

Xiao Lin

List of Publications by Year in descending order

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101
papers

5,817
citations

117625

34
h-index

74163

75
g-index

102
all docs

102
docs citations

102
times ranked

8314
citing authors

#	ARTICLE	IF	CITATIONS
19	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> , 2021, 125, 26448-26459.	3.1	5
20	Direct growth of wafer-scale highly oriented graphene on sapphire. <i>Science Advances</i> , 2021, 7, eabk0115.	10.3	43
21	On-Surface Synthesis and Characterization of Polythiophene Chains. <i>Journal of Physical Chemistry C</i> , 2020, 124, 764-768.	3.1	6
22	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.	5.0	12
23	Insulating SiO ₂ under Centimeter-Scale, Single-Crystal Graphene Enables Electronic-Device Fabrication. <i>Nano Letters</i> , 2020, 20, 8584-8591.	9.1	19
24	Localized spin-orbit polaron in magnetic Weyl semimetal Co ₃ Sn ₂ S ₂ . <i>Nature Communications</i> , 2020, 11, 5613.	12.8	53
25	Epitaxial fabrication of monolayer copper arsenide on Cu(111)*. <i>Chinese Physics B</i> , 2020, 29, 077301.	1.4	5
26	Force-Activated Isomerization of a Single Molecule. <i>Journal of the American Chemical Society</i> , 2020, 142, 10673-10680.	13.7	16
27	Sizable Band Gap in Epitaxial Bilayer Graphene Induced by Silicene Intercalation. <i>Nano Letters</i> , 2020, 20, 2674-2680.	9.1	23
28	Air-Stable Monolayer Cu ₂ Se Exhibits a Purely Thermal Structural Phase Transition. <i>Advanced Materials</i> , 2020, 32, e1908314.	21.0	26
29	Experimental Synthesis of Strained Monolayer Silver Arsenide on Ag(111) Substrates. <i>Chinese Physics Letters</i> , 2020, 37, 068103.	3.3	10
30	Unexpected Roles of Alkali-Metal Cations in the Assembly of Low-Valent Uranium Sulfate Molecular Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 2348-2357.	4.0	11
31	Epitaxial synthesis and electronic properties of monolayer Pd ₂ Se ₃ *. <i>Chinese Physics B</i> , 2020, 29, 098102.	1.4	7
32	Direct probing of imperfection-induced electrical degradation in millimeter-scale graphene on SiO ₂ substrates. <i>2D Materials</i> , 2019, 6, 045033.	4.4	2
33	Centimeter-scale, single-crystalline, AB-stacked bilayer graphene on insulating substrates. <i>2D Materials</i> , 2019, 6, 045044.	4.4	11
34	Real-space observation on standing configurations of phenylacetylene on Cu (111) by scanning probe microscopy*. <i>Chinese Physics B</i> , 2019, 28, 066801.	1.4	2
35	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.	1.4	6
36	Interaction of two symmetric monovacancy defects in graphene. <i>Chinese Physics B</i> , 2019, 28, 046801.	1.4	2

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37	Spontaneous Formation of 1D Pattern in Monolayer VSe ₂ with Dispersive Adsorption of Pt Atoms for HER Catalysis. <i>Nano Letters</i> , 2019, 19, 4897-4903.	9.1	42
38	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.	3.4	3
39	Epitaxial Growth of Honeycomb Monolayer CuSe with Dirac Nodal Line Fermions. <i>Advanced Materials</i> , 2018, 30, e1707055.	21.0	110
40	Recovery of edge states of graphene nanoislands on an iridium substrate by silicon intercalation. <i>Nano Research</i> , 2018, 11, 3722-3729.	10.4	10
41	Controllable Density of Atomic Bromine in a Two-Dimensional Hydrogen Bond Network. <i>Journal of Physical Chemistry C</i> , 2018, 122, 25681-25684.	3.1	6
42	Construction of bilayer PdSe ₂ on epitaxial graphene. <i>Nano Research</i> , 2018, 11, 5858-5865.	10.4	84
43	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.	38.1	97
44	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.	9.1	21
45	Tuning the morphology of chevron-type graphene nanoribbons by choice of annealing temperature. <i>Nano Research</i> , 2018, 11, 6190-6196.	10.4	20
46	High quality PdTe ₂ thin films grown by molecular beam epitaxy. <i>Chinese Physics B</i> , 2018, 27, 086804.	1.4	39
47	Identifying and Visualizing the Edge Terminations of Single-Layer MoSe ₂ Island Epitaxially Grown on Au(111). <i>ACS Nano</i> , 2017, 11, 1689-1695.	14.6	48
48	Intrinsically patterned two-dimensional materials for selective adsorption of molecules and nanoclusters. <i>Nature Materials</i> , 2017, 16, 717-721.	27.5	150
49	Construction of Two-Dimensional Chiral Networks through Atomic Bromine on Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 326-331.	4.6	33
50	Sulfur-doped graphene nanoribbons with a sequence of distinct band gaps. <i>Nano Research</i> , 2017, 10, 3377-3384.	10.4	44
51	Synthesis of palladium nanoparticles on TiO ₂ (110) using a beta-diketonate precursor. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6470-6477.	2.8	7
52	Uniform Doping of Titanium in Hematite Nanorods for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14072-14078.	8.0	43
53	Construction of single-crystalline supramolecular networks of perchlorinated hexa-peri-hexabenzocoronene on Au(111). <i>Journal of Chemical Physics</i> , 2015, 142, 101911.	3.0	13
54	High quality sub-monolayer, monolayer, and bilayer graphene on Ru(0001). <i>Chinese Physics B</i> , 2014, 23, 098101.	1.4	8

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55	Effects of graphene defects on Co cluster nucleation and intercalation. Chinese Physics B, 2014, 23, 088108.	1.4	3
56	The evaluation of van der Waals interaction in the oriented-attachment growth of nanotubes. Materials Research Society Symposia Proceedings, 2014, 1705, 1.	0.1	0
57	Direct visualization of atomically precise nitrogen-doped graphene nanoribbons. Applied Physics Letters, 2014, 105, .	3.3	82
58	Quantitative evaluation of Coulombic interactions in the oriented-attachment growth of nanotubes. Analyst, The, 2014, 139, 371-374.	3.5	12
59	Construction of 2D Atomic Crystals on Transition Metal Surfaces: Graphene, Silicene, and Hafnene. Small, 2014, 10, 2215-2225.	10.0	91
60	Commensurate–incommensurate transition in graphene on hexagonal boron nitride. Nature Physics, 2014, 10, 451-456.	16.7	737
61	Recent progress in degradation and stabilization of organic solar cells. Journal of Power Sources, 2014, 264, 168-183.	7.8	136
62	Separation-dependence evolution of inter-particle interaction in the oriented-attachment growth of nanorods: a case of hexagonal nanocrystals. Analyst, The, 2014, 139, 3393-3397.	3.5	2
63	Dimerization Induced Deprotonation of Water on RuO ₂ (110). Journal of Physical Chemistry Letters, 2014, 5, 3445-3450.	4.6	47
64	Electrochemical devices with optimized gas tightness for the diffusivity measurement in fuel cells. International Journal of Hydrogen Energy, 2014, 39, 2334-2339.	7.1	5
65	Coulombic interaction in the colloidal oriented-attachment growth of tetragonal nanorods. Chinese Physics B, 2014, 23, 056103.	1.4	3
66	An electrochemical device for three-dimensional (3D) diffusivity measurement in fuel cells. Nano Energy, 2013, 2, 1004-1009.	16.0	19
67	Gas transport in porous electrodes of solid oxide fuel cells: A review on diffusion and diffusivity measurement. Journal of Power Sources, 2013, 237, 64-73.	7.8	73
68	Interaction of CO ₂ with oxygen adatoms on rutile TiO ₂ (110). Physical Chemistry Chemical Physics, 2013, 15, 6190.	2.8	13
69	Site-Specific Imaging of Elemental Steps in Dehydration of Diols on TiO ₂ (110). ACS Nano, 2013, 7, 10414-10423.	14.6	20
70	The evaluation of Coulombic interaction in the oriented-attachment growth of colloidal nanorods. Analyst, The, 2012, 137, 4917.	3.5	21
71	Structure and Dynamics of CO ₂ on Rutile TiO ₂ (110)-1. Journal of Physical Chemistry C, 2012, 116, 26322-26334.	3.1	60
72	Stabilizing Gold Adatoms by Thiophenyl Derivatives: A Possible Route toward Metal Redispersion. Journal of the American Chemical Society, 2012, 134, 11161-11167.	13.7	16

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73	OH Group Dynamics of 1,3-Propanediol on TiO ₂ (110). Journal of Physical Chemistry Letters, 2012, 3, 3257-3263.	4.6	16
74	Site- and Configuration-Selective Anchoring of Iron-Phthalocyanine on the Step Edges of Au(111) Surface. Journal of Physical Chemistry C, 2011, 115, 10791-10796.	3.1	31
75	Role of the V ₂ O ₃ (0001) Defect Structure in the Adsorption of Au Adatoms. Journal of Physical Chemistry C, 2011, 115, 3404-3409.	3.1	2
76	Surface reconstruction transition of metals induced by molecular adsorption. Physical Review B, 2011, 83, .	3.2	26
77	Characterizing low-coordinated atoms at the periphery of MgO-supported Au islands using scanning tunneling microscopy and electronic structure calculations. Physical Review B, 2010, 81, .	3.2	67
78	Charge-Mediated Adsorption Behavior of CO on MgO-Supported Au Clusters. Journal of the American Chemical Society, 2010, 132, 7745-7749.	13.7	112
79	CO Adsorption on Thin MgO Films and Single Au Adatoms: A Scanning Tunneling Microscopy Study. Journal of Physical Chemistry C, 2010, 114, 8997-9001.	3.1	22
80	Quantum Well States in Two-Dimensional Gold Clusters on MgO Thin Films. Physical Review Letters, 2009, 102, 206801.	7.8	128
81	Charge-induced formation of linear Au clusters on thin MgO films: Scanning tunneling microscopy and density-functional theory study. Physical Review B, 2008, 78, .	3.2	64
82	Self-Assembly of MgPc Molecules on Polar FeO Thin Films. Journal of Physical Chemistry C, 2008, 112, 15325-15328.	3.1	34
83	Microwave Absorption of Single-Walled Carbon Nanotubes/Soluble Cross-Linked Polyurethane Composites. Journal of Physical Chemistry C, 2007, 111, 13696-13700.	3.1	324
84	Nucleation and Growth of Gold on MgO Thin Films: A Combined STM and Luminescence Study. Journal of Physical Chemistry C, 2007, 111, 10528-10533.	3.1	39
85	Epitaxial Growth of Iron Phthalocyanine at the Initial Stage on Au(111) Surface. Journal of Physical Chemistry C, 2007, 111, 2656-2660.	3.1	124
86	Site-Specific Kondo Effect at Ambient Temperatures in Iron-Based Molecules. Physical Review Letters, 2007, 99, 106402.	7.8	242
87	Observation of Structural and Conductance Transition of Rotaxane Molecules at a Submolecular Scale. Advanced Functional Materials, 2007, 17, 770-776.	14.9	37
88	Structural evolution at the initial growth stage of perylene on Au(111). Surface Science, 2007, 601, 3179-3185.	1.9	17
89	The influence of single-walled carbon nanotube structure on the electromagnetic interference shielding efficiency of its epoxy composites. Carbon, 2007, 45, 1614-1621.	10.3	524
90	Electromagnetic Interference (EMI) Shielding of Single-Walled Carbon Nanotube Epoxy Composites. Nano Letters, 2006, 6, 1141-1145.	9.1	1,106

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91	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.	1.8	11
92	Role of Lateral Alkyl Chains in Modulation of Molecular Structures on Metal Surfaces. <i>Physical Review Letters</i> , 2006, 96, 226101.	7.8	51
93	Understanding and controlling the weakly interacting interface in perylene ⁺ •Ag(110). <i>Physical Review B</i> , 2006, 73, .	3.2	29
94	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.	3.3	72
95	Selective Analysis of Molecular States by Functionalized Scanning Tunneling Microscopy Tips. <i>Physical Review Letters</i> , 2006, 96, 156102.	7.8	44
96	Surface crystallization effects on the optical and electric properties of CdS nanorods. <i>Nanotechnology</i> , 2005, 16, 2402-2406.	2.6	20
97	Stable, Reproducible Nanorecording on Rotaxane Thin Films. <i>Journal of the American Chemical Society</i> , 2005, 127, 15338-15339.	13.7	77
98	Crystalline Thin Films Formed by Supramolecular Assembly for Ultrahigh-Density Data Storage. <i>Advanced Materials</i> , 2004, 16, 2018-2021.	21.0	27
99	Patterns formed on the dimer vacancy array of Si(100) by self-assembly. <i>Nanotechnology</i> , 2002, 13, 729-732.	2.6	6
100	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.	1.9	15
101	MgO intercalation and crystallization between epitaxial graphene and Ru(0001). <i>Rare Metals</i> , 0, , 1.	7.1	5