

Michael J O'shea

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7885484/publications.pdf>

Version: 2024-02-01

58
papers

827
citations

567281

15
h-index

580821

25
g-index

60
all docs

60
docs citations

60
times ranked

505
citing authors

#	ARTICLE	IF	CITATIONS
1	Mössbauer studies of manganese ferrite fine particles processed by ball-milling. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 220, 139-146.	2.3	94
2	Inverted hysteresis in magnetic systems with interface exchange. <i>Journal of Applied Physics</i> , 1994, 75, 6673-6675.	2.5	68
3	Inverted hysteresis loops in CoO-based multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1993, 127, 181-189.	2.3	39
4	Influence of nanostructure (layers and particles) on the magnetism of rare-earth materials. <i>Journal of Applied Physics</i> , 1999, 85, 4322-4324.	2.5	36
5	Structure and magnetic properties of NdFeB thin films with Cr, Mo, Nb, Ta, Ti, and V buffer layers. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 212, 59-68.	2.3	33
6	Coercivity and energy product of thin Sm-Co layers. <i>Journal of Applied Physics</i> , 2002, 91, 8183.	2.5	33
7	Finite size effects in nanoscale Tb particles. <i>Journal of Applied Physics</i> , 1996, 79, 5299.	2.5	31
8	Coercivity and its temperature dependence in NdFeB thin films with Cr, Mo, Ti, or Ta buffer layers. <i>Journal of Applied Physics</i> , 2000, 87, 6131-6133.	2.5	25
9	Superconductivity and electronic structure of Bi-based compounds. <i>Physical Review B</i> , 1989, 39, 6640-6651.	3.2	23
10	Magnetic transitions and phases in random anisotropy magnets. <i>Journal of Applied Physics</i> , 1988, 63, 3743-3745.	2.5	22
11	Anisotropy and double (reentrant) transitions in rare-earth-transition metal alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1991, 99, 103-118.	2.3	22
12	Random anisotropy, exchange fluctuations and phase transitions in rare earth glasses. <i>Journal of the Less Common Metals</i> , 1983, 94, 59-68.	0.8	21
13	Magnetic transitions and scaling behavior in Gd-rich glasses. <i>Physical Review B</i> , 1985, 32, 7502-7511.	3.2	21
14	The magnetic state and its macroscopic anisotropy in amorphous rare-earth alloys (invited). <i>Journal of Applied Physics</i> , 1990, 67, 5769-5774.	2.5	21
15	Evidence for quantum mesoscopic tunneling in rare-earth layers. <i>Journal of Applied Physics</i> , 1994, 76, 6174-6176.	2.5	21
16	Magnetic properties of hydrides of rare earth-transition metal glasses. <i>Journal of Applied Physics</i> , 1982, 53, 7798-7800.	2.5	19
17	Magnetic transitions and scaling in anisotropic rare-earth glasses. <i>Journal of Applied Physics</i> , 1987, 61, 3616-3618.	2.5	19
18	Double-transition behavior induced by anisotropy. <i>Physical Review B</i> , 1986, 34, 4944-4947.	3.2	18

#	ARTICLE	IF	CITATIONS
19	Hard magnetic properties of rapidly annealed NdFeB/Co films and intergrain interactions. Journal of Magnetism and Magnetic Materials, 2004, 279, 27-35.	2.3	18
20	Phase transitions in random anisotropy magnets. Solid State Communications, 1983, 46, 313-316.	1.9	15
21	Search for Charge-Density Waves in Potassium. Physical Review Letters, 1981, 46, 1303-1306.	7.8	13
22	Temperature dependence of coercivity and magnetic reversal in SmCo _x thin films. Journal of Applied Physics, 2005, 97, 10F302.	2.5	13
23	Double-transitions in Gd-Mn and Gd-Ni glasses. Journal of Magnetism and Magnetic Materials, 1988, 75, 175-184.	2.3	12
24	Hard magnetic properties of rapidly annealed NdFeB thin films on Nb and V buffer layers. Journal of Magnetism and Magnetic Materials, 2001, 224, 233-240.	2.3	11
25	Exchange coupling and magnetic properties of Nd ₂ Fe ₁₄ B/Co nanocomposite thin films. Journal of Magnetism and Magnetic Materials, 2003, 256, 348-354.	2.3	11
26	Effect of anisotropy strength on phase transitions in random anisotropy magnets. Journal of Applied Physics, 1982, 53, 7722-7724.	2.5	10
27	Structural and magnetic characterization of aerogel-produced Ge _{0.5} Fe _{2.5} O _y nanoparticles. Journal of Magnetism and Magnetic Materials, 2000, 212, 112-120.	2.3	10
28	HARD MAGNETIC PROPERTIES OF MULTILAYERED SmCo/Co PERMANENT MAGNETS. International Journal of Modern Physics B, 2001, 15, 3243-3246.	2.0	10
29	Effect of alloying elements on the double-transition behavior of a Gd-rich spin-glass system. Journal of Applied Physics, 1987, 61, 3613-3615.	2.5	9
30	Magnetic properties, phase transitions and microstructural effects in mixed Gd-La-based glasses. Journal of Magnetism and Magnetic Materials, 1987, 65, 93-98.	2.3	9
31	Critical behavior in alloys with random magnetic anisotropy. Journal of Applied Physics, 1990, 67, 5781-5783.	2.5	9
32	The influence of anneal time on exchange-coupling in Nd ₂ /Fe ₁₄ B/Fe films. IEEE Transactions on Magnetics, 2001, 37, 2579-2581.	2.1	9
33	Rigid spin rotation in amorphous rare-earth alloys. Physical Review B, 1988, 37, 9824-9826.	3.2	8
34	Structure and magnetic properties of Co(Zr, B)/Cu multilayers. Journal of Applied Physics, 1991, 69, 5304-5306.	2.5	8
35	Transition behavior in Gd-Co based alloys with strong anisotropy. Journal of Applied Physics, 1988, 63, 3740-3742.	2.5	7
36	Movable Uniaxial Macroscopic Anisotropy in Amorphous Tb-Fe. Europhysics Letters, 1989, 9, 283-288.	2.0	7

#	ARTICLE	IF	CITATIONS
37	Harmonic and anharmonic behaviour of a simple oscillator. European Journal of Physics, 2009, 30, 549-558.	0.6	7
38	Spin-glass and double-transition behavior in Gd-La glasses. Journal of Applied Physics, 1985, 57, 3470-3472.	2.5	6
39	Magnetic properties and structure of DyNi/Mo multilayers. Journal of Applied Physics, 1991, 69, 5292-5294.	2.5	5
40	Dependence of interface anisotropy on rare earth in R/Mo (R=Dy,Er) multilayers. Journal of Applied Physics, 1991, 70, 6212-6214.	2.5	5
41	Phase transitions and critical phenomena in alloys with random anisotropy. Physical Review B, 1993, 48, 13614-13624.	3.2	5
42	Magnetic properties of thin film and granular Dy ₅₀ Fe ₅₀ as a function of size. Journal of Applied Physics, 2000, 87, 6137-6139.	2.5	5
43	Hard Magnetic Properties of NdFeB/Co Films Annealed in the Presence of a Magnetic Field. IEEE Transactions on Magnetics, 2004, 40, 2889-2891.	2.1	5
44	Influence of nanostructure on magnetic properties of strong anisotropy systems. Journal of Magnetism and Magnetic Materials, 1996, 156, 141-142.	2.3	4
45	Magnetic state of thin DyFe amorphous layers. Journal of Magnetism and Magnetic Materials, 1996, 162, 183-188.	2.3	4
46	Temperature-independent magnetic relaxation in rare-earth layers. Physical Review B, 1996, 53, 3381-3387.	3.2	4
47	Phase evolution, structure, and magnetic properties of Nd _{8.4} Fe ₈₆ Mo _{1.1} B _{4.5} nanocomposite magnets. Journal of Applied Physics, 2002, 91, 7881.	2.5	4
48	Surface studies of potentially protective films on gadolinium. Chemistry of Materials, 1990, 2, 7-12.	6.7	3
49	Inhomogeneities in potassium single crystals revealed using the de Haas-van Alphen effect. Journal of Physics F: Metal Physics, 1983, 13, 357-363.	1.6	2
50	Attempts to prepare Bi-based superconductors on a carbon fiber substrate. Journal of Applied Physics, 1990, 67, 5023-5025.	2.5	2
51	Fluid flow, Newton's second law and river rescue. Physics Education, 2006, 41, 137-143.	0.5	2
52	Elasticity and mechanical advantage in cables and ropes. European Journal of Physics, 2007, 28, 715-727.	0.6	2
53	The most dangerous point in a climb may be just after you start. Physics Education, 2008, 43, 494-499.	0.5	2
54	Mössbauer study of aerogel-synthesized Ge-Fe-oxide with TN near 260 K. Journal of Magnetism and Magnetic Materials, 1998, 186, 377-380.	2.3	1

#	ARTICLE	IF	CITATIONS
55	Irradiation effects on the YBa ₂ Cu ₃ O _{7-δ} superconducting compound. Applied Physics A: Solids and Surfaces, 1994, 59, 597-599.	1.4	0
56	MAGNETISM AND SUPERCONDUCTIVITY IN NANOSTRUCTURED Nb-Dy SYSTEMS. International Journal of Modern Physics B, 2001, 15, 3308-3311.	2.0	0
57	Climbing, slipping and Newton's second law. Physics Education, 2009, 44, 644-651.	0.5	0
58	Crossing a river in a canoe—how complicated can it get?. European Journal of Physics, 2010, 31, 857-862.	0.6	0