

Arnold R Moodenbaugh

List of Publications by Year in descending order

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105
papers

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76196

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107
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107
docs citations

107
times ranked

6091
citing authors

#	ARTICLE	IF	CITATIONS
1	Unusual Lattice-Magnetism Connections in MnBi Nanorods. <i>Advanced Functional Materials</i> , 2009, 19, 1100-1105.	7.8	12
2	Electronic, Magnetic, and Structural Properties of Sr ₂ MnRuO ₆ and LaSrMnRuO ₆ Double Perovskites. <i>Journal of the American Ceramic Society</i> , 2008, 91, 1796-1806.	1.9	32
3	Direct evidence for the suppression of charge stripes in epitaxial $\text{La}_{1.67}\text{Sr}_{0.33}\text{MnO}_3$. <i>Physical Review B</i> , 2008, 77, .	1.1	3
4	MnBi nanostructures: Size dependence of magnetostructural transition and matrix templating. <i>Applied Physics Letters</i> , 2007, 90, 153112.	1.5	19
5	Size-Dependent Magnetic Properties of Single-Crystalline Multiferroic BiFeO ₃ Nanoparticles. <i>Nano Letters</i> , 2007, 7, 766-772.	4.5	1,135
6	Magnetism and metastability of melt-spun Pd ₄₀ (Fe,Ni) ₄₀ P ₂₀ metallic glass. <i>Journal of Applied Physics</i> , 2006, 99, 08F117.	1.1	15
7	Magnetism and the defect state in the magnetocaloric antiperovskite Mn ₃ GaC ₁₁ . <i>Journal of Physics Condensed Matter</i> , 2006, 18, 1677-1686.	0.7	47
8	Magnetic and transport properties of MnBi-Bi nanocomposites. <i>Journal of Applied Physics</i> , 2006, 99, 08N703.	1.1	4
9	Phase separation in superoxygenated La _{2-x} Sr _x CuO _{4+y} . <i>Nature Materials</i> , 2006, 5, 377-382.	13.3	86
10	Enhancement of the upper critical field of Nb ₃ Sn utilizing disorder introduced by ball milling the elements. <i>Applied Physics Letters</i> , 2006, 88, 142506.	1.5	19
11	SOFT X-RAY ABSORPTION SPECTROSCOPY OF THE MgB ₂ BORON K EDGE IN AN MgB ₂ /Mg COMPOSITE. <i>Modern Physics Letters B</i> , 2006, 20, 1207-1216.	1.0	3
12	Crystal structure and magnetic properties of MnBi-Bi nanocomposite. <i>Journal of Applied Physics</i> , 2005, 97, 10K302.	1.1	19
13	Effects of different reactions on composition homogeneity and superconducting properties of Al-doped MgB ₂ . <i>Superconductor Science and Technology</i> , 2005, 18, 1411-1420.	1.8	19
14	Inversion of Two-Band Superconductivity at the Critical Electron Doping of (Mg,Al)B ₂ . <i>Physical Review Letters</i> , 2005, 95, 267002.	2.9	33
15	Large magnetoresistance in rapidly solidified bismuth. <i>Journal of Applied Physics</i> , 2005, 98, 073704.	1.1	4
16	Alignment and analyses of MnBi-Bi nanostructures. <i>Applied Physics Letters</i> , 2005, 87, 062505.	1.5	28
17	Synthesis and characterization of submicron single-crystalline Bi ₂ Fe ₄ O ₉ cubes. <i>Journal of Materials Chemistry</i> , 2005, 15, 2099.	6.7	99
18	Oxidation state and lattice expansion of CeO ₂ nanoparticles as a function of particle size. <i>Physical Review B</i> , 2004, 69, .	1.1	310

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19	Large magnetic entropy change in the metallic antiperovskite Mn ₃ GaC. Journal of Applied Physics, 2003, 93, 10128-10130.	1.1	135
20	Mid-infrared conductivity from mid-gap states associated with charge stripes. Physical Review B, 2003, 67, .	1.1	42
21	Local structure in the stripe phase of La _{1-6x} Sr _x Nd _{0.4} CuO ₄ . Physical Review B, 2002, 66, .	1.1	51
22	Unraveling the Symmetry of the Hole States near the Fermi Level in the MgB ₂ Superconductor. Physical Review Letters, 2002, 88, 247002.	2.9	38
23	Formation of SEI on Cycled Lithium-Ion Battery Cathodes: Soft X-Ray Absorption Study. Electrochemical and Solid-State Letters, 2002, 5, A22.	2.2	140
24	Stress, strain and technical magnetic properties in 'exchange-spring' Nd ₂ Fe ₁₄ B + \hat{I} -Fe nanocomposite magnets. Journal Physics D: Applied Physics, 2001, 34, 744-751.	1.3	21
25	Dopant structural distortions in high-temperature superconductors: an active or a passive role?. Journal of Synchrotron Radiation, 2001, 8, 186-190.	1.0	9
26	Nucleation and growth of YBa ₂ Cu ₃ O _x on SrTiO ₃ and CeO ₂ by a BaF ₂ postdeposition reaction process. Journal of Materials Research, 2001, 16, 2869-2884.	1.2	51
27	Crystallographic analysis of orientational domain variants and charge-ordered domains in La _{0.33} Ca _{0.67} MnO ₃ . Physical Review B, 2001, 63, .	1.1	35
28	Doping and Temperature Dependence of the Mass Enhancement Observed in the Cuprate Bi ₂ Sr ₂ CaCu ₂ O ₈ + \hat{I} . Physical Review Letters, 2001, 87, 177007.	2.9	331
29	Nuclear magnetic resonance study of polycrystalline Sr _{1-x} Ca _x RuO ₃ (0 ≤ x ≤ 1.0). Journal of Physics Condensed Matter, 2000, 12, 3857-3869.	0.7	12
30	Hole-state density of La _{1-x} Sr _x CoO ₃ (0 < x < 0.5) across the insulator/metal phase boundary. Physical Review B, 2000, 61, 5666-5671.	1.1	52
31	Magnetic ordering and granularity effects in La _{1-x} Ba _x MnO ₃ . Journal of Applied Physics, 2000, 87, 2490-2496.	1.1	16
32	XAFS study of the low-temperature tetragonal phase of La _{2-x} Ba _x CuO ₄ : Disorder, stripes, and T _c suppression at x=0.125. Physical Review B, 2000, 61, 7055-7076.	1.1	48
33	Distinguishing between the bi-stripe and Wigner-crystal model: A crystallographic study of charge-ordered La _{0.33} Ca _{0.67} MnO ₃ . Physical Review B, 2000, 61, 11946-11955.	1.1	39
34	Low to High Spin-State Transition Induced by Charge Ordering in Antiferromagnetic YBaCo ₂ O ₅ . Physical Review Letters, 2000, 84, 2969-2972.	2.9	235
35	Role of bromine in restoring superconductivity in YBa ₂ Cu ₃ O _y . Physical Review B, 1999, 60, 10489-10499.	1.1	6
36	Metal ion and oxygen vacancies in bulk and thin film La _{1-x} Sr _x CoO ₃ . Physical Review B, 1999, 59, 13365-13369.	1.1	27

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37	Structural disorder and the origin of high-T _c suppression in La _{1.875} Ba _{0.125} CuO ₄ . Journal of Synchrotron Radiation, 1999, 6, 755-757.	1.0	1
38	Oriental domains at room temperature in La _{0.33} Ca _{0.67} MnO ₃ perovskite. Wuhan University Journal of Natural Sciences, 1999, 4, 415-422.	0.2	2
39	High-resolution x-ray diffraction study of La _{1.88} Y _{0.12} NdCuO ₄ . Physical Review B, 1998, 58, 9549-9555.	1.1	27
40	Defect Identification in (La,Sr)CoO ₃ Using Positron Annihilation Spectroscopy. Materials Research Society Symposia Proceedings, 1998, 541, 161.	0.1	2
41	Coexistence of, and Competition between, Superconductivity and Charge-Stripe Order in La _{1.6} Nd _{0.4} Sr _x CuO ₄ . Physical Review Letters, 1997, 78, 338-341.	2.9	612
42	Field-induced staggered magnetic order in La ₂ NiO ₄ . Physical Review B, 1997, 55, R6113-R6116.	1.1	50
43	Trapping properties of cadmium vacancies in Cd _{1-x} Zn _x Te. Physical Review B, 1997, 55, 6945-6949.	1.1	69
44	Effect of oxygen partial pressure during postheat treatment on Bi ₂ Sr ₂ CaCu ₂ O _y /Ag tapes. Journal of Applied Physics, 1996, 80, 331-335.	1.1	8
45	Magnetoresistance in La _{1-x} Sr _x CoO ₃ for 0.05 ≤ x ≤ 0.25. Physical Review B, 1996, 53, 8207-8210.	1.1	115
46	Positron states in pure and Fe doped polycrystalline YBa ₂ Cu ₃ O _{7-δ} superconductors. Journal of Physics Condensed Matter, 1994, 6, 10487-10497.	0.7	3
47	Tetragonal-Orthorhombic Structural Modulation at Low Temperature in La _{2-x} Ba _x CuO ₄ . Physical Review Letters, 1994, 73, 3026-3029.	2.9	53
48	Grain-boundary constraint and oxygen deficiency in YBa ₂ Cu ₃ O _{7-δ} : Application of the coincidence site lattice model to a non-cubic system. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1994, 70, 969-984.	0.8	35
49	Nature of hole doping in Nd ₂ NiO ₄ and La ₂ NiO ₄ : Comparison with La ₂ CuO ₄ . Physical Review B, 1993, 47, 12365-12368.	1.1	31
50	Superconductivity under pressure of La _{2-x} Ba _x CuO ₄ (0.05 ≤ x ≤ 0.25) and Nd _{1.85} Ce _{0.15} CuO ₄ . Physical Review B, 1992, 45, 4897-4900.	1.1	15
51	Tetragonal YBa ₂ (Cu _{1-x} M _x) ₃ O _{7-δ} , M = Fe, Co, Al; tweed contrast and orthorhombic microtwins. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1992, 65, 1067-1077.	0.6	6
52	Synthesis of YBa ₂ Cu ₃ O _{7-δ} with clean grain boundaries by a modified aerosol decomposition process. Journal of Materials Research, 1992, 7, 3175-3184.	1.2	14
53	Magnetic ordering in Nd _{2-x} Ce _x CuO _{4-y} . Hyperfine Interactions, 1991, 63, 305-309.	0.2	1
54	Comparative study of Cu K-edge x-ray-absorption and Cu 2p _x -ray photoelectron spectra in copper oxide compounds. Physical Review B, 1991, 44, 5176-5189.	1.1	42

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55	Properties of reduced then reoxidized $\text{YBa}_2(\text{Cu}_{1-x}\text{Fe}_x)\text{CuO}_7$. <i>Physical Review B</i> , 1991, 44, 6991-6998.	1.1	24
56	X-ray absorption near-edge studies of substitution for Cu in $\text{YBa}_2(\text{Cu}_{1-x}\text{M}_x)\text{CuO}_7$ (M=Fe, Co, Ni, and Zn). <i>Physical Review B</i> , 1990, 42, 2231-2241.	1.1	125
57	Delocalization of holes in $\text{La}_{2-x}(\text{Ba},\text{Sr})_x\text{CuO}_4$. <i>Physical Review B</i> , 1990, 42, 6299-6304.	1.1	9
58	Displacement wave of the tweed structure in Y-Ba-Cu-O oxides. <i>Philosophical Magazine Letters</i> , 1990, 62, 51-59.	0.5	57
59	Superconductivity under high pressure of $\text{YBa}_2(\text{Cu}_{1-x}\text{M}_x)\text{CuO}_7$ (M=Fe, Co, Al, Cr, Ni, and Zn). <i>Physical Review B</i> , 1990, 41, 8757-8761.	1.1	45
60	Flux Pinning and Microstructure in $\text{YBa}_2\text{Cu}_3\text{O}_7$. , 1990, , 27-40.		3
61	Variation of electronic and atomic structures in $\text{YBa}_2(\text{Cu}_{1-x}\text{Fe}_x)\text{CuO}_7$. <i>Physical Review B</i> , 1989, 39, 6681-6689.	1.1	67
62	Microstructure, lattice parameters, and superconductivity of $\text{YBa}_2(\text{Cu}_{1-x}\text{Fe}_x)\text{CuO}_7$ for $0 \leq x \leq 0.33$. <i>Physical Review B</i> , 1989, 39, 6667-6680.	1.1	232
63	A new structural modification of superconducting $\text{La}_{2-x}\text{M}_x\text{CuO}_4$. <i>IBM Journal of Research and Development</i> , 1989, 33, 382-388.	3.2	81
64	Structural phase transformations and superconductivity in $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$. <i>Physical Review Letters</i> , 1989, 62, 2751-2754.	2.9	630
65	Nature of the charge carriers in electron-doped copper oxide superconductors. <i>Nature</i> , 1989, 337, 720-721.	13.7	232
66	Valency and superconductors. <i>Nature</i> , 1989, 340, 349-349.	13.7	1
67	Observation of twin boundary layers in pure and alloyed $\text{YBa}_2\text{Cu}_3\text{O}_7$. <i>Applied Physics Letters</i> , 1989, 54, 374-376.	1.5	60
68	Magnetic field and temperature dependence of magnetic flux creep in c-axis-oriented $\text{YBa}_2\text{Cu}_3\text{O}_7$ powder. <i>Physical Review B</i> , 1989, 40, 10882-10890.	1.1	158
69	Structural Studies of $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$ Between 110-293 K. <i>Materials Research Society Symposia Proceedings</i> , 1989, 156, 141.	0.1	17
70	The Upper Critical Magnetic Field of Superconducting $\text{YBa}_2(\text{Cu}_{1-x}\text{Ni}_x)\text{CuO}_7$. <i>Materials Research Society Symposia Proceedings</i> , 1989, 169, 1037.	0.1	0
71	A Systematic Study of the Effects of Metal Substitutions for Cu in $\text{YBa}_2(\text{Cu}_{1-x}\text{M}_x)\text{CuO}_7$, M=Fe, Co, Al, Ga, Cr, Ni, and Zn. <i>Materials Research Society Symposia Proceedings</i> , 1989, 169, 221.	0.1	3
72	The Effects of Metal Doping: $\text{YBa}_2(\text{Cu}_{1-x}\text{M}_x)\text{CuO}_7$ (M=;Fe, Co, Ni, and Zn). <i>Materials Research Society Symposia Proceedings</i> , 1989, 169, 225.	0.1	0

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73	Analytical electron microscopy study of high T _c superconductor YBa ₂ Cu ₃ O ₇ . Journal of Electron Microscopy Technique, 1988, 8, 307-309.	1.1	1
74	Inverse photoemission studies of the high-T _c superconductors. Physical Review B, 1988, 37, 3738-3740.	1.1	29
75	Systematic variation of magnetic-field penetration depth in high-T _c superconductors studied by muon-spin relaxation. Physical Review B, 1988, 38, 909-912.	1.1	195
76	Mixed valency, hole concentration, and T _c in YBa ₂ Cu ₃ O _{6+x} . Physical Review B, 1988, 38, 8893-8899.	1.1	162
77	Lattice vibrational studies of superconducting YBa ₂ Cu ₃ O ₇ by polarized extended x-ray-absorption fine-structure measurements. Physical Review B, 1988, 38, 6568-6574.	1.1	23
78	Effect of Ga addition to YBa ₂ Cu ₃ O ₇ . Physical Review B, 1988, 38, 7084-7086.	1.1	25
79	Superconducting properties of La _{2-x} Ba _x CuO ₄ . Physical Review B, 1988, 38, 4596-4600.	1.1	489
80	Observation of alignment of superconducting YBa ₂ Cu ₃ O ₇ particles in a magnetic field using neutron diffraction. Physical Review B, 1988, 37, 519-521.	1.1	14
81	Effect of microstructure on positron-annihilation parameters in YBa ₂ Cu ₃ O ₇ . Physical Review B, 1988, 38, 5126-5129.	1.1	36
82	Orientation-dependent x-ray-absorption near-edge studies of high-T _c superconductors. Physical Review B, 1988, 38, 761-764.	1.1	59
83	Temperature dependence of positron-annihilation parameters in YBa ₂ Cu ₃ O ₇ above and below the superconducting transition. Physical Review B, 1987, 36, 8854-8857.	1.1	67
84	Superconducting HxYBa ₂ Cu ₃ O ₇ : The role of H. Physical Review B, 1987, 36, 8798-8801.	1.1	65
85	X-ray-absorption near-edge-structure study of La _{2-x} (Ba,Sr) _x CuO ₄ superconductors. Physical Review B, 1987, 36, 5263-5274.	1.1	159
86	Superconductivity in HxYBa ₂ Cu ₃ O ₇ . Physical Review B, 1987, 36, 5694-5697.	1.1	98
87	Magnetic field penetration depth of La _{1.85} Sr _{0.15} CuO ₄ measured by muon spin relaxation. Physical Review B, 1987, 35, 7133-7136.	1.1	85
88	Extended x-ray-absorption fine-structure study of La _{2-x} Sr _x CuO ₄ superconductors. Physical Review B, 1987, 36, 8401-8407.	1.1	16
89	Superconductivity near 90 K in the Lu-Ba-Cu-O system. Physical Review Letters, 1987, 58, 1885-1887.	2.9	61
90	Orientation Dependent X-Ray Absorption Near Edge Structure in YBa ₂ Cu ₃ O ₇ and La _{1.85} Sr _{0.15} SCuO ₄ . Materials Research Society Symposia Proceedings, 1987, 99, 757.	0.1	1

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91	Penetration Depth Measurements of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\hat{x}}$ at 4 MHz. Materials Research Society Symposia Proceedings, 1987, 99, 387.	0.1	2
92	Superconductivity of $\text{La}_{(2-x)}\text{Ba}_x\text{CuO}_4$. Materials Research Society Symposia Proceedings, 1987, 99, 427.	0.1	4
93	Grain Boundaries, Planar Defects and Superconducting Properties of $\text{YBa}_2\text{Cu}_3\text{O}_7$. Materials Research Society Symposia Proceedings, 1987, 99, 511.	0.1	0
94	A High Intensity Positron Beam at the Brookhaven Reactor. NATO ASI Series Series B: Physics, 1987, , 161-174.	0.2	8
95	Microstructure and Superconductivity in High T_c Materials. , 1987, , 633-645.		1
96	X-ray Absorption Studies of $\text{La}_{2\hat{x}}(\text{Ba,Sr})_x\text{CuO}_4$ Superconductors. , 1987, , 753-754.		29
97	Neutron diffraction study of magnetically ordered $\text{Tm}_2\text{Fe}_3\text{Si}_5$. Physical Review B, 1985, 32, 3103-3106.	1.1	13
98	Neutron-diffraction study of magnetically ordered $\text{Er}_2\text{Fe}_3\text{Si}_5$. Physical Review B, 1984, 29, 271-277.	1.1	20
99	Structural phase transitions and superconducting transition temperatures of hexagonal MxWO_3 compounds. Journal of Physics C: Solid State Physics, 1983, 16, 5217-5232.	1.5	18
100	Neutron-diffraction study of polycrystalline H_2SO_4 and H_2SeO_4 . Physical Review B, 1983, 28, 3501-3505.	1.1	20
101	Thermal Conductivity of Damaged MgO . , 1983, , 139-154.		0
102	Neutron-diffraction study of magnetically ordered $\text{Tb}_2\text{Fe}_3\text{Si}_5$. Physical Review B, 1982, 25, 4702-4710.	1.1	38
103	Search for superconductivity at high pressures in Eu , EuMo_6S_8 , and EuMo_6Se_8 . Physical Review B, 1981, 24, 2863-2866.	1.1	18
104	Superconductivity of transition metal sulfides, selenides, and phosphides with the NaCl structure. Journal of Low Temperature Physics, 1978, 33, 175-203.	0.6	44
105	Superconductivity in the high-pressure phases of barium. Journal of Low Temperature Physics, 1973, 10, 203-206.	0.6	25