Guang-Han Cao

List of Publications by Citations

326 papers	7,682 citations	43 h-index	76 g-index
354 ext. papers	8,666 ext. citations	3.7 avg, IF	5.65 L-index

#	Paper	IF	Citations
326	Thorium-doping□nduced superconductivity up to 56 K in Gd 1□ Th x FeAsO. *Europhysics Letters*, **2008**, 83, 67006	1.6	536
325	Fermi surface nesting induced strong pairing in iron-based superconductors. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 7330-3	11.5	294
324	Superconductivity induced by Ni doping in BaFe2As2single crystals. *New Journal of Physics*, **2009**, 11, 025008	2.9	228
323	Superconductivity up to 30 K in the vicinity of the quantum critical point in BaFe(2)(As(1-x)P(x))(2). *Journal of Physics Condensed Matter*, **2009**, 21, 382203	1.8	226
322	Superconductivity induced by phosphorus doping and its coexistence with ferromagnetism in EuFe2(As0.7P0.3)(2). *Physical Review Letters*, **2009**, 102, 137002	7.4	224
321	Effects of cobalt doping and phase diagrams of LFe1□CoxAsO (L=La and Sm). *Physical Review B*, **2009**, 79,	3.3	172
320	Antiferromagnetic transition in EuFe2As2: A possible parent compound for superconductors. *Physical Review B*, **2008**, 78,	3.3	166
319	Inelastic neutron-scattering measurements of a three-dimensional spin resonance in the FeAs-based BaFe1.9Ni0.1As2 superconductor. *Physical Review Letters*, **2009**, 102, 107006	7.4	161
318	Superconductivity induced by La doping in Sr1□LaxFBiS2. *Physical Review B*, **2013**, 87,	3.3	146
317	Electronic structure of heavily electron-doped BaFe1.7Co0.3As2studied by angle-resolved photoemission. *New Journal of Physics*, **2009**, 11, 025020	2.9	114
316	Optical investigations of the normal and superconducting states reveal two electronic subsystems in iron pnictides. *Physical Review B*, **2010**, 81,	3.3	113
315	Unconventional superconductivity in quasi-one-dimensional Rb2Cr3As3. *Physical Review B*, **2015**, 91,	3.3	108
314	Superconductivity in Quasi-One-Dimensional K2Cr3As3 with Significant Electron Correlations. *Physical Review X*, **2015**, 5,	9.1	102
313	Superconductivity in quasi-one-dimensional Cs2Cr3As3 with large interchain distance. *Science China Materials*, **2015**, 58, 16-20	7.1	99
312	Possible charge-density wave, superconductivity, and f-electron valence instability in EuBiS2F. *Physical Review B*, **2014**, 90,	3.3	93
311	Decrease of dielectric loss in CaCu3Ti4O12 ceramics by La doping. *Physica Status Solidi (A) Applications and Materials Science*, **2006**, 203, R22-R24	1.6	90
310	Metamagnetic transition in EuFe2As2single crystals. *New Journal of Physics*, **2009**, 11, 025007	2.9	89

309	Superconductivity in LaFeAs 1-x P x O: Effect of chemical pressures and bond covalency. *Europhysics Letters*, **2009**, 86, 47002	1.6	89
308	Decrease of dielectric loss in giant dielectric constant CaCu3 Ti4 O12 ceramics by adding CaTiO3. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2006**, 130, 146-150	3.1	88
307	Electrodynamics of electron-doped iron pnictide superconductors: Normal-state properties. *Physical Review B*, **2010**, 82,	3.3	87
306	Superconductivity and local-moment magnetism in Eu(Fe0.89Co0.11)2As2. *Physical Review B*, **2009**, 80,	3.3	85
305	Effects of magnetic ordering on dynamical conductivity: Optical investigations of EuFe2As2 single crystals. *Physical Review B*, **2009**, 79,	3.3	84
304	Narrow superconducting window in LaFe1−NixAsO. *Physical Review B*, **2009**, 79,	3.3	78
303	Evidence for nodal superconductivity in quasi-one-dimensional K2Cr3As3. *Physical Review B*, **2015**, 91,	3.3	75
302	Optical properties of the iron arsenic superconductor BaFe1.85Co0.15As2. *Physical Review B*, **2010**, 82,	3.3	72
301	Infrared phonon anomaly in BaFe2As2. *Physical Review B*, **2009**, 80,	3.3	72
300	NMR investigation of the quasi-one-dimensional superconductor K(2)Cr(3)As(3). *Physical Review Letters*, **2015**, 114, 147004	7.4	68
299	Superconductivity and ferromagnetism in hole-doped RbEuFe4As4. *Physical Review B*, **2016**, 93,	3.3	68
298	Superconductivity in KCa2Fe4As4F2 with Separate Double Fe2As2 Layers. *Journal of the American Chemical Society*, **2016**, 138, 7856-9	16.4	67
297	Anomalous Eu valence state and superconductivity in undoped Eu3Bi2S4F4. *Journal of the American Chemical Society*, **2014**, 136, 15386-93	16.4	67
296	Ba2Ti2Fe2As4O: A new superconductor containing Fe2As2 layers and Ti2O sheets. *Journal of the American Chemical Society*, **2012**, 134, 12893-6	16.4	62
295	Superconductivity above 50 K in Tb1−ThxFeAsO. *Physical Review B*, **2008**, 78,	3.3	61
294	Electronic structure of quasi-one-dimensional superconductor K2Cr3As3 from first-principles calculations. *Scientific Reports*, **2015**, 5, 16054	4.9	59
293	Spin gap and magnetic resonance in superconducting BaFe1.9Ni0.1As2. *Physical Review B*, **2009**, 79,	3.3	59
292	Synthesis and magnetoresistance measurement of tellurium microtubes. *Journal of Materials Chemistry*, **2004**, 14, 244		54

291	Coexistence of ferromagnetism and superconductivity: magnetization and M□sbauer studies of EuFe□As□ xPx)□*Journal of Physics Condensed Matter*, **2011**, 23, 065701	1.8	52
290	Phase diagram of CeFeAs1□PxO obtained from electrical resistivity, magnetization, and specific heat measurements. *Physical Review B*, **2010**, 81,	3.3	52
289	La2Co2Se2O3: a quasi-two-dimensional mott insulator with unusual cobalt spin state and possible orbital ordering. *Journal of the American Chemical Society*, **2010**, 132, 7069-73	16.4	49
288	A New ZrCuSiAs-Type Superconductor: ThFeAsN. *Journal of the American Chemical Society*, **2016**, 138, 2170-3	16.4	46
287	Anisotropic superconductivity in Eu(Fe 0.75 Ru 0.25) 2 As 2 ferromagnetic superconductor. *Europhysics Letters*, **2011**, 95, 67007	1.6	46
286	Ferromagnetic Spin Fluctuation and Unconventional Superconductivity in Rb2Cr3As3 Revealed by 75As NMR and NQR. *Physical Review Letters*, **2015**, 115, 147002	7.4	45
285	Effect of a Zn impurity onTcand its implications for pairing symmetry in LaFeAsO1□Fx. *New Journal of Physics*, **2010**, 12, 083008	2.9	44
284	Suppression of spin-density-wave transition and emergence of ferromagnetic ordering of Eu2+ moments in EuFe2□NixAs2. *Physical Review B*, **2009**, 79,	3.3	43
283	Magnetic ordering and dense Kondo behavior in EuFe2P2. *Physical Review B*, **2010**, 82,	3.3	42
282	Grain-boundary and subgrain-boundary effects on the dielectric properties of CaCu3Ti4O12ceramics. *Journal Physics D: Applied Physics*, **2007**, 40, 2899-2905	3	42
281	A new ferromagnetic superconductor: CsEuFe 4 As 4. *Science Bulletin*, **2016**, 61, 1213-1220	10.6	42
280	Self-doping effect and successive magnetic transitions in superconducting Sr2VFeAsO3. *Physical Review B*, **2010**, 82,	3.3	41
279	Electron-phonon coupling and the charge gap of spin-density wave iron-pnictide materials from quasiparticle relaxation dynamics. *Physical Review B*, **2010**, 82,	3.3	41
278	Superconductivity in a layered Ta4Pd3Te16 with PdTe2 chains. *Journal of the American Chemical Society*, **2014**, 136, 1284-7	16.4	40
277	Observation of giant dielectric constant in CdCu3Ti4O12 ceramics. *Solid State Communications*, **2006**, 138, 91-94	1.6	39
276	Crystal structure and superconductivity at about 30 K in ACa2Fe4As4F2 (A = Rb, Cs). *Science China Materials*, **2017**, 60, 83-89	7.1	38
275	Possibility of vortex lattice structural phase transition in the superconducting pnictide Ba(Fe0.925Co0.075)2As2. *Physical Review B*, **2010**, 81,	3.3	38
274	Li2RhO3: A spin-glassy relativistic Mott insulator. *Physical Review B*, **2013**, 87,	3.3	36

273	Sr and Mn co-doped LaCuSO: A wide band gap oxide diluted magnetic semiconductor with TC around 200 K. *Applied Physics Letters*, **2013**, 103, 022410	3.4	36
272	Metal-Insulator Transition and Superconductivity in Spinel-Type System Cu1-xZnxIr2S4. *Journal of the Physical Society of Japan*, **1999**, 68, 2495-2497	1.5	36
271	Domain Meissner state and spontaneous vortex-antivortex generation in the ferromagnetic superconductor EuFe(AsP). *Science Advances*, **2018**, 4, eaat1061	14.3	35
270	Cluster spin-glass ground state in quasi-one-dimensional KCr3As3. *Physical Review B*, **2015**, 91,	3.3	35
269	Magnetic structure of EuFe2P2 studied by neutron powder diffraction. *Physical Review B*, **2011**, 83,	3.3	35
268	Suppression of metal-to-insulator transition and appearance of superconductivity in Cu1−ZnxIr2S4. *Physical Review B*, **2001**, 64,	3.3	35
267	Heavy-fermion quantum criticality and destruction of the Kondo effect in a nickel oxypnictide. *Nature Materials*, **2014**, 13, 777-81	27	34
266	Superconductivity and ferromagnetism in EuFe(As(1-x)P(x)) *Journal of Physics Condensed Matter*, **2011**, 23, 464204	1.8	34
265	Coexistence of superconductivity and ferromagnetism in Sr0.5Ce0.5FBiS2. *Physical Review B*, **2015**, 91,	3.3	33
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262	Effect of Zn doping on magnetic order and superconductivity in LaFeAsO. *New Journal of Physics*, **2009**, 11, 053008	2.9	33
261	Crystal chemistry and structural design of iron-based superconductors. *Chinese Physics B*, **2013**, 22, 087410	1.2	32
260	Effects of Ru substitution on electron correlations and Fermi-surface dimensionality in Ba(Fe1−Rux)2As2. *Physical Review B*, **2012**, 86,	3.3	31
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258	Nernst effect of a new iron-based superconductor LaO1−FxFeAs. *New Journal of Physics*, **2008**, 10, 063021	2.9	31
257	Pressure-enhanced superconductivity in Eu3Bi2S4F4. *Physical Review B*, **2014**, 90,	3.3	30
256	Magnetic structure of superconducting Eu(Fe0.82Co0.18)2As2 as revealed by single-crystal neutron diffraction. *Physical Review B*, **2013**, 88,	3.3	29

255	Weakly ferromagnetic metallic state in heavily doped Ba1−xKxMn2As2. *Physical Review B*, **2012**, 85,	3.3	29
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253	Evidence for two distinct superconducting phases in EuBiS2F under pressure. *Physical Review B*, **2015**, 91,	3.3	28
252	Optical study of the metal-insulator transition in CuIr2S4 crystals. *Physical Review B*, **2004**, 69,	3.3	28
251	Synthesis, Crystal Structure and Superconductivity in RbLn2Fe4As4O2 (Ln = Sm, Tb, Dy, and Ho). *Chemistry of Materials*, **2017**, 29, 1805-1812	9.6	27
250	Magnetic ground state of superconducting Eu(Fe0.88Ir0.12)2As2: A combined neutron diffraction and first-principles calculation study. *Physical Review B*, **2015**, 91,	3.3	27
249	Nodeless superconducting gap in electron-doped BaFe1.9Ni0.1As2probed by quasiparticle heat transport. *New Journal of Physics*, **2009**, 11, 093018	2.9	27
248	Superconductivity in a layered cobalt oxyhydrate Na0.31CoO2□1.3H2O. *Journal of Physics Condensed Matter*, **2003**, 15, L519-L525	1.8	26
247	Nodal multigap superconductivity in KCa2Fe4As4F2. *Physical Review B*, **2018**, 97,	3.3	25
246	Competing ferromagnetism and superconductivity on FeAs layers in EuFe2(As0.73P0.27)2. *Physical Review Letters*, **2010**, 105, 207003	7.4	25
245	Evidence for two energy gaps and Fermi liquid behavior in the SrPt2As2 superconductor. *Physical Review B*, **2013**, 87,	3.3	24
244	Relationship between Superconductivity and Antiferromagnetism in LaFe(As1−xPx)O Revealed by 31P-NMR. *Journal of the Physical Society of Japan*, **2014**, 83, 023707	1.5	23
243	Ti-rich and Cu-poor grain-boundary layers of CaCu3Ti4O12 detected by x-ray photoelectron spectroscopy. *Applied Physics Letters*, **2007**, 91, 052910	3.4	23
242	Superconductivity at 33–37 K in ALn2Fe4As4O2 (A=Kand Cs;Ln=lanthanides). *Physical Review Materials*, **2017**, 1,	3.2	23
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240	Nodes in the order parameter of superconducting iron pnictides investigated by infrared spectroscopy. *Physical Review B*, **2010**, 82,	3.3	22
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235	Giant anisotropy in superconducting single crystals of CsCa2Fe4As4F2. *Physical Review B*, **2019**, 99,	3.3	21
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231	Structural properties and superconductivity in the Y1□PrxBaSrCu3O7□system. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1994**, 196, 263-266	2.3	20
230	Temperature and angular dependence of the upper critical field in K2Cr3As3. *Physical Review B*, **2017**, 95,	3.3	19
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224	Growth of highly-oriented CaCu3Ti4O12 thin films on SrTiO3 (1 0 0) substrates by a chemical solution route. *Applied Surface Science*, **2006**, 253, 2268-2271	6.7	19
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220	Magnetism and crystalline electric field effect in ThCr2Si2-type CeNi2As2. *Physical Review B*, **2012**, 86,	3.3	18

219	Impedance spectroscopy study on transport properties of N,N?-diphenyl-N,N?-bis(1-naphthyl)-1,1?-biphenyl-4,4?-diamine. *Physica B: Condensed Matter*, **2005**, 362, 35-40	2.8	18
218	Peculiar properties of -chain-based superconductors. *Philosophical Magazine*, **2017**, 97, 591-611	1.6	17
217	Superconductivity at 35 K by self doping in RbGdFeAsO. *Journal of Physics Condensed Matter*, **2017**, 29, 11LT01	1.8	17
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215	Penetration depth measurements of K2Cr3As3 and Rb2Cr3As3. *Journal of Magnetism and Magnetic Materials*, **2016**, 400, 84-87	2.8	17
214	High-T superconductivity in undoped ThFeAsN. *Nature Communications*, **2017**, 8, 156	17.4	17
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212	Anomalous critical fields and the absence of Meissner state in Eu(Fe0.88Ir0.12)2As2crystals. *New Journal of Physics*, **2013**, 15, 113002	2.9	17
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209	Mössbauer spectroscopy measurements on the 35.5 K superconductor Rb1−δEuFe4As4. *Physical Review B*, **2018**, 97,	3.3	16
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206	Scanning tunneling microscopy study of superconductivity, magnetic vortices, and possible charge-density wave in Ta4Pd3Te16. *Physical Review B*, **2015**, 91,	3.3	16
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202	Pr?O chemical bonding effect and Pr valence state in PrBa2Cu3O7: A comprehensive structural-correlation study. *Journal of Physics and Chemistry of Solids*, **1995**, 56, 981-988	3.9	16

201	Visualization of the magnetic flux structure in phosphorus-doped EuFe2As2 single crystals. *JETP Letters*, **2017**, 105, 98-102	1.2	15
200	Correlation between superconductivity and bond angle of CrAs chain in non-centrosymmetric compounds ACrAs (A = K, Rb). *Scientific Reports*, **2016**, 6, 37878	4.9	15
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198	Quasi-linear magnetoresistance and the violation of Kohler's rule in the quasi-one-dimensional $Ta_2Pd_3Te_5$ superconductor. *Journal of Physics Condensed Matter*, **2015**, 27, 335701	1.8	14
197	Superconductivity in hexagonal Nb-Mo-Ru-Rh-Pd high-entropy alloys. *Scripta Materialia*, **2020**, 182, 109-113	5.6	14
196	Unique [MnBi] Nanowires in KMnBi: A Quasi-One-Dimensional Antiferromagnetic Metal. *Journal of the American Chemical Society*, **2018**, 140, 4391-4400	16.4	14
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183	Polymorphism and superconductivity in the V-Nb-Mo-Al-Ga high-entropy alloys. *Science China Materials*, **2020**, 63, 823-831	7.1	12
182	Pressure-induced enhancement of superconductivity and quantum criticality in the 12442-type hybrid-structure superconductor KCa2Fe4As4F2. *Physical Review B*, **2019**, 99,	3.3	12
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180	Electronic nematicity revealed by torque magnetometry in EuFe2(As1−xPx)2. *Physical Review B*, **2014**, 89,	3.3	11
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178	Metal-to-metal transition and heavy-electron state in Nd4Ni3O10−δ *Physical Review B*, **2020**, 101,	3.3	10
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174	Superfluid density of Ba(Fe1-xMx)2As2 from optical experiments. *Physica C: Superconductivity and Its Applications*, **2010**, 470, S399-S400	1.3	10
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172	Lifshitz transition and nontrivial H-doping effect in the Cr-based superconductor KCr3As3Hx. *Physical Review B*, **2019**, 100,	3.3	10
171	Multigap Superconductivity in RbCa2Fe4As4F2 Investigated Using μSR Measurements. *Journal of the Physical Society of Japan*, **2018**, 87, 124705	1.5	10
170	Enhanced superconductivity in ThNiAsN. *Europhysics Letters*, **2017**, 118, 57004	1.6	9
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163	A quantitative understanding for the Tc suppression in Y1−xPrxBa2Cu3O7. *Physica C: Superconductivity and Its Applications*, **1998**, 301, 294-300	1.3	9
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