G-F Chen

List of Publications by Citations

120 papers	7,808 citations	36 h-index	88 g-index
129 ext. papers	8,757 ext. citations	6.9 avg, IF	5.44 L-index

#	Paper	IF	Citations
120	Magnetic order close to superconductivity in the iron-based layered LaO1-xFxFeAs systems. *Nature*, **2008**, 453, 899-902	50.4	1632
119	Superconductivity at 41 K and its competition with spin-density-wave instability in layered CeO1-xFxFeAs. *Physical Review Letters*, **2008**, 100, 247002	7.4	967
118	Observation of the Chiral-Anomaly-Induced Negative Magnetoresistance in 3D Weyl Semimetal TaAs. *Physical Review X*, **2015**, 5,	9.1	752
117	Observation of Weyl nodes in TaAs. *Nature Physics*, **2015**, 11, 724-727	16.2	683
116	Spin and lattice structures of single-crystalline SrFe2As2. *Physical Review B*, **2008**, 78,	3.3	178
115	Superconductivity in a Copper(II)-Based Coordination Polymer with Perfect Kagome Structure. *Angewandte Chemie - International Edition*, **2018**, 57, 146-150	16.4	152
114	Superconducting properties of the Fe-based layered superconductor LaFeAsO0.9F0.1-delta. *Physical Review Letters*, **2008**, 101, 057007	7.4	143
113	Superconductivity above 30 K in alkali-metal-doped hydrocarbon. *Scientific Reports*, **2012**, 2, 389	4.9	136
112	Electronic evidence of temperature-induced Lifshitz transition and topological nature in ZrTe. *Nature Communications*, **2017**, 8, 15512	17.4	131
111	Momentum dependence of superconducting gap, strong-coupling dispersion kink, and tightly bound Cooper pairs in the high-Tc (Sr,Ba)1⊠(K,Na)xFe2As2 superconductors. *Physical Review B*, **2008**, 78,	3.3	122
110	Magnetic order of the iron spins in NdFeAsO. *Physical Review B*, **2008**, 78,	3.3	119
109	Superconducting state coexisting with a phase-separated static magnetic order in (Ba,K)Fe2As2, (Sr,Na)Fe2As2, and CaFe2As2. *Physical Review B*, **2009**, 80,	3.3	115
108	Electronic structure of the BaFe2As2 family of iron-pnictide superconductors. *Physical Review B*, **2009**, 80,	3.3	110
107	Optical spectroscopy of the Weyl semimetal TaAs. *Physical Review B*, **2016**, 93,	3.3	108
106	Doping evolution of antiferromagnetic order and structural distortion in LaFeAsO1⊠Fx. *Physical Review B*, **2008**, 78,	3.3	96
105	Multiple phase transitions in single-crystalline Na_{1-delta}FeAs. *Physical Review Letters*, **2009**, 102, 227004	7.4	95
104	Superconductivity in potassium-doped few-layer graphene. *Journal of the American Chemical Society*, **2012**, 134, 6536-9	16.4	93

103	Observation of Fermi-Arc Spin Texture in TaAs. *Physical Review Letters*, **2015**, 115, 217601	7.4	89
102	Muon-spin-relaxation studies of magnetic order and superfluid density in antiferromagnetic NdFeAsO, BaFe2As2, and superconducting Ba1⊠KxFe2As2. *Physical Review B*, **2008**, 78,	3.3	84
101	Evidence for Topological Edge States in a Large Energy Gap near the Step Edges on the Surface of ZrTe5. *Physical Review X*, **2016**, 6,	9.1	82
100	Resistivity and Upper Critical Field in KFe2As2 Single Crystals. *Journal of the Physical Society of Japan*, **2009**, 78, 063702	1.5	80
99	Three-component fermions with surface Fermi arcs in tungsten carbide. *Nature Physics*, **2018**, 14, 349-354	16.2	75
98	Two superconducting gaps in LaFeAsO0.92F0.08 revealed by A75s nuclear quadrupole resonance. *Physical Review B*, **2008**, 78,	3.3	74
97	Stretchable Supercapacitor with Adjustable Volumetric Capacitance Based on 3D Interdigital Electrodes. *Advanced Functional Materials*, **2015**, 25, 4601-4606	15.6	69
96	Possible nodal superconducting gap and Lifshitz transition in heavily hole-doped Ba0.1K0.9Fe2As2. *Physical Review B*, **2013**, 88,	3.3	68
95	Fermi surface dichotomy of the superconducting gap and pseudogap in underdoped pnictides. *Nature Communications*, **2011**, 2, 394	17.4	63
94	Temperature-Driven Topological Phase Transition and Intermediate Dirac Semimetal Phase in ZrTe_{5}. *Physical Review Letters*, **2018**, 121, 187401	7.4	61
93	Magnetotransport properties of the triply degenerate node topological semimetal tungsten carbide. *Physical Review B*, **2017**, 95,	3.3	54
92	Raman phonons of □FeTe and Fe1.03Se0.3Te0.7 single crystals. *Physical Review B*, **2009**, 79,	3.3	52
91	Fermi surface and band renormalization of Sr1⊠KxFe2As2 from angle-resolved photoemission spectroscopy. *Physical Review B*, **2008**, 78,	3.3	46
90	Band-structure reorganization across the magnetic transition in BaFe2As2 seen via high-resolution angle-resolved photoemission. *Physical Review B*, **2009**, 80,	3.3	45
89	Structural and Magnetic Phase Transitions near Optimal Superconductivity in BaFe2(As(1-x)Px)2. *Physical Review Letters*, **2015**, 114, 157002	7.4	42
88	Tracking Ultrafast Photocurrents in the Weyl Semimetal TaAs Using THz Emission Spectroscopy. *Physical Review Letters*, **2019**, 122, 197401	7.4	40
87	Superconductivity at 5 K in quasi-one-dimensional Cr-based KCr3As3 single crystals. *Physical Review B*, **2017**, 96,	3.3	37
86	Nodeless superconductivity in noncentrosymmetric PbTaSe2 single crystals. *Physical Review B*, **2016**, 93,	3.3	36

85	Ion-exchange synthesis and superconductivity at 8.6 K of Na2Cr3As3 with quasi-one-dimensional crystal structure. *Physical Review Materials*, **2018**, 2,	3.2	36
84	Superconducting Continuous Graphene Fibers via Calcium Intercalation. *ACS Nano*, **2017**, 11, 4301-4306	16.7	35
83	Temperature-tunable Fano resonance induced by strong coupling between Weyl fermions and phonons in TaAs. *Nature Communications*, **2017**, 8, 14933	17.4	34
82	Atom-Thin SnS2-xSex with Adjustable Compositions by Direct Liquid Exfoliation from Single Crystals. *ACS Nano*, **2016**, 10, 755-62	16.7	33
81	Quasi-two-dimensional massless Dirac fermions in CaMnSb2. *Physical Review B*, **2017**, 95,	3.3	32
80	Superconductivity in a Copper(II)-Based Coordination Polymer with Perfect Kagome Structure. *Angewandte Chemie*, **2018**, 130, 152-156	3.6	31
79	Dopant clustering, electronic inhomogeneity, and vortex pinning in iron-based superconductors. *Physical Review B*, **2013**, 87,	3.3	31
78	Carbonized poly(vinylidene fluoride)/graphene oxide with three-dimensional multiscale-pore architecture as an advanced electrode material. *Journal of Materials Chemistry A*, **2015**, 3, 7715-7718	13	30
77	Unified Phase Diagram for Iron-Based Superconductors. *Physical Review Letters*, **2017**, 119, 157001	7.4	29
76	Role of the 245 phase in alkaline iron selenide superconductors revealed by high-pressure studies. *Physical Review B*, **2014**, 89,	3.3	29
75	Similar ultrafast dynamics of several dissimilar Dirac and Weyl semimetals. *Journal of Applied Physics*, **2017**, 122, 223102	2.5	27
74	Pressure-induced lattice collapse in the tetragonal phase of single-crystalline Fe1.05Te. *Physical Review B*, **2009**, 80,	3.3	27
73	Rewriting the Superconductivity in Iron-Based Superconductors by Lithium-Ion Insertion and Extraction. *Advanced Materials*, **2015**, 27, 4224-8	24	26
72	Raman study of lattice dynamics in the Weyl semimetal TaAs. *Physical Review B*, **2015**, 92,	3.3	25
71	Granularity and vortex dynamics in LaFeAsO0.92F0.08 probed by harmonics of the ac magnetic susceptibility. *Physical Review B*, **2008**, 78,	3.3	25
70	Pressure-induced topological phase transitions and strongly anisotropic magnetoresistance in bulk black phosphorus. *Physical Review B*, **2017**, 95,	3.3	24
69	Temperature-induced Lifshitz transition in topological insulator candidate HfTe5. *Science Bulletin*, **2017**, 62, 950-956	10.6	23
68	Emergence of superconductivity in doped glassy-carbon. *Carbon*, **2016**, 99, 585-590	10.4	23

67	Nonequilibrium quasiparticle relaxation dynamics in single crystals of hole- and electron-doped BaFe2As2. *Physical Review B*, **2011**, 84,	3.3	23
66	Unexpected weak spatial variation in the local density of states induced by individual Co impurity atoms in superconducting Na(Fe1−xCox)As crystals revealed by scanning tunneling spectroscopy. *Physical Review B*, **2012**, 86,	3.3	23
65	Large transverse thermoelectric figure of merit in a topological Dirac semimetal. *Science China: Physics, Mechanics and Astronomy*, **2020**, 63, 1	3.6	23
64	Spontaneous Formation of a Superconductor-Topological Insulator-Normal Metal Layered Heterostructure. *Advanced Materials*, **2016**, 28, 5013-7	24	22
63	Magnetotransport properties of the type-II Weyl semimetal candidate Ta3S2. *Physical Review B*, **2016**, 94,	3.3	21
62	Quantum-critical phase from frustrated magnetism in a strongly correlated metal. *Nature Physics*, **2019**, 15, 1261-1266	16.2	21
61	Topologically Entangled Rashba-Split Shockley States on the Surface of Grey Arsenic. *Physical Review Letters*, **2017**, 118, 046802	7.4	20
60	Direct Pen Writing of High-Tc, Flexible Magnesium Diboride Superconducting Arrays. *Advanced Materials*, **2015**, 27, 3614-9	24	20
59	Superconductivity in HfTe across weak to strong topological insulator transition induced via pressures. *Scientific Reports*, **2017**, 7, 44367	4.9	19
58	Correlation-induced self-doping in the iron-pnictide superconductor Ba2Ti2Fe2As4O. *Physical Review Letters*, **2014**, 113, 266407	7.4	19
57	Evidence for a full energy gap in the nickel pnictide superconductor LaNiAsO1−xFx from A75s nuclear quadrupole resonance. *Physical Review B*, **2010**, 81,	3.3	17
56	Magnetotransport properties in a compensated semimetal gray arsenic. *Physical Review B*, **2017**, 95,	3.3	16
55	Anisotropic multichain nature and filamentary superconductivity in the charge density wave system HfTe3. *Physical Review B*, **2017**, 96,	3.3	16
54	Intergrain Effects in the AC Susceptibility of Polycrystalline LaFeAsO0.94F0.06. *Journal of Low Temperature Physics*, **2011**, 162, 40-51	1.3	16
53	Thermal Hall conductivity as a probe of gap structure in multiband superconductors: The case of Ba1−xKxFe2As2. *Physical Review B*, **2012**, 86,	3.3	16
52	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. *Physical Review B*, **2020**, 101,	3.3	15
51	Spin excitations in optimally P-doped BaFe2(As0.7P0.3)2 superconductor. *Physical Review B*, **2016**, 94,	3.3	14
50	Observation of open-orbit Fermi surface topology in the extremely large magnetoresistance semimetal MoAs2. *Physical Review B*, **2017**, 96,	3.3	14

49	Superconducting fluctuations in isovalently substituted BaFe2(As1−xPx)2: Possible observation of multiband effects. *Physical Review B*, **2015**, 92,	3.3	13
48	Intrinsic and extrinsic electrical and thermal transport of bulk black phosphorus. *Physical Review B*, **2018**, 97,	3.3	11
47	Spin excitation anisotropy in the optimally isovalent-doped superconductor BaFe2(As0.7P0.3)2. *Physical Review B*, **2017**, 96,	3.3	11
46	Giant Magnetic Quantum Oscillations in the Thermal Conductivity of TaAs: Indications of Chiral Zero Sound. *Physical Review X*, **2019**, 9,	9.1	10
45	Interfacial Superconductivity on the Topological Semimetal Tungsten Carbide Induced by Metal Deposition. *Advanced Materials*, **2020**, 32, e1907970	24	10
44	Magnetic form factor of SrFe2As2: Neutron diffraction measurements. *Physical Review B*, **2010**, 81,	3.3	10
43	Unconventional Hall response in the quantum limit of HfTe. *Nature Communications*, **2020**, 11, 5926	17.4	10
42	Superconductivity induced at a point contact on the topological semimetal tungsten carbide. *Physical Review B*, **2019**, 100,	3.3	10
41	Ultrafast hot carrier dynamics of ZrTe5 from time-resolved optical reflectivity. *Physical Review B*, **2019**, 99,	3.3	9
40	Superconductivity in BiOSCl with Bi-Cl Planar Layers. *Journal of the American Chemical Society*, **2019**, 141, 3404-3408	16.4	8
39	Granularity and Linear Flux Dynamics in Sintered LaO0.92F0.08FeAs. *Journal of Superconductivity and Novel Magnetism*, **2009**, 22, 609-612	1.5	8
38	Very high upper critical fields of F-doped Fe-based layered superconductors NdO0.88F0.12FeAs and CeO0.88F0.12FeAs **2008**, 51, 715-718		8
37	Landau diamagnetism and Weyl-fermion excitations in TaAs revealed by As75 NMR and NQR. *Physical Review B*, **2020**, 101,	3.3	7
36	Interplay between multiple charge-density waves and the relationship with superconductivity in PdxHoTe3. *Physical Review B*, **2016**, 93,	3.3	7
35	Nonsaturating magnetoresistance, anomalous Hall effect, and magnetic quantum oscillations in the ferromagnetic semimetal PrAlSi. *Physical Review B*, **2020**, 102,	3.3	6
34	Infrared spectroscopic studies of the topological properties in CaMnSb2. *Physical Review B*, **2018**, 98,	3.3	6
33	Fermiology of ZrTe with triply degenerate nodes and highly anisotropic magnetization. *Physical Review B*, **2020**, 101,	3.3	5
32	Synthesis and superconductivity of a novel quasi-one-dimensional ternary molybdenum pnictide Cs2Mo3As3. *APL Materials*, **2020**, 8, 031103	5.7	5

31	Two superconducting phases induced at point contacts on the Weyl semimetal TaAs. *Physical Review B*, **2020**, 101,	3.3	5
30	Structural phase transition, antiferromagnetism and two superconducting domes in LaFeAsO1-xFx (0 Science China: Physics, Mechanics and Astronomy, **2018**, 61, 1	3.6	5
29	Quasiparticle dynamics and electron-phonon coupling in Weyl semimetal TaAs. *Physical Review Materials*, **2020**, 4,	3.2	5
28	Quasi-one-dimensional superconductivity in the pressurized charge-density-wave conductor HfTe3. *Npj Quantum Materials*, **2021**, 6,	5	5
27	Deviating band symmetries and many-body interactions in a model hole-doped iron pnictide superconductor. *Physical Review B*, **2012**, 86,	3.3	4
26	Orbital selectivity of layer-resolved tunneling in the iron-based superconductor Ba0.6K0.4Fe2As2. *Physical Review B*, **2020**, 102,	3.3	4
25	Superconductivity in LaPd2Bi2 with CaBe2Ge2-type structure. *Science China: Physics, Mechanics and Astronomy*, **2018**, 61, 1	3.6	4
24	Pressure-Induced Superconductivity up to 9 K in the Quasi-One-Dimensional KMn_{6}Bi_{5}.. *Physical Review Letters*, **2022**, 128, 187001	7.4	4
23	Extremely large magnetoresistance and Shubnikov–de Haas oscillations in the compensated semimetal W2As3. *Physical Review B*, **2019**, 99,	3.3	3
22	Mid-infrared transient reflectance study of the Dirac semimetal Cd3As2 under strong optical pumping. *Physical Review B*, **2020**, 101,	3.3	3
21	Spatially Resolved X-ray Photoemission Electron Microscopy of Weyl Semimetal NbAs. *Crystal Growth and Design*, **2018**, 18, 5210-5213	3.5	3
20	Supercapacitors: Stretchable Supercapacitor with Adjustable Volumetric Capacitance Based on 3D Interdigital Electrodes (Adv. Funct. Mater. 29/2015). *Advanced Functional Materials*, **2015**, 25, 4562-4562	15.6	3
19	Photocurrent-driven transient symmetry breaking in the Weyl semimetal TaAs. *Nature Materials*, **2021**,	27	3
18	Tip-induced superconductivity on the topological semimetals TaAs2 and NbAs2. *Physical Review B*, **2020**, 102,	3.3	3
17	Hexagonal Phase Intergrown with the Tetragonal Weyl Semimetal TaAs. *Crystal Growth and Design*, **2017**, 17, 1747-1751	3.5	2
16	Tailorable graphene-based superconducting films via self-assembly and in-situ doping. *Carbon*, **2019**, 152, 527-531	10.4	2
15	Superconducting Interfaces between Weyl Semimetal and Normal Metal. *Advanced Quantum Technologies*, **2020**, 3, 2000020	4.3	2
14	Superconductivity at the Normal Metal/Dirac Semimetal Cd3As2 Interface. *Chinese Physics Letters*, **2020**, 37, 077401	1.8	2

13	Inelastic Electron Tunneling in 2H-Ta_{x}Nb_{1-x}Se_{2} Evidenced by Scanning Tunneling Spectroscopy. *Physical Review Letters*, **2020**, 124, 106403	7.4	1
12	Optical properties of FeAs-based parent compound: A comparative study for polycrystalline EuFe2As2 and LaFeAsO. *Frontiers of Physics in China*, **2009**, 4, 459-463		1
11	Large unsaturated transverse and negative longitudinal magnetoresistance in the compensated semimetal MoGe2. *Physical Review B*, **2021**, 103,	3.3	1
10	Electronic structure examination of the topological properties of CaMnSb2 by angle-resolved photoemission spectroscopy. *Physical Review B*, **2021**, 103,	3.3	1
9	Rapid Sonochemical Synthesis of an Intercalated Superconductor. *ChemistrySelect*, **2018**, 3, 5652-5659	1.8	1
8	Tip-induced superconductivity commonly existing in the family of transition-metal dipnictides MP n 2. *Chinese Physics B*, **2021**, 30, 017304	1.2	1
7	Direct Observation of Coherent Longitudinal and Shear Acoustic Phonons in TaAs Using Ultrafast X-Ray Diffraction.. *Physical Review Letters*, **2022**, 128, 155301	7.4	0
6	Superconductivity: Rewriting the Superconductivity in Iron-Based Superconductors by Lithium-Ion Insertion and Extraction (Adv. Mater. 28/2015). *Advanced Materials*, **2015**, 27, 4106-4106	24	
5	Multiple Superconducting Gaps and Anisotropic Spin Fluctuations in Hole-Doped and Electron-Doped Iron-Pnictides: NMR Studies. *Journal of Superconductivity and Novel Magnetism*, **2010**, 23, 609-612	1.5	
4	Synthesis, structures and physical properties of new transition metal fluoroselenides Ba3F2MSe3 (M = Zn, Cd). *Journal of Solid State Chemistry*, **2022**, 307, 122842	3.3	
3	Structural Channels and Atomic-Cluster Insertion in CsBiTe (1 □x □1.25) As Observed by Aberration-Corrected Scanning Transmission Electron Microscopy. *Inorganic Chemistry*, **2016**, 55, 12791-12797	5.1	
2	Magnetotransport Properties of a Nodal Line Semimetal TiSi. *Chinese Physics Letters*, **2018**, 35, 117101	1.8	
1	Bulk superconductivity in one-step grown Fe(Te,Se) crystals free of interstitial iron by minor Mn doping. *Science China Materials*,1	7.1	