

Arnold R Moodenbaugh

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

7,250
citations

39
h-index

84
g-index

107
ext. papers

7,515
ext. citations

4.9
avg, IF

5.03
L-index

#	Paper	IF	Citations
106	Unusual Lattice-Magnetism Connections in MnBi Nanorods. <i>Advanced Functional Materials</i> , 2009 , 19, 1100-1105	15.6	11
105	Direct evidence for the suppression of charge stripes in epitaxial La _{1.67} Sr _{0.33} NiO ₄ films. <i>Physical Review B</i> , 2008 , 77,	3.3	3
104	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	3.8	27
103	Size-dependent magnetic properties of single-crystalline multiferroic BiFeO ₃ nanoparticles. <i>Nano Letters</i> , 2007 , 7, 766-72	11.5	1005
102	MnBi nanostructures: Size dependence of magnetostructural transition and matrix templating. <i>Applied Physics Letters</i> , 2007 , 90, 153112	3.4	19
101	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	3.4	16
100	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	1.6	3
99	Magnetism and metastability of melt-spun Pd ₄₀ (Fe,Ni) ₄₀ P ₂₀ metallic glass. <i>Journal of Applied Physics</i> , 2006 , 99, 08F117	2.5	14
98	Magnetism and the defect state in the magnetocaloric antiperovskite Mn ₃ GaC ₁₁ . <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 1677-1686	1.8	43
97	Magnetic and transport properties of MnBiBi nanocomposites. <i>Journal of Applied Physics</i> , 2006 , 99, 08N703	2.5	4
96	Phase separation in superoxygenated La _{2-x} Sr _x CuO _{4+y} . <i>Nature Materials</i> , 2006 , 5, 377-82	27	79
95	Alignment and analyses of MnBiBi nanostructures. <i>Applied Physics Letters</i> , 2005 , 87, 062505	3.4	20
94	Synthesis and characterization of submicron single-crystalline Bi ₂ Fe ₄ O ₉ cubes. <i>Journal of Materials Chemistry</i> , 2005 , 15, 2099		91
93	Crystal structure and magnetic properties of MnBiBi nanocomposite. <i>Journal of Applied Physics</i> , 2005 , 97, 10K302	2.5	17
92	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	3.1	19
91	Inversion of two-band superconductivity at the critical electron doping of (Mg, Al)B ₂ . <i>Physical Review Letters</i> , 2005 , 95, 267002	7.4	32
90	Large magnetoresistance in rapidly solidified bismuth. <i>Journal of Applied Physics</i> , 2005 , 98, 073704	2.5	4

89	Oxidation state and lattice expansion of CeO ₂ nanoparticles as a function of particle size. <i>Physical Review B</i> , 2004 , 69,	3.3	285
88	Large magnetic entropy change in the metallic antiperovskite Mn ₃ GaC. <i>Journal of Applied Physics</i> , 2003 , 93, 10128-10130	2.5	113
87	Mid-infrared conductivity from mid-gap states associated with charge stripes. <i>Physical Review B</i> , 2003 , 67,	3.3	39
86	Local structure in the stripe phase of La _{1.6} Sr _x Nd _{0.4} CuO ₄ . <i>Physical Review B</i> , 2002 , 66,	3.3	48
85	Unraveling the symmetry of the hole states near the Fermi level in the MgB ₂ superconductor. <i>Physical Review Letters</i> , 2002 , 88, 247002	7.4	36
84	Formation of SEI on Cycled Lithium-Ion Battery Cathodes: Soft X-Ray Absorption Study. <i>Electrochemical and Solid-State Letters</i> , 2002 , 5, A22		135
83	Dopant structural distortions in high-temperature superconductors: an active or a passive role?. <i>Journal of Synchrotron Radiation</i> , 2001 , 8, 186-90	2.4	8
82	Nucleation and growth of YBa ₂ Cu ₃ O _x on SrTiO ₃ and CeO ₂ by a BaF ₂ postdeposition reaction process. <i>Journal of Materials Research</i> , 2001 , 16, 2869-2884	2.5	49
81	Crystallographic analysis of orientational domain variants and charge-ordered domains in La _{0.33} Ca _{0.67} MnO ₃ . <i>Physical Review B</i> , 2001 , 63,	3.3	30
80	Doping and temperature dependence of the mass enhancement observed in the cuprate Bi(2)Sr(2)CaCu(2)O(8+δ). <i>Physical Review Letters</i> , 2001 , 87, 177007	7.4	310
79	Stress, strain and technical magnetic properties in exchange-spring Nd ₂ Fe ₁₄ B + Fe nanocomposite magnets. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 744-751	3	20
78	Nuclear magnetic resonance study of polycrystalline Sr _{1-x} Ca _x RuO ₃ (0 ≤ x ≤ 1.0). <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 3857-3869	1.8	12
77	Hole-state density of La _{1-x} Sr _x CoO ₃ . <i>Physical Review B</i> , 2000 , 61, 5666-5671	3.3	48
76	Magnetic ordering and granularity effects in La _{1-x} Ba _x MnO ₃ . <i>Journal of Applied Physics</i> , 2000 , 87, 2490-2496	3.3	16
75	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. <i>Physical Review B</i> , 2000 , 61, 7055-7076	3.3	40
74	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> , 2000 , 61, 11946-11955	3.3	35
73	Low to high spin-state transition induced by charge ordering in antiferromagnetic YBaCo ₂ O ₅ . <i>Physical Review Letters</i> , 2000 , 84, 2969-72	7.4	225
72	Role of bromine in restoring superconductivity in YBa ₂ Cu ₃ O _y . <i>Physical Review B</i> , 1999 , 60, 10489-10499	3.3	5

71	Metal ion and oxygen vacancies in bulk and thin film $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$. <i>Physical Review B</i> , 1999 , 59, 13365-13369	3.3	24
70	Structural disorder and the origin of high- T_c suppression in $\text{La}_{1.875}\text{Ba}_{0.125}\text{CuO}_4$. <i>Journal of Synchrotron Radiation</i> , 1999 , 6, 755-7	2.4	1
69	Oriental domains at room temperature in $\text{La}_{0.33}\text{Ca}_{0.67}\text{MnO}_3$ perovskite. <i>Wuhan University Journal of Natural Sciences</i> , 1999 , 4, 415-422	0.4	1
68	High-resolution x-ray diffraction study of $\text{La}_{1.88}\text{Sr}_{0.12}\text{NdCuO}_4$. <i>Physical Review B</i> , 1998 , 58, 9549-9555	3.3	24
67	Defect Identification in $(\text{La}, \text{Sr})\text{CoO}_3$ Using Positron Annihilation Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 541, 161		2
66	Coexistence of, and Competition between, Superconductivity and Charge-Stripe Order in $\text{La}_{1.6}\text{Nd}_{0.4}\text{SrCuO}_4$. <i>Physical Review Letters</i> , 1997 , 78, 338-341	7.4	556
65	Field-induced staggered magnetic order in La_2NiO_4 . <i>Physical Review B</i> , 1997 , 55, R6113-R6116	3.3	49
64	Trapping properties of cadmium vacancies in $\text{Cd}_{1-x}\text{Zn}_x\text{Te}$. <i>Physical Review B</i> , 1997 , 55, 6945-6949	3.3	65
63	Effect of oxygen partial pressure during postheat treatment on $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_y/\text{Ag}$ tapes. <i>Journal of Applied Physics</i> , 1996 , 80, 331-335	2.5	5
62	Magnetoresistance in $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ for 0.05. <i>Physical Review B</i> , 1996 , 53, 8207-8210	3.3	110
61	Positron states in pure and Fe doped polycrystalline $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ superconductors. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 10487-10497	1.8	3
60	Tetragonal-orthorhombic structural modulation at low temperature in $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$. <i>Physical Review Letters</i> , 1994 , 73, 3026-3029	7.4	51
59	Grain-boundary constraint and oxygen deficiency in $\text{YBa}_2\text{Cu}_3\text{O}_7$ 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> , 1994 , 70, 969-984		35
58	Nature of hole doping in Nd_2NiO_4 and La_2NiO_4 : Comparison with La_2CuO_4 . <i>Physical Review B</i> , 1993 , 47, 12365-12368	3.3	26
57	Superconductivity under pressure of $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$ (0.05). <i>Physical Review B</i> , 1992 , 45, 4897-4900	3.3	15
56	Tetragonal $\text{YBa}_2(\text{Cu}_{1-x}\text{M}_x)_3\text{O}_{7-\delta}$ ($\text{M} = \text{Fe}, \text{Co}, \text{Al}$); tweed contrast and orthorhombic microtwins. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1992 , 65, 1067-1077		6
55	Synthesis of $\text{YBa}_2\text{Cu}_3\text{O}_7$ with clean grain boundaries by a modified aerosol decomposition process. <i>Journal of Materials Research</i> , 1992 , 7, 3175-3184	2.5	13
54	Magnetic ordering in $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_{4-y}$. <i>Hyperfine Interactions</i> , 1991 , 63, 305-309	0.8	1

53	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> , 1991 , 44, 5176-5189	3-3	39
52	Properties of reduced then reoxidized $\text{YBa}_2(\text{Cu}_{1-x}\text{Fe}_x)\text{CuO}_{7-\delta}$. <i>Physical Review B</i> , 1991 , 44, 6991-6998		23
51	X-ray absorption near-edge studies of substitution for Cu in $\text{YBa}_2(\text{Cu}_{1-x}\text{M}_x)\text{CuO}_{7-\delta}$ (M=Fe, Co, Ni, and Zn). <i>Physical Review B</i> , 1990 , 42, 2231-2241	3-3	117
50	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	3-3	9
49	Displacement wave of the tweed structure in Y-Ba-Cu-O oxides. <i>Philosophical Magazine Letters</i> , 1990 , 62, 51-59	1	56
48	Superconductivity under high pressure of $\text{YBa}_2(\text{Cu}_{1-x}\text{M}_x)\text{CuO}_{7-\delta}$ (M=Fe, Co, Al, Cr, Ni, and Zn). <i>Physical Review B</i> , 1990 , 41, 8757-8761	3-3	43
47	Flux Pinning and Microstructure in $\text{YBa}_2\text{Cu}_3\text{O}_7$ 1990 , 27-40		3
46	Variation of electronic and atomic structures in $\text{YBa}_2(\text{Cu}_{1-x}\text{Fe}_x)\text{CuO}_{7-\delta}$. <i>Physical Review B</i> , 1989 , 39, 6681-6689	3-3	65
45	Microstructure, lattice parameters, and superconductivity of $\text{YBa}_2(\text{Cu}_{1-x}\text{Fe}_x)\text{CuO}_{7-\delta}$ for 0. <i>Physical Review B</i> , 1989 , 39, 6667-6680	3-3	227
44	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	2-5	77
43	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	7-4	594
42	Nature of the charge carriers in electron-doped copper oxide superconductors. <i>Nature</i> , 1989 , 337, 720-721	3-4	222
41	Valency and superconductors. <i>Nature</i> , 1989 , 340, 349-349	50-4	1
40	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	3-4	59
39	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	3-3	153
38	Structural Studies of $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$ Between 11-93 K. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 156, 141		13
37	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		
36	A Systematic Study of the Effects of Metal Substitutions for Cu in $\text{YBa}_2(\text{Cu}_{1-x}\text{M}_x)\text{CuO}_{7-\delta}$ (M=Fe, Co, Al, Ga, Cr, Ni, and Zn). <i>Materials Research Society Symposia Proceedings</i> , 1989 , 169, 221		2

35	The Effects of Metal Doping: $\text{Yba}_2(\text{Cu}_{1-\text{XM}}\text{X})_3\text{O}_7$ (M=;Fe, Co, Ni, and Zn). <i>Materials Research Society Symposia Proceedings</i> , 1989 , 169, 225		
34	Analytical electron microscopy study of high T_c superconductor $\text{YBa}_2\text{Cu}_3\text{O}_7$. <i>Journal of Electron Microscopy Technique</i> , 1988 , 8, 307-9		1
33	Inverse photoemission studies of the high- T_c superconductors. <i>Physical Review B</i> , 1988 , 37, 3738-3740	3-3	29
32	Systematic variation of magnetic-field penetration depth in high- T_c superconductors studied by muon-spin relaxation. <i>Physical Review B</i> , 1988 , 38, 909-912	3-3	178
31	Mixed valency, hole concentration, and T_c in YBa_2Cu . <i>Physical Review B</i> , 1988 , 38, 8893-8899	3-3	153
30	Lattice vibrational studies of superconducting $\text{YBa}_2\text{Cu}_3\text{O}_7$ by polarized extended x-ray-absorption fine-structure measurements. <i>Physical Review B</i> , 1988 , 38, 6568-6574	3-3	23
29	Effect of Ga addition to $\text{YBa}_2\text{Cu}_3\text{O}_7$. <i>Physical Review B</i> , 1988 , 38, 7084-7086	3-3	24
28	Superconducting properties of $\text{La}_{2-x}\text{Ba}_x$. <i>Physical Review B</i> , 1988 , 38, 4596-4600	3-3	466
27	Observation of alignment of superconducting $\text{YBa}_2\text{Cu}_3\text{O}_7$ particles in a magnetic field using neutron diffraction. <i>Physical Review B</i> , 1988 , 37, 519-521	3-3	12
26	Effect of microstructure on positron-annihilation parameters in $\text{YBa}_2\text{Cu}_3\text{O}_7$. <i>Physical Review B</i> , 1988 , 38, 5126-5129	3-3	36
25	Orientation-dependent x-ray-absorption near-edge studies of high- T_c superconductors. <i>Physical Review B</i> , 1988 , 38, 761-764	3-3	56
24	Temperature dependence of positron-annihilation parameters in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ above and below the superconducting transition. <i>Physical Review B</i> , 1987 , 36, 8854-8857	3-3	65
23	Superconducting HxYBa . <i>Physical Review B</i> , 1987 , 36, 8798-8801	3-3	64
22	X-ray-absorption near-edge-structure study of $\text{La}_{2-x}(\text{Ba,Sr})_x\text{CuO}_{4-y}$ superconductors. <i>Physical Review B</i> , 1987 , 36, 5263-5274	3-3	156
21	Superconductivity in HxYBa . <i>Physical Review B</i> , 1987 , 36, 5694-5697	3-3	90
20	Magnetic field penetration depth of $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$ measured by muon spin relaxation. <i>Physical Review B</i> , 1987 , 35, 7133-7136	3-3	84
19	Extended x-ray-absorption fine-structure study of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_{4-y}$ superconductors. <i>Physical Review B</i> , 1987 , 36, 8401-8407	3-3	16
18	Superconductivity near 90 K in the Lu-Ba-Cu-O system. <i>Physical Review Letters</i> , 1987 , 58, 1885-1887	7-4	59

17	Orientation Dependent X-Ray Absorption Near Edge Structure in YBa ₂ Cu ₃ O ₇ and La _{1.85} Sr _{0.15} SCuO ₄ . <i>Materials Research Society Symposia Proceedings</i> , 1987 , 99, 757			1
16	Penetration Depth Measurements of YBa ₂ Cu ₃ O ₇ -at 4 MHz. <i>Materials Research Society Symposia Proceedings</i> , 1987 , 99, 387			2
15	Superconductivity of La(2-x)Ba _x CuO ₄ . <i>Materials Research Society Symposia Proceedings</i> , 1987 , 99, 427			3
14	Grain Boundaries, Planar Defects and Superconducting Properties of YBa ₂ Cu ₃ O ₇ . <i>Materials Research Society Symposia Proceedings</i> , 1987 , 99, 511			
13	Microstructure and Superconductivity in High T _c Materials 1987 , 633-645			1
12	X-ray Absorption Studies of La _{2-x} (Ba,Sr) _x CuO ₄ Superconductors 1987 , 753-754			
11	Superconducting Properties and Structural Characterization of High T _c Oxides 1987 , 767-769			
10	A High Intensity Positron Beam at the Brookhaven Reactor. <i>NATO ASI Series Series B: Physics</i> , 1987 , 161-174			6
9	Neutron diffraction study of magnetically ordered Tm ₂ Fe ₃ Si ₅ . <i>Physical Review B</i> , 1985 , 32, 3103-3106	3.3		13
8	Neutron-diffraction study of magnetically ordered Er ₂ Fe ₃ Si ₅ . <i>Physical Review B</i> , 1984 , 29, 271-277	3.3		19
7	Structural phase transitions and superconducting transition temperatures of hexagonal M _x WO ₃ compounds. <i>Journal of Physics C: Solid State Physics</i> , 1983 , 16, 5217-5232			17
6	Neutron-diffraction study of polycrystalline H ₂ SO ₄ and H ₂ SeO ₄ . <i>Physical Review B</i> , 1983 , 28, 3501-3505	3.3		15
5	Thermal Conductivity of Damaged MgO 1983 , 139-154			
4	Neutron-diffraction study of magnetically ordered Tb ₂ Fe ₃ Si ₅ . <i>Physical Review B</i> , 1982 , 25, 4702-4710	3.3		37
3	Search for superconductivity at high pressures in Eu, EuMo ₆ S ₈ , and EuMo ₆ Se ₈ . <i>Physical Review B</i> , 1981 , 24, 2863-2866	3.3		15
2	Superconductivity of transition metal sulfides, selenides, and phosphides with the NaCl structure. <i>Journal of Low Temperature Physics</i> , 1978 , 33, 175-203	1.3		34
1	Superconductivity in the high-pressure phases of barium. <i>Journal of Low Temperature Physics</i> , 1973 , 10, 203-206	1.3		24