

Y-L Wang

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130
papers

7,825
citations

38
h-index

87
g-index

140
ext. papers

9,100
ext. citations

8.6
avg, IF

5.62
L-index

#	Paper	IF	Citations
130	Recent Advances in Two-Dimensional Materials beyond Graphene. <i>ACS Nano</i> , 2015 , 9, 11509-39	16.7	1581
129	Buckled silicene formation on Ir(111). <i>Nano Letters</i> , 2013 , 13, 685-90	11.5	950
128	Buckled germanene formation on Pt(111). <i>Advanced Materials</i> , 2014 , 26, 4820-4	24	611
127	Recent progress in 2D group-VA semiconductors: from theory to experiment. <i>Chemical Society Reviews</i> , 2018 , 47, 982-1021	58.5	549
126	Monolayer PtSe ₂ : A New Semiconducting Transition-Metal-Dichalcogenide, Epitaxially Grown by Direct Selenization of Pt. <i>Nano Letters</i> , 2015 , 15, 4013-8	11.5	420
125	Epitaxial Growth and Air-Stability of Monolayer Antimonene on PdTe. <i>Advanced Materials</i> , 2017 , 29, 16054-7	14.07	249
124	Universal mechanical exfoliation of large-area 2D crystals. <i>Nature Communications</i> , 2020 , 11, 2453	17.4	169
123	Epitaxial Growth of Flat Antimonene Monolayer: A New Honeycomb Analogue of Graphene. <i>Nano Letters</i> , 2018 , 18, 2133-2139	11.5	159
122	Metal-organic coordination interactions in Fe-terephthalic acid networks on Cu(100). <i>Journal of the American Chemical Society</i> , 2008 , 130, 2108-13	16.4	130
121	Self-organized two-dimensional lattice of magic clusters. <i>Physical Review B</i> , 2001 , 64,	3.3	118
120	Direct observation of spin-layer locking by local Rashba effect in monolayer semiconducting PtSe film. <i>Nature Communications</i> , 2017 , 8, 14216	17.4	110
119	Hydrogen and coordination bonding supramolecular structures of trimesic acid on Cu(110). <i>Journal of Physical Chemistry A</i> , 2007 , 111, 12589-603	2.8	107
118	Reversible single spin control of individual magnetic molecule by hydrogen atom adsorption. <i>Scientific Reports</i> , 2013 , 3, 1210	4.9	106
117	Intrinsically patterned two-dimensional materials for selective adsorption of molecules and nanoclusters. <i>Nature Materials</i> , 2017 , 16, 717-721	27	105
116	Shape evolution of patterned amorphous and polycrystalline silicon microarray thin film electrodes caused by lithium insertion and extraction. <i>Journal of Power Sources</i> , 2012 , 216, 131-138	8.9	104
115	Highly Oriented Monolayer Graphene Grown on a Cu/Ni(111) Alloy Foil. <i>ACS Nano</i> , 2018 , 12, 6117-6127	16.7	100
114	Silicon layer intercalation of centimeter-scale, epitaxially grown monolayer graphene on Ru(0001). <i>Applied Physics Letters</i> , 2012 , 100, 093101	3.4	90

113	Two-dimensional transition metal honeycomb realized: Hf on Ir(111). <i>Nano Letters</i> , 2013 , 13, 4671-4	11.5	89
112	Intercalation of metal islands and films at the interface of epitaxially grown graphene and Ru(0001) surfaces. <i>Applied Physics Letters</i> , 2011 , 99, 163107	3.4	79
111	Three-component fermions with surface Fermi arcs in tungsten carbide. <i>Nature Physics</i> , 2018 , 14, 349-354	16.2	75
110	Structural evolution of pentacene on a Ag(110) surface. <i>Physical Review B</i> , 2004 , 69,	3.3	75
109	Construction of 2D atomic crystals on transition metal surfaces: graphene, silicene, and hafnene. <i>Small</i> , 2014 , 10, 2215-25	11	74
108	Direct Evidence of Dirac Signature in Bilayer Germanene Islands on Cu(111). <i>Advanced Materials</i> , 2017 , 29, 1606046	24	72
107	Sequence of Silicon Monolayer Structures Grown on a Ru Surface: from a Herringbone Structure to Silicene. <i>Nano Letters</i> , 2017 , 17, 1161-1166	11.5	67
106	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
105	Construction of bilayer PdSe ₂ on epitaxial graphene. <i>Nano Research</i> , 2018 , 11, 5858-5865	10	62
104	Epitaxially grown monolayer VSe ₂ : an air-stable magnetic two-dimensional material with low work function at edges. <i>Science Bulletin</i> , 2018 , 63, 419-425	10.6	61
103	Silicon intercalation at the interface of graphene and Ir(111). <i>Applied Physics Letters</i> , 2012 , 100, 083101	3.4	60
102	First-principles calculations of a robust two-dimensional boron honeycomb sandwiching a triangular molybdenum layer. <i>Physical Review B</i> , 2014 , 90,	3.3	59
101	Ordering of dipeptide chains on Cu surfaces through 2D cocrystallization. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15742-3	16.4	59
100	Structure determination of surface magic clusters. <i>Physical Review Letters</i> , 2004 , 92, 066103	7.4	55
99	Stable Silicene in Graphene/Silicene Van der Waals Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1804650	14.5	55
98	Flat Boron: A New Cousin of Graphene. <i>Advanced Materials</i> , 2019 , 31, e1900392	24	54
97	Direct imaging of intrinsic molecular orbitals using two-dimensional, epitaxially-grown, nanostructured graphene for study of single molecule and interactions. <i>Applied Physics Letters</i> , 2011 , 99, 153101	3.4	52
96	Multi-oriented moiré superstructures of graphene on Ir(111): experimental observations and theoretical models. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 314214	1.8	49

95	Tip size effect on the appearance of a STM image for complex surfaces: Theory versus experiment for Si(111)(7x7). <i>Physical Review B</i> , 2004 , 70,	3.3	43
94	Evidence of Topological Edge States in Buckled Antimonene Monolayers. <i>Nano Letters</i> , 2019 , 19, 6323-6329	3.3	40
93	Polymorphism and chiral expression in two-dimensional subphthalocyanine crystals on Au(111). <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1318-22	3.6	38
92	Bonding configurations and collective patterns of Ge atoms adsorbed on Si(111)-(7 x 7). <i>Physical Review Letters</i> , 2005 , 94, 106101	7.4	37
91	Direct observation of enantiospecific substitution in a two-dimensional chiral phase transition. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10440-4	16.4	35
90	Self-assembly of C60 monolayer on epitaxially grown, nanostructured graphene on Ru(0001) surface. <i>Applied Physics Letters</i> , 2012 , 100, 013304	3.4	35
89	Varying molecular interactions by coverage in supramolecular surface chemistry. <i>Chemical Communications</i> , 2012 , 48, 534-6	5.8	34
88	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
87	Ultrafast optical response and ablation mechanisms of molybdenum disulfide under intense femtosecond laser irradiation. <i>Light: Science and Applications</i> , 2020 , 9, 80	16.7	31
86	A novel two-dimensional MgB6 crystal: metal-layer stabilized boron kagome lattice. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1093-8	3.6	29
85	Weak-coupling Bardeen-Cooper-Schrieffer superconductivity in the electron-doped cuprate superconductors. <i>Physical Review B</i> , 2008 , 77,	3.3	29
84	Template-directed assembly of pentacene molecules on epitaxial graphene on Ru(0001). <i>Nano Research</i> , 2013 , 6, 131-137	10	28
83	Tuning structural and mechanical properties of two-dimensional molecular crystals: the roles of carbon side chains. <i>Nano Letters</i> , 2012 , 12, 1229-34	11.5	26
82	Tertiary Chiral Domains Assembled by Achiral MetalOrganic Complexes on Cu(110). <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13020-13025	3.8	23
81	Exploring the synthesis of infinite helical chains with 2-carboxycinnamic acid. <i>CrystEngComm</i> , 2005 , 7, 569	3.3	22
80	Spontaneous Formation of a Superconductor-Topological Insulator-Normal Metal Layered Heterostructure. <i>Advanced Materials</i> , 2016 , 28, 5013-7	24	22
79	Epitaxial fabrication of two-dimensional NiSe2 on Ni(111) substrate. <i>Applied Physics Letters</i> , 2017 , 111, 113107	3.4	21
78	Programming Hierarchical Supramolecular Nanostructures by Molecular Design. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3440-3445	3.8	20

77	Impurity-induced formation of bilayered graphene on copper by chemical vapor deposition. <i>Nano Research</i> , 2016 , 9, 2803-2810	10	19
76	Hafnium intercalation between epitaxial graphene and Ir(111) substrate. <i>Applied Physics Letters</i> , 2013 , 102, 093106	3.4	19
75	Homochiral recognition among organic molecules on copper(110). <i>Langmuir</i> , 2010 , 26, 3402-6	4	18
74	Growth Mechanism of Metal Clusters on a Graphene/Ru(0001) Template. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300104	4.6	17
73	Experimental Evidence of Chiral Symmetry Breaking in Kekulé-Ordered Graphene. <i>Physical Review Letters</i> , 2021 , 126, 206804	7.4	17
72	Self-Assembled Patterns and Young's Modulus of Single-Layer Naphthalocyanine Molecules on Ag(111). <i>Journal of Physical Chemistry C</i> , 2015 , 119, 8208-8212	3.8	16
71	Formation of Ge nanoclusters on Si(111)-7 \times 7 surface at high temperature. <i>Surface Science</i> , 2004 , 561, 227-232	1.8	13
70	Possible Luttinger liquid behavior of edge transport in monolayer transition metal dichalcogenide crystals. <i>Nature Communications</i> , 2020 , 11, 659	17.4	12
69	The influence of annealing temperature on the morphology of graphene islands. <i>Chinese Physics B</i> , 2012 , 21, 088102	1.2	12
68	Direct identification of Mott Hubbard band pattern beyond charge density wave superlattice in monolayer 1T-NbSe. <i>Nature Communications</i> , 2021 , 12, 1978	17.4	12
67	Graphene-Silicon Layered Structures on Single-Crystalline Ir(111) Thin Films. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400543	4.6	11
66	Surface structures of dl-valine and l-alanine crystals observed by atomic force microscopy at a molecular resolution. <i>Surface Science</i> , 2004 , 552, 70-76	1.8	11
65	Composition and phase engineering of metal chalcogenides and phosphorous chalcogenides. <i>Nature Materials</i> ,	27	11
64	Fabrication and properties of silicene and silicene-graphene layered structures on Ir (111). <i>Chinese Physics B</i> , 2015 , 24, 086803	1.2	10
63	Intercalation of metals and silicon at the interface of epitaxial graphene and its substrates. <i>Chinese Physics B</i> , 2013 , 22, 096803	1.2	10
62	Self-assembled stripes on the anodic aluminum oxide by atomic force microscope observation. <i>Applied Surface Science</i> , 2003 , 219, 282-289	6.7	10
61	Lattice-Directed Construction of Metal-Organic Molecular Wires of Pentacene on the Au(110) Surface. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21650-21657	3.8	9
60	Influence of Deoxyribose Group on Self-Assembly of Thymidine on Au(111). <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17590-17594	3.8	9

59	Nanometre moire fringes in scanning tunnelling microscopy of surface lattices. <i>Nanotechnology</i> , 2004 , 15, 991-995	3.4	9
58	Topical review: recent progress of charge density waves in 2D transition metal dichalcogenide-based heterojunctions and their applications. <i>Nanotechnology</i> , 2021 , 32,	3.4	9
57	Low-temperature growth of large-scale, single-crystalline graphene on Ir(111). <i>Chinese Physics B</i> , 2019 , 28, 056107	1.2	8
56	Distinction between the normal-state gap and superconducting gap of electron-doped cuprates. <i>Physical Review B</i> , 2008 , 78,	3.3	8
55	Tuning Molecular Superlattice by Charge-Density-Wave Patterns in Two-Dimensional Monolayer Crystals. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3545-3551	6.4	8
54	Quasi-free-standing graphene nano-islands on Ag(110), grown from solid carbon source. <i>Applied Physics Letters</i> , 2017 , 110, 213107	3.4	7
53	Toward a Detailed Understanding of Si(111)-7 \times 7 Surface and Adsorbed Ge Nanostructures: Fabrications, Structures, and Calculations. <i>Journal of Nanomaterials</i> , 2008 , 2008, 1-18	3.2	7
52	Visualizing Spatial Evolution of Electron-Correlated Interface in Two-Dimensional Heterostructures. <i>ACS Nano</i> , 2021 , 15, 16589-16596	16.7	7
51	Fabrication of large-scale graphene/2D-germanium heterostructure by intercalation. <i>Chinese Physics B</i> , 2019 , 28, 078103	1.2	6
50	Thermally Controlled Adenine Dimer Chain Rotation on Cu(110): The Critical Role of van der Waals Interactions. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 6278-6282	3.8	6
49	High quality sub-monolayer, monolayer, and bilayer graphene on Ru(0001). <i>Chinese Physics B</i> , 2014 , 23, 098101	1.2	6
48	Patterns formed on the dimer vacancy array of Si(100) by self-assembly. <i>Nanotechnology</i> , 2002 , 13, 729-732	3.2	6
47	Nanoscale Control of One-Dimensional Confined States in Strongly Correlated Homojunctions.. <i>Nano Letters</i> , 2022 ,	11.5	6
46	Recent progress in 2D group-V elemental monolayers: fabrications and properties. <i>Journal of Semiconductors</i> , 2020 , 41, 081003	2.3	6
45	Bandgap engineering of two-dimensional C3N bilayers. <i>Nature Electronics</i> , 2021 , 4, 486-494	28.4	6
44	A tied Fermi liquid to Luttinger liquid model for nonlinear transport in conducting polymers. <i>Nature Communications</i> , 2021 , 12, 58	17.4	6
43	An efficient route to prepare suspended monolayer for feasible optical and electronic characterizations of two-dimensional materials. <i>Information Materials</i> , 2022 , 4,	23.1	6
42	Adsorption behavior of Fe atoms on a naphthalocyanine monolayer on Ag(111) surface. <i>Chinese Physics B</i> , 2015 , 24, 076802	1.2	5

41	Copper vapor-assisted growth of hexagonal graphene domains on silica islands. <i>Applied Physics Letters</i> , 2016 , 109, 023106	3.4	5
40	Tunable Electronic Structures in Wrinkled 2D Transition-Metal-Trichalcogenide (TMT) HfTe ₃ Films. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600324	6.4	4
39	High-resolution scanning tunneling microscopy imaging of Si(1 1 1)-7 \times 7 structure and intrinsic molecular states. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 394001	1.8	4
38	Thermo-controllable self-assembled structures of single-layer 4, 4'-diamino-p-terphenyl molecules on Au (110) *. <i>Chinese Physics B</i> , 2017 , 26, 086801	1.2	4
37	Modifying the STM tip for the ' ultimate ' imaging of the Si(111)-7 \times 7 surface and metal-supported molecules. <i>Chimia</i> , 2012 , 66, 31-7	1.3	4
36	Ultrathin Ruthenium(II) Complex H ₄ SiW ₁₂ O ₄₀ Multilayer Film. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 1248-1253	1.3	4
35	Twisted charge-density-wave patterns in bilayer 2D crystals and modulated electronic states. <i>2D Materials</i> , 2022 , 9, 014007	5.9	4
34	Raman spectra evidence for the covalent-like quasi-bonding between exfoliated MoS ₂ and Au films. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	4
33	Unveiling carbon dimers and their chains as precursor of graphene growth on Ru(0001). <i>Applied Physics Letters</i> , 2016 , 109, 131604	3.4	4
32	Shallowing interfacial carrier trap in transition metal dichalcogenide heterostructures with interlayer hybridization. <i>Nano Research</i> , 2021 , 14, 1390-1396	10	4
31	A structural investigation of the interaction of oxalic acid with Cu(110). <i>Surface Science</i> , 2018 , 668, 134-143	14.8	4
30	Visualization of Charge-Density-Wave Reconstruction and Electronic Superstructure at the Edge of Correlated Insulator 1T-NbSe ₂ . <i>ACS Nano</i> , 2021 ,	16.7	4
29	Fabrication of graphene-silicon layered heterostructures by carbon penetration of silicon film. <i>Nanotechnology</i> , 2017 , 28, 084003	3.4	3
28	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
27	Self-Assembly Evolution of Metal-Free Naphthalocyanine Molecules on Ag(111) at the Submonolayer Coverage. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7202-7208	3.8	3
26	Investigating molecular orbitals with submolecular precision on pristine sites and single atomic vacancies of monolayer h-BN. <i>Nano Research</i> , 2020 , 13, 2233-2238	10	3
25	Effects of graphene defects on Co cluster nucleation and intercalation. <i>Chinese Physics B</i> , 2014 , 23, 088108	10.8	3
24	Surface Recognition of the Space Group and Chiral Array on DL-valine Crystalline Structure Observed by AFM. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2005 , 21, 867-872	3.8	3

23	Intercalation and its mechanism of high quality large area graphene on metal substrate. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2017 , 66, 216803	0.6	3
22	Back contact modification of the optoelectronic device with transition metal dichalcogenide VSe ₂ film drives solar cell efficiency. <i>Journal of Materiomics</i> , 2021 , 7, 470-477	6.7	3
21	Interaction of two symmetric monovacancy defects in graphene. <i>Chinese Physics B</i> , 2019 , 28, 046801	1.2	2
20	Understanding formation of molecular rotor array on Au(111) surface. <i>Frontiers of Physics in China</i> , 2010 , 5, 380-386		2
19	Progress on 2D topological insulators and potential applications in electronic devices. <i>Chinese Physics B</i> , 2020 , 29, 097304	1.2	2
18	Using graphene to suppress the selenization of Pt for controllable fabrication of monolayer PtSe ₂ . <i>Nano Research</i> , 2020 , 13, 3212-3216	10	2
17	Tendency of Gap Opening in Semimetal 1T'-MoTe ₂ with Proximity to a 3D Topological Insulator. <i>Advanced Functional Materials</i> , 2021 , 31, 2103384	15.6	2
16	Intriguing one-dimensional electronic behavior in emerging two-dimensional materials. <i>Nano Research</i> , 2021 , 14, 3810	10	2
15	Advances in two-dimensional heterostructures by mono-element intercalation underneath epitaxial graphene. <i>Progress in Surface Science</i> , 2021 , 96, 100637	6.6	2
14	Atomic-scale visualization of chiral charge density wave superlattices and their reversible switching.. <i>Nature Communications</i> , 2022 , 13, 1843	17.4	2
13	Characterizing silicon intercalated graphene grown epitaxially on Ir films by atomic force microscopy. <i>Chinese Physics B</i> , 2015 , 24, 078104	1.2	1
12	Scanning Tunneling Microscopy of the Si(111)-7 \times 7 Surface and Adsorbed Ge Nanostructures. <i>Nanoscience and Technology</i> , 2009 , 183-220	0.6	1
11	Direct Visualization of Hydrogen-Transfer Intermediate States by Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1536-1541	6.4	1
10	Recent progress of scanning tunneling microscopy/spectroscopy study of Majorana bound states in the FeTe _{0.55} Se _{0.45} superconductor. <i>Superconductor Science and Technology</i> , 2021 , 34, 073001	3.1	1
9	Monolayer puckered pentagonal VTe ₂ : An emergent two-dimensional ferromagnetic semiconductor with multiferroic coupling. <i>Nano Research</i> , 2021 , 14, 100637	10	1
8	Spectroscopic Evidence of New Low-Dimensional Planar Carbon Allotropes Based on Biphenylene via On-Surface Ullmann Coupling. <i>Chemistry</i> , 2021 , 3, 1057-1062	2.1	1
7	Size Dependence of Charge-Density-Wave Orders in Single-Layer NbSe Hetero/Homophase Junctions.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 1901-1907	6.4	1
6	Line defects in monolayer TiSe ₂ with adsorption of Pt atoms potentially enable excellent catalytic activity. <i>Nano Research</i> , 2021 , 14, 100637	10	1

- 5 Construction of poly-naphthalocyanine linked by [4]-radialene-like structures on silver surfaces. *Nano Research*, **2021**, 14, 4563 10 0
- 4 Graphene on Crystalline Metal Surfaces **2014**, 691-736
- 3 Theoretical calculation and simulation of surface-modified scalable silicon heat sink for electronics cooling. *Thermal Science*, **2021**, 25, 4181-4187 1.2
- 2 Molecular Rotors Observed by Scanning Tunneling Microscopy **2011**, 287-316
- 1 Direct evidence of two-dimensional electron gas-like band structures in hafnene. *Nano Research*, **2022**, 15, 3770-3774 10