

# Arnold R Moodenbaugh

## List of Publications by Citations

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#	Paper	IF	Citations
106	Size-dependent magnetic properties of single-crystalline multiferroic BiFeO <sub>3</sub> nanoparticles. <i>Nano Letters</i> , <b>2007</b> , 7, 766-72	11.5	1005
105	Structural phase transformations and superconductivity in La <sub>2-x</sub> Ba <sub>x</sub> CuO <sub>4</sub> . <i>Physical Review Letters</i> , <b>1989</b> , 62, 2751-2754	7.4	594
104	Coexistence of, and Competition between, Superconductivity and Charge-Stripe Order in La <sub>1.6</sub> Nd <sub>0.4</sub> Sr <sub>x</sub> CuO <sub>4</sub> . <i>Physical Review Letters</i> , <b>1997</b> , 78, 338-341	7.4	556
103	Superconducting properties of La <sub>2-x</sub> Ba <sub>x</sub> . <i>Physical Review B</i> , <b>1988</b> , 38, 4596-4600	3.3	466
102	Doping and temperature dependence of the mass enhancement observed in the cuprate Bi(2)Sr(2)CaCu(2)O(8+delta). <i>Physical Review Letters</i> , <b>2001</b> , 87, 177007	7.4	310
101	Oxidation state and lattice expansion of CeO <sub>2</sub> nanoparticles as a function of particle size. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	285
100	Microstructure, lattice parameters, and superconductivity of YBa <sub>2</sub> (Cu <sub>1-x</sub> Fe <sub>x</sub> ) <sub>3</sub> O <sub>7-delta</sub> for 0 . <i>Physical Review B</i> , <b>1989</b> , 39, 6667-6680	3.3	227
99	Low to high spin-state transition induced by charge ordering in antiferromagnetic YBaCo <sub>2</sub> O <sub>5</sub> . <i>Physical Review Letters</i> , <b>2000</b> , 84, 2969-72	7.4	225
98	Nature of the charge carriers in electron-doped copper oxide superconductors. <i>Nature</i> , <b>1989</b> , 337, 720-721	10.4	222
97	Systematic variation of magnetic-field penetration depth in high-T <sub>c</sub> superconductors studied by muon-spin relaxation. <i>Physical Review B</i> , <b>1988</b> , 38, 909-912	3.3	178
96	X-ray-absorption near-edge-structure study of La <sub>2-x</sub> (Ba,Sr) <sub>x</sub> CuO <sub>4-y</sub> superconductors. <i>Physical Review B</i> , <b>1987</b> , 36, 5263-5274	3.3	156
95	Magnetic field and temperature dependence of magnetic flux creep in c-axis-oriented YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> powder. <i>Physical Review B</i> , <b>1989</b> , 40, 10882-10890	3.3	153
94	Mixed valency, hole concentration, and T <sub>c</sub> in YBa <sub>2</sub> Cu. <i>Physical Review B</i> , <b>1988</b> , 38, 8893-8899	3.3	153
93	Formation of SEI on Cycled Lithium-Ion Battery Cathodes: Soft X-Ray Absorption Study. <i>Electrochemical and Solid-State Letters</i> , <b>2002</b> , 5, A22		135
92	X-ray absorption near-edge studies of substitution for Cu in YBa <sub>2</sub> (Cu <sub>1-x</sub> M <sub>x</sub> ) <sub>3</sub> O <sub>7-delta</sub> (M=Fe, Co, Ni, and Zn). <i>Physical Review B</i> , <b>1990</b> , 42, 2231-2241	3.3	117
91	Large magnetic entropy change in the metallic antiperovskite Mn <sub>3</sub> GaC. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 10128-10130	2.5	113
90	Magnetoresistance in La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3</sub> for 0.05 . <i>Physical Review B</i> , <b>1996</b> , 53, 8207-8210	3.3	110

89	Synthesis and characterization of submicron single-crystalline Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> cubes. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 2099		91
88	Superconductivity in HxYBa. <i>Physical Review B</i> , <b>1987</b> , 36, 5694-5697	3.3	90
87	Magnetic field penetration depth of La <sub>1.85</sub> Sr <sub>0.15</sub> CuO <sub>4</sub> measured by muon spin relaxation. <i>Physical Review B</i> , <b>1987</b> , 35, 7133-7136	3.3	84
86	Phase separation in superoxygenated La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4+y</sub> . <i>Nature Materials</i> , <b>2006</b> , 5, 377-82	27	79
85	A new structural modification of superconducting La <sub>2</sub> MxCuO <sub>4</sub> . <i>IBM Journal of Research and Development</i> , <b>1989</b> , 33, 382-388	2.5	77
84	Trapping properties of cadmium vacancies in Cd <sub>1-x</sub> Zn <sub>x</sub> Te. <i>Physical Review B</i> , <b>1997</b> , 55, 6945-6949	3.3	65
83	Variation of electronic and atomic structures in YBa <sub>2</sub> (Cu <sub>1-x</sub> Fex) <sub>3</sub> O <sub>7-δ</sub> . <i>Physical Review B</i> , <b>1989</b> , 39, 6681-6689	3.3	65
82	Temperature dependence of positron-annihilation parameters in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> above and below the superconducting transition. <i>Physical Review B</i> , <b>1987</b> , 36, 8854-8857	3.3	65
81	Superconducting HxYBa. <i>Physical Review B</i> , <b>1987</b> , 36, 8798-8801	3.3	64
80	Observation of twin boundary layers in pure and alloyed YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Applied Physics Letters</i> , <b>1989</b> , 54, 374-376	3.4	59
79	Superconductivity near 90 K in the Lu-Ba-Cu-O system. <i>Physical Review Letters</i> , <b>1987</b> , 58, 1885-1887	7.4	59
78	Displacement wave of the tweed structure in Y-Ba-Cu-O oxides. <i>Philosophical Magazine Letters</i> , <b>1990</b> , 62, 51-59	1	56
77	Orientation-dependent x-ray-absorption near-edge studies of high-T <sub>c</sub> superconductors. <i>Physical Review B</i> , <b>1988</b> , 38, 761-764	3.3	56
76	Tetragonal-orthorhombic structural modulation at low temperature in La <sub>2-x</sub> BaxCuO <sub>4</sub> . <i>Physical Review Letters</i> , <b>1994</b> , 73, 3026-3029	7.4	51
75	Field-induced staggered magnetic order in La <sub>2</sub> NiO <sub>4.133</sub> . <i>Physical Review B</i> , <b>1997</b> , 55, R6113-R6116	3.3	49
74	Nucleation and growth of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> on SrTiO <sub>3</sub> and CeO <sub>2</sub> by a BaF <sub>2</sub> postdeposition reaction process. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 2869-2884	2.5	49
73	Local structure in the stripe phase of La <sub>1.6</sub> Sr <sub>x</sub> Nd <sub>0.4</sub> CuO <sub>4</sub> . <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	48
72	Hole-state density of La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3</sub> . <i>Physical Review B</i> , <b>2000</b> , 61, 5666-5671	3.3	48

71	Magnetism and the defect state in the magnetocaloric antiperovskite $Mn_3GaC11$ <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 1677-1686	1.8	43
70	Superconductivity under high pressure of $YBa_2(Cu_{1-x}M_x)3O_{7-\delta}$ (M=Fe, Co, Al, Cr, Ni, and Zn). <i>Physical Review B</i> , <b>1990</b> , 41, 8757-8761	3.3	43
69	XAFS study of the low-temperature tetragonal phase of $La_{2-x}Ba_xCuO_4$ : Disorder, stripes, and $T_c$ suppression at $x=0.125$ . <i>Physical Review B</i> , <b>2000</b> , 61, 7055-7076	3.3	40
68	Mid-infrared conductivity from mid-gap states associated with charge stripes. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	39
67	Comparative study of Cu K-edge x-ray-absorption and Cu 2p x-ray photoelectron spectra in copper oxide compounds. <i>Physical Review B</i> , <b>1991</b> , 44, 5176-5189	3.3	39
66	Neutron-diffraction study of magnetically ordered $Tb_2Fe_3Si_5$ . <i>Physical Review B</i> , <b>1982</b> , 25, 4702-4710	3.3	37
65	Unraveling the symmetry of the hole states near the Fermi level in the $MgB_2$ superconductor. <i>Physical Review Letters</i> , <b>2002</b> , 88, 247002	7.4	36
64	Effect of microstructure on positron-annihilation parameters in $YBa_2Cu_3O_7$ . <i>Physical Review B</i> , <b>1988</b> , 38, 5126-5129	3.3	36
63	Distinguishing between the bi-stripe and Wigner-crystal model: A crystallographic study of charge-ordered $La_{0.33}Ca_{0.67}MnO_3$ . <i>Physical Review B</i> , <b>2000</b> , 61, 11946-11955	3.3	35
62	Grain-boundary constraint and oxygen deficiency in $YBa_2Cu_3O_7$ —Application of the coincidence site lattice model to a non-cubic system. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1994</b> , 70, 969-984		35
61	Superconductivity of transition metal sulfides, selenides, and phosphides with the NaCl structure. <i>Journal of Low Temperature Physics</i> , <b>1978</b> , 33, 175-203	1.3	34
60	Inversion of two-band superconductivity at the critical electron doping of $(Mg, Al)B_2$ . <i>Physical Review Letters</i> , <b>2005</b> , 95, 267002	7.4	32
59	Crystallographic analysis of orientational domain variants and charge-ordered domains in $La_{0.33}Ca_{0.67}MnO_3$ . <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	30
58	Inverse photoemission studies of the high- $T_c$ superconductors. <i>Physical Review B</i> , <b>1988</b> , 37, 3738-3740	3.3	29
57	Electronic, Magnetic, and Structural Properties of $Sr_2MnRuO_6$ and $LaSrMnRuO_6$ Double Perovskites. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1796-1806	3.8	27
56	Nature of hole doping in $Nd_2NiO_4$ and $La_2NiO_4$ : Comparison with $La_2CuO_4$ . <i>Physical Review B</i> , <b>1993</b> , 47, 12365-12368	3.3	26
55	High-resolution x-ray diffraction study of $La_{1.88}Sr_{0.12}Nd_yCuO_4$ . <i>Physical Review B</i> , <b>1998</b> , 58, 9549-9555	3.3	24
54	Metal ion and oxygen vacancies in bulk and thin film $La_{1-x}Sr_xCoO_3$ . <i>Physical Review B</i> , <b>1999</b> , 59, 13365-13369	3.3	24

53	Effect of Ga addition to YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>1988</b> , 38, 7084-7086	3.3	24
52	Superconductivity in the high-pressure phases of barium. <i>Journal of Low Temperature Physics</i> , <b>1973</b> , 10, 203-206	1.3	24
51	Properties of reduced then reoxidized YBa <sub>2</sub> (Cu <sub>1-x</sub> Fe <sub>x</sub> ) <sub>3</sub> CuO <sub>7-δ</sub> . <i>Physical Review B</i> , <b>1991</b> , 44, 6991-6998	3.3	23
50	Lattice vibrational studies of superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> by polarized extended x-ray-absorption fine-structure measurements. <i>Physical Review B</i> , <b>1988</b> , 38, 6568-6574	3.3	23
49	Alignment and analyses of MnBi/Bi nanostructures. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 062505	3.4	20
48	Stress, strain and technical magnetic properties in $\lambda$ -exchange-spring Nd <sub>2</sub> Fe <sub>14</sub> B + $\epsilon$ -Fe nanocomposite magnets. <i>Journal Physics D: Applied Physics</i> , <b>2001</b> , 34, 744-751	3	20
47	MnBi nanostructures: Size dependence of magnetostructural transition and matrix templating. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 153112	3.4	19
46	Effects of different reactions on composition homogeneity and superconducting properties of Al-doped MgB <sub>2</sub> . <i>Superconductor Science and Technology</i> , <b>2005</b> , 18, 1411-1420	3.1	19
45	Neutron-diffraction study of magnetically ordered Er <sub>2</sub> Fe <sub>3</sub> Si <sub>5</sub> . <i>Physical Review B</i> , <b>1984</b> , 29, 271-277	3.3	19
44	Crystal structure and magnetic properties of MnBi/Bi nanocomposite. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 10K302	2.5	17
43	Structural phase transitions and superconducting transition temperatures of hexagonal MxWO <sub>3</sub> compounds. <i>Journal of Physics C: Solid State Physics</i> , <b>1983</b> , 16, 5217-5232		17
42	Enhancement of the upper critical field of Nb <sub>3</sub> Sn utilizing disorder introduced by ball milling the elements. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 142506	3.4	16
41	Magnetic ordering and granularity effects in La <sub>1-x</sub> BaxMnO <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 2490-2496	3.3	16
40	Extended x-ray-absorption fine-structure study of La <sub>2-x</sub> SrxCuO <sub>4-y</sub> superconductors. <i>Physical Review B</i> , <b>1987</b> , 36, 8401-8407	3.3	16
39	Superconductivity under pressure of La <sub>2-x</sub> BaxCuO <sub>4</sub> (0.05 $\leq$ x $\leq$ 0.15). <i>Physical Review B</i> , <b>1992</b> , 45, 4897-4900	3.3	15
38	Neutron-diffraction study of polycrystalline H <sub>2</sub> SO <sub>4</sub> and H <sub>2</sub> SeO <sub>4</sub> . <i>Physical Review B</i> , <b>1983</b> , 28, 3501-3505	3.3	15
37	Search for superconductivity at high pressures in Eu, EuMo <sub>6</sub> S <sub>8</sub> , and EuMo <sub>6</sub> Se <sub>8</sub> . <i>Physical Review B</i> , <b>1981</b> , 24, 2863-2866	3.3	15
36	Magnetism and metastability of melt-spun Pd <sub>40</sub> (Fe,Ni) <sub>40</sub> P <sub>20</sub> metallic glass. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08F117	2.5	14

35	Synthesis of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> with clean grain boundaries by a modified aerosol decomposition process. <i>Journal of Materials Research</i> , <b>1992</b> , 7, 3175-3184	2.5	13
34	Structural Studies of La <sub>2-x</sub> Ba <sub>x</sub> CuO <sub>4</sub> Between 11-93 K. <i>Materials Research Society Symposia Proceedings</i> , <b>1989</b> , 156, 141		13
33	Neutron diffraction study of magnetically ordered Tm <sub>2</sub> Fe <sub>3</sub> Si <sub>5</sub> . <i>Physical Review B</i> , <b>1985</b> , 32, 3103-3106	3.3	13
32	Nuclear magnetic resonance study of polycrystalline Sr <sub>1-x</sub> Ca <sub>x</sub> RuO <sub>3</sub> (0 ≤ x ≤ 1.0). <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, 3857-3869	1.8	12
31	Observation of alignment of superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> particles in a magnetic field using neutron diffraction. <i>Physical Review B</i> , <b>1988</b> , 37, 519-521	3.3	12
30	Unusual Lattice-Magnetism Connections in MnBi Nanorods. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 1100-1105	15.6	11
29	Delocalization of holes in La <sub>2-x</sub> (Ba,Sr) <sub>x</sub> CuO <sub>4</sub> . <i>Physical Review B</i> , <b>1990</b> , 42, 6299-6304	3.3	9
28	Dopant structural distortions in high-temperature superconductors: an active or a passive role?. <i>Journal of Synchrotron Radiation</i> , <b>2001</b> , 8, 186-90	2.4	8
27	Tetragonal YBa <sub>2</sub> (Cu <sub>1-x</sub> M <sub>x</sub> ) <sub>3</sub> O <sub>7-<math>\delta</math></sub> (M = Fe, Co, Al); tweed contrast and orthorhombic microtwins. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1992</b> , 65, 1067-1077		6
26	A High Intensity Positron Beam at the Brookhaven Reactor. <i>NATO ASI Series Series B: Physics</i> , <b>1987</b> , 161-174		6
25	Role of bromine in restoring superconductivity in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> . <i>Physical Review B</i> , <b>1999</b> , 60, 10489-10499	3.3	5
24	Effect of oxygen partial pressure during postheat treatment on Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>y</sub> /Ag tapes. <i>Journal of Applied Physics</i> , <b>1996</b> , 80, 331-335	2.5	5
23	Magnetic and transport properties of MnBi/Bi nanocomposites. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08N703	7.03	4
22	Large magnetoresistance in rapidly solidified bismuth. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 073704	2.5	4
21	Direct evidence for the suppression of charge stripes in epitaxial La <sub>1.67</sub> Sr <sub>0.33</sub> NiO <sub>4</sub> films. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	3
20	SOFT X-RAY ABSORPTION SPECTROSCOPY OF THE MgB <sub>2</sub> BORON K EDGE IN AN MgB <sub>2</sub> /Mg COMPOSITE. <i>Modern Physics Letters B</i> , <b>2006</b> , 20, 1207-1216	1.6	3
19	Positron states in pure and Fe doped polycrystalline YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> superconductors. <i>Journal of Physics Condensed Matter</i> , <b>1994</b> , 6, 10487-10497	1.8	3
18	Superconductivity of La <sub>2-x</sub> Ba <sub>x</sub> CuO <sub>4</sub> . <i>Materials Research Society Symposia Proceedings</i> , <b>1987</b> , 99, 427		3

- 17 Flux Pinning and Microstructure in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> **1990**, 27-40 3
- 16 Defect Identification in (La, Sr)CoO<sub>3</sub> Using Positron Annihilation Spectroscopy. *Materials Research Society Symposia Proceedings*, **1998**, 541, 161 2
- 15 A Systematic Study of the Effects of Metal Substitutions for Cu in Yba<sub>2</sub>(Cu<sub>1</sub>-XMX)<sub>3</sub>O<sub>7</sub> (M=Fe, Co, Al, Ga, Cr, Ni, and Zn). *Materials Research Society Symposia Proceedings*, **1989**, 169, 221 2
- 14 Penetration Depth Measurements of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> at 4 MHz. *Materials Research Society Symposia Proceedings*, **1987**, 99, 387 2
- 13 Structural disorder and the origin of high-T<sub>c</sub> suppression in La<sub>1.875</sub>Ba<sub>0.125</sub>CuO<sub>4</sub>. *Journal of Synchrotron Radiation*, **1999**, 6, 755-7 2.4 1
- 12 Orientational domains at room temperature in La<sub>0.33</sub>Ca<sub>0.67</sub>MnO<sub>3</sub> perovskite. *Wuhan University Journal of Natural Sciences*, **1999**, 4, 415-422 0.4 1
- 11 Magnetic ordering in Nd<sub>2-x</sub>Ce<sub>x</sub>CuO<sub>4-y</sub>. *Hyperfine Interactions*, **1991**, 63, 305-309 0.8 1
- 10 Valency and superconductors. *Nature*, **1989**, 340, 349-349 50.4 1
- 9 Orientation Dependent X-Ray Absorption Near Edge Structure in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> and La<sub>1.85</sub>Sr<sub>0.15</sub>SCuO<sub>4</sub>. *Materials Research Society Symposia Proceedings*, **1987**, 99, 757 1
- 8 Analytical electron microscopy study of high T<sub>c</sub> superconductor YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>. *Journal of Electron Microscopy Technique*, **1988**, 8, 307-9 1
- 7 Microstructure and Superconductivity in High T<sub>c</sub> Materials **1987**, 633-645 1
- 6 The Upper Critical Magnetic Field of Superconducting YBa<sub>2</sub>(Cu<sub>1-x</sub>Ni<sub>x</sub>)<sub>3</sub>O<sub>7</sub>. *Materials Research Society Symposia Proceedings*, **1989**, 169, 1037
- 5 The Effects of Metal Doping: Yba<sub>2</sub>(Cu<sub>1</sub>-XMX)<sub>3</sub>O<sub>7</sub> (M=;Fe, Co, Ni, and Zn). *Materials Research Society Symposia Proceedings*, **1989**, 169, 225
- 4 Grain Boundaries, Planar Defects and Superconducting Properties of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>. *Materials Research Society Symposia Proceedings*, **1987**, 99, 511
- 3 Thermal Conductivity of Damaged MgO **1983**, 139-154
- 2 X-ray Absorption Studies of La<sub>2-x</sub>(Ba,Sr)<sub>x</sub>CuO<sub>4</sub> Superconductors **1987**, 753-754
- 1 Superconducting Properties and Structural Characterization of High T<sub>c</sub> Oxides **1987**, 767-769