

R W Chantrell

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495
papers

14,534
citations

60
h-index

100
g-index

515
ext. papers

16,110
ext. citations

3.3
avg, IF

6.31
L-index

#	Paper	IF	Citations
495	Transient ferromagnetic-like state mediating ultrafast reversal of antiferromagnetically coupled spins. <i>Nature</i> , 2011 , 472, 205-8	50.4	641
494	. <i>IEEE Transactions on Magnetism</i> , 1978 , 14, 975-977	2	593
493	Ultrafast heating as a sufficient stimulus for magnetization reversal in a ferrimagnet. <i>Nature Communications</i> , 2012 , 3, 666	17.4	454
492	Atomistic spin model simulations of magnetic nanomaterials. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 103202	1.8	328
491	Ultrafast path for optical magnetization reversal via a strongly nonequilibrium state. <i>Physical Review Letters</i> , 2009 , 103, 117201	7.4	309
490	Temperature-dependent magnetic properties of FePt: Effective spin Hamiltonian model. <i>Europhysics Letters</i> , 2005 , 69, 805-811	1.6	211
489	Calculations of the susceptibility of interacting superparamagnetic particles. <i>Physical Review B</i> , 2000 , 63,	3.3	202
488	. <i>IEEE Transactions on Magnetism</i> , 1991 , 27, 3570-3578	2	183
487	Agglomerate formation in a magnetic fluid. <i>Journal of Applied Physics</i> , 1982 , 53, 2742-2744	2.5	178
486	All-optical magnetization reversal by circularly polarized laser pulses: Experiment and multiscale modeling. <i>Physical Review B</i> , 2012 , 85,	3.3	167
485	Towards multiscale modeling of magnetic materials: Simulations of FePt. <i>Physical Review B</i> , 2008 , 77,	3.3	164
484	Monte carlo simulation with time step quantification in terms of langevin dynamics. <i>Physical Review Letters</i> , 2000 , 84, 163-6	7.4	162
483	Opportunities and challenges for spintronics in the microelectronics industry. <i>Nature Electronics</i> , 2020 , 3, 446-459	28.4	160
482	A model of interaction effects in granular magnetic solids. <i>Journal of Applied Physics</i> , 1998 , 84, 5114-5122	2.5	153
481	Susceptibility phenomena in a fine particle system. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 114, 295-306	2.8	149
480	Dynamic approach for micromagnetics close to the Curie temperature. <i>Physical Review B</i> , 2006 , 74,	3.3	137
479	Structural studies of L10 FePt nanoparticles. <i>Applied Physics Letters</i> , 2002 , 81, 2220-2222	3.4	135

478	Unified model of hyperthermia via hysteresis heating in systems of interacting magnetic nanoparticles. <i>Scientific Reports</i> , 2015 , 5, 9090	4.9	133
477	Stochastic form of the Landau-Lifshitz-Bloch equation. <i>Physical Review B</i> , 2012 , 85,	3.3	124
476	Static and dynamic experimental studies of particulate recording media. <i>Journal of Magnetism and Magnetic Materials</i> , 1988 , 75, 309-318	2.8	123
475	A magnetic evaluation of interaction and noise characteristics of CoNiCr thin films. <i>Journal of Applied Physics</i> , 1991 , 69, 4733-4735	2.5	121
474	Slow recovery of the magnetisation after a sub-picosecond heat pulse. <i>Europhysics Letters</i> , 2008 , 81, 27004	1.6	116
473	Dipolar localization of quantized spin-wave modes in thin rectangular magnetic elements. <i>Physical Review B</i> , 2003 , 68,	3.3	116
472	Effective anisotropies and energy barriers of magnetic nanoparticles with Néel surface anisotropy. <i>Physical Review B</i> , 2007 , 76,	3.3	113
471	Vortex-state oscillations in soft magnetic cylindrical dots. <i>Physical Review B</i> , 2005 , 71,	3.3	112
470	Newtype single-layer magnetic semiconductor in transition-metal dichalcogenides VX ₂ (X = S, Se and Te). <i>Scientific Reports</i> , 2016 , 6, 32625	4.9	108
469	Transition from single-domain to vortex state in soft magnetic cylindrical nanodots. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 266, 155-163	2.8	105
468	Dynamic and static properties of interacting fine ferromagnetic particles. <i>Journal of Magnetism and Magnetic Materials</i> , 1983 , 40, 1-11	2.8	103
467	Three Dimensional Monte Carlo Simulations of Thick Chainlike Clusters Composed of Ferromagnetic Fine Particles. <i>Journal of Colloid and Interface Science</i> , 1996 , 181, 422-428	9.3	102
466	Micromagnetic modeling of laser-induced magnetization dynamics using the Landau-Lifshitz-Bloch equation. <i>Applied Physics Letters</i> , 2007 , 91, 232507	3.4	101
465	Crystallographically amorphous ferrimagnetic alloys: Comparing a localized atomistic spin model with experiments. <i>Physical Review B</i> , 2011 , 84,	3.3	100
464	Particle cluster configuration in magnetic fluids. <i>Journal Physics D: Applied Physics</i> , 1980 , 13, L119-L122	3	96
463	. <i>IEEE Transactions on Magnetics</i> , 1993 , 29, 2608-2613	2	92
462	Constrained Monte Carlo method and calculation of the temperature dependence of magnetic anisotropy. <i>Physical Review B</i> , 2010 , 82,	3.3	85
461	Equilibrium Monte Carlo simulations of A1□10 ordering in FePt nanoparticles. <i>Scripta Materialia</i> , 2005 , 53, 417-422	5.6	85

460	Two-Dimensional Monte Carlo Simulations to Capture Thick Chainlike Clusters of Ferromagnetic Particles in Colloidal Dispersions. <i>Journal of Colloid and Interface Science</i> , 1996 , 178, 620-627	9.3	83
459	The nature of A1 \times 10 ordering transitions in alloy nanoparticles: A Monte Carlo study. <i>Acta Materialia</i> , 2006 , 54, 4201-4211	8.4	81
458	Thermal fluctuations in a pair of magnetostatically coupled particles. <i>Journal of Applied Physics</i> , 1993 , 73, 6501-6503	2.5	79
457	Magnetic measurement of interaction effects in CoNiCr and CoPtCr thin film media. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 95, 109-117	2.8	77
456	Magnetic viscosity of recording media. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 95, 365-378	2.8	77
455	Quantitative simulation of temperature-dependent magnetization dynamics and equilibrium properties of elemental ferromagnets. <i>Physical Review B</i> , 2015 , 91,	3.3	76
454	Asymmetric Assembling of Iron Oxide Nanocubes for Improving Magnetic Hyperthermia Performance. <i>ACS Nano</i> , 2017 , 11, 12121-12133	16.7	76
453	Multiscale modeling of magnetic materials: Temperature dependence of the exchange stiffness. <i>Physical Review B</i> , 2010 , 82,	3.3	75
452	Susceptibility phenomena in a fine particle system. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 114, 307-313	2.8	72
451	Magnetization reversal via perpendicular exchange spring in FePt/FeRh bilayer films. <i>Physical Review B</i> , 2004 , 70,	3.3	70
450	Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. <i>Spin</i> , 2015 , 05, 1550004	1.3	69
449	Time-dependent magnetization in fine-particle ferromagnetic systems. <i>Journal of Magnetism and Magnetic Materials</i> , 1983 , 38, 133-141	2.8	69
448	Two-magnon bound state causes ultrafast thermally induced magnetisation switching. <i>Scientific Reports</i> , 2013 , 3, 3262	4.9	68
447	Spin dynamics of magnetic nanoparticles: Beyond Brown's theory. <i>Physical Review B</i> , 2005 , 72,	3.3	68
446	A theoretical study of interaction effects on the remanence curves of particulate dispersions. <i>Journal of Magnetism and Magnetic Materials</i> , 1990 , 86, 197-206	2.8	67
445	Rotation of the pinning direction in the exchange bias training effect in polycrystalline NiFe/FeMn bilayers. <i>Physical Review Letters</i> , 2008 , 101, 147207	7.4	65
444	Modelling of interaction effects in fine particle systems. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 157-158, 250-255	2.8	65
443	Ultrafast spin dynamics: the effect of colored noise. <i>Physical Review Letters</i> , 2009 , 102, 057203	7.4	63

442	Ultrafast thermally induced magnetic switching in synthetic ferrimagnets. <i>Applied Physics Letters</i> , 2014 , 104, 082410	3.4	62
441	The sweep rate dependence of coercivity in recording media. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 117, L307-L310	2.8	62
440	The ordering temperature in fine particle systems. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 117, 21-28	2.8	62
439	Temperature-dependent exchange stiffness and domain wall width in Co. <i>Physical Review B</i> , 2016 , 94,	3.3	61
438	The fluctuation field of ferromagnetic materials. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 2623-2643.8		60
437	A method for the numerical simulation of the thermal magnetization fluctuations in micromagnetics. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 8911-8920	1.8	60
436	Properties of barium hexaferrite powders for magnetic recording. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 125, 373-376	2.8	60
435	Activation volumes of reversal in ultrafine particles and recording media. <i>Journal of Magnetism and Magnetic Materials</i> , 1990 , 88, 183-193	2.8	60
434	High Density Heat-Assisted Magnetic Recording Media and Advanced Characterization Progress and Challenges. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-9	2	59
433	The reversible transverse susceptibility of particulate recording media. <i>Journal Physics D: Applied Physics</i> , 1993 , 26, 461-468	3	59
432	The magnetic properties of single-domain particles with cubic anisotropy. I. Hysteresis loops. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 2779-2792	1.8	59
431	Stokesian Dynamics Simulations of Ferromagnetic Colloidal Dispersions in a Simple Shear Flow. <i>Journal of Colloid and Interface Science</i> , 1998 , 203, 233-48	9.3	58
430	The time-dependent magnetic behaviour of fine particle systems. <i>Physica Status Solidi A</i> , 1986 , 97, 213-221		58
429	Magnetic characterization of recording media. <i>Journal Physics D: Applied Physics</i> , 1992 , 25, 1-23	3	57
428	The Curie temperature distribution of FePt granular magnetic recording media. <i>Applied Physics Letters</i> , 2012 , 101, 052406	3.4	56
427	Computational model of the magnetic and transport properties of interacting fine particles. <i>Physical Review B</i> , 2002 , 65,	3.3	56
426	Nonmagnetic shell in surfactant-coated FePt nanoparticles. <i>Journal of Applied Physics</i> , 2004 , 95, 6810-6813		55
425	Brownian Dynamics Simulations of Ferromagnetic Colloidal Dispersions in a Simple Shear Flow. <i>Journal of Colloid and Interface Science</i> , 1999 , 209, 44-59	9.3	53

424	Model of thermally activated magnetization reversal in thin films of amorphous rare-earth-transition-metal alloys. <i>Physical Review B</i> , 1996 , 53, 5493-5504	3.3	53
423	. <i>IEEE Transactions on Magnetics</i> , 1993 , 29, 286-291	2	53
422	The low field susceptibility of a textured superparamagnetic system. <i>Journal of Magnetism and Magnetic Materials</i> , 1985 , 53, 199-207	2.8	52
421	Models of slow relaxation in particulate and thin film materials (invited). <i>Journal of Applied Physics</i> , 1994 , 76, 6407-6412	2.5	51
420	The origin of non-linear $\ln(t)$ behaviour in the time dependence of magnetisation. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 109, L164-L168	2.8	51
419	Rate Dependence of the Field-Cooled Magnetisation of a Fine Particle System. <i>Physica Status Solidi A</i> , 1985 , 91, 619-626		51
418	Incoherent magnetization reversal in 30-nm Ni particles. <i>Physical Review B</i> , 2000 , 62, 14252-14258	3.3	50
417	Theoretical studies of the field-cooled and zero-field cooled magnetization of interacting fine particles. <i>Journal of Applied Physics</i> , 1999 , 85, 4340-4342	2.5	50
416	Thermally induced error: Density limit for magnetic data storage. <i>Applied Physics Letters</i> , 2012 , 100, 102402	3.4	49
415	Linear and elliptical magnetization reversal close to the Curie temperature. <i>Europhysics Letters</i> , 2009 , 86, 27006	1.6	49
414	Model for the easy-axis alignment of chemically synthesized L10 FePt nanoparticles. <i>Applied Physics Letters</i> , 2005 , 87, 202508	3.4	49
413	Parametric optimization for terabit perpendicular recording. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 1876-1890	2	49
412	Simulated annealing: An application in fine particle magnetism. <i>IEEE Transactions on Magnetics</i> , 1985 , 21, 1277-1282	2	49
411	Beyond the blocking model to fit nanoparticle ZFC/FC magnetisation curves. <i>Scientific Reports</i> , 2018 , 8, 11166	4.9	48
410	Ultrafast dynamical path for the switching of a ferrimagnet after femtosecond heating. <i>Physical Review B</i> , 2013 , 87,	3.3	48
409	Influence of interfacial roughness on exchange bias in core-shell nanoparticles. <i>Physical Review B</i> , 2011 , 84,	3.3	48
408	Self-organisation, orientation and magnetic properties of FePt nanoparticle arrays. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 304, 27-31	2.8	48
407	The thermodynamic limits of magnetic recording. <i>Journal of Applied Physics</i> , 2012 , 111, 033909	2.5	47

406	Time dependent magnetization of a system of fine cobalt particles. <i>IEEE Transactions on Magnetics</i> , 1981 , 17, 2943-2945	2	47
405	Atomistic spin model based on a spin-cluster expansion technique: Application to the IrMn ₃ /Co interface. <i>Physical Review B</i> , 2011 , 83,	3-3	46
404	Strain Induced Vortex Core Switching in Planar Magnetostrictive Nanostructures. <i>Physical Review Letters</i> , 2015 , 115, 067202	7-4	44
403	Exchange spring structures and coercivity reduction in FePt/FeRh bilayers: A comparison of multiscale and micromagnetic calculations. <i>Applied Physics Letters</i> , 2005 , 87, 122501	3-4	44
402	Superparamagnetism in fine particle dispersions. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 122, 129-133	2.8	44
401	Time dependence and rate dependence of the coercivity of particulate recording media. <i>Journal Physics D: Applied Physics</i> , 1988 , 21, 1469-1471	3	44
400	Training effect of exchange-bias bilayers within the domain state model. <i>Physical Review B</i> , 2009 , 80,	3-3	43
399	Domain wall properties of FePt: From Bloch to linear walls. <i>Physical Review B</i> , 2008 , 77,	3-3	43
398	Curie-Weiss behavior in ferrofluids. <i>Journal of Magnetism and Magnetic Materials</i> , 1983 , 31-34, 958-960	2.8	43
397	All-optical switching in granular ferromagnets caused by magnetic circular dichroism. <i>Scientific Reports</i> , 2016 , 6, 30522	4-9	43
396	In-plane and out-of-plane uniaxial anisotropies in rectangular arrays of circular dots studied by ferromagnetic resonance. <i>Journal of Applied Physics</i> , 2003 , 93, 8418-8420	2.5	42
395	. <i>IEEE Transactions on Magnetics</i> , 1990 , 26, 1894-1896	2	42
394	Model of the magnetic properties of FePt granular media. <i>Journal of Applied Physics</i> , 2002 , 91, 6866	2.5	41
393	The coefficient of magnetic viscosity. II. The time dependence of the magnetisation of interacting fine-particle magnetic materials. <i>Journal of Physics F: Metal Physics</i> , 1986 , 16, L145-L150		41
392	Fluctuation fields and reversal mechanisms in granular magnetic systems. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 248, 360-373	2.8	39
391	A model of the properties of colloidal dispersions of weakly interacting fine ferromagnetic particles. <i>Journal of Magnetism and Magnetic Materials</i> , 1984 , 43, 166-176	2.8	38
390	Hysteretic behavior of angular dependence of exchange bias in FeNi/FeMn bilayers. <i>Physical Review Letters</i> , 2007 , 99, 057201	7-4	37
389	The effect of interactions on GMR in granular solids. <i>Journal of Applied Physics</i> , 1994 , 76, 6811-6813	2.5	37

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387	Magnetic anisotropy and thermal stability study on FePt nanoparticle assembly. <i>Applied Physics Letters</i> , 2003 , 82, 3475-3477	3.4	36
386	. <i>IEEE Transactions on Magnetics</i> , 1991 , 27, 4666-4668	2	36
385	Time dependent magnetisation in systems with distributed energy barriers. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 123, 30-34	2.8	36
384	The low temperature magnetisation of a system of fine cobalt particles. <i>IEEE Transactions on Magnetics</i> , 1980 , 16, 1077-1079	2	36
383	Energy losses in interacting fine-particle magnetic composites. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 474010	3	35
382	A model of the magnetic properties of coupled ferromagnetic-antiferromagnetic bilayers. <i>Journal of Applied Physics</i> , 2007 , 101, 09E521	2.5	35
381	Laser-induced magnetization switching in films with perpendicular anisotropy: A comparison between measurements and a multi-macrospin model. <i>Physical Review B</i> , 2010 , 81,	3.3	34
380	Atomistic spin model simulation of magnetic reversal modes near the Curie point. <i>Applied Physics Letters</i> , 2010 , 97, 192504	3.4	34
379	Monte Carlo technique with a quantified time step: Application to the motion of magnetic moments. <i>Physical Review B</i> , 2003 , 67,	3.3	34
378	Interparticle interactions in magnetic recording media as obtained from high-order measurements by a Preisach model. <i>Journal of Applied Physics</i> , 2000 , 87, 8645-8652	2.5	34
377	The magnetic properties and stability of a ferrofluid containing Fe ₃ O ₄ particles. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1979 , 97, 57-64		34
376	Magnetic Interaction of Multifunctional Core-Shell Nanoparticles for Highly Effective Theranostics. <i>Advanced Materials</i> , 2018 , 30, e1802444	24	34
375	The Landau-Lifshitz equation in atomistic models. <i>Low Temperature Physics</i> , 2015 , 41, 705-712	0.7	33
374	Magnetic properties of barium hexaferrite powders. <i>Journal of Magnetism and Magnetic Materials</i> , 1994 , 129, 339-347	2.8	33
373	Magnetic viscosity in perpendicular media. <i>Journal of Applied Physics</i> , 1991 , 70, 4431-4438	2.5	33
372	Magnetic nanoparticles and clusters for magnetic hyperthermia: optimizing their heat performance and developing combinatorial therapies to tackle cancer. <i>Chemical Society Reviews</i> , 2021 , 50, 11614-11667	58.5	33
371	Controlling the polarity of the transient ferromagnetic-like state in ferrimagnets. <i>Physical Review B</i> , 2014 , 89,	3.3	32

370	Langevin dynamic simulation of spin waves in a micromagnetic model. <i>Physical Review B</i> , 2002 , 65,	3.3	32
369	. <i>IEEE Transactions on Magnetics</i> , 1992 , 28, 3282-3284	2	32
368	Exploiting Unique Alignment of Cobalt Ferrite Nanoparticles, Mild Hyperthermia, and Controlled Intrinsic Cobalt Toxicity for Cancer Therapy. <i>Advanced Materials</i> , 2020 , 32, e2003712	24	32
367	Focused-ion-beam-fabricated nanoscale magnetoresistive ballistic sensors. <i>Applied Physics Letters</i> , 2005 , 86, 042502	3.4	31
366	Thermal activation in exchange biased bilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 235, 329-336	2.8	31
365	Spin-current-mediated rapid magnon localisation and coalescence after ultrafast optical pumping of ferrimagnetic alloys. <i>Nature Communications</i> , 2019 , 10, 1756	17.4	30
364	Molecular dynamic model of the magnetic properties and microstructure of advanced metal particle dispersions. <i>Journal of Applied Physics</i> , 1997 , 81, 3818-3820	2.5	30
363	Computational approaches to thermally activated fast relaxation. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 1839-1844	2	30
362	Magnetic size determination for interacting fine particle systems. <i>IEEE Transactions on Magnetics</i> , 1984 , 20, 1846-1848	2	30
361	First order reversal curves and intrinsic parameter determination for magnetic materials; limitations of hysteron-based approaches in correlated systems. <i>Scientific Reports</i> , 2017 , 7, 45218	4.9	29
360	Controlling Magnetization Reversal and Hyperthermia Efficiency in Core-Shell Iron-Iron Oxide Magnetic Nanoparticles by Tuning the Interphase Coupling. <i>ACS Applied Nano Materials</i> , 2020 , 3, 4465-4476	5.6	29
359	Temperature-dependent properties of CoFeB/MgO thin films: Experiments versus simulations. <i>Physical Review B</i> , 2018 , 98,	3.3	29
358	Exchange coupling and magnetic anisotropy at Fe/FePt interfaces. <i>Physical Review B</i> , 2013 , 88,	3.3	28
357	On beating the superparamagnetic limit with exchange bias. <i>Europhysics Letters</i> , 2009 , 88, 57004	1.6	28
356	Demagnetised states and activation volumes in thin-film media. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 120, 244-246	2.8	28
355	A Monte Carlo calculation of the magnetic properties of a ferrofluid containing interacting polydispersed particles. <i>Journal of Magnetism and Magnetic Materials</i> , 1986 , 54-57, 745-746	2.8	28
354	Monte Carlo simulations of the structure of magnetic fluid composites. <i>Journal Physics D: Applied Physics</i> , 1986 , 19, 469-476	3	28
353	Determination of the magnetic anisotropy of ferrofluids from torque magnetometry data. <i>Journal of Magnetism and Magnetic Materials</i> , 1983 , 38, 83-92	2.8	28

352	Temperature dependence of the effective anisotropies in magnetic nanoparticles with Néel surface anisotropy. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 474009	3	27
351	Behavior of the antiferromagnetic layer during training in exchange-biased bilayers within the domain state model. <i>Physical Review B</i> , 2010 , 82,	3.3	27
350	Orientation and temperature dependence of domain wall properties in FePt. <i>Applied Physics Letters</i> , 2007 , 90, 082507	3.4	27
349	Brownian dynamics approach to interacting magnetic moments. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 266, 28-35	2.8	27
348	. <i>IEEE Transactions on Magnetism</i> , 1992 , 28, 2689-2691	2	27
347	. <i>IEEE Transactions on Magnetism</i> , 1990 , 26, 244-246	2	27
346	Magnetic filtration of ferrofluids. <i>IEEE Transactions on Magnetism</i> , 1986 , 22, 1134-1136	2	27
345	Higher-order exchange interactions leading to metamagnetism in FeRh. <i>Physical Review B</i> , 2015 , 92,	3.3	25
344	Switching times of nanoscale FePt: Finite size effects on the linear reversal mechanism. <i>Applied Physics Letters</i> , 2015 , 106, 162407	3.4	25
343	A 3-D simulation of a particulate dispersion. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 120, 210-212	2.8	25
342	. <i>IEEE Transactions on Magnetism</i> , 1990 , 26, 222-224	2	25
341	. <i>IEEE Transactions on Magnetism</i> , 1991 , 27, 5061-5063	2	25
340	Conditions for thermally induced all-optical switching in ferrimagnetic alloys: Modeling of TbCo. <i>Physical Review B</i> , 2017 , 96,	3.3	24
339	A model of the temperature dependence of exchange bias in coupled ferromagnetic-antiferromagnetic bilayers. <i>Journal of Applied Physics</i> , 2008 , 103, 07C102	2.5	24
338	High speed switching in magnetic recording media. <i>IEEE Transactions on Magnetism</i> , 1998 , 34, 349-354	2	24
337	Potential curves and orientational distributions of magnetic moments of chainlike clusters composed of secondary particles. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 154, 183-192	2.8	24
336	Nucleation fields in an exchange spring hard magnet. <i>Journal Physics D: Applied Physics</i> , 1993 , 26, 1453-1458	3	24
335	. <i>IEEE Transactions on Magnetism</i> , 1989 , 25, 3650-3652	2	24

334	High energy product in Battenberg structured magnets. <i>Applied Physics Letters</i> , 2014 , 105, 192401	3.4	23
333	Classical spin model of the relaxation dynamics of rare-earth doped permalloy. <i>Physical Review B</i> , 2012 , 86,	3.3	23
332	The influence of shape and structure on the Curie temperature of Fe and Co nanoparticles. <i>Journal of Applied Physics</i> , 2006 , 99, 08G703	2.5	23
331	Stokesian Dynamics Simulations of Ferromagnetic Colloidal Dispersions Subjected to a Sinusoidal Shear Flow. <i>Journal of Colloid and Interface Science</i> , 2000 , 231, 238-246	9.3	23
330	. <i>IEEE Transactions on Magnetics</i> , 1991 , 27, 4769-4771	2	23
329	Zero-field-cooled magnetization and initial susceptibility of magnetic particle systems. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 120, 203-205	2.8	23
328	Perpendicular anisotropy L10-FePt based pseudo spin valve with Ag spacer layer. <i>Applied Physics Letters</i> , 2011 , 98, 132501	3.4	22
327	Application of the dissipative particle dynamics method to magnetic colloidal dispersions. <i>Molecular Physics</i> , 2006 , 104, 3287-3302	1.7	22
326	Initial susceptibility of interacting fine particles. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 118-119	2.8	22
325	On the limits of coercivity in permanent magnets. <i>Applied Physics Letters</i> , 2017 , 111, 072404	3.4	21
324	Mapping motion of antiferromagnetic interfacial uncompensated magnetic moment in exchange-biased bilayers. <i>Scientific Reports</i> , 2015 , 5, 9183	4.9	21
323	Electronic and magnetic properties of bimetallic L10 cuboctahedral clusters by means of fully relativistic density-functional-based calculations. <i>Physical Review B</i> , 2012 , 86,	3.3	21
322	Magnetic anisotropy of FePt: Effect of lattice distortion and chemical disorder. <i>Applied Physics Letters</i> , 2011 , 99, 132501	3.4	21
321	Time dependence and mechanisms of magnetization reversal in TbFeCo films. <i>Journal of Applied Physics</i> , 1996 , 79, 2594-2600	2.5	21
320	. <i>IEEE Transactions on Magnetics</i> , 1988 , 24, 1808-1810	2	21
319	Interaction effects enhancing magnetic particle detection based on magneto-relaxometry. <i>Applied Physics Letters</i> , 2015 , 106, 012407	3.4	20
318	Thermally nucleated magnetic reversal in CoFeB/MgO nanodots. <i>Scientific Reports</i> , 2017 , 7, 16729	4.9	20
317	Optimal electron, phonon, and magnetic characteristics for low energy thermally induced magnetization switching. <i>Applied Physics Letters</i> , 2015 , 107, 192402	3.4	20

316	. <i>IEEE Transactions on Magnetics</i> , 1988 , 24, 1671-1673	2	20
315	Magnetic anisotropy of Fe _{1-x} Y _x Pt-L10 [X = Cr, Mn, Co, Ni, Cu] bulk alloys. <i>Applied Physics Letters</i> , 2014 , 105, 152406	3.4	19
314	Comparison of the effects of regular and irregular physical structure on the magnetic microstructure of longitudinal thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 170, 81-94	2.8	19
313	Bulk and interfacial effects in exchange bias systems. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 1293-1299	3.99	19
312	Thermal field fluctuations in a magnetic tip / implications for magnetic resonance force microscopy. <i>Journal of Applied Physics</i> , 2000 , 87, 6827-6829	2.5	19
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