D J Sellmyer

List of Publications by Citations

283 papers	8,254 citations	46 h-index	79 g-index
286 ext. papers	8,533 ext. citations	2.7 avg, IF	5.66 L-index

#	Paper	IF	Citations
283	Magnetism of Fe, Co and Ni nanowires in self-assembled arrays. *Journal of Physics Condensed Matter*, **2001**, 13, R433-R460	1.8	434
282	High energy products in rapidly annealed nanoscale Fe/Pt multilayers. *Applied Physics Letters*, **1998**, 72, 483-485	3.4	279
281	Magnetic properties of self-assembled Co nanowires of varying length and diameter. *Journal of Applied Physics*, **2000**, 87, 4718-4720	2.5	245
280	Structure and magnetic properties of ferromagnetic nanowires in self-assembled arrays. *Physical Review B*, **2002**, 65,	3.3	220
279	Nanostructured FePt:B2O3 thin films with perpendicular magnetic anisotropy. *Applied Physics Letters*, **2000**, 77, 2225-2227	3.4	197
278	Electronic and magnetic structures of the rare-earth compounds R2Fe17N xi. *Physical Review Letters*, **1991**, 67, 644-647	7.4	178
277	Orientation-controlled nonepitaxial L10 CoPt and FePt films. *Applied Physics Letters*, **2002**, 80, 2350-2352	3.4	177
276	Nanotube magnetism. *Applied Physics Letters*, **2004**, 84, 1525-1527	3.4	175
275	Structural and magnetic properties of FePt:SiO2 granular thin films. *Applied Physics Letters*, **1999**, 75, 3162-3164	3.4	158
274	Nanocomposite CoPt:C films for extremely high-density recording. *Applied Physics Letters*, **1999**, 75, 3992-3994	3.4	151
273	Predicting the Future of Permanent-Magnet Materials. *IEEE Transactions on Magnetics*, **2013**, 49, 3215-3220	2	150
272	Rare-earth-rich metallic glasses. I. Magnetic hysteresis. *Physical Review B*, **1981**, 23, 3349-3354	3.3	146
271	Magnetic localization in transition-metal nanowires. *Physical Review B*, **2000**, 62, 3900-3904	3.3	140
270	Monodisperse MPt (M = Fe, Co, Ni, Cu, Zn) nanoparticles prepared from a facile oleylamine reduction of metal salts. *Nano Letters*, **2014**, 14, 2778-82	11.5	137
269	Sm□Co□Cu□Ti high-temperature permanent magnets. *Applied Physics Letters*, **2000**, 77, 1514-1516	3.4	135
268	Magnetic properties of Ni nanowires in self-assembled arrays. *Physical Review B*, **2000**, 62, 12282-12286	3.3	114
267	FePt:SiO2 granular thin film for high density magnetic recording. *Journal of Applied Physics*, **2000**, 87, 6941-6943	2.5	111

266	Highly oriented nonepitaxially grown L10 FePt films. *Journal of Applied Physics*, **2003**, 93, 8292-8294	2.5	98
265	Random magnetism in amorphous rare-earth alloys (invited). *Journal of Applied Physics*, **1985**, 57, 3584-3588	2.5	95
264	Structure and magnetic properties of SmCo7−xTix with TbCu7-type structure. *Journal of Applied Physics*, **2000**, 87, 5299-5301	2.5	93
263	Fabrication of nonepitaxially grown double-layered FePt:C/FeCoNi thin films for perpendicular recording. *Applied Physics Letters*, **2003**, 83, 3332-3334	3.4	92
262	L10,(001)-oriented FePt:B2O3 composite films for perpendicular recording. *Journal of Applied Physics*, **2002**, 91, 8471	2.5	92
261	One-pot synthesis of urchin-like FePd-Fe3O4 and their conversion into exchange-coupled L1(0)-FePd-Fe nanocomposite magnets. *Nano Letters*, **2013**, 13, 4975-9	11.5	82
260	Magnetic and structural properties of SmCo7−xCux alloys. *Journal of Applied Physics*, **2000**, 87, 6710-6712	2.5	82
259	Exploring the structural complexity of intermetallic compounds by an adaptive genetic algorithm. *Physical Review Letters*, **2014**, 112, 045502	7.4	78
258	Sample preparation and annealing effects on the ferromagnetism in Mn-doped ZnO. *Journal of Applied Physics*, **2005**, 97, 10D303	2.5	77
257	Nanostructure and magnetic properties of composite CoPt:C films for extremely high-density recording. *Journal of Applied Physics*, **2000**, 87, 6959-6961	2.5	75
256	Assembly of uniaxially aligned rare-earth-free nanomagnets. *Applied Physics Letters*, **2012**, 101, 122407	3.4	66
255	Hf-Co and Zr-Co alloys for rare-earth-free permanent magnets. *Journal of Physics Condensed Matter*, **2014**, 26, 064204	1.8	64
254	Magnetism of Co nanocluster films. *Physical Review B*, **2002**, 66,	3.3	63
253	Quasicoherent nucleation mode in two-phase nanomagnets. *Physical Review B*, **1999**, 60, 7359-7365	3.3	63
252	Magnetic properties of nanometer-size CoPt particles. *Journal of Applied Physics*, **1996**, 79, 5060	2.5	63
251	Phase-transition behavior in a random-anisotropy system. *Physical Review Letters*, **1986**, 57, 1173-1176	7.4	62
250	Magnetic nanotubes produced by hydrogen reduction. *Journal of Applied Physics*, **2004**, 95, 7151-7153	2.5	61
249	Magnetic hardening in FePt nanostructured films. *Journal of Applied Physics*, **1997**, 81, 5644-5646	2.5	60

248	Effects of rapid thermal annealing on nanostructure, texture and magnetic properties of granular FePt:Ag films for perpendicular recording (invited). *Journal of Applied Physics*, **2003**, 93, 8152-8154	2.5	59
247	Metastable phases in rare-earth permanent-magnet materials. *Journal Physics D: Applied Physics*, **2000**, 33, R217-R246	3	58
246	Disorder and noncollinear magnetism in permanent-magnet materials with the ThMn12 structure. *Physical Review Letters*, **1995**, 74, 3688-3691	7.4	52
245	Magnetic properties of La0.6Sr0.4MnO3 thin films on SrTiO3 and buffered Si substrates with varying thickness. *Journal of Applied Physics*, **2008**, 103, 023914	2.5	51
244	CoPt hard magnetic nanoparticle films synthesized by high temperature chemical reduction. *Journal of Applied Physics*, **2003**, 93, 7571-7573	2.5	51
243	Curie temperature of FePt:B2O3 nanocomposite films. *Physical Review B*, **2002**, 66,	3.3	51
242	Structural and magnetic properties of nanocomposite Co:C films. *Journal of Applied Physics*, **1999**, 85, 4319-4321	2.5	49
241	Electronic structure and magnetic properties of Fe-rich ternary compounds: YFe10V2 and YFe10Cr2. *Journal of Applied Physics*, **1990**, 67, 4564-4566	2.5	49
240	Direct chemical synthesis of L1(0)-FePtAu nanoparticles with high coercivity. *Nanoscale*, **2014**, 6, 12050-5	7.7	47
239	Effective Demagnetizing Factors of Complicated Particle Mixtures. *IEEE Transactions on Magnetics*, **2007**, 43, 2956-2958	2	47
238	Aligned and exchange-coupled FePt-based films. *Applied Physics Letters*, **2011**, 99, 172504	3.4	46
237	Magnetism of TiO and TiO2 nanoclusters. *Journal of Applied Physics*, **2009**, 105, 07C517	2.5	46
236	Nucleation and wall motion in graded media. *Journal of Applied Physics*, **2008**, 103, 07F531	2.5	46
235	Magnetic properties of L10 FePt and FePt:Ag nanocluster films. *Journal of Applied Physics*, **2003**, 93, 8289-8291	2.5	45
234	Curie temperature of multiphase nanostructures. *Journal of Applied Physics*, **2000**, 87, 4756-4758	2.5	44
233	Magnetic hardening in SmCox□o multilayers and nanocomposites. *Journal of Applied Physics*, **1999**, 85, 4812-4814	2.5	44
232	Transport spin polarization of high Curie temperature MnBi films. *Physical Review B*, **2011**, 83,	3.3	43
231	Nanostructured NdFeB films processed by rapid thermal annealing. *Journal of Applied Physics*, **1998**, 83, 6611-6613	2.5	43

230	Magnetism and electron transport of MnyGa (1 . *Journal of Applied Physics*, **2013**, 114, 013906	2.5	42
229	Effect of random anisotropy on magnetic properties of amorphous systems. *Physical Review B*, **1978**, 18, 1377-1390	3.3	42
228	Permanent magnetism of dense-packed nanostructures. *Journal of Applied Physics*, **2010**, 107, 09A739	2.5	41
227	Magnetism of rapidly quenched rhombohedral Zr2Co11-based nanocomposites. *Journal Physics D: Applied Physics*, **2013**, 46, 135004	3	40
226	Effects of surface morphology on magnetic properties of Ni nanowire arrays in self-ordered porous alumina. *Journal of Physics Condensed Matter*, **2002**, 14, 715-721	1.8	40
225	Magnetic ordering in amorphous Nd-Co, Gd-Co and Er-Co alloys. *Journal of Applied Physics*, **1978**, 49, 1699-1701	2.5	40
224	From FePt□e3O4 to L10-FePt□e nanocomposite magnets with a gradient interface. *Journal of Materials Chemistry C*, **2015**, 3, 7075-7080	7.1	39
223	Rare-earth□gallium□iron glasses. I. Magnetic ordering and hysteresis in alloys based on Gd, Tb, and Er. *Physical Review B*, **1984**, 30, 2845-2856	3.3	39
222	Magnetic hysteresis of Ni nanowires. *Journal of Physics Condensed Matter*, **2000**, 12, L497-L503	1.8	37
221	Finite-temperature anisotropy of magnetic alloys. *Journal of Applied Physics*, **2006**, 99, 08E916	2.5	36
220	Nanostructure and magnetic properties of highly (001) oriented L10 (Fe49Pt51)1□Cux films. *Journal of Applied Physics*, **2006**, 99, 08G903	2.5	36
219	Magnetic properties, anisotropy, and microstructure of sputtered rare-earth iron multilayers. *Journal of Applied Physics*, **1988**, 63, 3218-3220	2.5	36
218	Kerr effect of two-medium layered systems. *Journal of Applied Physics*, **1990**, 67, 7547-7555	2.5	35
217	Integration of epitaxial colossal magnetoresistive films onto Si(100) using SrTiO3 as a template layer. *Applied Physics Letters*, **2005**, 86, 012503	3.4	34
216	Cooperative magnetism and the Preisach model. *Journal of Applied Physics*, **2001**, 89, 7263-7265	2.5	34
215	Electronic structures and Curie temperatures of iron-based rare-earth permanent-magnet compounds. *Physical Review B*, **1995**, 51, 1064-1072	3.3	34
214	Temperature and thickness dependence of coercivity and magnetization of Co/Cu and Co/Si multilayers. *Journal of Applied Physics*, **1991**, 70, 6050-6052	2.5	34
213	Magnetic and Structural Properties of Rapidly Quenched Tetragonal Mn $_{3 - {rm x}}$Ga Nanostructures. *IEEE Transactions on Magnetics*, **2013**, 49, 3277-3280	2	33

212	Magnetic and structural studies in Sm-Fe-Ti magnets. *Journal of Applied Physics*, **1990**, 67, 4954-4956	2.5	33
211	Electronic structure and magnetism of Nd2Fe. *Physical Review Letters*, **1988**, 60, 2077-2080	7.4	33
210	Structural and magnetic properties of Pr-alloyed MnBi nanostructures. *Journal Physics D: Applied Physics*, **2013**, 46, 095003	3	32
209	Temperature dependence of magnetic hysteresis of RCox:Co nanocomposites (R=Pr and Sm). *Journal of Applied Physics*, **2000**, 87, 6740-6742	2.5	32
208	Structural disorder and magnetism in the spin-gapless semiconductor CoFeCrAl. *AIP Advances*, **2016** , 6, 056304	1.5	31
207	${rm HfCo}_{7}$-Based Rare-Earth-Free Permanent-Magnet Alloys. *IEEE Transactions on Magnetics*, **2013**, 49, 3330-3333	2	31
206	Magnetic properties of nickel hydroxide nanoparticles. *Journal of Applied Physics*, **2010**, 107, 083919	2.5	31
205	Synthesis and magnetic characterizations of manganite-based composite nanoparticles for biomedical applications. *Journal of Applied Physics*, **2008**, 103, 07F704	2.5	31
204	Magnetic properties of cluster-beam-synthesized cobalt: Noble-metal films. *Journal of Applied Physics*, **2000**, 87, 7013-7015	2.5	31
203	Effect of Exchange Interactions on the Coercivity of SmCo5 Nanoparticles Made by Cluster Beam Deposition. *Advanced Functional Materials*, **2013**, 23, 3262-3267	15.6	30
202	Size dependence of the magnetic properties of electrochemically self-assembled Fe quantum dots. *Journal of Electronic Materials*, **2000**, 29, 510-515	1.9	30
201	Magnetic properties of the rare-earth intermetallics RGa2. *Journal of Applied Physics*, **1978**, 49, 1507-1509	2.5	30
200	Highly (001)-oriented Ni-doped L10 FePt films and their magnetic properties. *Journal of Applied Physics*, **2005**, 97, 10H309	2.5	29
199	Magnetism and anisotropy of Tb/Fe multilayers. *Journal of Applied Physics*, **1990**, 67, 5713-5715	2.5	29
198	Structural, magnetic, and electron transport properties of MnBi:Fe thin films. *Journal of Applied Physics*, **2012**, 111, 07E326	2.5	27
197	In-cluster-structured exchange-coupled magnets with high energy densities. *Applied Physics Letters*, **2006**, 89, 122509	3.4	27
196	First principles study of transition-metal substitutions in SmCo permanent magnets. *Applied Physics Letters*, **2004**, 85, 2286-2288	3.4	27
195	Phase formation and magnetic properties of Co-rare earth magnetic films. *Journal of Applied Physics*, **1998**, 83, 6244-6246	2.5	26

194	Structural, magnetic and magneto-transport properties of Pt-alloyed MnBi thin films. *Journal of Applied Physics*, **2010**, 107, 09E303	2.5	25
193	Magnetism of MnBi-Based Nanomaterials. *IEEE Transactions on Magnetics*, **2013**, 49, 3318-3321	2	24
192	Spin-wave modes in magnetic nanowires. *Journal of Applied Physics*, **2003**, 93, 7604-7606	2.5	24
191	Coercivity and exchange coupling in PrCo:Co nanocomposite films. *Journal of Applied Physics*, **1998**, 83, 6608-6610	2.5	24
190	Giant coercivities and chemical short-range order in Pr-Ga-Fe metallic glasses. *Journal of Applied Physics*, **1982**, 53, 2330-2332	2.5	24
189	Permanent magnetism of intermetallic compounds between light and heavy transition-metal elements. *Journal of Physics Condensed Matter*, **2014**, 26, 064209	1.8	23
188	Magnetic anisotropy in itinerant magnets. *Journal of Applied Physics*, **2010**, 107, 09A735	2.5	23
187	Magnetic viscosity and switching volumes of annealed Fe/Pt multilayers. *Journal of Applied Physics*, **1996**, 79, 4899	2.5	23
186	Enhanced magneto-optic Kerr effects in thin magnetic/metallic layered structures. *Applied Physics Letters*, **1989**, 55, 2479-2481	3.4	23
185	Magnetic properties of the rare-earth glasses (R65Fe35)100□Bx. *Journal of Applied Physics*, **1979**, 50, 1608-1610	2.5	23
184	Graded permanent magnets. *Journal of Applied Physics*, **2009**, 105, 07A733	2.5	22
183	Effect of Au spacer layer on L10 phase ordering temperature of CoPt thin films. *Journal of Applied Physics*, **2004**, 95, 7270-7272	2.5	22
182	Intrinsic Properties of Fe-Substituted $L1_{0}$ Magnets. *IEEE Transactions on Magnetics*, **2013**, 49, 5194-5198	2	21
181	Temperature- and field-induced entropy changes in nanomagnets. *Journal of Applied Physics*, **2008**, 103, 07B329	2.5	21
180	Magnetic properties of dilute FePt:C nanocluster films. *Journal of Applied Physics*, **2005**, 97, 10J320	2.5	20
179	Magnetic hysteresis of mechanically alloyed Sm□o nanocrystalline powders. *Journal of Applied Physics*, **2003**, 93, 6495-6497	2.5	20
178	CoPtCr:C nanocomposite films for high density recording. *Journal of Applied Physics*, **2001**, 89, 810-812	2.5	20
177	Simple vibrating sample magnetometer. *Review of Scientific Instruments*, **1982**, 53, 691-693	1.7	20

176	Synthesis of single-crystal Sm-Co nanoparticles by cluster beam deposition. *Journal of Nanoparticle Research*, **2011**, 13, 7005-7012	2.3	19
175	Activation entropy, activation energy, and magnetic viscosity. *Journal of Applied Physics*, **1999**, 85, 5069-5071	2.5	19
174	Magnetic properties of Fe/Nd multilayer films. *Journal of Applied Physics*, **1987**, 61, 4323-4325	2.5	19
173	Spin correlations and electron transport in MnBi:Au films. *Journal of Applied Physics*, **2011**, 109, 07B709	2.5	18
172	Magnetism of L10 compounds with the composition MT (M=Rh, Pd, Pt, Ir and T=Mn, Fe, Co, Ni). *Journal of Applied Physics*, **2004**, 95, 7480-7482	2.5	18
171	Magnetic transitions and scaling in anisotropic rare-earth glasses. *Journal of Applied Physics*, **1987**, 61, 3616-3618	2.5	18
170	Structure and magnetic properties of nanostructured Dy/transition-metal multilayered films. *Journal of Applied Physics*, **1988**, 64, 5745-5747	2.5	18
169	Magnetic properties of hydrides of rare earth□transition metal glasses. *Journal of Applied Physics*, **1982**, 53, 7798-7800	2.5	18
168	Permittivity and permeability of Fe(Tb) nanoparticles and their microwave absorption in the 2□18 GHz range. *Journal of Applied Physics*, **2010**, 107, 09A929	2.5	17
167	Electronic structure and magneto-optical properties of MnBi and MnBiAl. *Journal of Applied Physics*, **1994**, 75, 6346-6347	2.5	17
166	Correlation of switching volume with magnetic properties, microstructure, and media noise in CoCr(Pt)Ta thin films. *Journal of Applied Physics*, **1997**, 81, 3928-3930	2.5	16
165	Are VPd3 and NbPd3 itinerant ferromagnets?. *Journal of Applied Physics*, **1982**, 53, 2024-2026	2.5	16
164	Magnetic reversal in three-dimensional exchange-spring permanent magnets. *Journal of Applied Physics*, **2006**, 99, 08B508	2.5	15
163	Structure and magnetic properties of sputtered hard/soft multilayer magnets. *Journal of Applied Physics*, **2003**, 93, 8131-8133	2.5	15
162	Exchange through nonmagnetic insulating matrix. *Journal of Applied Physics*, **2003**, 93, 6477-6479	2.5	15
161	Hysteresis-loop overskewing in the light of a novel nucleation mode. *Journal of Applied Physics*, **2000**, 87, 6334-6336	2.5	15
160	Electrochemically self-assembled quantum dot arrays. *Journal of Electronic Materials*, **1999**, 28, 515-519	1.9	15
159	Spin-glass-like freezing in disordered MnPd3 and CrPd3 alloys. *Journal of Applied Physics*, **1984**, 55, 1735-1737	2.5	15

158	Ferromagnetic resonance studies in ZnMnO dilute ferromagnetic semiconductors. *Journal of Applied Physics*, **2006**, 99, 08M116	2.5	14
157	Effect of Fe substitution on the structural, magnetic and electron-transport properties of half-metallic Co2TiSi. *AIP Advances*, **2017**, 7, 055812	1.5	13
156	Ultrahard magnetic nanostructures. *Journal of Applied Physics*, **2012**, 111, 07E345	2.5	13
155	Rapidly annealed exchange-coupled Sm□Co□ multilayers. *Journal of Applied Physics*, **2005**, 97, 10K304	2.5	13
154	Magnetic intergranular interaction in nanocomposite CoxPt100□:C thin films. *Journal of Applied Physics*, **2002**, 91, 8641	2.5	13
153	Activation volumes in thin film and particulate systems. *Journal of Applied Physics*, **2000**, 87, 5696-5698	2.5	13
152	M□ssbauer study of permanent-magnet materials: Sm2Fe17□Alx compounds. *Journal of Applied Physics*, **1994**, 76, 6159-6161	2.5	13
151	Hf Doping Effect on Hard Magnetism of Nanocrystalline Zr$_{18hbox{-}{rm x}}$Hf$_{rm x}$Co$_{82}$ Ribbons. *IEEE Transactions on Magnetics*, **2013**, 49, 3394-3397	2	12
150	Micromagnetic energy barriers. *Journal of Applied Physics*, **2006**, 99, 08B906	2.5	12
149	Temperature-dependent orbital-moment anisotropy in dilute magnetic oxides. *Physical Review B*, **2007**, 75,	3.3	12
148	Equivalence of sweep-rate and magnetic-viscosity dynamics. *Journal of Applied Physics*, **2003**, 93, 6820-6822	2.5	12
147	Template-mediated assembly of FePt L10 clusters under external magnetic field. *Journal of Applied Physics*, **2005**, 97, 10J304	2.5	12
146	Effects of Ga substitution for Fe on the structure and magnetic properties of Nd8.4Fe87.1□GaxB4.5 (x=0□.2) alloys prepared by mechanical alloying. *Journal of Applied Physics*, **2000**, 87, 5335-5337	2.5	12
145	Magnetic and magneto-optic properties of sputtered Co/Ni multilayers. *Journal of Applied Physics*, **1994**, 75, 6495-6497	2.5	12
144	Studies of domain dynamics in amorphous Dy/Fe multilayers. *Journal of Applied Physics*, **1991**, 70, 6200-6202	2.5	12
143	Magnetism and microstructure of compositionally modulated disordered Fe/Ta films. *Journal of Applied Physics*, **1987**, 61, 4320-4322	2.5	12
142	Magnetic properties of rare earth-gallium-iron glasses. *Journal of Applied Physics*, **1981**, 52, 1823-1825	2.5	12
141	Rare-earth-rich metallic glasses. II. Magnetic viscosity. *Physical Review B*, **1981**, 23, 3355-3359	3.3	12

140	Effect of disorder on the resistivity of CoFeCrAl films. *AIP Advances*, **2017**, 7, 055834	1.5	11
139	Finite-Temperature Micromagnetism. *IEEE Transactions on Magnetics*, **2013**, 49, 3229-3232	2	11
138	Effect of Co substitution on the magnetic and electron-transport properties of Mn2PtSn. *Journal of Physics Condensed Matter*, **2015**, 27, 076002	1.8	11
137	Structure and magnetic properties of Co-W clusters produced by inert gas condensation. *Journal of Applied Physics*, **2012**, 111, 07B524	2.5	11
136	Anisotropy of W in Fe and Co. *IEEE Transactions on Magnetics*, **2011**, 47, 3336-3339	2	11
135	Entropy localization in magnetic compounds and thin-film nanostructures. *Journal of Applied Physics*, **2010**, 107, 09A922	2.5	11
134	Growth and magnetism of FePt:C composites in nanoscale channels. *Journal of Applied Physics*, **2004**, 95, 6741-6743	2.5	11
133	Quantum entanglement of anisotropic magnetic nanodots. *Physical Review A*, **2004**, 70,	2.6	11
132	Magnetic and magneto-optical properties of Mn5(Ge1−xMx)3 alloys with M=Sn, Pb. *Journal of Applied Physics*, **1994**, 75, 6354-6356	2.5	11
131	Crystal Structure and Dzyaloshinskii–Moriya Micromagnetics. *IEEE Transactions on Magnetics*, **2019**, 55, 1-5	2	10
130	Kondorski reversal in magnetic nanowires. *Journal of Applied Physics*, **2014**, 115, 17D137	2.5	10
129	Proteresis in Co:CoO core-shell nanoclusters. *Journal of Applied Physics*, **2008**, 103, 07D514	2.5	10
128	Anisotropic exchange. *Journal of Applied Physics*, **2005**, 97, 10B302	2.5	10
127	Interactions and switching behavior of anisotropic magnetic dots. *Journal of Applied Physics*, **2004**, 95, 7414-7416	2.5	10
126	Multidomain and incoherent effects in magnetic nanodots. *Journal of Applied Physics*, **2004**, 95, 7022-7024	2.5	10
125	Fabrication of large arrays of micron-scale magnetic features by selective area organometallic chemical vapor deposition. *Journal of Applied Physics*, **1996**, 80, 1867-1871	2.5	10
124	Magnetic ordering and local random anisotropy in dilute magnetic glasses. *Journal of Applied Physics*, **1978**, 49, 1696-1698	2.5	10
123	Magnetism of hexagonal Mn1.5X0.5Sn (X = Cr, Mn, Fe, Co) nanomaterials. *Journal of Applied Physics*, **2015**, 117, 17D115	2.5	9

122	Nanomagnetic skyrmions. *Journal of Applied Physics*, **2012**, 111, 07E116	2.5	9
121	Effects of total thickness on (001) texture, surface morphology, and magnetic properties of [Fe/Pt]n multilayer films by monatomic layer deposition. *Journal of Applied Physics*, **2010**, 108, 073906	2.5	9
120	Aligned and exchange-coupled L10 (Fe,Co)Pt-based magnetic films. *Journal of Applied Physics*, **2012**, 111, 07B537	2.5	9
119	Magnetization Reversal in Cubic Nanoparticles With Uniaxial Surface Anisotropy. *IEEE Transactions on Magnetics*, **2007**, 43, 2890-2892	2	9
118	Cluster-Assembled Nanocomposites **2006**, 207-238		9
117	FePt clusters synthesized by thermal pyrolysis of Fe and Pt compounds in an organic solvent. *Journal of Applied Physics*, **2006**, 99, 08G704	2.5	9
116	Electronic structure of Sm2Fe17Nx compounds. *Journal of Applied Physics*, **1993**, 73, 6913-6915	2.5	9
115	Photoemission studies of Co- and Fe-based compounds with the ThMn12 structure. *Journal of Applied Physics*, **1993**, 73, 6919-6921	2.5	9
114	Electronic structure and surface reactivity of Nd2Fe14B and related compounds. *Journal of Applied Physics*, **1988**, 64, 5577-5579	2.5	9
113	Effect of anisotropy strength on phase transitions in random anisotropy magnets. *Journal of Applied Physics*, **1982**, 53, 7722-7724	2.5	9
112	Synthesis and magnetism of single-phase Mn-Ga films. *Journal of Applied Physics*, **2015**, 117, 17E306	2.5	8
111	Solubility extension and phase formation in gas-condensed Co□W nanoclusters. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	8
110	Structural, magnetic, and electron transport properties of Mn3□PtxSn (x = 0, 0.5, 1) nanomaterials. *Journal of Applied Physics*, **2014**, 115, 17A923	2.5	8
109	Magnetism of core-shell Ti:TiO nanoparticles. *Journal of Applied Physics*, **2010**, 107, 09B516	2.5	8
108	Isothermal entropy changes in nanocomposite Co:Ni67Cu33. *Journal of Applied Physics*, **2012**, 111, 07A930	2.5	8
107	Structure and magnetism of Co:CoO core□shell nanoclusters. *Journal of Nanoparticle Research*, **2010**, 12, 789-794	2.3	8
106	Self-assembled nanocrystalline epitaxial manganite films on SrTiO3□i heterostructures. *Journal of Applied Physics*, **2006**, 99, 08Q307	2.5	8
105	Cluster-assembled exchange-spring nanocomposite permanent magnets. *Journal of Applied Physics*, **2005**, 97, 10K310	2.5	8

104	Electronic structure and Curie temperature of YFe12−xMoxNy compounds. *Journal of Applied Physics*, **1994**, 75, 6303-6305	2.5	8
103	Magnetic and electrical properties of iron-nickel-chromium-metalloid glasses. *Physical Review B*, **1981**, 24, 5318-5326	3.3	8
102	Structural, magnetic, and electron-transport properties of epitaxial Mn2PtSn films. *Journal of Applied Physics*, **2018**, 124, 103903	2.5	8
101	Structure and magnetism of dilute Co(Zr) nanoclusters. *Journal of Applied Physics*, **2013**, 113, 17B509	2.5	7
100	Magnetic correlations in nanocomposite FePt:Au and FePt:C films. *Journal of Applied Physics*, **2009**, 105, 07B736	2.5	7
99	Control of Coercivity in Exchange-Coupled Graded (001) $hbox{FePt}:hbox{SiO}_{2}$ Nanocomposite Films. *IEEE Transactions on Magnetics*, **2010**, 46, 2435-2437	2	7
98	Nanostructure and magnetic anisotropy of Co/Au multilayers. *Journal of Applied Physics*, **1997**, 81, 5061-5063	2.5	7
97	Oxide-based dilute ferromagnetic semiconductors: ZnMnO and Co:TiO2. *Journal of Applied Physics*, **2006**, 99, 08M108	2.5	7
96	Indirect exchange in dilute magnetic semiconductors. *Journal of Applied Physics*, **2006**, 99, 08D504	2.5	7
95	Sputtering pressure effects and temperature-dependent magnetism of Co/Pd multilayers. *Journal of Applied Physics*, **1994**, 76, 6084-6086	2.5	7
94	Thickness dependence of the magnetic and electrical properties of Fe:SiO2 nanocomposite films. *Journal of Applied Physics*, **1994**, 76, 6304-6306	2.5	7
93	Low-temperature characterization of the magnetic properties of MnBiAl thin films. *Journal of Applied Physics*, **1994**, 75, 6348-6350	2.5	7
92	Enhancement of magneto-optical Kerr effects. *Journal of Applied Physics*, **1990**, 67, 5337-5339	2.5	7
91	Ellipsometric and magneto-optic properties of sputtered dysprosium-iron multilayers. *Journal of Applied Physics*, **1988**, 63, 3215-3217	2.5	7
90	Anomalous magnetic hysteresis in an amorphous Nd54Co36B10 alloy. *Journal of Applied Physics*, **1985**, 57, 4133-4135	2.5	7
89	Exploring new phases of Fe3−xCoxC for rare-earth-free magnets. *Journal Physics D: Applied Physics*, **2017**, 50, 215005	3	6
88	Magnetism of dilute Co(Hf) and Co(Pt) nanoclusters. *Journal of Applied Physics*, **2012**, 111, 07B532	2.5	6
87	Structure and magnetism of MnAu nanoclusters. *Journal of Applied Physics*, **2011**, 109, 07B523	2.5	6

86	Magnetic entropy changes in nanogranular Fe:Ni61Cu39. *Journal of Applied Physics*, **2011**, 109, 07A936	2.5	6
85	Anisotropy of heavy transition metal dopants in Co. *Journal of Applied Physics*, **2011**, 109, 07A727	2.5	6
84	L10 CrPt phase formation and magnetic properties. *Journal of Applied Physics*, **2012**, 111, 07D720	2.5	6
83	One-step fabrication of L10 FePt nanocubes and rods by cluster beam deposition. *Journal of Applied Physics*, **2012**, 111, 07B535	2.5	6
82	Hysteresis of ultrasmall FePt particles. *Journal of Applied Physics*, **2008**, 103, 07E139	2.5	6
81	Nanostructured Exchange-Coupled Magnets **2006**, 182-266		6
80	Intrinsic and Extrinsic Properties of Advanced Magnetic Materials **2006**, 1-57		6
79	Permanent Magnetism in Exchange-Coupled Nanocomposites. *Materials Research Society Symposia Proceedings*, **1999**, 577, 335		6
78	Synthesis of Nd(FeTi)12 films by sputtering. *Applied Physics Letters*, **1993**, 62, 3528-3530	3.4	6
77	Magneto-optical and structural properties of BiAlDyIG/Fe multilayers. *Journal of Applied Physics*, **1994**, 75, 6670-6672	2.5	6
76	Magneto-optic properties of uranium-based compounds. *Journal of Applied Physics*, **1991**, 69, 4574-4576	2.5	6
75	Magnetic properties of rare-earth transition-metal borides. *Journal of Applied Physics*, **1988**, 63, 3704-3706	2.5	6
74	Direct gas-phase formation of complex core□shell and three-layer MnBi nanoparticles. *RSC Advances*, **2016**, 6, 92765-92770	3.7	6
73	Theory of Mn-Based High-Magnetization Alloys. *IEEE Transactions on Magnetics*, **2018**, 54, 1-6	2	6
72	Micromagnetism of MnBi:FeCo thin films. *Journal Physics D: Applied Physics*, **2016**, 49, 075003	3	5
71	Ferromagnetism in Laves-phase WFe2 nanoparticles. *APL Materials*, **2015**, 3, 076101	5.7	5
70	Susceptibility of Fe atoms in Cu clusters. *Journal of Applied Physics*, **2013**, 113, 17E148	2.5	5
69	Structure and Magnetism of Pure and Co-Doped TiO$_{2}$ Clusters. *IEEE Transactions on Magnetics*, **2009**, 45, 4089-4091	2	5

68	Spin and elastic contributions to isothermal entropy change. *Journal of Applied Physics*, **2012**, 111, 07A931	2.5	5
67	Band-structure and correlation effects in the Co(111) planes of CoO. *Journal of Applied Physics*, **2008**, 103, 07C908	2.5	5
66	Structure, magnetic properties, and exchange coupling in thermally processed NdDyFeCoB/Fe nanoscale multilayer magnets. *Journal of Applied Physics*, **2008**, 103, 07E130	2.5	5
65	Structural effects on exchange in nanocluster perpendicular recording mediaa). *Journal of Applied Physics*, **2006**, 99, 08F909	2.5	5
64	The effects of the thickness of magnetically hard- and soft-phase layers on magnetic properties and exchange coupling in multilayer magnets. *Journal of Applied Physics*, **2005**, 97, 10K303	2.5	5
63	Spin structure at nanojunctions and constrictions. *Journal of Applied Physics*, **2003**, 93, 7531-7533	2.5	5
62	Enhanced coercivity in thermally processed (Nd,Dy)(Fe,Co,Nb,B)5.5/Fe nanoscale multilayer magnets. *Journal of Applied Physics*, **2005**, 97, 104308	2.5	5
61	Structure and magnetic properties of N-containing Nd/Fe/B alloys prepared by mechanical alloying. *Journal of Applied Physics*, **2000**, 87, 5332-5334	2.5	5
60	Temperature and layer-thickness dependencies of Kerr rotation in Dy/Co multilayers. *Journal of Applied Physics*, **1991**, 70, 6203-6205	2.5	5
59	The structure and magneto-optic properties of MnAl-based thin films. *Journal of Applied Physics*, **1990**, 67, 4929-4931	2.5	5
58	Thermoelectricity in Pure Iridium. *Canadian Journal of Physics*, **1974**, 52, 2060-2061	1.1	5
57	Magnetic ordering in several Fe-chain silicate compounds. *AIP Conference Proceedings*, **1975**,	0	5
56	Exchange-coupling behavior in nanostructured FePt/Fe bilayer films. *AIP Advances*, **2016**, 6, 056010	1.5	5
55	Anisotropy of zigzag chains of palladium. *Journal of Applied Physics*, **2011**, 109, 07E322	2.5	4
54	Magnetic susceptibility of nanoscale Kondo systems. *Journal of Applied Physics*, **2010**, 107, 09E126	2.5	4
53	Enhanced L10 Ordering and (001) Orientation in FePt: Ag Nanocomposite Films by Monatomic Layer Deposition. *IEEE Transactions on Magnetics*, **2010**, 46, 1817-1820	2	4
52	Magnetic materials for finite-temperature quantum computing. *Journal of Applied Physics*, **2005**, 97, 10R511	2.5	4
51	Relaxation in magnetic nanostructures. *Journal of Applied Physics*, **2005**, 97, 10A702	2.5	4

50	Magnetic and structural properties of PrCo3−xSix compounds. *Journal of Applied Physics*, **1998**, 83, 7381-7383	2.5	4
49	Magnetization reversal in Co/Cr multilayer films. *Journal of Applied Physics*, **1993**, 73, 6353-6355	2.5	4
48	Effect of interfacial microstructure on magnetic properties of dysprosium multilayers. *Journal of Applied Physics*, **1991**, 69, 5289-5291	2.5	4
47	Electron transport in Tb- and Pr-based metallic glasses. *Journal of Applied Physics*, **1982**, 53, 8237-8239	2.5	4
46	Reversibility and coercivity of Fe-alloy/Fe:SiO2 multilayers. *Journal of Applied Physics*, **2010**, 107, 09E710	2.5	3
45	Magnetism and structure of anatase (Ti1−xVx)O2 films. *Journal of Applied Physics*, **2012**, 111, 07C118	2.5	3
44	Noncollinear spin states and competing interactions in half-metals and magnetic perovskites. *Journal of Applied Physics*, **2005**, 97, 10C305	2.5	3
43	Effects of layer thickness on orientation distribution and magnetic properties of CoCrTa/Cr films. *Journal of Applied Physics*, **1999**, 85, 4310-4312	2.5	3
42	RANDOM ANISOTROPY AND PHASE TRANSITIONS IN MAGNETIC GLASSES **1992**, 71-121		3
41	Resonant Moke Spectra in Magnetic Layers on Silver. *Materials Research Society Symposia Proceedings*, **1989**, 150, 109		3
40	Magnetic properties and switching volumes of nanocrystalline SmFeSiC films. *Journal of Applied Physics*, **1997**, 81, 4551-4553	2.5	2
39	Ferromagnetic Multipods Fabricated by Solution Phase Synthesis and Hydrogen Reduction. *IEEE Transactions on Magnetics*, **2007**, 43, 3115-3117	2	2
38	Magnetic Aging. *Materials Research Society Symposia Proceedings*, **2005**, 887, 1		2
37	Transition from negative magnetoresistance behavior to positive behavior in Co20(Cu1−xGex)80 ribbons. *Applied Physics Letters*, **2002**, 80, 1779-1781	3.4	2
36	Permanent Magnetism In Exchange-Coupled Nanocomposites. *Materials Research Society Symposia Proceedings*, **1999**, 562, 309		2
35	Magnetic and Magneto-Optical Properties of Nanostructured Rare Earth-Transition Metal Multilayered Films. *Materials Research Society Symposia Proceedings*, **1989**, 150, 51		2
34	Noncollinear spin structure in Fe3+xCo3−xTi2 (x=0,2,3) from neutron diffraction. *Physical Review Materials*, **2019**, 3,	3.2	2
33	MAGNETIC PROPERTIES OF COBALT CLUSTERS EMBEDDED IN A NONMAGNETIC MATRIX (Ag, Cu, AND SiO2) **2000**,		2

32	Half-metallic magnetism in Ti3Co5-xFexB2. *AIP Advances*, **2017**, 7, 055713	1.5	1
31	Cooperative and noncooperative magnetization reversal in alnicos. *AIP Advances*, **2017**, 7, 056222	1.5	1
30	Nonadiabatic Berry phase in nanocrystalline magnets. *AIP Advances*, **2017**, 7, 055802	1.5	1
29	Magnetic Domain Structure of Nanocrystalline Zr18-xHfxCo82 Ribbons: Effect of Hf. *Materials Research Society Symposia Proceedings*, **2013**, 1557, 1		1
28	Layered transition-metal permanent-magnet structures. *Journal of Applied Physics*, **2011**, 109, 07A714	2.5	1
27	Structure and magnetic properties of annealed metastable FeAg/Pt films. *Applied Physics A: Materials Science and Processing*, **2011**, 103, 301-307	2.6	1
26	Structural and magnetic properties of Mn2+TiSn. *Journal of Applied Physics*, **2012**, 111, 07B101	2.5	1
25	A quantum-mechanical relaxation model. *Journal of Applied Physics*, **2012**, 111, 07D507	2.5	1
24	Magnetic impurities in magic-number clusters. *Journal of Applied Physics*, **2007**, 101, 09G524	2.5	1
23	Effects of ion-beam irradiation on the L10 phase transformation and their magnetic properties of FePt and PtMn films (Invited). *Materials Research Society Symposia Proceedings*, **2005**, 887, 1		1
22	New Magnetic Recording Media **2006**, 1539-1568		1
21	Non-epitaxial, Highly Textured (001) CoPt:B2O3 Composite Films for Perpendicular Recording. *Materials Research Society Symposia Proceedings*, **2002**, 721, 1		1
20	Processing and Hard Magnetic Properties of Nanocrystalline Sm(Co,Zr)7 Magnet Powders. *Materials Research Society Symposia Proceedings*, **2000**, 644, 841		1
19	Selective Area Laser Induced Deposition of Metal Boride Thin Films. *Materials Research Society Symposia Proceedings*, **1999**, 558, 91		1
18	Magnetic and structural properties of Co/Cr multilayers with in-plane anisotropy. *Journal of Applied Physics*, **1991**, 70, 6053-6055	2.5	1
17	Ellipsometric, Magneto-Optic, and Magnetic Properties of Sputtered Rare Earth-Transition Metal Multilayers. *Materials Research Society Symposia Proceedings*, **1987**, 103, 239		1
16	Nanoscale Materials for Extremely High-Density Recording **2001**, 163-170		1
15			

List of Publications

14	Structural and magnetic properties of Co-V nanoparticles. *AIP Advances*, **2019**, 9, 125144	1.5	1
13	Magnetism of Rapidly Quenched Sm$_{1 - {rm x}}$Zr$_{{rm x}}$Co$_{5}$ Nanocrystalline Materials. *IEEE Transactions on Magnetics*, **2013**, 49, 3353-3355	2	
12	Hysteresis and relaxation in granular permanent magnets. *Journal of Applied Physics*, **2012**, 111, 07B507	2.5	
11	HRTEM Study of Nanostructure of Co/Au Multilayers. *Microscopy and Microanalysis*, **1997**, 3, 407-408	0.5	
10	Dielectric and magnetic birefringence in low-chlorine-doped n -type Zn1 Mnx Se. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2008**, 5, 1007-1011		
9	Laser Processing of Magnetic Materials **2006**, 1045-1063		
8	TEM of Nanostructure of Cu and Ti doped Sm-Co magnetic materials. *Microscopy and Microanalysis*, **2002**, 8, 1358-1359	0.5	
7	Studies of magnetic properties of the stabilizing layer for synthetic antiferromagnetically coupled media. *Journal of Applied Physics*, **2003**, 93, 7768-7770	2.5	
6	Fast and Slow Magnetization Processes in Magnetic Recording Media. *Materials Research Society Symposia Proceedings*, **2005**, 887, 1		
5	Effects of germanium on the electronic transport mechanism in Co20(Cu1-xGex)80 nanogranular ribbons. *Journal of Materials Research*, **2002**, 17, 3050-3055	2.5	
4	TEM of nanodot arrays fabricated by direct laser interferometry. *Microscopy and Microanalysis*, **2001**, 7, 316-317	0.5	
3	Finite Temperature Calculations for the Random Anisotropy Model for Amorphous Magnets. *Physica Status Solidi (B): Basic Research*, **1978**, 88, K127-K130	1.3	
2	EXPERIMENTS AND SIMULATIONS ON MAGNETIZATION REVERSAL IN MAGNETO-OPTIC THIN FILMS. *Journal of the Magnetics Society of Japan*, **1993**, 17, S1_258-259		
1	Boundary conditions and Berry phase in magnetic nanostructures. *AIP Advances*, **2019**, 9, 125049	1.5	