

# Gang Li

## List of Publications by Year in descending order

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69  
papers

3,937  
citations

172207

29  
h-index

118652

62  
g-index

70  
all docs

70  
docs citations

70  
times ranked

5452  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bismuthene on a SiC substrate: A candidate for a high-temperature quantum spin Hall material. Science, 2017, 357, 287-290.	6.0	803
2	Magnetic Weyl semimetal phase in a Kagomé crystal. Science, 2019, 365, 1282-1285.	6.0	518
3	All Magic Angles in Twisted Bilayer Graphene are Topological. Physical Review Letters, 2019, 123, 036401.	2.9	327
4	Two-dimensional Fermi surfaces in Kondo insulator SmB <sub>6</sub> . Science, 2014, 346, 1208-1212.	6.0	252
5	Electronic structures and unusually robust bandgap in an ultrahigh-mobility layered oxide semiconductor, Bi <sub>2</sub> O <sub>2</sub> Se. Science Advances, 2018, 4, eaat8355.	4.7	167
6	Elemental Topological Insulator with Tunable Fermi Level: Strained $\text{In}_2\text{S}_3$ on InSb(001). Physical Review Letters, 2013, 111, 157205.	2.9	130
7	Observation of topological states residing at step edges of WTe <sub>2</sub> . Nature Communications, 2017, 8, 659.	5.8	129
8	Quasi-2D Inorganic CsPbBr <sub>3</sub> Perovskite for Efficient and Stable Light-Emitting Diodes. Advanced Functional Materials, 2018, 28, 1801193.	7.8	108
9	Efficient Perturbation Theory for Quantum Lattice Models. Physical Review Letters, 2009, 102, 206401.	2.9	105
10	Efficient implementation of the parquet equations: Role of the reducible vertex function and its kernel approximation. Physical Review B, 2016, 93, .	1.1	68
11	Fluctuation-induced topological quantum phase transitions in quantum spin-Hall and anomalous-Hall insulators. Physical Review B, 2012, 86, .	1.1	67
12	Phase diagram of the Hubbard model on the anisotropic triangular lattice. Physical Review B, 2015, 91, .	1.1	61
13	Magnetic order in a frustrated two-dimensional atom lattice at a semiconductor surface. Nature Communications, 2013, 4, 1620.	5.8	57
14	Theoretical paradigm for the quantum spin Hall effect at high temperatures. Physical Review B, 2018, 98, .	1.1	55
15	Charge Density Wave Orders and Enhanced Superconductivity under Pressure in the Kagome Metal CsV <sub>3</sub> Sb <sub>5</sub> . Advanced Materials, 2021, 33, e2102813.	11.1	54
16	High-frequency asymptotics of the vertex function: Diagrammatic parametrization and algorithmic implementation. Physical Review B, 2020, 102, .	1.1	53
17	Unveiling Electronic Correlation and the Ferromagnetic Superexchange Mechanism in the van der Waals Crystal $\text{CrSiTe}_3$ . Physical Review Letters, 2019, 123, 047203.	2.9	52
18	Pressure-Induced Topological and Structural Phase Transitions in an Antiferromagnetic Topological Insulator*. Chinese Physics Letters, 2020, 37, 066401.	1.3	50

#	ARTICLE	IF	CITATIONS
19	Edge State Engineering of Graphene Nanoribbons. Nano Letters, 2018, 18, 5744-5751.	4.5	49
20	Quantum Anomalous Hall State in Ferromagnetic SrRuO <sub>3</sub> (111) Bilayers. Physical Review Letters, 2017, 119, 026402.	2.9	47
21	Persistent surface states with diminishing gap in MnBi <sub>2</sub> Te <sub>4</sub> /Bi <sub>2</sub> Te <sub>3</sub> superlattice antiferromagnetic topological insulator. Science Bulletin, 2020, 65, 2086-2093.	4.3	44
22	Topological origin of the type-II Dirac fermions in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi} \rangle \text{PtSe} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \text{ /} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ . Physical Review Materials, 2017, 1, .	0.9	44
23	Hubbard model on the triangular lattice using dynamical cluster approximation and dual fermion methods. Physical Review B, 2008, 78, .	1.1	42
24	The effect of hydrogen etching on 6H-SiC studied by temperature-dependent current-voltage and atomic force microscopy. Applied Physics Letters, 2004, 85, 1547-1549.	1.5	38
25	Magnetic exchange induced Weyl state in a semimetal EuCd <sub>2</sub> Sb <sub>2</sub> . APL Materials, 2020, 8, .	2.2	37
26	Testing topological protection of edge states in hexagonal quantum spin Hall candidate materials. Physical Review B, 2018, 98, .	1.1	32
27	Competing phases of the Hubbard model on a triangular lattice: Insights from the entropy. Physical Review B, 2014, 89, .	1.1	31
28	Doping evolution of the charge excitations and electron correlations in electron-doped superconducting La <sub>2-x</sub> Ce <sub>x</sub> CuO <sub>4</sub> . Npj Quantum Materials, 2020, 5, .	1.8	31
29	Topological nature and the multiple Dirac cones hidden in Bismuth high-T <sub>c</sub> superconductors. Scientific Reports, 2015, 5, 10435.	1.6	30
30	Photoemission study of the electronic structure of valence band convergent SnSe. Physical Review B, 2017, 96, .	1.1	30
31	Anomalous Hall effect in ferrimagnetic metal RMn <sub>6</sub> Sn <sub>6</sub> (R = Tb, Dy, Ho) with clean Mn kagome lattice. Applied Physics Letters, 2021, 119, .	1.5	29
32	Hidden physics in the dual-fermion approach: A special case of a nonlocal expansion scheme. Physical Review B, 2015, 91, .	1.1	27
33	Triangular Spin-Orbit-Coupled Lattice with Strong Coulomb Correlations: Sn Atoms on a SiC(0001) Substrate. Physical Review Letters, 2015, 114, 247602.	2.9	27
34	Topological Dirac semimetal phase in Pd and Pt oxides. Physical Review B, 2017, 95, .	1.1	26
35	Triply degenerate nodal points and topological phase transitions in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{NaCu} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ . Physical Review B, 2017, 96, .	1.1	26
36	The victory project v1.0: An efficient parquet equations solver. Computer Physics Communications, 2019, 241, 146-154.	3.0	22

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37	Atomic-Scale Mapping of Layer-by-Layer Hydrogen Etching and Passivation of SiC(0001) Substrates. Journal of Physical Chemistry C, 2016, 120, 10361-10367.	1.5	20
38	Geometrical frustration and the competing phases of the Sn/Si(111) systems. Physical Review B, 2011, 83, . $\sqrt{3} \times \sqrt{3} \times \sqrt{3} \times \sqrt{3}$	1.1	18
39	Momentum structure of the self-energy and its parametrization for the two-dimensional Hubbard model. Physical Review B, 2016, 93, .	1.1	18
40	Parquet approximation for molecules: Spectrum and optical conductivity of the Pariser-Parr-Pople model. Physical Review B, 2019, 99, .	1.1	18
41	Determination of the lattice susceptibility within the dual fermion method. Physical Review B, 2008, 78, .	1.1	16
42	Effective lifting of the topological protection of quantum spin Hall edge states by edge coupling. Nature Communications, 2022, 13, .	5.8	13
43	Negative Te spin polarization responsible for ferromagnetic order in the doped topological insulator $V_{0.04}Bi_{1-x}Sb_x$ . Physical Review B, 2019, 99, .	1.1	12
44	Model Hamiltonian for the Quantum Anomalous Hall State in Iron-Halogenide. Chinese Physics Letters, 2020, 37, 097301.	1.3	12
45	Quantum Oscillations in Noncentrosymmetric Weyl Semimetal SmAlSi. Chinese Physics Letters, 2022, 39, 047501.	1.3	12
46	Accessing thermodynamics from dynamical cluster-embedding approaches. Physical Review B, 2009, 80, .	1.1	11
47	Phase diagram of interacting Fermi gas in spin-orbit coupled square lattices. New Journal of Physics, 2015, 17, 073036.	1.2	11
48	Competition between antiferromagnetic and charge density wave fluctuations in the extended Hubbard model. Physical Review B, 2019, 100, .	1.1	10
49	Absorption edge, Urbach tail, and electron-phonon interactions in topological insulator Bi <sub>2</sub> Se <sub>3</sub> and band insulator (Bi <sub>0.89</sub> In <sub>0.11</sub> ) <sub>2</sub> Se <sub>3</sub> . Applied Physics Letters, 2019, 114, .	1.5	10
50	Evidence of a topological edge state in a superconducting nonsymmorphic nodal-line semimetal. Physical Review B, 2021, 103, .	1.1	10
51	Nonsymmorphic symmetry-protected band crossings in a square-net metal PtPb <sub>4</sub> . Npj Quantum Materials, 2022, 7, .	1.8	10
52	Pressure-induced superconductivity and structure phase transition in Pt <sub>2</sub> HgSe <sub>3</sub> . Npj Quantum Materials, 2021, 6, .	1.8	10
53	Interacting weak topological insulators and their transition to Dirac semimetal phases. Physical Review B, 2015, 92, .	1.1	9
54	Possible Phason-Polaron Effect on Purely One-Dimensional Charge Order of $Mo_6$ Nanowires. Physical Review X, 2020, 10, .	2.8	9

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55	Ultrafast Momentum-Resolved Hot Electron Dynamics in the Two-Dimensional Topological Insulator Bismuthene. <i>Nano Letters</i> , 2022, 22, 5420-5426.	4.5	9
56	Electron-plasmon interaction induced plasmonic-polaron band replication in epitaxial perovskite SrIrO <sub>3</sub> films. <i>Science Bulletin</i> , 2021, 66, 433-440.	4.3	6
57	Multitype Dirac fermions protected by orthogonal glide symmetries in a noncentrosymmetric system. <i>Physical Review B</i> , 2020, 102, .	1.1	5
58	Synthesis and characterization of aluminum diboride products using <sup>27</sup> Al, <sup>11</sup> B NMR and ab initio studies. <i>Journal of Materials Science</i> , 2018, 53, 3309-3322.	1.7	4
59	Nodal plane and persistent spin texture in a Weyl semimetal without mirror symmetry. <i>Physical Review B</i> , 2020, 101, .	1.1	4
60	Non-ferroelectricity from semicovalent superexchange in bismuth ferrite. <i>Physical Review B</i> , 2021, 104, .		
61	Dual topological states in the layered titanium-based oxypnictide superconductor BaTi <sub>2</sub> Sb <sub>2</sub> O. <i>Npj Quantum Materials</i> , 2022, 7, .	1.8	3
62	Ferromagnetism in an Itinerant Electron Cluster. <i>Communications in Theoretical Physics</i> , 2005, 44, 188-192.	1.1	2
63	Efficient treatment of the high-frequency tail of the self-energy function and its relevance for multiorbital models. <i>Physical Review B</i> , 2012, 85, .	1.1	2
64	Evolution of superconducting gap anisotropy in hole-doped 122 iron pnictides. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600350.	0.7	2
65	Publisher's Note: Triply degenerate nodal points and topological phase transitions in NaCu <sub>3</sub> Te <sub>2</sub> [Phys. Rev. B 96 , 241204(R) (2017)]. <i>Physical Review B</i> , 2020, 102, .	1.1	1
66	Reentrant metal-insulator transition and competing magnetic interactions on a triangular lattice with second nearest-neighbor hopping. <i>Physical Review B</i> , 2021, 103, .	1.1	1
67	Transport anomalies in the layered compound BaPt <sub>4</sub> Se <sub>6</sub> . <i>Npj Quantum Materials</i> , 2021, 6, .	1.8	1
68	Quantum Monte Carlo Studies of Strongly Correlated Electron Systems. , 2010, , 503-516.		0
69	Quantum Spin Hall States in 2D Bismuth-Based Materials. <i>Springer Series in Materials Science</i> , 2019, , 351-379.	0.4	0