

James F Annett

List of Publications by Year in descending order

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79
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times ranked

1439
citing authors

#	ARTICLE	IF	CITATIONS
1	Cuprate parameters from numerical Wannier functions. Physical Review B, 1990, 42, 6268-6282.	3.2	285
2	Interpretation of the temperature dependence of the electromagnetic penetration depth in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Physical Review B, 1991, 43, 2778-2782.	3.2	247
3	Symmetry of the order parameter for high-temperature superconductivity. Advances in Physics, 1990, 39, 83-126.	14.4	186
4	Electronic Hamiltonian and antiferromagnetic interactions in La_2CuO_4 . Physical Review B, 1989, 40, 2620-2623.	3.2	142
5	Stability and charge transfer of C3B ordered structures. Physical Review B, 1996, 54, R2271-R2275.	3.2	86
6	Anticorrugating Effect of Hybridization on the Helium Diffraction Potential for Metal Surfaces. Physical Review Letters, 1984, 53, 838-841.	7.8	68
7	Recent progress on superconductors with time-reversal symmetry breaking. Journal of Physics Condensed Matter, 2021, 33, 033001.	1.8	67
8	Interlayer coupling and p-wave pairing in strontium ruthenate. Physical Review B, 2002, 66, .	3.2	65
9	Relativistic analysis of the pairing symmetry of the noncentrosymmetric superconductor LaNiC_2 . Physical Review B, 2010, 82, .	3.2	65
10	Electron-phonon coupling and d-wave superconductivity in the cuprates. Physical Review B, 1995, 51, 3840-3849.	3.2	63
11	van der Waals interaction between an atom and a surface at finite separations. Physical Review B, 1986, 34, 6853-6859.	3.2	56
12	Constraints on the pairing state of the cuprate superconductors. Journal of Low Temperature Physics, 1996, 105, 473-482.	1.4	50
13	The superconducting state of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$?. Journal of Low Temperature Physics, 1992, 89, 197-206.	1.4	48
14	Intrinsic Optical Dichroism in the Chiral Superconducting State of Sr_2RuO_4 . Physical Review Letters, 2012, 108, 077004.	7.8	46
15	Derivation of a one-band Hubbard model for CuO planar materials. Physical Review B, 1991, 44, 7504-7509.	3.2	44
16	The gap equations for spin singlet and triplet ferromagnetic superconductors. Journal of Physics A, 2003, 36, 9289-9302.	1.6	44
17	Critical current of a Josephson junction containing a conical magnet. Physical Review B, 2009, 79, .	3.2	44
18	EXPERIMENTAL CONSTRAINTS ON THE PAIRING STATE OF THE CUPRATE SUPERCONDUCTORS: AN EMERGING CONSENSUS. , 1996, , 375-461.		42

#	ARTICLE	IF	CITATIONS
19	Evidence for anisotropic pairing in $\text{YBa}_2\text{Cu}_3\text{O}_7$ from the Landau theory of fluctuation specific heat. <i>Physical Review B</i> , 1988, 38, 4660-4667.	3.2	39
20	Spin-orbit coupling and symmetry of the order parameter in strontium ruthenate. <i>Physical Review B</i> , 2006, 73, .	3.2	37
21	Self-consistent interface properties of d - and s -wave superconductors. <i>Physical Review B</i> , 1998, 57, 8709-8716.	3.2	36
22	Kerr rotation in the unconventional superconductor Sr_2RuO_4 . <i>Physical Review B</i> , 2013, 88, .	3.2	36
23	Efficiency of algorithms for Kohn-Sham density functional theory. <i>Computational Materials Science</i> , 1995, 4, 23-42.	3.0	35
24	Alkali-metal-plated graphite surfaces: He interaction and diffraction. <i>Surface Science</i> , 1992, 279, 149-158.	1.9	34
25	Quantitative theory of triplet pairing in the unconventional superconductor LaNiGa_2 . <i>Physical Review B</i> , 2020, 101, .	3.2	31
26	Spin-orbit coupling and k -dependent Zeeman splitting in strontium ruthenate. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 094201.	1.8	30
27	Surface dielectric response of a semimetal: Electron-energy-loss spectroscopy of graphite. <i>Physical Review B</i> , 1988, 37, 2408-2414.	3.2	29
28	Hybridization interaction between helium and a metal surface. <i>Physical Review B</i> , 1986, 34, 6860-6868.	3.2	28
29	Effect of randomness on the Mott state. <i>Physical Review Letters</i> , 1993, 71, 4377-4380.	7.8	26
30	Critical dynamics, spinodal decomposition, and conservation laws. <i>Physical Review Letters</i> , 1992, 68, 2941-2943.	7.8	25
31	Helium diffraction from metal surfaces: Elimination of a class of potentials. <i>Physical Review B</i> , 1984, 29, 3773-3776.	3.2	24
32	Two-band Hamiltonian for CuO_2 planes. <i>Physical Review B</i> , 1990, 42, 3929-3934.	3.2	23
33	Ab initio calculation of structural properties of C_3B and C_5B compounds. <i>Physical Review B</i> , 1997, 55, 8-10.	3.2	23
34	Nonunitary triplet pairing in the noncentrosymmetric superconductor LaNiC_2 . <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	22
35	Unconventional superconductivity. <i>Contemporary Physics</i> , 1995, 36, 423-437.	1.8	21
36	Interactions of nanoscale ferromagnetic granules in a London superconductor. <i>Superconductor Science and Technology</i> , 2006, 19, 381-384.	3.5	21

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37	Magnetic field induced rotation of the d -vector in the spin-triplet superconductor Sr . Physical Review B, 2008, 78, .	3.2	21
38	Relativistic spin-polarized KKR theory for superconducting heterostructures: Oscillating order parameter in the Au layer of Nb/Au/Fe trilayers. Physical Review B, 2018, 97, .	3.2	18
39	Long-range excitation of electron-hole pairs in atom-surface scattering. Physical Review B, 1987, 36, 8986-8991.	3.2	17
40	Gap anisotropy in multiband superconductors based on multiple scattering theory. Physical Review B, 2020, 101, .	3.2	16
41	Impurity Bound States in Disordered d-Wave Superconductors. Physical Review Letters, 2002, 89, 287002.	7.8	15
42	Proximity effect in superconductor/conical magnet/ferromagnet heterostructures. New Journal of Physics, 2014, 16, 055005.	2.9	15
43	Theory of helium diffraction from copper surfaces. Physical Review B, 1987, 35, 7826-7834.	3.2	14
44	Spin-triplet superconductivity in Weyl nodal-line semimetals. Npj Quantum Materials, 2022, 7, .	5.2	14
45	Orbital magnetic moment of a chiral p-wave superconductor. New Journal of Physics, 2009, 11, 055063.	2.9	13
46	Zero-point vibrational energy of an adsorbed film. Journal of Low Temperature Physics, 1991, 84, 1-17.	1.4	11
47	Cooper pairing with finite angular momentum via a central attraction: From the BCS to the Bose limits. Physical Review B, 2002, 66, .	3.2	10
48	Effect of spin-orbit coupling on the polar Kerr effect in Sr . Physical Review B, 2017, 96, .	2.2	10
49	Conjugate-gradient calculations of adatom interactions. Physical Review B, 1994, 49, 13921-13928.	3.2	9
50	Real-space multiple scattering theory for superconductors with impurities. Physical Review B, 2020, 102, .	3.2	8
51	Competition between disorder and exchange splitting in superconducting $ZrZn_2$. Journal of Physics Condensed Matter, 2003, 15, L235-L241.	1.8	7
52	Anisotropic and multiband pairing: from borides to multicomponent superconductivity. Superconductor Science and Technology, 2009, 22, 010301.	3.5	7
53	Full orbital decomposition of Yu-Shiba-Rusinov states based on first principles. Physical Review B, 2022, 105, .	3.2	7
54	Variational QMC study of a hydrogen atom in jellium with comparison to LSDA and self-interaction corrected LSDA solutions. Physical Review B, 2007, 76, .	3.2	6

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55	Triplet superconductivity and proximity effect induced by Bloch and Néel domain walls. Superconductor Science and Technology, 2015, 28, 085015.	3.5	6
56	Anticorrugating Effect of Hybridization on the Helium Diffraction Potential for Metal Surfaces. Physical Review Letters, 1986, 57, 1382-1382.	7.8	5
57	Order parameters in the resonating-valence-bond model. Physical Review B, 1989, 39, 708-710.	3.2	5
58	Metals in flatland. Nature Physics, 2012, 8, 8-9.	16.7	5
59	The Berry curvature of the Bogoliubov quasiparticle Bloch states in the unconventional superconductor Sr_2RuO_4 . Journal of Physics Condensed Matter, 2014, 26, 274205.	1.8	5
60	Time-reversal symmetry breaking in superconductors through loop supercurrent order. New Journal of Physics, 2021, 23, 083018.	2.9	5
61	Valence density functionals. Physical Review Letters, 1992, 69, 2244-2247.	7.8	4
62	The importance of self-consistency in determining interface properties of SIN and DIN structures. Superlattices and Microstructures, 1999, 25, 1019-1031.	3.1	4
63	Spin-wave-velocity renormalization in the two-dimensional $S=1/2$ Heisenberg antiferromagnet. Physical Review B, 1990, 42, 4208-4211.	3.2	3
64	Orbital-dependent pairing effects in the nuclear spin lattice relaxation rate of Sr_2RuO_4 . Superconductor Science and Technology, 2009, 22, 014009.	3.5	3
65	Theory of the orbital moment in a superconductor. Physical Review B, 2020, 101, .	3.2	3
66	Magnetically textured superconductivity in elemental rhenium. Physical Review B, 2022, 106, .	3.2	3
67	Pseudo-spin symmetry in the Hubbard model. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1997, 76, 815-818.	0.6	2
68	Spin-flipping with Holmium: case study of proximity effect in superconductor/ferromagnet/superconductor heterostructures. Philosophical Magazine, 2015, 95, 441-450.	1.6	2
69	Three-band intrinsic Kerr effect in Sr_2RuO_4 . Philosophical Magazine, 2015, 95, 525-537.	1.6	2
70	First-Principles Calculation of Surface Step Energies and Interactions. , 1998, , 271-278.		2
71	Unconventional pairing in $\text{YBa}_2\text{Cu}_3\text{O}_{7-d}$?. Physica C: Superconductivity and Its Applications, 1989, 162-164, 377-378.	1.2	1
72	What is the essential many-body Hamiltonian for copper-oxide superconductors?. Physica C: Superconductivity and Its Applications, 1989, 162-164, 809-810.	1.2	1

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73	Effective single-band Hamiltonian for electron-phonon coupling in cuprate superconductors. Journal of Superconductivity and Novel Magnetism, 1994, 7, 925-929.	0.5	1
74	Intrinsic Optical Dichroism in the 2d Model of Chiral Superconducting State. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1909-1913.	1.8	1
75	Effects of Grain-Boundaries in Superconducting Materials. Materials Research Society Symposia Proceedings, 1997, 491, 407.	0.1	0
76	Electronic spectra of extended Zn impurities ind-wave superconductors. Physical Review B, 2004, 70, .	3.2	0
77	Special section: CompSci07, Computational Science 2007: Interdisciplinary challenges and perspectives, from the Grid to e-Science. Future Generation Computer Systems, 2010, 26, 504-505.	7.5	0
78	Valence Density Functionals. NATO ASI Series Series B: Physics, 1995, , 513-523.	0.2	0