

Gang Mu

List of Publications by Year in descending order

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118
papers

3,926
citations

196777

29
h-index

139680

61
g-index

124
all docs

124
docs citations

124
times ranked

4064
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of the upper critical field and superconducting vortex phase with thickness in PLD-grown Ta films. Superconductor Science and Technology, 2022, 35, 055010.	1.8	0
2	Topological frequency shift of quantum oscillation in CaFeAsF. Npj Quantum Materials, 2022, 7, .	1.8	3
3	Investigation of the flux dynamics in $\text{KCa}_2\text{Fe}_4\text{As}_4\text{F}_2$ single crystal by ac susceptibility measurements. Superconductor Science and Technology, 2022, 35, 055013.	1.8	2
4	Anomalous high-field magnetotransport in CaFeAsF due to the quantum Hall effect. Npj Quantum Materials, 2022, 7, .	1.8	1
5	Pressure effect in the antiperovskite phosphide superconductor Sr_2P . Physical Review B, 2022, 105, .		
6	Anisotropic thermally activated flux-flow behavior in the layered superconductor M_2X . Physical Review B, 2021, 103, .		
7	Critical Current Density and Vortex Dynamics in Pristine and Irradiated $\text{KCa}_2\text{Fe}_4\text{As}_4\text{F}_2$. Materials, 2021, 14, 5283.	1.3	2
8	Observation of two-dimensional superconductivity in an ultrathin iron-arsenic superconductor. 2D Materials, 2021, 8, 025024.	2.0	7
9	Optimization of synthesis parameters and pressure effect for layered honeycomb ruthenate SrRu_2O_6 . Journal of Alloys and Compounds, 2020, 816, 152672.	2.8	3
10	Epitaxial growth and characterization of high quality $\text{Bi}_2\text{O}_2\text{Se}$ thin films on SrTiO_3 substrates by pulsed laser deposition. Nanotechnology, 2020, 31, 165704.	1.3	29
11	Gate-tunable two-dimensional superconductivity revealed in flexible wafer-scale hybrid structures. Journal of Materials Chemistry C, 2020, 8, 14605-14610.	2.7	4
12	Elastoresistance measurements on CaKFe_4 and KCa_2 . Physical Review B, 2020, 102, .	1.1	14
13	Strong In-Plane Magnetic Field-Induced Reemergent Superconductivity in the van der Waals Heterointerface of NbSe_2 and CrCl_3 . ACS Applied Materials & Interfaces, 2020, 12, 49252-49257.	4.0	13
14	Low temperature specific heat of 12442-type $\text{KCa}_2\text{Fe}_4\text{As}_4\text{F}_2$ single crystals. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	21
15	Phase evolution with the film thickness in PLD-grown titanium oxides films. Journal of Alloys and Compounds, 2020, 831, 154727.	2.8	4
16	Ferromagnetic CoSe broadband photodetector at room temperature. Nanotechnology, 2020, 31, 374002.	1.3	15
17	Iron-doped VSe_2 nanosheets for enhanced hydrogen evolution reaction. Applied Physics Letters, 2020, 116, .	1.5	18
18	Chemical vapor deposition growth and characterization of graphite-like film. Materials Research Express, 2020, 7, 015609.	0.8	2

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19	Strong Pauli paramagnetic effect in the upper critical field of KCa ₂ Fe ₄ As ₄ F ₂ . Science China: Physics, Mechanics and Astronomy, 2020, 63, .	2.0	28
20	Evidence for ferromagnetic order in the CoSb layer of LaCoSb ₂ . Physical Review B, 2020, 101, .	1.1	3
21	One-step synthesis of nitrogen-rich Mo ₂ C _{1-x} N _x solid solution with enhanced superconductivity. Journal of Materials Chemistry C, 2020, 8, 2682-2686.	2.7	3
22	Gap Structure of 12442-Type KCa ₂ (Fe _{1-x} Co _x)Tl ₂ ETQ ₀ 00rgBT /Overlock 10 Tf 50 627 Td (</sub>). Lower Critical Field. Chinese Physics Letters, 2020, 37, 127401.	1.3	5
23	Vortex phase diagram in 12442-type RbCa ₂ Fe ₄ As ₄ F ₂ single crystal revealed by magneto-transport and magnetization measurements. Superconductor Science and Technology, 2020, 33, 114005.	1.8	24
24	Observation of above-room-temperature ferromagnetism in chemically stable layered semiconductor Rhl ₃ . 2D Materials, 2020, 7, 045034.	2.0	3
25	Anisotropic physical properties and large critical current density in K ₂ Ca ₂ Fe ₂ Co ₂ F ₂ single crystal. Physical Review Materials, 2020, 4, 014001.	1.1	1
26	Multiple gaps revealed by low temperature specific heat in the 1111-type CaFe _{0.88} Co _{0.12} AsF single crystals. Journal of Physics Condensed Matter, 2019, 31, 455602.	0.7	2
27	Two-gap superconductivity in CaFe _{0.88} Co _{0.12} AsF revealed by temperature dependence of the lower critical field H _{c1c} (T). Npj Quantum Materials, 2019, 4, .	1.8	6
28	Charge-Transfer-Induced Interfacial Exchange Coupling at the Co ₂ Bi ₂ Fe ₂ O ₃ Interface. Physical Review Applied, 2019, 12, .	1.1	1
29	Synthesis, Crystal Structure, and Physical Properties of Layered Ln ₂ CrSe ₂ O (Ln = Ce, Nd). Inorganic Chemistry, 2019, 58, 9482-9489.	1.9	5
30	Discovery of Superconductivity in 2MWS ₂ with Possible Topological Surface States. Advanced Materials, 2019, 31, e1901942.	11.1	102
31	The transport properties in graphene/single-unit-cell cuprates van der Waals heterostructure. Superconductor Science and Technology, 2019, 32, 085007.	1.8	5
32	Single-Crystal Growth and Extremely High H _{c2} of 12442-Type Fe-Based Superconductor KCa ₂ Fe ₄ As ₄ F ₂ . Journal of Physical Chemistry C, 2019, 123, 13925-13929.	1.5	36
33	Upper critical field and its anisotropy in RbCr ₃ As ₃ . Physical Review B, 2019, 100, .	1.1	2
34	Hydrothermal synthesis, structure and magnetic properties of Ru doped La _{0.5} Sr _{0.5} MnO ₃ . Frontiers of Physics, 2019, 14, 1.	2.4	0
35	Metallic few-layered VSe ₂ nanosheets: high two-dimensional conductivity for flexible in-plane solid-state supercapacitors. Journal of Materials Chemistry A, 2018, 6, 8299-8306.	5.2	89
36	Fermi Surface with Dirac Fermions in CaFeAsF Determined via Quantum Oscillation Measurements. Physical Review X, 2018, 8, .	2.8	18

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37	Pressure-induced superconductivity in parent CaFeAsF single crystals. Physical Review B, 2018, 97, .	1.1	10
38	Structure ReÅetermination and Superconductivity Observation of Bulk 1T MoS ₂ . Angewandte Chemie, 2018, 130, 1246-1249.	1.6	46
39	Structure ReÅetermination and Superconductivity Observation of Bulk 1T MoS ₂ . Angewandte Chemie - International Edition, 2018, 57, 1232-1235.	7.2	126
40	In situ annealing effects on magnetic properties and variable-range hopping of iron-based ladder material BaFe ₂ S ₃ . Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	2.0	4
41	Magnetic-field-induced metal-insulator quantum phase transition in CaFeAsF near the quantum limit. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	2.0	9
42	Unusual evolution of Bc2 and Tc with inclined fields in restacked TaS ₂ nanosheets. Npj Quantum Materials, 2018, 3, .	1.8	11
43	Germanium isotope effect induced guest rattling and cage distortion in clathrates. Journal of Materiomics, 2018, 4, 338-344.	2.8	1
44	Strong anisotropy effect in an iron-based superconductor CaFe _{0.882} Co _{0.118} AsF. Superconductor Science and Technology, 2017, 30, 074003.	1.8	14
45	Synthesis, Structure, and Properties of Clathrate Si _{30.3(8)} P _{15.7(8)} Se _{7.930(3)} . Chemistry - A European Journal, 2017, 23, 9505-9516.	1.7	3
46	Enhanced Superconductivity in Restacked TaS ₂ Nanosheets. Journal of the American Chemical Society, 2017, 139, 4623-4626.	6.6	84
47	Observation of superconductivity in 1TÅ²-MoS ₂ nanosheets. Journal of Materials Chemistry C, 2017, 5, 10855-10860.	2.7	77
48	Universal linear-temperature resistivity: possible quantum diffusion transport in strongly correlated superconductors. Scientific Reports, 2017, 7, 9469.	1.6	13
49	Frontispiece: Synthesis, Structure, and Properties of Clathrate Si _{30.3(8)} P _{15.7(8)} Se _{7.930(3)} . Chemistry - A European Journal, 2017, 23, .	1.7	0
50	Growth and characterization of CaFe ₁ -Co AsF single crystals by CaAs flux method. Journal of Crystal Growth, 2016, 451, 161-164.	0.7	17
51	New clathrates of Rb _{7.50(1)} Tl _{0.50(1)} Ge ₄₆ and K _{7.62(1)} Tl _{0.38(1)} Ge _{45.34(3)} . RSC Advances, 2016, 6, 75269-75276.	1.7	2
52	Synthesis and structures of type-I clathrates: Rb ₆ Na ₂ Ge _{44.89(1)} , Cs ₆ Na ₂ Zn ₄ Ge ₄₂ and Cs _{6.40(1)} Na _{1.60(1)} Ga ₈ Ge ₃₈ . Journal of Solid State Chemistry, 2016, 242, 155-161.	1.4	8
53	Effects of electron correlation, electron-phonon coupling, and spin-orbit coupling on the isovalent Pd-substituted superconductor SrPt_3P . Physical Review B, 2016, 93, .	1.1	12
54	Impurity scattering effect in Pd-doped superconductor SrPt ₃ P. Frontiers of Physics, 2016, 11, 1.	2.4	4

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55	Electronic and magnetic structures of the ferroelectric compound PbBaFeO_5 . Physical Review B, 2015, 91, .	1.1	0
56	Type-I clathrates of $\text{K}_{7.69(2)}\text{Cu}_{2.94(6)}\text{Ge}_{43.06(6)}$ and $\text{Rb}_{8}\text{Ag}_{2.79(4)}\text{Ge}_{43.21(4)}$. RSC Advances, 2015, 5, 53829-53834.	1.7	5
57	Gap Structure of the Overdoped Iron-Pnictide Superconductor $\text{Ba}(\text{Fe}_{0.942}\text{Ni}_{0.058})_2\text{As}_2$: A Low-Temperature Specific-Heat Study. Advances in Condensed Matter Physics, 2015, 2015, 1-5.	0.4	0
58	Exotic Superconductivity in Correlated Electron Systems. Advances in Condensed Matter Physics, 2015, 2015, 1-2.	0.4	0
59	Selenium doping in potential topological superconductor $\text{Sn}_{0.8}\text{In}_{0.2}\text{Te}$. Journal of Solid State Chemistry, 2015, 229, 124-128.	1.4	3
60	Growth and characterization of millimeter-sized single crystals of CaFeAsF . Superconductor Science and Technology, 2015, 28, 085008.	1.8	21
61	Structure and properties of type-II clathrate $\text{Cs}_8\text{Na}_{16}\text{Ti}_x\text{Ge}_{136}$. Dalton Transactions, 2015, 44, 16937-16945.	1.6	6
62	Quantum magnetoresistance in the Ca-intercalated graphite superconductor CaC_6 . Physical Review B, 2014, 90, .	1.1	0
63	Phase diagram and weak-link behavior in Nd-doped CaFe_2As_2 . New Journal of Physics, 2014, 16, 113024.	1.2	1
64	Synthesis, Structural, and Transport Properties of Cr-Doped $\text{BaTi}_2\text{As}_2\text{O}$. Inorganic Chemistry, 2014, 53, 13089-13092.	1.9	8
65	High-Tc superconductivity in ultrathin $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ down to half-unit-cell thickness by protection with graphene. Nature Communications, 2014, 5, 5708.	5.8	77
66	Enhancement of superconductivity by Sb-doping in the hole-doped iron-pnictide superconductor $\text{Pr}_{1-x}\text{Sr}_x\text{FeAsO}$. Physica C: Superconductivity and Its Applications, 2014, 498, 50-53.	0.6	5
67	Electron and Hole Injection via Charge Transfer at the Topological Insulator $\text{Bi}_2\text{Sb}_3\text{TeSe}$ Molecule Interface. Journal of Physical Chemistry C, 2014, 118, 3533-3538.	1.5	12
68	Effect of Local Structure Distortion on Superconductivity in Mg- and F-Codoped LaOBiS_2 . Inorganic Chemistry, 2014, 53, 9-11.	1.9	17
69	Power-law-like correlation between condensation energy and superconducting transition temperatures in iron pnictide/chalcogenide superconductors: Beyond the BCS understanding. Physical Review B, 2014, 89, .	1.1	12
70	Low-Temperature Physical and Thermoelectric Properties of $\text{Ba}_8\text{Ni}_5\text{Ge}_4$. Journal of Electronic Materials, 2013, 42, 2025-2029.	1.0	1
71	Superconductivity induced by U doping in the SmFeAsO system. Physical Review B, 2013, 87, .	1.1	2
72	A Field-Directional Specific Heat Study on the Gap Structure of Overdoped $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Journal of the Physical Society of Japan, 2013, 82, 054714.	0.7	1

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73	Suppression of backward scattering of Dirac fermions in iron pnictides $\text{Ba}(\text{Fe}_{1-x}\text{Ru}_x\text{As})_2$. Physical Review B, 2012, 86.	1.1	11
74	Specific heat of optimally doped $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x\text{As})_2$. Physical Review B, 2012, 86.	1.1	9
75	Anisotropic superconducting order parameters in the iron pnictide superconductors. Journal of Physics: Conference Series, 2012, 400, 022135.	0.3	0
76	Heat capacity studies on rattling vibrations in Ba Ge type I clathrates. Journal of Physics and Chemistry of Solids, 2012, 73, 1521-1523.	1.9	8
77	Low-Temperature Physical Properties of $\text{Ba}_8\text{Ni}_x\text{Ge}_{46-x}$ ($x=3, 4, 6$). Journal of Electronic Materials, 2012, 41, 1177-1180.	1.0	10
78	Absence of Superconductivity in LiCu_2P_2 . Journal of the American Chemical Society, 2011, 133, 1751-1753.	6.6	10
79	Evidence for line nodes in the energy gap of the overdoped $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ from low-temperature specific heat measurements. Physical Review B, 2011, 84, .	1.1	18
80	Coexistence of Dirac-cone states and superconductivity in iron pnictide $\text{Ba}(\text{Fe}_{1-x}\text{Ru}_x\text{As})_2$. Physical Review B, 2011, 84, .	1.1	27
81	Structural and transport properties of $\text{Sr}_2\text{VO}_3\text{FeAs}$ superconductors with different oxygen deficiencies. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1202-1206.	2.0	19
82	Low temperature specific heat in $\text{BaFe}_{1.9}\text{Ni}_{0.1}\text{As}_2$ single crystals. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1221-1224.	2.0	4
83	Physical properties of the new superconducting system $\text{Sr}_2\text{VO}_3\text{FeAs}$ (21311). Physica C: Superconductivity and Its Applications, 2010, 470, S263-S266.	0.6	2
84	Sizable Residual Quasiparticle Density of States Induced by Impurity Scattering Effect in $\text{Ba}(\text{Fe}_{1-x})_2$. Physics Letters, 2010, 27, 037402.	1.3	35
85	Superconductivity induced by doping platinum in BaFe_2 . Physical Review B, 2010, 81, .	1.1	27
86	Multiband effect in the noncentrosymmetric superconductors MgB_2 by H. Physical Review B, 2010, 82, .	1.1	3
87	Superconductivity at 15.6%K in calcium-doped $\text{Tb}_{1-x}\text{Ca}_x\text{FeAsO}$: The structure requirement for achieving superconductivity in the hole-doped 1111 phase. Europhysics Letters, 2010, 89, 27002.	0.7	8
88	Anisotropic structure of the order parameter in $\text{FeSe}_{0.45}\text{Te}_{0.55}$ revealed by angle-resolved specific heat. Nature Communications, 2010, 1, 112.	5.8	83
89	Superconductivity and phase diagram of the $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ system. Physical Review B, 2010, 81, .	1.1	110
90	Roles of multiband effects and electron-hole asymmetry in the superconductivity and normal-state properties of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Physical Review B, 2010, 81, .		

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91	Low temperature specific heat of the hole-doped $\text{Ba}_{1-x}\text{Pr}_x\text{FeAsO}$. Physical Review B, 2009, 79, .	1.1	150
92	Synthesis, structural, and transport properties of the hole-doped superconductor $\text{Pr}_{1-x}\text{Sr}_x\text{FeAsO}$. Physical Review B, 2009, 79, .	1.1	37
93	Physical properties of the noncentrosymmetric superconductor Ru_7B_3 . Physical Review B, 2009, 79, .	1.1	46
94	Specific-Heat Measurement of a Residual Superconducting State in the Normal State of Underdoped $\text{Bi}_2\text{Sr}_2\text{FeAsO}$. Physical Review Letters, 2009, 103, 067002.	2.9	64
95	Anisotropic phase diagram and strong coupling effects in $\text{Ba}_{1-x}\text{Pr}_x\text{FeAsO}$. Physical Review B, 2009, 79, .	1.1	61
96	High- T_c superconductivity induced by doping rare-earth elements into CaFeAsF . Europhysics Letters, 2009, 85, 67003.	0.7	81
97	A structural study of the hole-doped superconductors $\text{Pr}_{1-x}\text{Sr}_x\text{FeAsO}$. New Journal of Physics, 2009, 11, 083003.	1.2	9
98	Muon spin rotation study of magnetism and superconductivity in $\text{BaFe}_2\text{CoAs}_2$ and $\text{Pr}_{1-x}\text{Sr}_x\text{FeAsO}$. New Journal of Physics, 2009, 11, 055050.	1.2	42
99	Superconductivity in fluoride-arsenide $\text{Sr}_{1-x}\text{La}_x\text{FeAsF}$ compounds. Europhysics Letters, 2009, 85, 17011.	0.7	56
100	Growth of single crystals at ambient pressure and their transport properties. Journal of Crystal Growth, 2009, 311, 358-361.	0.7	23
101	Specific heat and phase diagrams of single crystal iron pnictide superconductors. Physica C: Superconductivity and Its Applications, 2009, 469, 575-581.	0.6	18
102	Parent phase and superconductors in the fluoride derivative family. Physica C: Superconductivity and Its Applications, 2009, 469, 381-384.	0.6	17
103	Superconductivity in the hole-doped oxy-arsenide $\text{RE}_{1-x}\text{Sr}_x\text{FeAsO}$ (RE=La, Pr). Physica C: Superconductivity and Its Applications, 2009, 469, 894-897.	0.6	5
104	Superconductivity in Ti-doped iron-arsenide compound $\text{Sr}_4\text{Cr}_{0.8}\text{Ti}_{1.2}\text{O}_6\text{Fe}_2\text{As}_2$. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 1876-1878.	0.2	7
105	$\text{Sr}_3\text{Sc}_2\text{Fe}_2\text{As}_2\text{O}_5$ as a possible parent compound for FeAs-based superconductors. Physical Review B, 2009, 79, .	1.1	128
106	Possible two-gap behavior in noncentrosymmetric superconductor $\text{Mg}_{1-x}\text{Pr}_x\text{FeAsO}$. A penetration depth study. Physical Review B, 2009, 79, .	1.1	18
107	Transition of stoichiometric $\text{Sr}_{2-x}\text{FeAsO}$ to a superconducting state at 37.2 K. Physical Review B, 2009, 79, .	1.1	28
108	Superconductivity at 36 K in gadolinium-arsenide oxides $\text{GdO}_{1-x}\text{F}_x\text{FeAs}$. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 719-722.	0.2	146

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109	Point-contact spectroscopy of iron-based layered superconductor $\text{LaO}_{0.9}\text{F}_{0.1}\hat{\Gamma}$ FeAs. Europhysics Letters, 2008, 83, 57004.	0.7	116
110	Upper critical field, Hall effect and magnetoresistance in the iron-based layered superconductor $\text{LaFeAsO}_{0.9}\text{F}_{0.1}\hat{\Gamma}$. Superconductor Science and Technology, 2008, 21, 105001.	1.8	149
111	Superconductivity at 25 K in hole-doped $(\text{La}_{1-x}\text{Sr}_x)\text{OFeAs}$. Europhysics Letters, 2008, 82, 17009.	0.7	538
112	Doping Dependence of Superconductivity and Lattice Constants in Hole Doped $\text{La}_{1-x}\text{Sr}_x\text{FeAsO}$. Journal of the Physical Society of Japan, 2008, 77, 15-18.	0.7	19
113	SrFeAsF as a parent compound for iron pnictide superconductors. Physical Review B, 2008, 78, . Hall effect and magnetoresistance in single crystals of	1.1	81
114			