

# Gui-Bin Liu

## List of Publications by Year in descending order

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50  
papers

9,075  
citations

218381

26  
h-index

182168

51  
g-index

52  
all docs

52  
docs citations

52  
times ranked

9688  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupled Spin and Valley Physics in Monolayers of $\text{MoS}_2$ and Other Group-VI Dichalcogenides. <i>Physical Review Letters</i> , 2012, 108, 196802.	2.9	3,872
2	Optical signature of symmetry variations and spin-valley coupling in atomically thin tungsten dichalcogenides. <i>Scientific Reports</i> , 2013, 3, 1608.	1.6	836
3	Three-band tight-binding model for monolayers of group-VIB transition metal dichalcogenides. <i>Physical Review B</i> , 2013, 88, .	1.1	715
4	Electrical tuning of valley magnetic moment through symmetry control in bilayer $\text{MoS}_2$ . <i>Nature Physics</i> , 2013, 9, 149-153.	6.5	540
5	Electronic structures and theoretical modelling of two-dimensional group-VIB transition metal dichalcogenides. <i>Chemical Society Reviews</i> , 2015, 44, 2643-2663.	18.7	528
6	Moiré excitons: From programmable quantum emitter arrays to spin-orbit-coupled artificial lattices. <i>Science Advances</i> , 2017, 3, e1701696.	4.7	427
7	Magnetoelectric effects and valley-controlled spin quantum gates in transition metal dichalcogenide bilayers. <i>Nature Communications</i> , 2013, 4, 2053.	5.8	302
8	Dirac cones and Dirac saddle points of bright excitons in monolayer transition metal dichalcogenides. <i>Nature Communications</i> , 2014, 5, 3876.	5.8	262
9	Engineering symmetry breaking in 2D layered materials. <i>Nature Reviews Physics</i> , 2021, 3, 193-206.	11.9	135
10	Interlayer coupling in commensurate and incommensurate bilayer structures of transition-metal dichalcogenides. <i>Physical Review B</i> , 2017, 95, .	1.1	128
11	Stability, electronic, and magnetic properties of the magnetically doped topological insulators $\text{Bi}_2\text{Se}_3$ and $\text{Bi}_2\text{Te}_3$ . <i>Physical Review B</i> , 2013, 87, 041407.	1.1	126
12	Encyclopedia of emergent particles in three-dimensional crystals. <i>Science Bulletin</i> , 2022, 67, 375-380.	4.3	123
13	Artificial gravity field, astrophysical analogues, and topological phase transitions in strained topological semimetals. <i>Npj Quantum Materials</i> , 2017, 2, .	1.8	116
14	Brightened spin-triplet interlayer excitons and optical selection rules in van der Waals heterobilayers. <i>2D Materials</i> , 2018, 5, 035021.	2.0	107
15	Even-odd layer-dependent magnetotransport of high-mobility Q-valley electrons in transition metal disulfides. <i>Nature Communications</i> , 2016, 7, 12955.	5.8	82
16	Nonlinear Valley and Spin Currents from Fermi Pocket Anisotropy in 2D Crystals. <i>Physical Review Letters</i> , 2014, 113, 156603.	2.9	80
17	Intrinsic valley Hall transport in atomically thin $\text{MoS}_2$ . <i>Nature Communications</i> , 2019, 10, 611.	5.8	77
18	Intervalley coupling by quantum dot confinement potentials in monolayer transition metal dichalcogenides. <i>New Journal of Physics</i> , 2014, 16, 105011.	1.2	60



#	ARTICLE	IF	CITATIONS
37	Si-related ferrimagnetic material consisting of Eu and Fe layers. Journal of Alloys and Compounds, 2019, 776, 1-7.	2.8	6
38	An efficient method for hybrid density functional calculation with spin-orbit coupling. Computer Physics Communications, 2018, 224, 90-97.	3.0	5
39	Nonequilibrium dynamical ferromagnetism of interacting single-molecule magnets. Applied Physics Letters, 2009, 95, 183110.	1.5	4
40	Chiral-glass transition in a diluted dipolar-interaction Heisenberg system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2041-2046.	0.9	4
41	Physical Fingerprints of the 2O-t $\pm$ P Phase in Phosphorene Stacking. Journal of Physical Chemistry Letters, 2019, 10, 3190-3196.	2.1	4
42	The piezoconductive effect of suspended ultrathin graphene film. Carbon, 2019, 143, 641-649.	5.4	4
43	Electric-field-driven excitonic instability in an organometallic manganese-cyclopentadienyl wire. Physical Review B, 2021, 104, .	1.1	4
44	Temperature-dependent striped antiferromagnetism of LaFeAsO in a Green's function approach. Journal of Physics Condensed Matter, 2009, 21, 195701.	0.7	3
45	Domain structures of ultrathin magnetic nanobelts. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 3857-3860.	0.9	1
46	Fe-Vacancy-Induced Ferromagnetism in Tetragonal FeSe Thin Films. Chinese Physics Letters, 2009, 26, 127505.	1.3	1
47	A Green's function model for ferromagnetism and spin excitations of (Ga, Mn)As diluted magnetic semiconductors. Chinese Physics B, 2009, 18, 5047-5054.	0.7	1
48	First-principles studies of graphene antidot lattices on monolayer h-BN substrate. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 125944.	0.9	1
49	Optical signature of symmetry variations and spin-valley coupling in atomically thin tungsten dichalcogenides. , 0, .		1
50	Valley-selective hot electron injection from metal nanoantennas to $\text{MoS}_2$ . Physical Review B, 2022, 105, .		