Lin He

List of Publications by Citations

139 papers	3,363 citations	33 h-index	52 g-index
145 ext. papers	4,025 ext. citations	5.5 avg, IF	5.39 L-index

#	Paper	IF	Citations
139	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. *Nature Communications*, **2014**, 5, 5162	17.4	270
138	Angle-dependent van Hove singularities in a slightly twisted graphene bilayer. *Physical Review Letters*, **2012**, 109, 126801	7.4	164
137	Strain and curvature induced evolution of electronic band structures in twisted graphene bilayer. *Nature Communications*, **2013**, 4, 2159	17.4	127
136	Direct imaging of topological edge states at a bilayer graphene domain wall. *Nature Communications*, **2016**, 7, 11760	17.4	116
135	Creating one-dimensional nanoscale periodic ripples in a continuous mosaic graphene monolayer. *Physical Review Letters*, **2014**, 113, 086102	7.4	97
134	Facile synthesis of monodisperse Mn3O4 tetragonal nanoparticles and their large-scale assembly into highly regular walls by a simple solution route. *Small*, **2007**, 3, 606-10	11	95
133	Ni/Ni3C core-shell nanochains and its magnetic properties: one-step synthesis at low temperature. *Nano Letters*, **2008**, 8, 1147-52	11.5	90
132	Scanning Tunneling Microscopy of the Magnetism of a Single Carbon Vacancy in Graphene. *Physical Review Letters*, **2016**, 117, 166801	7.4	87
131	Finite size effect on Néel temperature with Co3O4 nanoparticles. *Journal of Applied Physics*, **2007**, 102, 103911	2.5	82
130	Ultrathin Co3O4 nanowires with high catalytic oxidation of CO. *Chemical Communications*, **2011**, 47, 11274-6	5.881	77
129	Hierarchy of graphene wrinkles induced by thermal strain engineering. *Applied Physics Letters*, **2013**, 103, 251610	3.4	71
128	Ultrathin Au-Ag bimetallic nanowires with Coulomb blockade effects. *Chemical Communications*, **2011**, 47, 5160-2	5.8	67
127	Strain-induced one-dimensional Landau level quantization in corrugated graphene. *Physical Review B*, **2013**, 87,	3.3	63
126	Chiral tunneling in a twisted graphene bilayer. *Physical Review Letters*, **2013**, 111, 066803	7.4	55
125	Experimental evidence for non-Abelian gauge potentials in twisted graphene bilayers. *Physical Review B*, **2015**, 92,	3.3	52
124	Observation of Landau-level-like quantization at 77 K along a strained-induced graphene ridge. *Physical Review B*, **2012**, 85,	3.3	51
123	Controlled growth of single-crystal twelve-pointed graphene grains on a liquid Cu surface. *Advanced Materials*, **2014**, 26, 6423-9	24	50

122	Landau quantization and Fermi velocity renormalization in twisted graphene bilayers. *Physical Review B*, **2015**, 92,	3.3	49
121	Superlattice Dirac points and space-dependent Fermi velocity in a corrugated graphene monolayer. *Physical Review B*, **2013**, 87,	3.3	48
120	Hexagonal close-packed nickel or Ni3C?. *Journal of Magnetism and Magnetic Materials*, **2010**, 322, 1991-1993	2.5	48
119	Dielectric Engineering of a Boron Nitride/Hafnium Oxide Heterostructure for High-Performance 2D Field Effect Transistors. *Advanced Materials*, **2016**, 28, 2062-9	24	48
118	Landau quantization in graphene monolayer, Bernal bilayer, and Bernal trilayer on graphite surface. *Physical Review B*, **2015**, 91,	3.3	45
117	Twisted graphene bilayer around the first magic angle engineered by heterostrain. *Physical Review B*, **2018**, 98,	3.3	43
116	Angle-dependent van Hove singularities and their breakdown in twisted graphene bilayers. *Physical Review B*, **2014**, 90,	3.3	40
115	One-step synthesis of van der Waals heterostructures of graphene and two-dimensional superconducting Mo2C. *Physical Review B*, **2017**, 95,	3.3	40
114	Energy gaps of atomically precise armchair graphene sidewall nanoribbons. *Physical Review B*, **2016**, 93,	3.3	38
113	Effect of temperature-dependent shape anisotropy on coercivity for aligned Stoner-Wohlfarth soft ferromagnets. *Physical Review B*, **2007**, 75,	3.3	38
112	Observation of unconventional splitting of Landau levels in strained graphene. *Physical Review B*, **2015**, 92,	3.3	37
111	Tuning structures and electronic spectra of graphene layers with tilt grain boundaries. *Physical Review B*, **2014**, 89,	3.3	37
110	Size-dependent magnetic properties of nickel nanochains. *Journal of Physics Condensed Matter*, **2007**, 19, 036216	1.8	36
109	Landau quantization of Dirac fermions in graphene and its multilayers. *Frontiers of Physics*, **2017**, 12, 1	3.7	35
108	Programmable graphene nanobubbles with three-fold symmetric pseudo-magnetic fields. *Nature Communications*, **2019**, 10, 3127	17.4	35
107	Coexistence of van Hove singularities and superlattice Dirac points in a slightly twisted graphene bilayer. *Physical Review B*, **2013**, 87,	3.3	33
106	Electronic structures of graphene layers on a metal foil: The effect of atomic-scale defects. *Applied Physics Letters*, **2013**, 103, 143120	3.4	31
105	Layer-stacking growth and electrical transport of hierarchical graphene architectures. *Advanced Materials*, **2014**, 26, 3218-24	24	30

104	Observation of quantum Griffiths singularity and ferromagnetism at the superconducting LaAlO3/SrTiO3(110) interface. *Physical Review B*, **2016**, 94,	3.3	29
103	Detecting giant electron-hole asymmetry in a graphene monolayer generated by strain and charged-defect scattering via Landau level spectroscopy. *Physical Review B*, **2015**, 92,	3.3	29
102	Creating in-plane pseudomagnetic fields in excess of 1000 T by misoriented stacking in a graphene bilayer. *Physical Review B*, **2014**, 89,	3.3	29
101	Generating atomically sharp p□ junctions in graphene and testing quantum electron optics on the nanoscale. *Physical Review B*, **2018**, 97,	3.3	28
100	Controlled synthesis of 2D MoC/graphene heterostructure on liquid Au substrates as enhanced electrocatalytic electrodes. *Nanotechnology*, **2019**, 30, 385601	3.4	28
99	Valley Polarization and Inversion in Strained Graphene via Pseudo-Landau Levels, Valley Splitting of Real Landau Levels, and Confined States. *Physical Review Letters*, **2020**, 124, 106802	7.4	27
98	Flat bands near Fermi level of topological line defects on graphite. *Applied Physics Letters*, **2012**, 101, 113113	3.4	27
97	Scanning tunneling microscope study of quantum Hall isospin ferromagnetic states in the zero Landau level in a graphene monolayer. *Physical Review B*, **2019**, 100,	3.3	24
96	Experimental observation of surface states and Landau levels bending in bilayer graphene. *Physical Review B*, **2016**, 93,	3.3	24
95	Two-dimensional superconductivity at (110) LaAlO3/SrTiO3 interfaces. *Applied Physics Letters*, **2014**, 105, 192603	3.4	24
94	Splitting of Van Hove singularities in slightly twisted bilayer graphene. *Physical Review B*, **2017**, 96,	3.3	23
93	Atomic resolution imaging of the two-component Dirac-Landau levels in a gapped graphene monolayer. *Physical Review B*, **2015**, 92,	3.3	23
92	Enhanced intervalley scattering of twisted bilayer graphene by periodic AB stacked atoms. *Physical Review B*, **2012**, 85,	3.3	23
91	Direct probing of the stacking order and electronic spectrum of rhombohedral trilayer graphene with scanning tunneling microscopy. *Physical Review B*, **2015**, 91,	3.3	21
90	Bound states in nanoscale graphene quantum dots in a continuous graphene sheet. *Physical Review B*, **2017**, 95,	3.3	19
89	Magnetism near half-filling of a Van Hove singularity in twisted graphene bilayer. *Physical Review B*, **2019**, 99,	3.3	19
88	Massless Dirac fermions trapping in a quasi-one-dimensional npn junction of a continuous graphene monolayer. *Physical Review B*, **2017**, 95,	3.3	19
87	Weak ferromagnetism and spin-glass state with nanosized nickel carbide. *Journal of Applied Physics*, **2009**, 105, 123923	2.5	19

86	Anisotropy and magnetization reversal with chains of submicron-sized Co hollow spheres. *Physical Review B*, **2007**, 75,	3.3	19
85	Tunneling Spectra of a Quasifreestanding Graphene Monolayer. *Physical Review Applied*, **2018**, 9,	4.3	19
84	Stacking transition in bilayer graphene caused by thermally activated rotation. *2D Materials*, **2017**, 4, 011013	5.9	18
83	Scanning tunneling microscopy and spectroscopy of twisted trilayer graphene. *Physical Review B*, **2018**, 97,	3.3	17
82	Formation of Two-dimensional Electron Gas at Amorphous/Crystalline Oxide Interfaces. *Scientific Reports*, **2018**, 8, 404	4.9	17
81	Single-layer behavior and slow carrier density dynamic of twisted graphene bilayer. *Applied Physics Letters*, **2012**, 100, 091601	3.4	17
80	Mo Concentration Controls the Morphological Transitions from Dendritic to Semicompact, and to Compact Growth of Monolayer Crystalline MoS on Various Substrates. *ACS Applied Materials & Interfaces*, **2019**, 11, 42751-42759	9.5	16
79	Experimental evidence for orbital magnetic moments generated by moir□scale current loops in twisted bilayer graphene. *Physical Review B*, **2020**, 102,	3.3	16
78	High-Magnetic-Field Tunneling Spectra of ABC-Stacked Trilayer Graphene on Graphite. *Physical Review Letters*, **2019**, 122, 146802	7.4	15
77	Observation of chirality transition of quasiparticles at stacking solitons in trilayer graphene. *Physical Review B*, **2017**, 95,	3.3	14
76	Scanning tunneling microscopy study of the quasicrystalline 30° twisted bilayer graphene. *2D Materials*, **2019**, 6, 045041	5.9	14
75	Anomalous magnetic properties of 7 nm single-crystal Co3O4 nanowires. *Journal of Applied Physics*, **2012**, 111, 013910	2.5	14
74	Modulating the Electronic Properties of Graphene by Self-Organized Sulfur Identical Nanoclusters and Atomic Superlattices Confined at an Interface. *ACS Nano*, **2018**, 12, 10984-10991	16.7	14
73	Magnetic-field-controlled negative differential conductance in scanning tunneling spectroscopy of graphene npn junction resonators. *Physical Review B*, **2018**, 97,	3.3	13
72	Spatially resolving unconventional interface Landau quantization in a graphene monolayer-bilayer planar junction. *Physical Review B*, **2016**, 93,	3.3	13
71	Large negative magnetoresistance driven by enhanced weak localization and Kondo effect at the interface of LaAlO3 and Fe-doped SrTiO3. *Physical Review B*, **2018**, 98,	3.3	13
70	Unveiling the structural origin of the high carrier mobility of a molecular monolayer on boron nitride. *Physical Review B*, **2014**, 90,	3.3	12
69	Ultrathin □Fe2O3 Nanoribbons and Their Moir□Patterns. *Journal of Physical Chemistry C*, **2012**, 116, 6879-6883	3.8	12

68	Nanoscale detection of valley-dependent spin splitting around atomic defects of graphene. *2D Materials*, **2019**, 6, 031005	5.9	11
67	Scanning tunnelling microscope studies of angstrom-scale Co3O4 nanowires. *Nanotechnology*, **2010**, 21, 335605	3.4	11
66	Planar Hall effect induced by anisotropic orbital magnetoresistance in type-II Dirac semimetal PdTe. *Journal of Physics Condensed Matter*, **2020**, 32, 015702	1.8	11
65	Tunable magnetism of a single-carbon vacancy in graphene. *Science Bulletin*, **2020**, 65, 194-200	10.6	11
64	Coupled spin and pseudomagnetic field in graphene nanoribbons. *Physical Review B*, **2013**, 88,	3.3	10
63	Reconstruction of electrostatic field at the interface leads to formation of two-dimensional electron gas at multivalent (110)LaAlO3/SrTiO3 interfaces. *Physical Review B*, **2015**, 92,	3.3	10
62	Transition metal oxide nanowires synthesized by heating metal substrates. *Materials Research Bulletin*, **2011**, 46, 2120-2124	5.1	10
61	Tunable Lattice Reconstruction, Triangular Network of Chiral One-Dimensional States, and Bandwidth of Flat Bands in Magic Angle Twisted Bilayer Graphene. *Physical Review Letters*, **2020**, 125, 236102	7.4	9
60	Coulomb interaction in quasibound states of graphene quantum dots. *Physical Review B*, **2020**, 101,	3.3	9
59	Controlling the dendritic structure and the photo-electrocatalytic properties of highly crystalline MoS 2 on sapphire substrate. *2D Materials*, **2018**, 5, 031015	5.9	9
58	Scanning tunneling microscopy and spectroscopy of finite-size twisted bilayer graphene. *Physical Review B*, **2017**, 96,	3.3	9
57	Comment on Diameter dependence of ferromagnetic spin moment in Au nanocrystals *Physical Review B*, **2010**, 81,	3.3	9
56	Correlation-induced valley splitting and orbital magnetism in a strain-induced zero-energy flatband in twisted bilayer graphene near the magic angle. *Physical Review B*, **2020**, 102,	3.3	9
55	Enhancement of the Photoelectrocatalytic H2 Evolution on a Rutile-TiO2(001) Surface Decorated with Dendritic MoS2 Monolayer Nanoflakes. *ACS Applied Energy Materials*, **2020**, 3, 5756-5764	6.1	8
54	Local Berry Phase Signatures of Bilayer Graphene in Intervalley Quantum Interference. *Physical Review Letters*, **2020**, 125, 116804	7.4	8
53	Lattice-Matched Metal-Semiconductor Heterointerface in Monolayer CuTe. *ACS Nano*, **2021**, 15, 3415-3420	12.7	8
52	Inhibited single-electron transfer by electronic band gap of two-dimensional Au quantum dot superlattice. *Applied Physics Letters*, **2010**, 97, 113101	3.4	7
51	Evidence for surface states in a single 3 nm diameter Co3O4 nanowire. *Applied Physics Letters*, **2010**, 96, 262106	3.4	7

50	Zero-bias anomaly in one-dimensional ultrathin metallic nanowires. *AIP Advances*, **2012**, 2, 032143	1.5	7
49	Collective magnetization flux closure state with circular array of single-domained nanomagnets: Magnetization reversal and chirality control. *Journal of Applied Physics*, **2008**, 103, 114312	2.5	7
48	Twistronics in graphene-based van der Waals structures. *Chinese Physics B*, **2020**, 29, 117303	1.2	7
47	Spatial confinement, magnetic localization, and their interactions on massless Dirac fermions. *Physical Review B*, **2018**, 98,	3.3	7
46	Movable Valley Switch Driven by Berry Phase in Bilayer-Graphene Resonators. *Physical Review Letters*, **2020**, 124, 166801	7.4	6
45	In-plane chiral tunneling and out-of-plane valley-polarized quantum tunneling in twisted graphene trilayer. *Physical Review B*, **2014**, 90,	3.3	6
44	Carrier-mediated Kondo effect and Hall mobility by electrolyte gating in slightly doped anatase TiO2 films. *Physical Review B*, **2014**, 90,	3.3	6
43	Two-dimensional spinodal interface in one-step grown graphene-molybdenum carbide heterostructures. *Physical Review Materials*, **2018**, 2,	3.2	6
42	Observation of phonon peaks and electron-phonon bound states in graphene. *Physical Review B*, **2019**, 100,	3.3	5
41	Imaging the dynamics of an individual hydrogen atom intercalated between two graphene sheets. *Physical Review B*, **2018**, 97,	3.3	5
40	Influence of In-Gap States on the Formation of Two-Dimensional Election Gas at ABO/SrTiO Interfaces. *Scientific Reports*, **2018**, 8, 195	4.9	5
39	High-resolution tunneling spectroscopy of ABA-stacked trilayer graphene. *Physical Review B*, **2018**, 98,	3.3	5
38	Temperature dependence of the conductive layer thickness at the LaAlO3/SrTiO3 heterointerface. *Physical Review B*, **2017**, 96,	3.3	5
37	Unexpected Magnetic Moments in Ultrafine Diamagnetic Systems. *Journal of Physical Chemistry C*, **2010**, 114, 12487-12489	3.8	5
36	Parallel versus antiparallel interfacial exchange coupling in ferromagnet/spin-glasses. *Journal of Applied Physics*, **2011**, 109, 123915	2.5	5
35	Competition of the antiferromagnetic superexchange with the ferromagnetic double exchange in dicobalt complexes. *Applied Physics Letters*, **2010**, 97, 182509	3.4	5
34	Origin of the anomalous size dependent blocking temperature of nanoparticles. *Solid State Communications*, **2010**, 150, 743-745	1.6	5
33	Origin of room-temperature single-channel ballistic transport in zigzag graphene nanoribbons. *Science China Materials*, **2015**, 58, 677-682	7.1	4

32	Zero-magnetization ferromagnet induced by hydrogenation. *Solid State Communications*, **2011**, 151, 985-987	1.6	4
31	Comment on "Coexistence of Coulomb blockade and zero bias anomaly in a strongly coupled nanodot". *Physical Review Letters*, **2011**, 107, 079701; author reply 079702	7.4	4
30	Relativistic Artificial Molecules Realized by Two Coupled Graphene Quantum Dots. *Nano Letters*, **2020**, 20, 6738-6743	11.5	4
29	Wide-band-gap wrinkled nanoribbon-like structures in a continuous metallic graphene sheet. *Physical Review B*, **2016**, 94,	3.3	4
28	Spin-Polarized Semiconducting Band Structure of Monolayer Graphene on Ni(111). *Physical Review Applied*, **2018**, 10,	4.3	4
27	Oscillations of the Spacing between van Hove Singularities Induced by sub-Ångstrom Fluctuations of Interlayer Spacing in Graphene Superlattices.. *Physical Review Letters*, **2021**, 127, 266801	7.4	4
26	Nanoscale probing of broken-symmetry states in graphene induced by individual atomic impurities. *Physical Review B*, **2020**, 101,	3.3	3
25	Conductivity and band alignment of LaCrO 3 /SrTiO 3 (111) heterostructure. *Chinese Physics B*, **2018** , 27, 047301	1.2	3
24	Effect of exchange-type zero-bias anomaly on single-electron tunneling of Au nanoparticles. *Physical Review B*, **2011**, 84,	3.3	3
23	Recent progresses of quantum confinement in graphene quantum dots. *Frontiers of Physics*, **2022**, 17, 1	3.7	3
22	Spectroscopic Evidence for a Spin- and Valley-Polarized Metallic State in a Nonmagic-Angle Twisted Bilayer Graphene. *ACS Nano*, **2020**, 14, 13081-13090	16.7	3
21	Temperature-sensitive spatial distribution of defects in PdSe2 flakes. *Physical Review Materials*, **2021**, 5,	3.2	3
20	The Ho thickness dependence of spin-triplet supercurrents in Nb/Ho/Co/Ho/Nb films. *Solid State Communications*, **2011**, 151, 651-652	1.6	2
19	Periodic magnetoresistance oscillations induced by superconducting vortices in single crystal Au nanowires. *Nanotechnology*, **2011**, 22, 445704	3.4	2
18	The magnetic ordering temperature of Cu, Mn, and Fe elements in. *Solid State Communications*, **2010**, 150, 187-188	1.6	2
17	Enhanced Valley Polarization of Bilayer MoSe with Variable Stacking Order and Interlayer Coupling. *Journal of Physical Chemistry Letters*, **2021**, 12, 5879-5888	6.4	2
16	Coexistence of electron whispering-gallery modes and atomic collapse states in graphene/WSe heterostructure quantum dots.. *Nature Communications*, **2022**, 13, 1597	17.4	2
15	Spectroscopic characterization of Landau-level splitting and the intermediate v=0 phase in bilayer graphene. *Physical Review B*, **2020**, 101,	3.3	1

14	Enhancement of Rashba spin-orbit coupling by electron confinement at the LaAlO/SrTiO interface. *Journal of Physics Condensed Matter*, **2020**, 32, 235003	1.8	1
13	Reply to Comment on Creating in-plane pseudomagnetic fields in excess of 1000 T by misoriented stacking in a graphene bilayer *Physical Review B*, **2016**, 93,	3.3	1
12	Graphene: Controlled Growth of Single-Crystal Twelve-Pointed Graphene Grains on a Liquid Cu Surface (Adv. Mater. 37/2014). *Advanced Materials*, **2014**, 26, 6519-6519	24	1
11	Comment on Coexistence of ferromagnetism and superconductivity in Sn nanoparticles *Physical Review B*, **2010**, 82,	3.3	1
10	Large linear magnetoresistance caused by disorder in WTe thin film. *Journal of Physics Condensed Matter*, **2020**, 32, 355703	1.8	1
9	Robust atomic-structure of the 6 2 reconstruction surface of Ge(110) protected by the electronically transparent graphene monolayer. *Physical Chemistry Chemical Physics*, **2020**, 22, 22711-22718	3.6	1
8	Quantum Interferences of Pseudospin-Mediated Atomic-Scale Vortices in Monolayer Graphene. *Nano Letters*, **2021**, 21, 2526-2531	11.5	1
7	Local measurements of tunneling magneto-conductance oscillations in monolayer, Bernal-stacked bilayer, and ABC-stacked trilayer graphene. *Science China: Physics, Mechanics and Astronomy*, **2021**, 64, 1	3.6	1
6	Tailoring the Energy Landscape of Graphene Nanostructures on Graphene and Manipulating Them Using Tilt Grain Boundaries. *Physical Review Applied*, **2022**, 17,	4.3	1
5	Comment on "Evidence for quantization of mechanical rotation of magnetic nanoparticles". *Physical Review Letters*, **2010**, 105, 049701; author reply 049702	7.4	0
4	Graphene: Layer-Stacking Growth and Electrical Transport of Hierarchical Graphene Architectures (Adv. Mater. 20/2014). *Advanced Materials*, **2014**, 26, 3355-3355	24	
3	Stabilization variation of organic conductor surfaces induced by stacking interactions. *Chinese Physics B*, **2012**, 21, 056801	1.2	
2	Creating custom-designed patterns of nanoscale graphene quantum dots. *2D Materials*, **2022**, 9, 021002	5.9	
1	Interaction between in-gap states and carriers at the conductive interface between perovskite oxides. *Journal of Physics Condensed Matter*, **2018**, 30, 405002	1.8	