

Gary J Mankey

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8695400/publications.pdf>

Version: 2024-02-01

127
papers

3,468
citations

270111

25
h-index

162838

57
g-index

130
all docs

130
docs citations

130
times ranked

3302
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic transition behavior in epitaxial Fe ₄₇ Rh ₄₇ Pd ₆ films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 023406.	0.9	0
2	Effect of thickness and frequency of applied field on the switching dynamics of multiferroic bismuth ferrite thin films. Physical Review Materials, 2022, 6, .	0.9	5
3	Suppressing antiferromagnetic coupling in rare-earth free ferromagnetic MnBi-Cu permanent magnet. Journal of Applied Physics, 2021, 129, .	1.1	4
4	Upper Limit of Carbon Concentration in Ferromagnetic L1 ₀ -Ordered FePt-C for Tb/in ² Data Storage Density Heat-Assisted Magnetic Recording Media. IEEE Transactions on Magnetics, 2021, 57, 1-6.	1.2	0
5	Micromagnetic Simulation of Coercivity of Alnico Magnets. IEEE Magnetics Letters, 2021, 12, 1-5.	0.6	7
6	Strong interfacial perpendicular anisotropy and interfacial damping in Ni _{0.8} Fe _{0.2} films adjacent to Ru and SiO ₂ . Journal of Applied Physics, 2019, 125, 023901.	1.1	4
7	Magnetic and structural properties of L1 ₀ -Mn ₅₀ Ga _{50-x} Al _x epitaxially grown thin films. AIP Advances, 2019, 9, 035032.	0.6	1
8	Thickness dependence of dynamic magnetic properties of soft (FeCo)-Si alloy thin films. Physical Review B, 2019, 99, .	1.1	8
9	The thickness and growth temperature dependences of soft magnetic properties and an effective damping parameter of (FeCo)-Si alloy thin films. AIP Advances, 2019, 9, 035139.	0.6	4
10	Direct Measurement of the Intrinsic Sharpness of Magnetic Interfaces Formed by Chemical Disorder Using a He ⁺ Beam. ACS Applied Materials & Interfaces, 2018, 10, 16216-16224.	4.0	11
11	The growth temperature and measurement temperature dependences of soft magnetic properties and effective damping parameter of (FeCo)-Al alloy thin films. AIP Advances, 2018, 8, .	0.6	6
12	Polarized Neutron Reflectometry of Epitaxial Fe _[0.25 + x] Pt _[0.75 - x] Layers. , 2018, , .		0
13	Magnetic and Structural Properties of L1 ₀ Mn ₅₀ Ga _{50-x} Al _x Epitaxially Grown Thin Films of Island Structure. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	2
14	Magnetic and structural properties of L1 ₀ Mn-Ga epitaxially grown islands. Journal of Magnetism and Magnetic Materials, 2018, 465, 500-507.	1.0	6
15	Tailoring exchange bias in ferro/antiferromagnetic FePt ₃ bilayers created by He ⁺ beams. Journal of Physics Condensed Matter, 2018, 30, 315804.	0.7	6
16	The microstructural evolution of chemical disorder and ferromagnetism in He ⁺ irradiated FePt ₃ films. Applied Surface Science, 2018, 459, 672-677.	3.1	5
17	Ambient-pressure CVD of graphene on low-index Ni surfaces using methane: A combined experimental and first-principles study. Physical Review Materials, 2018, 2, .	0.9	12
18	Tuning the magnetic properties of Fe _{50-x} Mn _x Pt ₅₀ thin films. Journal of Magnetism and Magnetic Materials, 2017, 438, 111-115.	1.0	5

#	ARTICLE	IF	CITATIONS
19	Soft magnetic properties and damping parameter of (FeCo)-Al alloy thin films. AIP Advances, 2017, 7, .	0.6	15
20	Note: A wide temperature range MOKE system with annealing capability. Review of Scientific Instruments, 2017, 88, 076110.	0.6	0
21	Magnetic properties and structure of low temperature phase MnBi with island structure. AIP Advances, 2017, 7, 056226.	0.6	5
22	The Thickness Dependence of Soft Magnetic Properties of (FeCo)-Al Alloy Thin Films. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	8
23	Magnetic properties of low temperature phase MnBi of island structure. AIP Advances, 2016, 6, .	0.6	9
24	Magnetic properties of MnRh thin films grown on MgO single-crystal substrates. , 2015, , .		0
25	Magnetic anisotropy of tau-MnAl thin films. , 2015, , .		0
26	Magnetic Anisotropy of Au/MnAl Thin Films. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	7
27	Exploring the magnetic phase diagram of dysprosium with neutron diffraction. Physical Review B, 2015, 91, .	1.1	24
28	Direct Evidence of Anomalous Interfacial Magnetization in Metamagnetic Pd doped FeRh Thin Films. Scientific Reports, 2015, 5, 9142.	1.6	18
29	Magnetic order and phase transitions in $\text{Fe}_{50}\text{Pt}_{50}\text{Rh}_x$. Journal of Applied Crystallography, 2015, 48, 1142-1158.	1.9	0
30	Magnetic and structural properties of MnBi multilayered thin films. Journal of Applied Physics, 2014, 115, .	1.1	34
31	Tailoring exchange bias through chemical order in epitaxial FePt ₃ films. Journal of Applied Physics, 2013, 114, 013901.	1.1	13
32	Reducing the writing field of L10-FePt by graded order parameter. Journal of Applied Physics, 2013, 113, 073912.	1.1	8
33	Anomalous Hall effect behavior in (100) and (110) CrO ₂ thin films. Journal of Applied Physics, 2011, 109, 103907.	1.1	4
34	k-space restored in $\hat{\Gamma}$ -Fe(001)/GaAs(001). Surface Science, 2010, 604, 1333-1334.	0.8	0
35	Artificially modulated chemical order in thin films: A different approach to create ferro/antiferromagnetic interfaces. Physical Review B, 2010, 82, .	1.1	17
36	Robust room-temperature magnetism of (110) CrO_2 films. Physical Review B, 2009, 80, .	1.1	12

#	ARTICLE	IF	CITATIONS
37	Structural and magnetic properties of epitaxial Fe ₂₅ Pt ₇₅ . Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 770-775.	0.9	12
38	Controlling magnetic anisotropy in epitaxial FePt(001) films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 1067-1070.	0.9	7
39	Trimmed-diamond shaped toggle magnetoresistive random access memory cells. Journal of Applied Physics, 2009, 105, 073916.	1.1	0
40	Magnetic Anisotropy of FeCo Films Induced by Obliquely Sputtered Ru Underlayers. IEEE Transactions on Magnetics, 2009, 45, 4008-4010.	1.2	10
41	Strong uniaxial magnetic anisotropy in CoFe films on obliquely sputtered Ru underlayer. Journal of Applied Physics, 2009, 106, .	1.1	28
42	Antiferromagnetism in a Fe_{50} film investigated using neutron diffraction. Physical Review B, 2008, 78, .	1.1	14
43	Chemical-order-induced magnetic exchange bias in epitaxial FePt ₃ films. Physical Review B, 2008, 77, .	1.1	14
44	Orientational distributions and nematic order of rodlike magnetic nanoparticles in dispersions. Physical Review E, 2008, 77, 031403.	0.8	7
45	High magnetization FeCo ₂ /Pd multilayers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2008, 26, 731-734.	0.9	2
46	Final state effects in photoemission studies of Fermi surfaces. Journal of Physics Condensed Matter, 2007, 19, 355001.	0.7	6
47	A spin- and angle-resolved photoelectron spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 582, 165-167.	0.7	6
48	Effect of Variable Biquadratic Exchange Coupling on the Magnetic Hysteresis of Uniaxial Antiferromagnetic Co/Ru/Co Films. IEEE Transactions on Magnetics, 2007, 43, 4056-4059.	1.2	4
49	Sintering behavior of spin-coated FePt and FePtAu nanoparticles. Journal of Applied Physics, 2006, 99, 08N704.	1.1	6
50	Magnetic transitions in lattice-matched, ordered FePt ₃ based antiferromagnetic/ferromagnetic films. Journal of Applied Physics, 2006, 99, 08C109.	1.1	9
51	Growth and magnetic properties of epitaxial Au/Fe/Au and Ag/Fe/Au films on $\hat{\epsilon}$ -Al ₂ O ₃ . Journal of Magnetism and Magnetic Materials, 2005, 286, 432-436.	1.0	1
52	Interlayer exchange coupling in Co/Ru/Co trilayers. Journal of Magnetism and Magnetic Materials, 2005, 286, 468-472.	1.0	8
53	Growth and characterization of epitaxial Fe _x Pt _{100-x} films on MgO(111). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 785-789.	0.9	7
54	Magnetocrystalline anisotropy in glancing angle deposited Permalloy nanowire arrays. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 1046-1050.	0.9	15

#	ARTICLE	IF	CITATIONS
55	Critical height and growth mode in epitaxial copper nanowire arrays fabricated using glancing angle deposition. Applied Physics Letters, 2005, 86, 123114.	1.5	13
56	Magnetic properties of uniaxial synthetic antiferromagnets for spin-valve applications. Physical Review B, 2005, 71, .	1.1	14
57	Spin wave excitations in the antiferromagnetic state of Pr _{0.5} Sr _{0.5} MnO ₃ . Journal of Applied Physics, 2004, 95, 7351-7353.	1.1	0
58	Antiferromagnetic phase transitions in an ordered Pt ₃ Fe(111) film studied by neutron diffraction. Physical Review B, 2004, 70, .	1.1	8
59	Magnetic properties of uniaxial synthetic antiferromagnetic films. Journal of Applied Physics, 2004, 95, 7157-7159.	1.1	3
60	Epitaxial growth of copper nanowire arrays grown on H-terminated Si(110) using glancing-angle deposition. Journal of Materials Research, 2004, 19, 3620-3625.	1.2	12
61	Texture orientation of glancing angle deposited copper nanowire arrays. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2004, 22, 1379-1382.	0.9	42
62	Lateral standing spin waves in permalloy antidot arrays. Journal of Applied Physics, 2004, 95, 6648-6650.	1.1	31
63	Electrical Rectification in a Langmuir-Blodgett Monolayer of Dimethylanilinoazafullerene Sandwiched between Gold Electrodes. Journal of Physical Chemistry B, 2003, 107, 1021-1027.	1.2	102
64	Dipolar induced, spatially localized resonance in magnetic antidot arrays. Applied Physics Letters, 2003, 83, 3948-3950.	1.5	70
65	Evidence for a magnetic moment on Ir in IrMnAl from x-ray magnetic circular dichroism. Physical Review B, 2003, 68, .	1.1	9
66	Magnetism of Ir in Fe ₂ IrSi from Ir L _{2,3} edge x-ray magnetic circular dichroism spectroscopy. Journal of Applied Physics, 2003, 93, 7981-7983.	1.1	3
67	Shear- and magnetic-field-induced ordering in magnetic nanoparticle dispersion from small-angle neutron scattering. Physical Review E, 2003, 67, 051406.	0.8	9
68	A direct two-dimensional comparison of magnetic circular dichroism and magnetic linear dichroism in ultraviolet photoemission spectroscopy. Journal of Applied Physics, 2002, 91, 7364.	1.1	1
69	Calibration of magnetic force microscopy using micron size straight current wires. Journal of Applied Physics, 2002, 91, 8849.	1.1	9
70	Lattice symmetry and magnetization reversal in micron-size antidot arrays in Permalloy film. Journal of Applied Physics, 2002, 91, 7992.	1.1	100
71	Magnetization reversal in micron-size negative dot arrays in permalloy film. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 585-587.	1.0	3
72	High moment epitaxial Fe-N thin films. IEEE Transactions on Magnetics, 2001, 37, 1770-1772.	1.2	9

#	ARTICLE	IF	CITATIONS
73	Spin injection into carbon nanotubes and a possible application in spin-resolved scanning tunnelling microscopy. <i>Nanotechnology</i> , 2001, 12, 281-284.	1.3	22
74	Reconstruction of in-plane magnetization distributions from magnetic force microscope images. <i>Journal of Applied Physics</i> , 2001, 89, 7230-7232.	1.1	2
75	Antiferromagnetic structure of FePt3 films studied by neutron scattering. <i>Physical Review B</i> , 2001, 63, .	1.1	51
76	Study of exchange anisotropy for Ni ₈₀ Fe ₂₀ /Fe ₆₀ Mn ₄₀ (111) epitaxial films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001, 19, 1213-1218.	0.9	3
77	Biquadratic coupling effect on magnetoresistance response curves of spin valves with a synthetic antiferromagnet. <i>Journal of Applied Physics</i> , 2001, 89, 6814-6816.	1.1	8
78	Effect of interface roughness on the exchange bias for NiFe/FeMn. <i>Journal of Applied Physics</i> , 2000, 87, 6644-6646.	1.1	38
79	The magnetic anisotropy and domain structure of permalloy antidot arrays. <i>Journal of Applied Physics</i> , 2000, 87, 6322-6324.	1.1	70
80	Growth of ultrathin Co/Cu/Si(110) films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000, 18, 1278-1281.	0.9	2
81	Epitaxial growth and magnetic properties of Ni ₈₀ /Fe ₂₀ /Fe ₆₀ /Mn ₄₀ bilayers on H-Si[110] using a Cu buffer layer. <i>IEEE Transactions on Magnetics</i> , 2000, 36, 2896-2898.	1.2	0
82	Magnetic properties of Co films on Cu/Si(110) and Cu(111). <i>Physical Review B</i> , 2000, 61, 4082-4087.	1.1	6
83	Enhanced spin polarization of conduction electrons in Ni explained by comparison with Cu. <i>Physical Review B</i> , 2000, 61, 15661-15666.	1.1	22
84	The magnetic properties of cobalt films produced by glancing angle deposition. <i>IEEE Transactions on Magnetics</i> , 2000, 36, 2939-2941.	1.2	14
85	Fourier analysis of exchange biased Ni ₈₀ Fe ₂₀ /Fe ₅₀ Mn ₅₀ /Ni ₈₀ Fe ₂₀ trilayers. <i>Physical Review B</i> , 1999, 60, 10252-10258.	1.1	5
86	The growth of nanoscale structured iron films by glancing angle deposition. <i>Journal of Applied Physics</i> , 1999, 85, 5486-5488.	1.1	95
87	Noncollinear magnetism in substitutionally disordered face-centered-cubic FeMn. <i>Journal of Applied Physics</i> , 1999, 85, 4842-4844.	1.1	48
88	Video-game controller joystick. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999, 17, 3121-3122.	0.9	0
89	Optical interference in magneto-optic Kerr-effect measurements of magnetic multilayers. <i>Journal of Applied Physics</i> , 1999, 85, 1658-1662.	1.1	8
90	Electronic states in magnetic nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 200, 456-469.	1.0	33

#	ARTICLE	IF	CITATIONS
91	Effect of ultra-thin Cu underlayer on the magnetic properties of Ni ₈₀ Fe ₅₀ / Fe ₅₀ Mn ₅₀ films. Materials Research Society Symposia Proceedings, 1999, 562, 69.	0.1	0
92	Magnetic nanostructures. Advances in Physics, 1998, 47, 511-597.	35.9	675
93	Spin-dependent band structure, Fermi surface, and carrier lifetime of permalloy. Applied Physics Letters, 1998, 73, 3459-3461.	1.5	99
94	Growth and magnetic properties of Co _x Ni _{1-x} and Fe _x Ni _{1-x} ultrathin films on Cu(100). Physical Review B, 1997, 56, 2668-2675.	1.1	46
95	Observation of a Bulklike Fermi Surface for a Monolayer of Ni on Cu(001). Physical Review Letters, 1997, 78, 1146-1149.	2.9	26
96	QUANTUM WELL STATES IN METALLIC THIN LAYERS. Surface Review and Letters, 1997, 04, 361-370.	0.5	11
97	Growth and magnetic properties of Fe _x Ni _{1-x} ultrathin films on Cu(100). Journal of Applied Physics, 1996, 79, 5635.	1.1	13
98	Angle Resolved Photoemission from Ultrathin Films of Cu/Ni(001). Materials Research Society Symposia Proceedings, 1996, 427, 59.	0.1	0
99	Photoelectron Angular Distributions Of Ultrathin Ni/Cu(001) Films. Materials Research Society Symposia Proceedings, 1996, 437, 39.	0.1	0
100	Fermi Surface Mapping Using A Third Generation Light Source. Materials Research Society Symposia Proceedings, 1996, 437, 47.	0.1	1
101	Correlation Of Magnetic Dichroism in X-Ray Absorption and Photoelectron Emission using Ultrathin Magnetic Alloy Films. Materials Research Society Symposia Proceedings, 1996, 437, 61.	0.1	0
102	Magnetic x-ray linear dichroism in the photoelectron spectroscopy of ultrathin magnetic alloy films. Journal of Applied Physics, 1996, 79, 5626.	1.1	17
103	Magnetic x-ray dichroism in the spectroscopy of ultrathin magnetic alloy films. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 3171.	1.6	10
104	Magnetic behavior of Fe _x Ni(1-x) and Co _x Ni(1-x) pseudomorphic films. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 3189.	1.6	6
105	Magnetic Behavior of Ultrathin Films of Pseudomorphic Binary Alloys. Materials Research Society Symposia Proceedings, 1995, 400, 323.	0.1	0
106	Electronic structure of multilayers: nature of the magnetic interlayer interaction. Vacuum, 1995, 46, 1133-1136.	1.6	3
107	Effect of substrate symmetry on the preferred magnetization orientation of Ni films on Cu. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1995, 13, 1497-1500.	0.9	6
108	Magnetic properties of pseudomorphic ferromagnetic alloy films on Cu(100). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1995, 13, 1531-1533.	0.9	13

#	ARTICLE	IF	CITATIONS
109	Spin reorientation transition in Ni films on Cu(100). Journal of Applied Physics, 1994, 76, 6434-6436.	1.1	25
110	Quantum well and quantum wire states at metal surfaces. Superlattices and Microstructures, 1994, 15, 237.	1.4	25
111	Magnetism in the few-monolayers limit: A surface magneto-optic Kerr-effect study of the magnetic behavior of ultrathin films of Co, Ni, and Co-Ni alloys on Cu(100) and Cu(111). Physical Review B, 1994, 49, 3962-3971.	1.1	423
112	Interfacial anisotropy and magnetic transition of cobalt films on Cu(111). Journal of Applied Physics, 1994, 75, 6406-6408.	1.1	23
113	Quantum size effects in ultrathin Cu(100) films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 2183-2186.	0.9	11
114	Quantum-well states and magnetic coupling between ferromagnets through a noble-metal layer. Physical Review B, 1993, 47, 1540-1552.	1.1	440
115	Influence of film morphology on thin film ferromagnetism. Surface Science, 1993, 297, L79-L83.	0.8	5
116	Finite-size scaling behavior of ferromagnetic thin films. Journal of Applied Physics, 1993, 73, 6760-6762.	1.1	121
117	Band structure of the magnetic fcc pseudomorphs: Ni(100), Co(100), and Fe(100). Physical Review B, 1993, 48, 10284-10291.	1.1	63
118	Electronic states in magnetic quantum wells and monolayers. Journal of Physics Condensed Matter, 1993, 5, A189-A190.	0.7	2
119	Hydrogen chemisorption on ferromagnetic thin film surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1993, 11, 2034-2039.	0.9	16
120	Unoccupied electronic states of ultrathin films of Co/Cu(111) and Fe/Cu(111). Physical Review B, 1993, 47, 190-196.	1.1	32
121	Quantum well states and magnetic coupling between noble metals and ferromagnets (invited). Journal of Applied Physics, 1993, 73, 5771-5775.	1.1	11
122	Electronic States in Magnetic Quantum Wells. Materials Research Society Symposia Proceedings, 1993, 313, 143.	0.1	1
123	Micromagnetic properties of ultrathin cobalt films. Journal of Applied Physics, 1991, 69, 5000-5002.	1.1	28
124	The effect of microstructure on the magnetic behavior of epitaxial cobalt layers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1991, 9, 1595-1598.	0.9	35
125	Reorientation phase transition behavior in metastable epitaxial cobalt-copper alloys. Journal of Applied Physics, 1991, 70, 5929-5931.	1.1	6
126	Kinetics of hydrogen chemisorption on epitaxial ferromagnetic layers of fcc cobalt on copper(001). Journal of Electron Spectroscopy and Related Phenomena, 1990, 54-55, 501-507.	0.8	0

#	ARTICLE	IF	CITATIONS
127	The effect of chemisorption on the magnetic behavior of metastable layers of fcc Co(001) and Fe(001) (abstract). Journal of Applied Physics, 1990, 67, 5416-5416.	1.1	1