

# G-F Chen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8071358/publications.pdf>

Version: 2024-02-01

126  
papers

9,449  
citations

76294

40  
h-index

37183

96  
g-index

129  
all docs

129  
docs citations

129  
times ranked

7685  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic order close to superconductivity in the iron-based layered LaO <sub>1-x</sub> F <sub>x</sub> FeAs systems. Nature, 2008, 453, 899-902.	13.7	1,725
2	Superconductivity at 41 K and its Competition with Spin-Density-Wave Instability in Layered $\text{CeO}_{1-x}\text{F}_x\text{FeAs}$ . Physical Review Letters, 2008, 100, 247002.	2.8	996
3	Observation of the Chiral-Anomaly-Induced Negative Magnetoresistance in 3D Weyl Semimetal TaAs. Physical Review X, 2015, 5, .	6.5	867
4	Observation of Weyl nodes in TaAs. Nature Physics, 2015, 11, 724-727.	7.2	233
5	Superconductivity in a Copper(II)-Based Coordination Polymer with Perfect Kagome Structure. Angewandte Chemie - International Edition, 2018, 57, 146-150.	5.8	190
6	Electronic evidence of temperature-induced Lifshitz transition and topological nature in ZrTe <sub>5</sub> . Nature Communications, 2017, 8, 15512.	1.6	155
7	Spin and lattice structures of single-crystalline $\text{SrFe}_2\text{As}_2$ . Physical Review B, 2008, 78, .	1.1	146
8	Superconductivity above 30 K in alkali-metal-doped hydrocarbon. Scientific Reports, 2012, 2, 389.	1.1	127
9	Superconducting Properties of the Fe-Based Layered Superconductor $\text{LaFeAsO}_{0.9}\text{F}_{0.1}$ . Physical Review Letters, 2008, 101, 057007.	1.1	122
10	Optical spectroscopy of the Weyl semimetal TaAs. Physical Review B, 2016, 93, .	2.9	115
11	Momentum dependence of superconducting gap, strong-coupling dispersion kink, and tightly bound Cooper pairs in the high-T <sub>c</sub> (Sr,Ba) <sub>1-x</sub> (K,Na) <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> superconductors. Physical Review B, 2008, 78, .	6.5	109
12	Magnetic order of the iron spins in NdFeAsO. Physical Review B, 2008, 78, .	6.6	106
13	Superconducting state coexisting with a phase-separated static magnetic order in $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2009, 80, .	2.8	105
14	Electronic structure of the $\text{BaFe}_2\text{As}_2$ of iron-pnictide superconductors. Physical Review B, 2009, 80, .		
15	Observation of Fermi-Arc Spin Texture in TaAs. Physical Review Letters, 2015, 115, 217601.		
16	Three-component fermions with surface Fermi arcs in tungsten carbide. Nature Physics, 2018, 14, 349-354.		
17	Superconductivity in Potassium-Doped Few-Layer Graphene. Journal of the American Chemical Society, 2012, 134, 6536-6539.		
18	Evidence for Topological Edge States in a Large Energy Gap near the Step Edges on the Surface of $\text{ZrTe}_5$ . Physical Review X, 2016, 6, .		

#	ARTICLE	IF	CITATIONS
19	Multiple Phase Transitions in Single-Crystalline $\text{NaFeAsO}$ . Physical Review Letters, 2009, 102, 227004.	2.9	104
20	Doping evolution of antiferromagnetic order and structural distortion in $\text{LaFeAsO}$ . Physical Review B, 2008, 78, .	1.1	103
21	Temperature-Driven Topological Phase Transition and Intermediate Dirac Semimetal Phase in $\text{ZrTe}_5$ . Physical Review Letters, 2018, 121, 187401.	2.9	93
22	Muon-spin-relaxation studies of magnetic order and superfluid density in antiferromagnetic $\text{NdFeAsO}$ , $\text{BaFe}_2\text{As}_2$ , and superconducting $\text{Ba}_{1-x}\text{KxFe}_2\text{As}_2$ . Physical Review B, 2008, 78, .	1.1	89
23	Resistivity and Upper Critical Field in $\text{KFe}_2\text{As}_2$ Single Crystals. Journal of the Physical Society of Japan, 2009, 78, 063702.	0.7	84
24	Stretchable Supercapacitor with Adjustable Volumetric Capacitance Based on 3D Interdigital Electrodes. Advanced Functional Materials, 2015, 25, 4601-4606.	7.8	79
25	Magnetotransport properties of the triply degenerate node topological semimetal tungsten carbide. Physical Review B, 2017, 95, .	1.1	76
26	Tracking Ultrafast Photocurrents in the Weyl Semimetal TaAs Using THz Emission Spectroscopy. Physical Review Letters, 2019, 122, 197401.	2.9	76
27	Two superconducting gaps in $\text{LaFeAsO}$ . Physical Review B, 2009, 79, 040501.	1.1	74
28	Possible "nodal" superconducting gap and Lifshitz transition in heavily hole-doped $\text{BaKFe}_2\text{As}_2$ . Physical Review B, 2011, 83, 040501.	1.1	74
29	Fermi surface dichotomy of the superconducting gap and pseudogap in underdoped pnictides. Nature Communications, 2011, 2, 394.	5.8	72
30	Quantum-critical phase from frustrated magnetism in a strongly correlated metal. Nature Physics, 2019, 15, 1261-1266.	6.5	66
31	Raman phonons of $\text{FeTe}$ . Physical Review B, 2009, 79, 040501.	1.1	59
32	Superconductivity at 5 K in quasi-one-dimensional Cr-based $\text{KCr}_3$ single crystals. Physical Review B, 2017, 96, .	1.1	58
33	Temperature-tunable Fano resonance induced by strong coupling between Weyl fermions and phonons in TaAs. Nature Communications, 2017, 8, 14933.	5.8	57
34	Quasi-two-dimensional massless Dirac fermions in $\text{CaMnSb}_2$ . Physical Review B, 2017, 95, .	1.1	55
35	Structural and Magnetic Phase Transitions near Optimal Superconductivity in $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2011, 83, 040501.	1.1	55

#	ARTICLE	IF	CITATIONS
37	Fermi surface and band renormalization of Sr <sub>1-x</sub> K <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> from angle-resolved photoemission spectroscopy. Physical Review B, 2008, 78, .	1.1	49
38	Band-structure reorganization across the magnetic transition in BaFe <sub>2</sub> As <sub>2</sub> seen via high-resolution angle-resolved photoemission. Physical Review B, 2009, 80, .	1.1	47
39	Superconducting Continuous Graphene Fibers via Calcium Intercalation. ACS Nano, 2017, 11, 4301-4306.	7.3	47
40	Nodeless superconductivity in noncentrosymmetric $\text{PbTaSe}_2$ crystals. Physical Review B, 2016, 93, .	1.1	45
41	Superconductivity in a Copper(II)-Based Coordination Polymer with Perfect Kagome Structure. Angewandte Chemie, 2018, 130, 152-156.	1.6	43
42	Large transverse thermoelectric figure of merit in a topological Dirac semimetal. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	41
43	Unified Phase Diagram for Iron-Based Superconductors. Physical Review Letters, 2017, 119, 157001.	2.9	40
44	Atom-Thin SnS <sub>2</sub> with Adjustable Compositions by Direct Liquid Exfoliation from Single Crystals. ACS Nano, 2016, 10, 755-762.	7.3	39
45	Temperature-induced Lifshitz transition in topological insulator candidate HfTe <sub>5</sub> . Science Bulletin, 2017, 62, 950-956.	4.3	35
46	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.	5.2	34
47	Dopant clustering, electronic inhomogeneity, and vortex pinning in iron-based superconductors. Physical Review B, 2013, 87, .	1.1	33
48	Pressure-induced topological phase transitions and strongly anisotropic magnetoresistance in bulk black phosphorus. Physical Review B, 2017, 95, .	1.1	33
49	Similar ultrafast dynamics of several dissimilar Dirac and Weyl semimetals. Journal of Applied Physics, 2017, 122, .	1.1	33
50	Unconventional Hall response in the quantum limit of HfTe <sub>5</sub> . Nature Communications, 2020, 11, 5926.	5.8	32
51	Role of the 245 phase in alkaline iron selenide superconductors revealed by high-pressure studies. Physical Review B, 2014, 89, .	1.1	31
52	Raman study of lattice dynamics in the Weyl semimetal TaAs. Physical Review B, 2015, 92, .	1.1	30
53	Pressure-induced lattice collapse in the tetragonal phase of single-crystalline $\text{Fe}_2\text{As}_2$ . Nature Communications, 2015, 6, 7452.	1.1	29
54	Nonequilibrium quasiparticle relaxation dynamics in single crystals of hole- and electron-doped BaFe <sub>2</sub> As <sub>2</sub> . Physical Review B, 2011, 84, .	1.1	29

#	ARTICLE	IF	CITATIONS
55	Emergence of superconductivity in doped glassy-carbon. Carbon, 2016, 99, 585-590.	5.4	29
56	Nonsaturating magnetoresistance, anomalous Hall effect, and magnetic quantum oscillations in the ferromagnetic semimetal PrAlSi. Physical Review B, 2020, 102, .	1.1	29
57	Granularity and vortex dynamics in LaFeAsO <sub>0.92</sub> F <sub>0.08</sub> probed by harmonics of the ac magnetic susceptibility. Physical Review B, 2008, 78, .	1.1	27
58	Rewriting the Superconductivity in Iron-Based Superconductors by Lithium Ion Insertion and Extraction. Advanced Materials, 2015, 27, 4224-4228.	11.1	27
59	Topologically Entangled Rashba-Split Shockley States on the Surface of Grey Arsenic. Physical Review Letters, 2017, 118, 046802.	2.9	27
60	Unexpected weak spatial variation in the local density of states induced by individual Co impurity atoms in superconducting Na(Fe <sub>1-x</sub> Co <sub>x</sub> )As. Physical Review B, 2017, 96, .	1.1	25
61	Magnetotransport properties of the type-II Weyl semimetal candidate Ta <sub>3</sub> S <sub>2</sub> . Physical Review B, 2016, 94, .	1.1	25
62	Superconductivity in HfTe <sub>5</sub> across weak to strong topological insulator transition induced via pressures. Scientific Reports, 2017, 7, 44367.	1.6	25
63	Spontaneous Formation of a Superconductor-Topological Insulator-Normal Metal Layered Heterostructure. Advanced Materials, 2016, 28, 5013-5017.	11.1	24
64	Anisotropic multichain nature and filamentary superconductivity in the charge density wave system HfTe <sub>3</sub> . Physical Review B, 2017, 96, .	1.1	24
65	Observation of open-orbit Fermi surface topology in the extremely large magnetoresistance semimetal MoAs <sub>2</sub> . Physical Review B, 2017, 96, .	1.1	24
66	Pressure-Induced Superconductivity up to 9 ÅK in the Quasi-One-Dimensional KMn <sub>6</sub> O <sub>8</sub> . Physical Review Letters, 2022, 128, 187001.	2.9	23
67	Magnetotransport properties in a compensated semimetal gray arsenic. Physical Review B, 2017, 95, .	1.1	22
68	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. Physical Review B, 2020, 101, .	1.1	22
69	Correlation-Induced Self-Doping in the Iron-Pnictide Superconductor Ba <sub>2</sub> TTeO <sub>8</sub> . Physical Review Letters, 2014, 113, 266407.	2.9	21
70	Direct Pen Writing of High-T <sub>c</sub> , Flexible Magnesium Diboride Superconducting Arrays. Advanced Materials, 2015, 27, 3614-3619.	11.1	21
71	Photocurrent-driven transient symmetry breaking in the Weyl semimetal TaAs. Nature Materials, 2022, 21, 62-66.	13.3	20
72	Giant Magnetic Quantum Oscillations in the Thermal Conductivity of TaAs: Indications of Chiral Zero Sound. Physical Review X, 2019, 9, .	2.8	19

#	ARTICLE	IF	CITATIONS
73	Superconductivity induced at a point contact on the topological semimetal tungsten carbide. Physical Review B, 2019, 100, .	1.1	19
74	Ultrafast hot carrier dynamics of $\text{ZrTe}_5$ from time-resolved optical reflectivity. Physical Review B, 2019, 99, .	1.1	16
75	Landau diamagnetism and Weyl-fermion excitations in TaAs revealed by NMR and NQR. Physical Review B, 2020, 101, .	1.1	18
76	Evidence for a full energy gap in the nickel pnictide superconductor $\text{LaNiAsO}_{1-x}\text{F}_x$ from $A_{75}$ nuclear quadrupole resonance. Physical Review B, 2010, 81, .	1.1	17
77	Spin Hall conductivity as a probe of gap structure in multiband superconductors: The case of $\text{BaFe}_2\text{As}_2$ and $\text{KFe}_2\text{As}_2$	1.1	16
78	NdAlSi: A magnetic Weyl semimetal candidate with rich magnetic phases and atypical transport properties. Physical Review B, 2022, 105, .	1.1	17
79	Intergrain Effects in the AC Susceptibility of Polycrystalline $\text{LaFeAsO}_{0.94}\text{F}_{0.06}$ . Journal of Low Temperature Physics, 2011, 162, 40-51.	0.6	16
80	Spin excitations in optimally P-doped $\text{BaFe}_2\text{As}_2$	1.1	16
81	Intrinsic and extrinsic electrical and thermal transport of bulk black phosphorus. Physical Review B, 2018, 97, .	1.1	15
82	Superconductivity in $\text{Bi}_3\text{O}_2\text{S}_2\text{Cl}$ with $\text{Bi}^2\text{Cl}$ Planar Layers. Journal of the American Chemical Society, 2019, 141, 3404-3408.	6.6	15
83	Interfacial Superconductivity on the Topological Semimetal Tungsten Carbide Induced by Metal Deposition. Advanced Materials, 2020, 32, 1907970.	11.1	15
84	Superconducting fluctuations in isovalently substituted $\text{BaFe}_2(\text{As}_{1-x}\text{Px})_2$ : Possible observation of multiband effects. Physical Review B, 2015, 92, .	1.1	13
85	Spin excitation anisotropy in the optimally isovalent-doped superconductor $\text{BaFe}_2\text{As}_2$	1.1	13
86	Quasi-one-dimensional superconductivity in the pressurized charge-density-wave conductor $\text{HfTe}_3$ . Npj Quantum Materials, 2021, 6, .	1.8	13
87	Infrared transport resonance study of the Dirac semimetal $\text{Cd}_3\text{As}_2$	1.1	12
88	Synthesis and superconductivity of a novel quasi-one-dimensional ternary molybdenum pnictide $\text{Cs}_2\text{Mo}_3\text{As}_3$ . APL Materials, 2020, 8, 031103.	2.2	12
89	Magnetic form factor of $\text{SrFe}_2\text{As}_2$ : Neutron diffraction measurements. Physical Review B, 2010, 81, .	1.1	11
90	Two superconducting phases induced at point contacts on the Weyl semimetal TaAs. Physical Review B, 2020, 101, .	1.1	11



#	ARTICLE	IF	CITATIONS
91	Quasiparticle dynamics and electron-phonon coupling in Weyl semimetal TaAs. Physical Review Materials, 2020, 4, .	0.9	11
92	Infrared spectroscopic studies of the topological properties in $\text{CaMnSb}_2$ . Physical Review B, 2018, 98, .	1.1	9
93	Very high upper critical fields of F-doped Fe-based layered superconductors $\text{NdO}_{0.88}\text{F}_{0.12}\text{FeAs}$ and $\text{CeO}_{0.88}\text{F}_{0.12}\text{FeAs}$ . Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 715-718.	0.2	9
94	Interplay between multiple charge-density waves and the relationship with superconductivity in $\text{Pd}_x\text{Te}_{1-x}$ . Physical Review B, 2016, 93, .	1.1	9
95	Orbital selectivity of layer-resolved tunneling in the iron-based superconductor $\text{Ba}_{0.6}\text{K}_{0.4}\text{FeAs}$ . Physical Review B, 2020, 102, .	1.1	9
96	Tip-induced superconductivity on the topological semimetals $\text{TaAs}_2$ and $\text{NbAs}_2$ . Physical Review B, 2020, 102, .	1.1	9
97	Fermiology of ZrTe with triply degenerate nodes and highly anisotropic magnetization. Physical Review B, 2020, 101, .	1.1	9
98	Granularity and Linear Flux Dynamics in Sintered $\text{LaO}_{0.92}\text{F}_{0.08}\text{FeAs}$ . Journal of Superconductivity and Novel Magnetism, 2009, 22, 609-612.	0.8	8
99	Superconductivity in $\text{LaPd}_2\text{Bi}_2$ with $\text{CaBe}_2\text{Ge}_2$ -type structure. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	2.0	7
100	Direct Observation of Coherent Longitudinal and Shear Acoustic Phonons in TaAs Using Ultrafast X-Ray Diffraction. Physical Review Letters, 2022, 128, 155301.	2.9	7
101	Structural phase transition, antiferromagnetism and two superconducting domes in $\text{LaFeAsO}_{1-x}\text{F}_x$ (0) $T_j$ ETQq1 1 0,784314 rgBT /Overl	2.0	6
102	Superconducting Interfaces between Weyl Semimetal and Normal Metal. Advanced Quantum Technologies, 2020, 3, 2000020.	1.8	6
103	Inelastic Electron Tunneling in $2\text{H-TaAs}_2$ . Physical Review Letters, 2020, 124, 106403.	2.9	6
104	Electronic structure examination of the topological properties of $\text{CaMnSb}_2$ by angle-resolved photoemission spectroscopy. Physical Review B, 2021, 103, .	1.1	6
105	Spatially Resolved X-ray Photoemission Electron Microscopy of Weyl Semimetal NbAs. Crystal Growth and Design, 2018, 18, 5210-5213.	1.4	5
106	Extremely large magnetoresistance and Shubnikov-de Haas oscillations in the compensated semimetal $\text{W}_2\text{As}_3$ . Physical Review B, 2019, 99, .	1.1	5
107	Linear magnetoresistance induced by mobility fluctuations in iodine-intercalated tungsten ditelluride. Physical Review B, 2022, 105, .	1.1	5
108	Deviating band symmetries and many-body interactions in a model hole-doped iron pnictide superconductor. Physical Review B, 2012, 86, .	1.1	4

#	ARTICLE	IF	CITATIONS
109	Large unsaturated transverse and negative longitudinal magnetoresistance in the compensated semimetal MoGe <sub>2</sub> . <i>Physical Review B</i> , 2021, 103, .	1.1	4
110	Supercapacitors: Stretchable Supercapacitor with Adjustable Volumetric Capacitance Based on 3D Interdigital Electrodes ( <i>Adv. Funct. Mater.</i> 29/2015). <i>Advanced Functional Materials</i> , 2015, 25, 4562-4562.	7.8	3
111	Epitaxial growth of Bi(110) and Bi <sub>2</sub> Se <sub>3</sub> thin films on a ferromagnetic insulator substrate of Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub> . <i>Journal of Physics Condensed Matter</i> , 2021, 33, 415001.	0.7	3
112	In-plane electronic anisotropy resulted from ordered magnetic moment in iron-based superconductors. <i>Physical Review Research</i> , 2020, 2, .	1.3	3
113	Superconductivity Induced by Site-Selective Arsenic Doping in Mo <sub>5</sub> Si <sub>3</sub> . <i>Inorganic Chemistry</i> , 2022, 61, 10267-10271.	1.9	3
114	Optical properties of FeAs-based parent compound: A comparative study for polycrystalline EuFe <sub>2</sub> As <sub>2</sub> and LaFeAsO. <i>Frontiers of Physics in China</i> , 2009, 4, 459-463.	1.0	2
115	Hexagonal Phase Intergrown with the Tetragonal Weyl Semimetal TaAs. <i>Crystal Growth and Design</i> , 2017, 17, 1747-1751.	1.4	2
116	Tailorable graphene-based superconducting films via self-assembly and in-situ doping. <i>Carbon</i> , 2019, 152, 527-531.	5.4	2
117	Superconductivity at the Normal Metal/Dirac Semimetal Cd <sub>3</sub> As <sub>2</sub> Interface. <i>Chinese Physics Letters</i> , 2020, 37, 077401.	1.3	2
118	Tip-induced superconductivity commonly existing in the family of transition-metal dipnictides MP <sub>n</sub> 2. <i>Chinese Physics B</i> , 2021, 30, 017304.	0.7	2
119	Rapid Sonochemical Synthesis of an Intercalated Superconductor. <i>ChemistrySelect</i> , 2018, 3, 5652-5659.	0.7	1
120	Magnetotransport properties and topological phase transition in NaCd <sub>4</sub> As <sub>3</sub> . <i>Physical Review B</i> , 2020, 102, .	1.1	1
121	Synthesis, structures and physical properties of new transition metal fluoroselenides Ba <sub>3</sub> F <sub>2</sub> MSe <sub>3</sub> (M = Tj, ET, Qq, 1, 0, 784314, rgBT / O	1.4	1
122	Bulk superconductivity in one-step grown Fe(Te,Se) crystals free of interstitial iron by minor Mn doping. <i>Science China Materials</i> , 2022, 65, 2472-2478.	3.5	1
123	Multiple Superconducting Gaps and Anisotropic Spin Fluctuations in Hole-Doped and Electron-Doped Iron-Pnictides: NMR Studies. <i>Journal of Superconductivity and Novel Magnetism</i> , 2010, 23, 609-612.	0.8	0
124	Superconductivity: Rewriting the Superconductivity in Iron-Based Superconductors by Lithium Ion Insertion and Extraction ( <i>Adv. Mater.</i> 28/2015). <i>Advanced Materials</i> , 2015, 27, 4106-4106.	11.1	0
125	Structural Channels and Atomic-Cluster Insertion in Cs <sub>4</sub> Bi <sub>4</sub> Te <sub>6</sub> (1.25) As Observed by Aberration-Corrected Scanning Transmission Electron Microscopy. <i>Inorganic Chemistry</i> , 2016, 55, 12791-12797.	1.9	0
126	Magnetotransport Properties of a Nodal Line Semimetal TiSi. <i>Chinese Physics Letters</i> , 2018, 35, 117101.	1.3	0