

Y-L Wang

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.

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	Nanoscale Control of One-Dimensional Confined States in Strongly Correlated Homojunctions.. <i>Nano Letters</i> , 2022 ,	11.5	6
129	Twisted charge-density-wave patterns in bilayer 2D crystals and modulated electronic states. <i>2D Materials</i> , 2022 , 9, 014007	5.9	4
128	Size Dependence of Charge-Density-Wave Orders in Single-Layer NbSe Hetero/Homophase Junctions.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 1901-1907	6.4	1
127	Atomic-scale visualization of chiral charge density wave superlattices and their reversible switching.. <i>Nature Communications</i> , 2022 , 13, 1843	17.4	2
126	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
125	Direct evidence of two-dimensional electron gas-like band structures in hafnene. <i>Nano Research</i> , 2022 , 15, 3770-3774	10	
124	Theoretical calculation and simulation of surface-modified scalable silicon heat sink for electronics cooling. <i>Thermal Science</i> , 2021 , 25, 4181-4187	1.2	
123	Visualizing Spatial Evolution of Electron-Correlated Interface in Two-Dimensional Heterostructures. <i>ACS Nano</i> , 2021 , 15, 16589-16596	16.7	7
122	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
121	Construction of poly-naphthalocyanine linked by [4]-radialene-like structures on silver surfaces. <i>Nano Research</i> , 2021 , 14, 4563	10	0
120	Raman spectra evidence for the covalent-like quasi-bonding between exfoliated MoS2 and Au films. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	4
119	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
118	Experimental Evidence of Chiral Symmetry Breaking in Kekulé-Ordered Graphene. <i>Physical Review Letters</i> , 2021 , 126, 206804	7.4	17
117	Bandgap engineering of two-dimensional C3N bilayers. <i>Nature Electronics</i> , 2021 , 4, 486-494	28.4	6
116	Recent progress of scanning tunneling microscopy/spectroscopy study of Majorana bound states in the FeTe0.55Se0.45 superconductor. <i>Superconductor Science and Technology</i> , 2021 , 34, 073001	3.1	1
115	Tendency of Gap Opening in Semimetal 1T-MoTe2 with Proximity to a 3D Topological Insulator. <i>Advanced Functional Materials</i> , 2021 , 31, 2103384	15.6	2
114	Shallowing interfacial carrier trap in transition metal dichalcogenide heterostructures with interlayer hybridization. <i>Nano Research</i> , 2021 , 14, 1390-1396	10	4

113	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
112	Intriguing one-dimensional electronic behavior in emerging two-dimensional materials. <i>Nano Research</i> , 2021 , 14, 3810	10	2
111	Advances in two-dimensional heterostructures by mono-element intercalation underneath epitaxial graphene. <i>Progress in Surface Science</i> , 2021 , 96, 100637	6.6	2
110	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
109	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
108	A tied Fermi liquid to Luttinger liquid model for nonlinear transport in conducting polymers. <i>Nature Communications</i> , 2021 , 12, 58	17.4	6
107	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
106	Universal mechanical exfoliation of large-area 2D crystals. <i>Nature Communications</i> , 2020 , 11, 2453	17.4	169
105	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
104	Possible Luttinger liquid behavior of edge transport in monolayer transition metal dichalcogenide crystals. <i>Nature Communications</i> , 2020 , 11, 659	17.4	12
103	Progress on 2D topological insulators and potential applications in electronic devices. <i>Chinese Physics B</i> , 2020 , 29, 097304	1.2	2
102	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
101	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
100	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
99	Recent progress in 2D group-V elemental monolayers: fabrications and properties. <i>Journal of Semiconductors</i> , 2020 , 41, 081003	2.3	6
98	Flat Boron: A New Cousin of Graphene. <i>Advanced Materials</i> , 2019 , 31, e1900392	24	54
97	Low-temperature growth of large-scale, single-crystalline graphene on Ir(111). <i>Chinese Physics B</i> , 2019 , 28, 056107	1.2	8
96	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

95	Interaction of two symmetric monovacancy defects in graphene. <i>Chinese Physics B</i> , 2019 , 28, 046801	1.2	2
94	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
93	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
92	Evidence of Topological Edge States in Buckled Antimonene Monolayers. <i>Nano Letters</i> , 2019 , 19, 6323-6329	11.5	40
91	Fabrication of large-scale graphene/2D-germanium heterostructure by intercalation. <i>Chinese Physics B</i> , 2019 , 28, 078103	1.2	6
90	Epitaxial Growth of Flat Antimonene Monolayer: A New Honeycomb Analogue of Graphene. <i>Nano Letters</i> , 2018 , 18, 2133-2139	11.5	159
89	Recent progress in 2D group-VA semiconductors: from theory to experiment. <i>Chemical Society Reviews</i> , 2018 , 47, 982-1021	58.5	549
88	Three-component fermions with surface Fermi arcs in tungsten carbide. <i>Nature Physics</i> , 2018 , 14, 349-354	16.2	75
87	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
86	A structural investigation of the interaction of oxalic acid with Cu(110). <i>Surface Science</i> , 2018 , 668, 134-143	14.3	4
85	Stable Silicene in Graphene/Silicene Van der Waals Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1804650	14.50	55
84	Construction of bilayer PdSe ₂ on epitaxial graphene. <i>Nano Research</i> , 2018 , 11, 5858-5865	10	62
83	Highly Oriented Monolayer Graphene Grown on a Cu/Ni(111) Alloy Foil. <i>ACS Nano</i> , 2018 , 12, 6117-6127	16.7	100
82	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
81	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
80	Fabrication of graphene-silicon layered heterostructures by carbon penetration of silicon film. <i>Nanotechnology</i> , 2017 , 28, 084003	3.4	3
79	Direct Evidence of Dirac Signature in Bilayer Germanene Islands on Cu(111). <i>Advanced Materials</i> , 2017 , 29, 1606046	24	72
78	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

77	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
76	Intrinsically patterned two-dimensional materials for selective adsorption of molecules and nanoclusters. <i>Nature Materials</i> , 2017 , 16, 717-721	27	105
75	Epitaxial Growth and Air-Stability of Monolayer Antimonene on PdTe. <i>Advanced Materials</i> , 2017 , 29, 1605407	24	249
74	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
73	Epitaxial fabrication of two-dimensional NiSe ₂ on Ni(111) substrate. <i>Applied Physics Letters</i> , 2017 , 111, 113107	3.4	21
72	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
71	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
70	Impurity-induced formation of bilayered graphene on copper by chemical vapor deposition. <i>Nano Research</i> , 2016 , 9, 2803-2810	10	19
69	Tunable Electronic Structures in Wrinkled 2D Transition-Metal-Trichalcogenide (TMT) HfTe ₃ Films. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600324	6.4	4
68	Copper vapor-assisted growth of hexagonal graphene domains on silica islands. <i>Applied Physics Letters</i> , 2016 , 109, 023106	3.4	5
67	Spontaneous Formation of a Superconductor-Topological Insulator-Normal Metal Layered Heterostructure. <i>Advanced Materials</i> , 2016 , 28, 5013-7	24	22
66	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
65	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
64	Adsorption behavior of Fe atoms on a naphthalocyanine monolayer on Ag(111) surface. <i>Chinese Physics B</i> , 2015 , 24, 076802	1.2	5
63	Recent Advances in Two-Dimensional Materials beyond Graphene. <i>ACS Nano</i> , 2015 , 9, 11509-39	16.7	1581
62	Fabrication and properties of silicene and silicene-graphene layered structures on Ir (111). <i>Chinese Physics B</i> , 2015 , 24, 086803	1.2	10
61	Characterizing silicon intercalated graphene grown epitaxially on Ir films by atomic force microscopy. <i>Chinese Physics B</i> , 2015 , 24, 078104	1.2	1
60	A novel two-dimensional MgB ₆ crystal: metal-layer stabilized boron kagome lattice. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1093-8	3.6	29

59	Graphene/Silicon Layered Structures on Single-Crystalline Ir(111) Thin Films. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400543	4.6	11
58	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
57	Growth Mechanism of Metal Clusters on a Graphene/Ru(0001) Template. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300104	4.6	17
56	High-resolution scanning tunneling microscopy imaging of Si(1 1 1)-7 × 7 structure and intrinsic molecular states. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 394001	1.8	4
55	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
54	Buckled germanene formation on Pt(111). <i>Advanced Materials</i> , 2014 , 26, 4820-4	24	611
53	High quality sub-monolayer, monolayer, and bilayer graphene on Ru(0001). <i>Chinese Physics B</i> , 2014 , 23, 098101	1.2	6
52	Effects of graphene defects on Co cluster nucleation and intercalation. <i>Chinese Physics B</i> , 2014 , 23, 088108	10.8	3
51	Graphene on Crystalline Metal Surfaces 2014 , 691-736		
50	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
49	Construction of 2D atomic crystals on transition metal surfaces: graphene, silicene, and hafnene. <i>Small</i> , 2014 , 10, 2215-25	11	74
48	Buckled silicene formation on Ir(111). <i>Nano Letters</i> , 2013 , 13, 685-90	11.5	950
47	Two-dimensional transition metal honeycomb realized: Hf on Ir(111). <i>Nano Letters</i> , 2013 , 13, 4671-4	11.5	89
46	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
45	Programming Hierarchical Supramolecular Nanostructures by Molecular Design. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3440-3445	3.8	20
44	Hafnium intercalation between epitaxial graphene and Ir(111) substrate. <i>Applied Physics Letters</i> , 2013 , 102, 093106	3.4	19
43	Template-directed assembly of pentacene molecules on epitaxial graphene on Ru(0001). <i>Nano Research</i> , 2013 , 6, 131-137	10	28
42	Reversible single spin control of individual magnetic molecule by hydrogen atom adsorption. <i>Scientific Reports</i> , 2013 , 3, 1210	4.9	106

41	Varying molecular interactions by coverage in supramolecular surface chemistry. <i>Chemical Communications</i> , 2012 , 48, 534-6	5.8	34
40	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
39	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
38	Silicon layer intercalation of centimeter-scale, epitaxially grown monolayer graphene on Ru(0001). <i>Applied Physics Letters</i> , 2012 , 100, 093101	3.4	90
37	Silicon intercalation at the interface of graphene and Ir(111). <i>Applied Physics Letters</i> , 2012 , 100, 083101	3.4	60
36	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
35	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
34	The influence of annealing temperature on the morphology of graphene islands. <i>Chinese Physics B</i> , 2012 , 21, 088102	1.2	12
33	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
32	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
31	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
30	Molecular Rotors Observed by Scanning Tunneling Microscopy 2011 , 287-316		
29	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
28	Tertiary Chiral Domains Assembled by Achiral Metal-Organic Complexes on Cu(110). <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13020-13025	3.8	23
27	Homochiral recognition among organic molecules on copper(110). <i>Langmuir</i> , 2010 , 26, 3402-6	4	18
26	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
25	Understanding formation of molecular rotor array on Au(111) surface. <i>Frontiers of Physics in China</i> , 2010 , 5, 380-386		2
24	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

23	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
22	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
21	Ultrathin Ruthenium(II) Complex on Si(111)-7 \times 7 Multilayer Film. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 1248-1253	1.3	4
20	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
19	Weak-coupling Bardeen-Cooper-Schrieffer superconductivity in the electron-doped cuprate superconductors. <i>Physical Review B</i> , 2008 , 77,	3.3	29
18	Distinction between the normal-state gap and superconducting gap of electron-doped cuprates. <i>Physical Review B</i> , 2008 , 78,	3.3	8
17	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
16	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
15	Exploring the synthesis of infinite helical chains with 2-carboxycinnamic acid. <i>CrystEngComm</i> , 2005 , 7, 569	3.3	22
14	Bonding configurations and collective patterns of Ge atoms adsorbed on Si(111)-(7 \times 7). <i>Physical Review Letters</i> , 2005 , 94, 106101	7.4	37
13	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
12	Nanometre moire fringes in scanning tunnelling microscopy of surface lattices. <i>Nanotechnology</i> , 2004 , 15, 991-995	3.4	9
11	Structural evolution of pentacene on a Ag(110) surface. <i>Physical Review B</i> , 2004 , 69,	3.3	75
10	Structure determination of surface magic clusters. <i>Physical Review Letters</i> , 2004 , 92, 066103	7.4	55
9	Tip size effect on the appearance of a STM image for complex surfaces: Theory versus experiment for Si(111)-(7 \times 7). <i>Physical Review B</i> , 2004 , 70,	3.3	43
8	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
7	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
6	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

5	Patterns formed on the dimer vacancy array of Si(100) by self-assembly. <i>Nanotechnology</i> , 2002 , 13, 729-732	32	6
4	Self-organized two-dimensional lattice of magic clusters. <i>Physical Review B</i> , 2001 , 64,	33	118
3	Monolayer puckered pentagonal VTe ₂ : An emergent two-dimensional ferromagnetic semiconductor with multiferroic coupling. <i>Nano Research</i> ,1	10	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	Composition and phase engineering of metal chalcogenides and phosphorous chalcogenides. <i>Nature Materials</i> ,	27	11