. <i>Small</i> , 2021 , e2102687	11	
94	Controllable fabrication and photocatalytic performance of nanoscale single-layer MoSe islands with substantial edges on an Ag(111) substrate. <i>Nanoscale</i> , 2021 , 13, 19165-19171	7.7	3
93	Three-dimensional microstructural characterization of solid oxide electrolysis cell with $\text{Ce}_{0.8}\text{Gd}_{0.2}\text{O}_2$ -infiltrated Ni/YSZ electrode using focused ion beam-scanning electron microscopy. <i>Journal of Solid State Electrochemistry</i> , 2021 , 25, 1633-1644	2.6	0
92	Growth of LaCoO_3 crystals in molten salt: effects of synthesis conditions. <i>CrystEngComm</i> , 2021 , 23, 671-677	6.7	2
91	Edge- and strain-induced band bending in bilayer-monolayer Pb_2Se_3 heterostructures. <i>Chinese Physics B</i> , 2021 , 30, 018105	1.2	5
90	Intercalation of germanium oxide beneath large-area and high-quality epitaxial graphene on Ir(111) substrate*. <i>Chinese Physics B</i> , 2021 , 30, 048102	1.2	2
89	Honeycomb AgSe Monolayer Nanosheets for Studying Two-dimensional Dirac Nodal Line Fermions. <i>ACS Applied Nano Materials</i> , 2021 , 4, 8845-8850	5.6	5
88	Novel two-dimensional transition metal chalcogenides created by epitaxial growth. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	2
87	A Tunable Amorphous Heteronuclear Iron and Cobalt Imidazolate Framework Analogue for Efficient Oxygen Evolution Reactions. <i>European Journal of Inorganic Chemistry</i> , 2021 , 2021, 702-707	2.3	1
86	5f Covalency Synergistically Boosting Oxygen Evolution of UCoO Catalyst. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	4
85	Localized spin-orbit polaron in magnetic Weyl semimetal CoSnS . <i>Nature Communications</i> , 2020 , 11, 561317.4	17.4	26
84	Epitaxial fabrication of monolayer copper arsenide on Cu(111). <i>Chinese Physics B</i> , 2020 , 29, 077301	1.2	3
83	Force-Activated Isomerization of a Single Molecule. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10673-10680	16.4	7

82	Sizable Band Gap in Epitaxial Bilayer Graphene Induced by Silicene Intercalation. <i>Nano Letters</i> , 2020 , 20, 2674-2680	11.5	14
81	Air-Stable Monolayer Cu Se Exhibits a Purely Thermal Structural Phase Transition. <i>Advanced Materials</i> , 2020 , 32, e1908314	24	12
80	Experimental Synthesis of Strained Monolayer Silver Arsenide on Ag(111) Substrates. <i>Chinese Physics Letters</i> , 2020 , 37, 068103	1.8	8
79	Unexpected Roles of Alkali-Metal Cations in the Assembly of Low-Valent Uranium Sulfate Molecular Complexes. <i>Inorganic Chemistry</i> , 2020 , 59, 2348-2357	5.1	9
78	Epitaxial synthesis and electronic properties of monolayer Pd ₂ Se ₃ . <i>Chinese Physics B</i> , 2020 , 29, 098102	1.2	4
77	On-Surface Synthesis and Characterization of Polythiophene Chains. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 764-768	3.8	0
76	Layer-by-Layer Epitaxy of Porphyrin Ligand Fe(II)-Fe(III) Nanoarchitectures for Advanced Metal-Organic Framework Growth. <i>ACS Applied Nano Materials</i> , 2020 , 3, 11752-11759	5.6	5
75	Insulating SiO ₂ under Centimeter-Scale, Single-Crystal Graphene Enables Electronic-Device Fabrication. <i>Nano Letters</i> , 2020 , 20, 8584-8591	11.5	12
74	Centimeter-scale, single-crystalline, AB-stacked bilayer graphene on insulating substrates. <i>2D Materials</i> , 2019 , 6, 045044	5.9	10
73	Real-space observation on standing configurations of phenylacetylene on Cu (111) by scanning probe microscopy. <i>Chinese Physics B</i> , 2019 , 28, 066801	1.2	0
72	Epitaxial fabrication of two-dimensional TiTe ₂ monolayer on Au(111) substrate with Te as buffer layer. <i>Chinese Physics B</i> , 2019 , 28, 056801	1.2	3
71	Interaction of two symmetric monovacancy defects in graphene. <i>Chinese Physics B</i> , 2019 , 28, 046801	1.2	2
70	Spontaneous Formation of 1D Pattern in Monolayer VSe with Dispersive Adsorption of Pt Atoms for HER Catalysis. <i>Nano Letters</i> , 2019 , 19, 4897-4903	11.5	31
69	Direct probing of imperfection-induced electrical degradation in millimeter-scale graphene on SiO ₂ substrates. <i>2D Materials</i> , 2019 , 6, 045033	5.9	1
68	Study of the relationship between the local geometric structure and the stability of La _{0.6} Sr _{0.4} MnO ₃ and La _{0.6} Sr _{0.4} FeO ₃ electrodes. <i>Nuclear Science and Techniques/Hewuli</i> , 2019 , 30, 1	2.1	3
67	Epitaxial Growth of Honeycomb Monolayer CuSe with Dirac Nodal Line Fermions. <i>Advanced Materials</i> , 2018 , 30, e1707055	24	72
66	Recovery of edge states of graphene nanoislands on an iridium substrate by silicon intercalation. <i>Nano Research</i> , 2018 , 11, 3722-3729	10	8
65	Modification of the Potential Landscape of Molecular Rotors on Au(111) by the Presence of an STM Tip. <i>Nano Letters</i> , 2018 , 18, 4704-4709	11.5	17

64	Tuning the morphology of chevron-type graphene nanoribbons by choice of annealing temperature. <i>Nano Research</i> , 2018 , 11, 6190-6196	10	13
63	High quality PdTe ₂ thin films grown by molecular beam epitaxy. <i>Chinese Physics B</i> , 2018 , 27, 086804	1.2	23
62	Controllable Density of Atomic Bromine in a Two-Dimensional Hydrogen Bond Network. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 25681-25684	3.8	4
61	Construction of bilayer PdSe ₂ on epitaxial graphene. <i>Nano Research</i> , 2018 , 11, 5858-5865	10	62
60	Epitaxial growth and physical properties of 2D materials beyond graphene: from monatomic materials to binary compounds. <i>Chemical Society Reviews</i> , 2018 , 47, 6073-6100	58.5	63
59	Identifying and Visualizing the Edge Terminations of Single-Layer MoSe Island Epitaxially Grown on Au(111). <i>ACS Nano</i> , 2017 , 11, 1689-1695	16.7	35
58	Intrinsically patterned two-dimensional materials for selective adsorption of molecules and nanoclusters. <i>Nature Materials</i> , 2017 , 16, 717-721	27	105
57	Construction of Two-Dimensional Chiral Networks through Atomic Bromine on Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 326-331	6.4	23
56	Sulfur-doped graphene nanoribbons with a sequence of distinct band gaps. <i>Nano Research</i> , 2017 , 10, 3377-3384	10	33
55	Construction of single-crystalline supramolecular networks of perchlorinated hexa-peri-hexabenzocoronene on Au(111). <i>Journal of Chemical Physics</i> , 2015 , 142, 101911	3.9	8
54	Synthesis of palladium nanoparticles on TiO ₂ (110) using a beta-diketonate precursor. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 6470-7	3.6	7
53	Uniform Doping of Titanium in Hematite Nanorods for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14072-8	9.5	38
52	Commensurate to incommensurate transition in graphene on hexagonal boron nitride. <i>Nature Physics</i> , 2014 , 10, 451-456	16.2	582
51	Recent progress in degradation and stabilization of organic solar cells. <i>Journal of Power Sources</i> , 2014 , 264, 168-183	8.9	113
50	Separation-dependence evolution of inter-particle interaction in the oriented-attachment growth of nanorods: a case of hexagonal nanocrystals. <i>Analyst, The</i> , 2014 , 139, 3393-7	5	1
49	Dimerization Induced Deprotonation of Water on RuO ₂ (110). <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3445-50	6.4	40
48	Electrochemical devices with optimized gas tightness for the diffusivity measurement in fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 2334-2339	6.7	5
47	Coulombic interaction in the colloidal oriented-attachment growth of tetragonal nanorods. <i>Chinese Physics B</i> , 2014 , 23, 056103	1.2	3

46	High quality sub-monolayer, monolayer, and bilayer graphene on Ru(0001). <i>Chinese Physics B</i> , 2014 , 23, 098101	1.2	6
45	Effects of graphene defects on Co cluster nucleation and intercalation. <i>Chinese Physics B</i> , 2014 , 23, 088102	1.2	3
44	The evaluation of van der Waals interaction in the oriented-attachment growth of nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1705, 1		
43	Direct visualization of atomically precise nitrogen-doped graphene nanoribbons. <i>Applied Physics Letters</i> , 2014 , 105, 023101	3.4	66
42	Quantitative evaluation of Coulombic interactions in the oriented-attachment growth of nanotubes. <i>Analyst, The</i> , 2014 , 139, 371-4	5	11
41	Construction of 2D atomic crystals on transition metal surfaces: graphene, silicene, and hafnene. <i>Small</i> , 2014 , 10, 2215-25	11	74
40	An electrochemical device for three-dimensional (3D) diffusivity measurement in fuel cells. <i>Nano Energy</i> , 2013 , 2, 1004-1009	17.1	16
39	Gas transport in porous electrodes of solid oxide fuel cells: A review on diffusion and diffusivity measurement. <i>Journal of Power Sources</i> , 2013 , 237, 64-73	8.9	62
38	Interaction of CO ₂ with oxygen adatoms on rutile TiO ₂ (110). <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6190-5	3.6	12
37	Site-specific imaging of elemental steps in dehydration of diols on TiO ₂ (110). <i>ACS Nano</i> , 2013 , 7, 10414-10427	4.37	19
36	The evaluation of Coulombic interaction in the oriented-attachment growth of colloidal nanorods. <i>Analyst, The</i> , 2012 , 137, 4917-20	5	20
35	Structure and Dynamics of CO ₂ on Rutile TiO ₂ (110)-11. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26322-26334	3.5	15
34	Stabilizing gold adatoms by thiophenyl derivatives: a possible route toward metal redispersion. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11161-7	16.4	16
33	OH Group Dynamics of 1,3-Propanediol on TiO ₂ (110). <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 32576-3263	15	
32	Site- and Configuration-Selective Anchoring of IronPhtalocyanine on the Step Edges of Au(111) Surface. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10791-10796	3.8	27
31	Role of the V ₂ O ₃ (0001) Defect Structure in the Adsorption of Au Adatoms. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3404-3409	3.8	2
30	Surface reconstruction transition of metals induced by molecular adsorption. <i>Physical Review B</i> , 2011 , 83,	3.3	23
29	Characterizing low-coordinated atoms at the periphery of MgO-supported Au islands using scanning tunneling microscopy and electronic structure calculations. <i>Physical Review B</i> , 2010 , 81,	3.3	64

28	Charge-mediated adsorption behavior of CO on MgO-supported Au clusters. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7745-9	16.4	110
27	CO Adsorption on Thin MgO Films and Single Au Adatoms: A Scanning Tunneling Microscopy Study. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8997-9001	3.8	21
26	Quantum well states in two-dimensional gold clusters on MgO thin films. <i>Physical Review Letters</i> , 2009 , 102, 206801	7.4	121
25	Charge-induced formation of linear Au clusters on thin MgO films: Scanning tunneling microscopy and density-functional theory study. <i>Physical Review B</i> , 2008 , 78,	3.3	63
24	Self-Assembly of MgPc Molecules on Polar FeO Thin Films. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15325-15328	3.8	33
23	Nucleation and Growth of Gold on MgO Thin Films: A Combined STM and Luminescence Study. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 10528-10533	3.8	36
22	Epitaxial Growth of Iron Phthalocyanine at the Initial Stage on Au(111) Surface. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2656-2660	3.8	119
21	Site-specific kondo effect at ambient temperatures in iron-based molecules. <i>Physical Review Letters</i> , 2007 , 99, 106402	7.4	227
20	Observation of Structural and Conductance Transition of Rotaxane Molecules at a Submolecular Scale. <i>Advanced Functional Materials</i> , 2007 , 17, 770-776	15.6	35
19	Structural evolution at the initial growth stage of perylene on Au(111). <i>Surface Science</i> , 2007 , 601, 3179-3185	16	
18	The influence of single-walled carbon nanotube structure on the electromagnetic interference shielding efficiency of its epoxy composites. <i>Carbon</i> , 2007 , 45, 1614-1621	10.4	458
17	Microwave Absorption of Single-Walled Carbon Nanotubes/Soluble Cross-Linked Polyurethane Composites. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 13696-13700	3.8	280
16	Role of lateral alkyl chains in modulation of molecular structures on metal surfaces. <i>Physical Review Letters</i> , 2006 , 96, 226101	7.4	50
15	Understanding and controlling the weakly interacting interface in perylene/Au(110). <i>Physical Review B</i> , 2006 , 73,	3.3	29
14	Intrinsic current-voltage properties of nanowires with four-probe scanning tunneling microscopy: A conductance transition of ZnO nanowire. <i>Applied Physics Letters</i> , 2006 , 89, 043103	3.4	67
13	Selective analysis of molecular states by functionalized scanning tunneling microscopy tips. <i>Physical Review Letters</i> , 2006 , 96, 156102	7.4	41
12	Electromagnetic interference (EMI) shielding of single-walled carbon nanotube epoxy composites. <i>Nano Letters</i> , 2006 , 6, 1141-5	11.5	1012
11	Manipulation and four-probe analysis of nanowires in UHV by application of four tunneling microscope tips: a new method for the investigation of electrical transport through nanowires. <i>Surface and Interface Analysis</i> , 2006 , 38, 1096-1102	1.5	11

10	Stable, reproducible nanorecording on rotaxane thin films. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15338-9	16.4	72
9	Surface crystallization effects on the optical and electric properties of CdS nanorods. <i>Nanotechnology</i> , 2005 , 16, 2402-6	3.4	19
8	Crystalline Thin Films Formed by Supramolecular Assembly for Ultrahigh-Density Data Storage. <i>Advanced Materials</i> , 2004 , 16, 2018-2021	24	25
7	Direct observation of surface structure of d-alanine and d-/l-valine crystals by atomic force microscopy and comparison with X-ray diffraction analysis. <i>Surface Science</i> , 2002 , 512, L379-L384	1.8	14
6	Patterns formed on the dimer vacancy array of Si(100) by self-assembly. <i>Nanotechnology</i> , 2002 , 13, 729-732	3.4	6
5	Rational Design of Two-Layer Fe-Doped PrBa _{0.8} Ca _{0.2} Co ₂ O ₆ Double Perovskite Oxides for High-Performance Fuel Cell Cathodes. <i>Journal of Physical Chemistry C</i> ,	3.8	3
4	The As-surface of an iron-based superconductor CaKFe ₄ As ₄ . <i>Nano Research</i> ,1	10	3
3	MgO intercalation and crystallization between epitaxial graphene and Ru(0001). <i>Rare Metals</i> ,1	5.5	1
2	Line defects in monolayer TiSe ₂ with adsorption of Pt atoms potentially enable excellent catalytic activity. <i>Nano Research</i> ,1	10	1
1	Intrinsically patterned corrals in monolayer Ag ₅ Se ₂ and selective molecular co-adsorption. <i>Nano Research</i> ,1	10	0