Gang Mu

List of Publications by Year
in descending order

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118 papers	3,926 citations	172457 29 h-index	123424 61 g-index
124 all docs	124 docs citations	124 times ranked	3674 citing authors

#	Article	IF	Citations
1	Superconductivity at 25â€‰K in hole-doped (La _{1-x} Sr _x)OFeAs. Europhysics Letters, 2008, 82, 17009.	2.0	538
2	Transition of stoichiometric<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Sr</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub> a superconducting state at 37.2 K. Physical Review B, 2009, 79, .	3.2	285
3	Roles of multiband effects and electron-hole asymmetry in the superconductivity and normal-state properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

#	Article	IF	Citations
19	Hall effect and magnetoresistance in single crystals of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

#	Article	IF	Citations
37	Growth and characterization of millimeter-sized single crystals of CaFeAsF. Superconductor Science and Technology, 2015, 28, 085008.	3.5	21
38	Low temperature specific heat of 12442-type KCa2Fe4As4F2 single crystals. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	21
39	Quantum spin correlations through the superconducting-to-normal phase transition in electron-doped superconducting Pr _{0.88} LaCe _{0.12} CuO _{4-Î´}. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15259-15263.	7.1	19
40	Doping Dependence of Superconductivity and Lattice Constants in Hole Doped La_{1-x}Sr_xFeAsO. Journal of the Physical Society of Japan, 2008, 77, 15-18.	1.6	19
41	Structural and transport properties of Sr2VO3â^Î´ FeAs superconductors with different oxygen deficiencies. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1202-1206.	5.1	19
42	Specific heat and phase diagrams of single crystal iron pnictide superconductors. Physica C: Superconductivity and Its Applications, 2009, 469, 575-581.	1.2	18
43	Possible two-gap behavior in noncentrosymmetric superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Mg</mml:mtext></mml:mrow><mml:mrow><mml:mn>10</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>A penetration depth study. Physical Review B, 2009, 79, .	3.2	18
44	Evidence for line nodes in the energy gap of the overdoped Ba(Fe1â^'xCox)2As2from low-temperature specific heat measurements. Physical Review B, 2011, 84, .	3.2	18
45	Fermi Surface with Dirac Fermions in CaFeAsF Determined via Quantum Oscillation Measurements. Physical Review X, 2018, 8, .	8.9	18
46	Iron-doped VSe2 nanosheets for enhanced hydrogen evolution reaction. Applied Physics Letters, 2020, 116, .	3.3	18
47	Growth and characterization of single crystals. Journal of Crystal Growth, 2007, 305, 222-227.	1.5	17
48	Parent phase and superconductors in the fluorine derivative family. Physica C: Superconductivity and Its Applications, 2009, 469, 381-384.	1.2	17
49	Effect of Local Structure Distortion on Superconductivity in Mg- and F-Codoped LaOBiS2. Inorganic Chemistry, 2014, 53, 9-11.	4.0	17
50	Growth and characterization of CaFe1-Co AsF single crystals by CaAs flux method. Journal of Crystal Growth, 2016, 451, 161-164.	1.5	17
51	Anisotropic physical properties and large critical current density in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">K</mml:mi><mml:msub><mml:mi>Ca</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">F</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> single crystal. Physical Review Materials, 2020, 4, .	2.4	16
52	Ferromagnetic CoSe broadband photodetector at room temperature. Nanotechnology, 2020, 31, 374002.	2.6	15
53	Strong anisotropy effect in an iron-based superconductor CaFe_{0.882}Co_{0.118}AsF. Superconductor Science and Technology, 2017, 30, 074003.	3.5	14
54	Elastoresistance measurements on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaKFe</mml:mi><mml:mn>4</mml:mn></mml:m and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>KCa</mml:mi><mml:mn>2</mml:mn></mml:mm mat. Physical Review B, 2020, 102, .	3.2	14

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55	Universal linear-temperature resistivity: possible quantum diffusion transport in strongly correlated superconductors. Scientific Reports, 2017, 7, 9469.	3.3	13
56	Strong In-Plane Magnetic Field-Induced Reemergent Superconductivity in the van der Waals Heterointerface of NbSe₂ and CrCl₃. ACS Applied Materials & Interfaces, 2020, 12, 49252-49257.	8.0	13
57	Electron and Hole Injection via Charge Transfer at the Topological Insulator Bi_{2â€“x}Sb_xTe_{3â€“y}Se_yâ€“Organic Molecule Interface. Journal of Physical Chemistry C, 2014, 118, 3533-3538.	4.1	12
58	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, .	3.2	12
59	Effects of electron correlation, electron-phonon coupling, and spin-orbit coupling on the isovalent Pd-substituted superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>SrPt</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>(</mml:mo><mml:mi mathvariant="normal">P</mml:mi><mml:mo>)</mml:mo></mml:mrow></mml:math>. Physical Review B, 2016, 93, .	3.2	12
60	Suppression of backward scattering of Dirac fermions in iron pnictides Ba(Fe1â^'xRuxAs)2. Physical Review B, 2012, 86, .	3.2	11
61	Unusual evolution of Bc2 and Tc with inclined fields in restacked TaS2 nanosheets. Npj Quantum Materials, 2018, 3, .	5.2	11
62	Absence of Superconductivity in LiCu2P2. Journal of the American Chemical Society, 2011, 133, 1751-1753.	13.7	10
63	Low-Temperature Physical Properties of Ba8Ni x Ge46â^'x (xÂ=Â3,Â4,Â6). Journal of Electronic Materials, 2012, 41, 1177-1180.	2.2	10
64	Pressure-induced superconductivity in parent CaFeAsF single crystals. Physical Review B, 2018, 97, .	3.2	10
65	A structural study of the hole-doped superconductors Pr_{1â^'x}Sr_xFeAsO. New Journal of Physics, 2009, 11, 083003.	2.9	9
66	Specific heat of optimally doped Ba(Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq0 0 0 rgBT /Overlock 1 xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	9
67	Magnetic-field-induced metal-insulator quantum phase transition in CaFeAsF near the quantum limit. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	9
68	Superconductivity at 15.6â€‰K in calcium-doped Tb _{1-x} Ca _x FeAsO: The structure requirement for achieving superconductivity in the hole-doped 1111 phase. Europhysics Letters, 2010, 89, 27002.	2.0	8
69	Heat capacity studies on rattling vibrations in Baâ€“TMâ€“Ge type I clathrates. Journal of Physics and Chemistry of Solids, 2012, 73, 1521-1523.	4.0	8
70	Synthesis, Structural, and Transport Properties of Cr-Doped BaTi2As2O. Inorganic Chemistry, 2014, 53, 13089-13092.	4.0	8
71	Synthesis and structures of type-I clathrates: Rb6Na2Ge44.89(1), Cs6Na2Zn4Ge42 and Cs6.40(1)Na1.60(1)Ga8Ge38. Journal of Solid State Chemistry, 2016, 242, 155-161.	2.9	8
72	Superconductivity in Ti-doped iron-arsenide compound Sr4Cr0.8Ti1.2O6Fe2As2. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 1876-1878.	0.2	7

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73	Observation of two-dimensional superconductivity in an ultrathin ironâ€“arsenic superconductor. 2D Materials, 2021, 8, 025024.	4.4	7
74	Structure and properties of type-II clathrate Cs₈Na_{16â^'x}Tl_xGe₁₃₆. Dalton Transactions, 2015, 44, 16937-16945.	3.3	6
75	Two-gap superconductivity in CaFe0.88Co0.12AsF revealed by temperature dependence of the lower critical field Hc1c (T). Npj Quantum Materials, 2019, 4, .	5.2	6
76	Superconductivity in the hole-doped oxy-arsenide RE1â^'xSrxFeAsO (RE=La, Pr). Physica C: Superconductivity and Its Applications, 2009, 469, 894-897.	1.2	5
77	Enhancement of superconductivity by Sb-doping in the hole-doped iron-pnictide superconductor Pr1â^'xSrxFeAsO. Physica C: Superconductivity and Its Applications, 2014, 498, 50-53.	1.2	5
78	Type-I clathrates of K_{7.69(2)}Cu_{2.94(6)}Ge_{43.06(6)}and Rb₈Ag_{2.79(4)}Ge_{43.21(4)}. RSC Advances, 2015, 5, 53829-53834.	3.6	5
79	Synthesis, Crystal Structure, and Physical Properties of Layered LnCrSe₂O (Ln = Ceâ€“Nd). Inorganic Chemistry, 2019, 58, 9482-9489.	4.0	5
80	The transport properties in graphene/single-unit-cell cuprates van der Waals heterostructure. Superconductor Science and Technology, 2019, 32, 085007.	3.5	5
81	Gap Structure of 12442-Type KCa₂(Fe_{1â^'x}Co<sub> x) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td Lower Critical Field. Chinese Physics Letters, 2020, 37, 127401.	3.3	5
82	Low temperature specific heat in BaFe1.9Ni0.1As2 single crystals. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1221-1224.	5.1	4
83	Impurity scattering effect in Pd-doped superconductor SrPt3P. Frontiers of Physics, 2016, 11, 1.	5.0	4
84	In situ annealing effects on magnetic properties and variable-range hopping of iron-based ladder material BaFe2S3. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	4
85	Charge-Transfer-Induced Interfacial Exchange Coupling at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Co</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mrow><mml:mi>Bi</mml:mi><mml:mi>Fe</mml:mi><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math> Interface. Physical Review Applied, 2019, 12, .	4.6	4
86	Gate-tunable two-dimensional superconductivity revealed in flexible wafer-scale hybrid structures. Journal of Materials Chemistry C, 2020, 8, 14605-14610.	5.5	4
87	Phase evolution with the film thickness in PLD-grown titanium oxides films. Journal of Alloys and Compounds, 2020, 831, 154727.	5.5	4
88	Multiband effect in the noncentrosymmetric superconductors<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Mg</mml:mtext></mml:mrow><mml:mrow><mml:mn>12</mml:m by H. Physical Review B, 2010, 82, .	3.2	3
89	Selenium doping in potential topological superconductor Sn0.8In0.2Te. Journal of Solid State Chemistry, 2015, 229, 124-128.	2.9	3
90	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.	3.3	3

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91	Optimization of synthesis parameters and pressure effect for layered honeycomb ruthenate SrRu2O6. Journal of Alloys and Compounds, 2020, 816, 152672.	5.5	3
92	Evidence for ferromagnetic order in the CoSb layer ofLaCoSb2. Physical Review B, 2020, 101, .	3.2	3
93	Anisotropic thermally activated flux-flow behavior in the layered superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>M</mml:mi><mml:mtext>â^'</mml:mtext>â^'</mml:mrow></mml:math>Physical Review B, 2021, 103, .	3.2	3
94	One-step synthesis of nitrogen-rich Mo2C1â^'xNx solid solution with enhanced superconductivity. Journal of Materials Chemistry C, 2020, 8, 2682-2686.	5.5	3
95	Observation of above-room-temperature ferromagnetism in chemically stable layered semiconductor RhI₃. 2D Materials, 2020, 7, 045034.	4.4	3
96	Topological frequency shift of quantum oscillation in CaFeAsF. Npj Quantum Materials, 2022, 7, .	5.2	3
97	Physical properties of the new superconducting system Sr2VO3â^'FeAs (21311). Physica C: Superconductivity and Its Applications, 2010, 470, S263-S266.	1.2	2
98	Superconductivity induced by U doping in the SmFeAsO system. Physical Review B, 2013, 87, .	3.2	2
99	New clathrates of Rb7.50(1)Tl0.50(1)Ge46and K7.62(1)Tl0.38(1)Ge45.34(3). RSC Advances, 2016, 6, 75269-75276.	3.6	2
100	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.	1.8	2
101	Upper critical field and its anisotropy in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">RbCr</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">As</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2019, 100, .	3.2	2
102	Chemical vapor deposition growth and characterization of graphite-like film. Materials Research Express, 2020, 7, 015609.	1.6	2
103	Critical Current Density and Vortex Dynamics in Pristine and Irradiated KCa2Fe4As4F2. Materials, 2021, 14, 5283.	2.9	2
104	Investigation of the flux dynamics in KCa₂Fe₄As₄F₂ single crystal by ac susceptibility measurements. Superconductor Science and Technology, 2022, 35, 055013.	3.5	2
105	Pressure effect in the antiperovskite phosphide superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Sr</mml:mi><mml:msub><mml:mrow><mml:mo>(</mml:mo> mathvariant="normal">P</mml:mi></mml:mrow></mml:math>. Physical Review B, 2022, 105, .	3.2	2
106	Low-Temperature Physical and Thermoelectric Properties of Ba8Ni5Ge41. Journal of Electronic Materials, 2013, 42, 2025-2029.	2.2	1
107	A Field-Directional Specific Heat Study on the Gap Structure of Overdoped Ba(Fe_{1-x}Co_x)₂As₂. Journal of the Physical Society of Japan, 2013, 82, 054714.	1.6	1
108	Phase diagram and weak-link behavior in Nd-doped CaFe2As2. New Journal of Physics, 2014, 16, 113024.	2.9	1

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109	Germanium isotope effect induced guest rattling and cage distortion in clathrates. Journal of Materiomics, 2018, 4, 338-344.	5.7	1
110	Anomalous high-field magnetotransport in CaFeAsF due to the quantum Hall effect. Npj Quantum Materials, 2022, 7, .	5.2	1
111	Anisotropic superconducting order parameters in the iron pnictide superconductors. Journal of Physics: Conference Series, 2012, 400, 022135.	0.4	0
112	Quantum magnetoresistance in the Ca-intercalated graphite superconductorCaC6. Physical Review B, 2014, 90, .	3.2	0
113	Electronic and magnetic structures of the ferroelectric compound<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>PbBaFe</mml:mi><mml:mn>2</mml:mn><mml:mi mathvariant="normal">O</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 91, .	3.2	0
114	Gap Structure of the Overdoped Iron-Pnictide Superconductor Ba(Fe0.942Ni0.058)2As2: A Low-Temperature Specific-Heat Study. Advances in Condensed Matter Physics, 2015, 2015, 1-5.	1.1	0
115	Exotic Superconductivity in Correlated Electron Systems. Advances in Condensed Matter Physics, 2015, 2015, 1-2.	1.1	0
116	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, .	3.3	0
117	Hydrothermal synthesis, structure and magnetic properties of Ru doped La0.5Sr0.5MnO3. Frontiers of Physics, 2019, 14, 1.	5.0	0
118	Evolution of the upper critical field and superconducting vortex phase with thickness in PLD-grown Ta films. Superconductor Science and Technology, 2022, 35, 055010.	3.5	0