

R W Chantrell

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.

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	Magnetisation switching dynamics induced by combination of spin transfer torque and spin orbit torque.. <i>Scientific Reports</i> , 2022 , 12, 3380	4.9	2
494	Atomistic origin of the athermal training effect in granular IrMn/CoFe bilayers. <i>Physical Review B</i> , 2021 , 103,	3.3	3
493	First principles and atomistic calculation of the magnetic anisotropy of Y2Fe14B. <i>Journal of Applied Physics</i> , 2021 , 130, 023901	2.5	0
492	Large magnetoresistance in Heusler alloy-based current perpendicular to plane giant magnetoresistance sensors. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 395004	3	4
491	Role of element-specific damping in ultrafast, helicity-independent, all-optical switching dynamics in amorphous (Gd,Tb)Co thin films. <i>Physical Review B</i> , 2021 , 103,	3.3	14
490	Exchange bias in multigranular noncollinear IrMn3/CoFe thin films. <i>Physical Review B</i> , 2021 , 103,	3.3	3
489	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
488	How size, shape and assembly of magnetic nanoparticles give rise to different hyperthermia scenarios. <i>Nanoscale</i> , 2021 , 13, 15631-15646	7.7	8
487	Spin-lattice dynamics model with angular momentum transfer for canonical and microcanonical ensembles. <i>Physical Review B</i> , 2021 , 103,	3.3	6
486	Spin transfer torque switching dynamics in CoFeB/MgO magnetic tunnel junctions. <i>Physical Review B</i> , 2021 , 103,	3.3	4
485	Defect-correlated skyrmions and controllable generation in perpendicularly magnetized CoFeB ultrathin films. <i>Applied Physics Letters</i> , 2021 , 119, 062402	3.4	1
484	Magnetic Properties of Granular L10 FePt Films for Heat-Assisted Magnetic Recording (HAMR) Applications 2021 , 751-770		
483	Disentangling local heat contributions in interacting magnetic nanoparticles. <i>Physical Review B</i> , 2020 , 102,	3.3	5
482	Atomistic origin of exchange anisotropy in noncollinear IrMn3CoFe bilayers. <i>Physical Review B</i> , 2020 , 102,	3.3	4
481	Unveiling the Dynamical Assembly of Magnetic Nanocrystal Zig-Zag Chains via In Situ TEM Imaging in Liquid. <i>Small</i> , 2020 , 16, e1907419	11	2
480	Thermodynamics of interacting magnetic nanoparticles. <i>Physical Review B</i> , 2020 , 101,	3.3	6
479	Atomistic study on the pressure dependence of the melting point of NdFe12. <i>AIP Advances</i> , 2020 , 10, 025130	1.5	1

478	Atomistic simulations of Fe/Nd ₂ Fe ₁₄ B magnetic core/shell nanocomposites with enhanced energy product for high temperature permanent magnet applications. <i>Journal of Applied Physics</i> , 2020 , 127, 133901	2.5	6
477	Phase boundary exchange coupling in the mixed magnetic phase regime of a Pd-doped FeRh epilayer. <i>Physical Review Materials</i> , 2020 , 4,	3.2	6
476	Micromagnetic model of exchange bias: effects of structure and AF easy axis dispersion for IrMn/CoFe bilayers. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 045002	3	3
475	Magnetic stray fields in nanoscale magnetic tunnel junctions. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 044001	3	10
474	Spin wave excitations in exchange biased IrMn/CoFe bilayers. <i>Journal of Applied Physics</i> , 2020 , 128, 033903	3	2
473	Bimeron clusters in chiral antiferromagnets. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	8
472	Magnetic skyrmionium diode with a magnetic anisotropy voltage gating. <i>Applied Physics Letters</i> , 2020 , 117, 202401	3.4	10
471	Model of Magnetic Damping and Anisotropy at Elevated Temperatures: Application to Granular FePt Films. <i>Physical Review Applied</i> , 2020 , 14,	4.3	11
470	The Intracellular Number of Magnetic Nanoparticles Modulates the Apoptotic Death Pathway after Magnetic Hyperthermia Treatment. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43474-43487	9.5	12
469	Opportunities and challenges for spintronics in the microelectronics industry. <i>Nature Electronics</i> , 2020 , 3, 446-459	28.4	160
468	Micromagnetic modeling of the heat-assisted switching process in high anisotropy FePt granular thin films. <i>Journal of Applied Physics</i> , 2020 , 128, 073907	2.5	3
467	Atomistic investigation of the temperature and size dependence of the energy barrier of CoFeB/MgO nanodots. <i>Journal of Applied Physics</i> , 2020 , 128, 073905	2.5	7
466	Magnetization dynamics of granular heat-assisted magnetic recording media by means of a multiscale model. <i>Physical Review B</i> , 2020 , 102,	3.3	1
465	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
464	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
463	The Effect of Interstitial Nitrogen Addition on the Structural Properties of Supercells of NdFe _{12-x} Ti _x . <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-5	2	2
462	Anomalous damping dependence of the switching time in Fe/FePt bilayer recording media. <i>Physical Review B</i> , 2019 , 99,	3.3	3
461	Enhancement of intrinsic magnetic damping in defect-free epitaxial Fe ₃ O ₄ thin films. <i>Applied Physics Letters</i> , 2019 , 114, 192406	3.4	12

460	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
459	Temperature and Thickness Dependence of Statistical Fluctuations of the Gilbert Damping in Co-Fe-B/MgO Bilayers. <i>Physical Review Applied</i> , 2019 , 11,	4.3	8
458	Granular micromagnetic model for perpendicular recording media: quasi-static properties and media characterisation. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 425002	3	3
457	Magnetic anisotropy of the noncollinear antiferromagnet IrMn ₃ . <i>Physical Review B</i> , 2019 , 100,	3.3	12
456	Debye formulas for a relaxing system with memory. <i>Scientific Reports</i> , 2018 , 8, 3271	4.9	4
455	Scaling the effect of the dipolar interactions on the ZFC/FC curves of random nanoparticle assemblies. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 460, 28-33	2.8	7
454	Beyond the blocking model to fit nanoparticle ZFC/FC magnetisation curves. <i>Scientific Reports</i> , 2018 , 8, 11166	4.9	48
453	Roles of heating and helicity in ultrafast all-optical magnetization switching in TbFeCo. <i>Applied Physics Letters</i> , 2018 , 113, 032405	3.4	15
452	A multiscale model of the effect of Ir thickness on the static and dynamic properties of Fe/Ir/Fe films. <i>Scientific Reports</i> , 2018 , 8, 3879	4.9	
451	Temperature-dependent properties of CoFeB/MgO thin films: Experiments versus simulations. <i>Physical Review B</i> , 2018 , 98,	3.3	29
450	Anisotropic magnetic nanoparticles for biomedicine: bridging frequency separated AC-field controlled domains of actuation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 30445-30454	3.6	18
449	Magnetic Interaction of Multifunctional Core-Shell Nanoparticles for Highly Effective Theranostics. <i>Advanced Materials</i> , 2018 , 30, e1802444	24	34
448	. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	9
447	Site-Resolved Contributions to the Magnetic-Anisotropy Energy and Complex Spin Structure of Fe/MgO Sandwiches. <i>Physical Review Applied</i> , 2018 , 9,	4.3	5
446	Surface anisotropy and particle size influence on hysteresis loops in La _{2/3} Ca _{1/3} MnO ₃ nanoparticles: A simulation approach. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 424, 451-458	2.8	4
445	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
444	Hybrid Design for Advanced Magnetic Recording Media: Combining Exchange-Coupled Composite Media with Coupled Granular Continuous Media. <i>Physical Review Applied</i> , 2017 , 8,	4.3	4
443	Manifestation of higher-order inter-granular exchange in magnetic recording media. <i>Applied Physics Letters</i> , 2017 , 111, 082405	3.4	4

442	Multiscale modeling of spin transport across a diffuse interface. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 443, 287-292	2.8	2
441	On the limits of coercivity in permanent magnets. <i>Applied Physics Letters</i> , 2017 , 111, 072404	3.4	21
440	Asymmetric Assembling of Iron Oxide Nanocubes for Improving Magnetic Hyperthermia Performance. <i>ACS Nano</i> , 2017 , 11, 12121-12133	16.7	76
439	Conditions for thermally induced all-optical switching in ferrimagnetic alloys: Modeling of TbCo. <i>Physical Review B</i> , 2017 , 96,	3.3	24
438	Thermally nucleated magnetic reversal in CoFeB/MgO nanodots. <i>Scientific Reports</i> , 2017 , 7, 16729	4.9	20
437	Thermally induced magnetization switching in Gd/Fe multilayers. <i>Physical Review B</i> , 2016 , 93,	3.3	18
436	Dual-pump manipulation of ultrafast demagnetization in TbFeCo. <i>Physical Review B</i> , 2016 , 93,	3.3	11
435	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
434	Effects of interactions on the relaxation processes in magnetic nanostructures. <i>Physical Review B</i> , 2016 , 94,	3.3	6
433	In-plane/out-of-plane disorder influence on the magnetic anisotropy of Fe _{1-x} MnyPt-L10 bulk alloy. <i>Applied Physics Letters</i> , 2016 , 108, 123102	3.4	4
432	First-principles study of the Fe MgO(0 0 1) interface: magnetic anisotropy. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 156003	1.8	8
431	Magnetic Switching in BPM, TEAMR, and Modified TEAMR Using Dielectric Underlayer Media. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-5	2	0
430	Enhanced magnetic properties in ZnCoAlO caused by exchange-coupling to Co nanoparticles. <i>New Journal of Physics</i> , 2016 , 18, 113040	2.9	7
429	All-optical switching in granular ferromagnets caused by magnetic circular dichroism. <i>Scientific Reports</i> , 2016 , 6, 30522	4.9	43
428	Model of advanced recording media: The angular dependence of the coercivity including the effect of exchange interaction. <i>Journal of Applied Physics</i> , 2016 , 119, 063903	2.5	4
427	Consistent energy barrier distributions in magnetic particle chains. <i>Physica B: Condensed Matter</i> , 2016 , 486, 173-176	2.8	3
426	Temperature-dependent exchange stiffness and domain wall width in Co. <i>Physical Review B</i> , 2016 , 94,	3.3	61
425	Distinguishing between heating power and hyperthermic cell-treatment efficacy in magnetic fluid hyperthermia. <i>Soft Matter</i> , 2016 , 12, 8815-8818	3.6	7

424	Model of spin accumulation and spin torque in spatially varying magnetisation structures: limitations of the micromagnetic approach. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 146004	1.8	8
423	Quantitative simulation of temperature-dependent magnetization dynamics and equilibrium properties of elemental ferromagnets. <i>Physical Review B</i> , 2015 , 91,	3.3	76
422	Unified model of hyperthermia via hysteresis heating in systems of interacting magnetic nanoparticles. <i>Scientific Reports</i> , 2015 , 5, 9090	4.9	133
421	Strain Induced Vortex Core Switching in Planar Magnetostrictive Nanostructures. <i>Physical Review Letters</i> , 2015 , 115, 067202	7.4	44
420	Interaction effects enhancing magnetic particle detection based on magneto-relaxometry. <i>Applied Physics Letters</i> , 2015 , 106, 012407	3.4	20
419	Domain wall oscillations induced by spin torque in magnetic nanowires. <i>Journal of Applied Physics</i> , 2015 , 117, 053907	2.5	14
418	Study of perpendicular anisotropy L10-FePt pseudo spin valves using a micromagnetic trilayer model. <i>Journal of Applied Physics</i> , 2015 , 117, 213901	2.5	7
417	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
416	Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. <i>Spin</i> , 2015 , 05, 1550004	1.3	69
415	Influence of uniaxial anisotropy on domain wall motion driven by spin torque. <i>Physical Review B</i> , 2015 , 92,	3.3	5
414	Higher-order exchange interactions leading to metamagnetism in FeRh. <i>Physical Review B</i> , 2015 , 92,	3.3	25
413	The Landau-Lifshitz equation in atomistic models. <i>Low Temperature Physics</i> , 2015 , 41, 705-712	0.7	33
412	The classical two-sublattice Landau-Lifshitz-Bloch equation for all temperatures. <i>Low Temperature Physics</i> , 2015 , 41, 739-744	0.7	14
411	Mapping motion of antiferromagnetic interfacial uncompensated magnetic moment in exchange-biased bilayers. <i>Scientific Reports</i> , 2015 , 5, 9183	4.9	21
410	Optimal electron, phonon, and magnetic characteristics for low energy thermally induced magnetization switching. <i>Applied Physics Letters</i> , 2015 , 107, 192402	3.4	20
409	Interaction potential of FePt with the MgO(001) surface. <i>Physical Review B</i> , 2015 , 91,	3.3	2
408	Switching times of nanoscale FePt: Finite size effects on the linear reversal mechanism. <i>Applied Physics Letters</i> , 2015 , 106, 162407	3.4	25
407	Ultrafast Demagnetization Rates in Two-Component Magnetic Materials. <i>Springer Proceedings in Physics</i> , 2015 , 251-254	0.2	

406	Multiscale Modeling of Ultrafast Magnetization Dynamics. <i>Springer Proceedings in Physics</i> , 2015 , 146-149.	0.2	
405	Ultrafast thermally induced magnetic switching in synthetic ferrimagnets. <i>Applied Physics Letters</i> , 2014 , 104, 082410	3.4	62
404	Atomistic spin model simulations of magnetic nanomaterials. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 103202	1.8	328
403	Interface magnetic moments enhancement of FePt ₁₀ /MgO(001): An ab initio study. <i>Physical Review B</i> , 2014 , 89,	3.3	14
402	Dependence of training effect on the antiferromagnetic structure of exchange-bias bilayers within the domain-state model. <i>Physical Review B</i> , 2014 , 89,	3.3	14
401	High energy product in Battenberg structured magnets. <i>Applied Physics Letters</i> , 2014 , 105, 192401	3.4	23
400	Atomistic calculation of the thickness and temperature dependence of exchange coupling through a dilute magnetic oxide. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 502001	3	4
399	Spin Relaxation in GaAs: Importance of Electron-Electron Interactions. <i>Materials</i> , 2014 , 7, 2795-2814	3.5	8
398	Atomistic modeling of magnetization reversal modes in L10 FePt nanodots with magnetically soft edges. <i>Physical Review B</i> , 2014 , 90,	3.3	12
397	Microscopic model for exchange bias from grain-boundary disorder in a ferromagnet/antiferromagnet thin film with a nanocrystalline microstructure. <i>Applied Physics Letters</i> , 2014 , 105, 032402	3.4	7
396	Controlling the polarity of the transient ferromagneticlike state in ferrimagnets. <i>Physical Review B</i> , 2014 , 89,	3.3	32
395	Role of geometrical symmetry in thermally activated processes in clusters of interacting dipolar moments. <i>Physical Review B</i> , 2014 , 89,	3.3	9
394	Laser Induced Magnetization Reversal for Detection in Optical Interconnects. <i>IEEE Electron Device Letters</i> , 2014 , 35, 1317-1319	4.4	9
393	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
392	Heat-Assisted Magnetization Dynamics in GdFeCo Using Field-Induced TR-MOKE. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	1
391	Exchange coupling and magnetic anisotropy at Fe/FePt interfaces. <i>Physical Review B</i> , 2013 , 88,	3.3	28
390	Surface and interface effects in magnetic core-shell nanoparticles. <i>MRS Bulletin</i> , 2013 , 38, 909-914	3.2	18
389	Effects of composition and chemical disorder on the magnetocrystalline anisotropy of Fe x Pt 1-x alloys. <i>Europhysics Letters</i> , 2013 , 102, 57004	1.6	8

388	Modeling spin injection across diffuse interfaces. <i>Physical Review B</i> , 2013 , 87,	3.3	7
387	Ultrafast dynamical path for the switching of a ferrimagnet after femtosecond heating. <i>Physical Review B</i> , 2013 , 87,	3.3	48
386	Effect of stacking faults on the magnetocrystalline anisotropy of hcp Co: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 296006	1.8	8
385	Two-magnon bound state causes ultrafast thermally induced magnetisation switching. <i>Scientific Reports</i> , 2013 , 3, 3262	4.9	68
384	Rationalisation of distribution functions for models of nanoparticle magnetism. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 2593-2595	2.8	10
383	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
382	Stochastic form of the Landau-Lifshitz-Bloch equation. <i>Physical Review B</i> , 2012 , 85,	3.3	124
381	Ultrafast heating as a sufficient stimulus for magnetization reversal in a ferrimagnet. <i>Nature Communications</i> , 2012 , 3, 666	17.4	454
380	Thermally induced error: Density limit for magnetic data storage. <i>Applied Physics Letters</i> , 2012 , 100, 102402	3.4	49
379	The effect of a Pt impurity layer on the magnetocrystalline anisotropy of hexagonal close-packed Co: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 406001	1.8	1
378	Distribution of switching fields in magnetic granular materials. <i>Applied Physics Letters</i> , 2012 , 101, 182405	3.4	8
377	Temperature Dependence of All-Optical Ultrafast Magnetization Switching in TbFeCo. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3387-3389	2	10
376	The Curie temperature distribution of FePt granular magnetic recording media. <i>Applied Physics Letters</i> , 2012 , 101, 052406	3.4	56
375	All-optical magnetization reversal by circularly polarized laser pulses: Experiment and multiscale modeling. <i>Physical Review B</i> , 2012 , 85,	3.3	167
374	Classical spin model of the relaxation dynamics of rare-earth doped permalloy. <i>Physical Review B</i> , 2012 , 86,	3.3	23
373	Ultrafast magnetism as seen by x-rays 2012 ,		3
372	The thermodynamic limits of magnetic recording. <i>Journal of Applied Physics</i> , 2012 , 111, 033909	2.5	47
371	Torque approach for tuning exchange bias training effect in polycrystalline NiFe/FeMn bilayers. <i>Applied Physics Letters</i> , 2011 , 98, 122507	3.4	15

370	Influence of interfacial roughness on exchange bias in core-shell nanoparticles. <i>Physical Review B</i> , 2011 , 84,	3.3	48
369	Crystallographically amorphous ferrimagnetic alloys: Comparing a localized atomistic spin model with experiments. <i>Physical Review B</i> , 2011 , 84,	3.3	100
368	Damping in magnetization dynamics of single-crystal Fe ₃ O ₄ /GaN thin films. <i>Journal of Applied Physics</i> , 2011 , 109, 07D341	2.5	11
367	Application of the Lattice Boltzmann Method to Many Particle Dispersions. <i>Journal of Fluid Science and Technology</i> , 2011 , 6, 114-127	0.4	4
366	Transient ferromagnetic-like state mediating ultrafast reversal of antiferromagnetically coupled spins. <i>Nature</i> , 2011 , 472, 205-8	50.4	641
365	Atomistic Modeling of the Interlayer Coupling Behavior in Perpendicularly Magnetized $L1_{00}$ -FePt/Ag/ $L1_{00}$ -FePt Pseudo Spin Valves. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 2646-2648	3	3
364	Dipolar Interactions in Superparamagnetic Nano-Granular Magnetic Systems. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 3362-3365	2	2
363	Composition-controlled exchange bias training effect in FeCr/IrMn bilayers. <i>European Physical Journal B</i> , 2011 , 84, 173-176	1.2	3
362	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
361	Magnetic anisotropy of FePt: Effect of lattice distortion and chemical disorder. <i>Applied Physics Letters</i> , 2011 , 99, 132501	3.4	21
360	Distributions of dipolar interaction fields in nano-granular magnetic systems. <i>Journal of Applied Physics</i> , 2011 , 110, 023902	2.5	8
359	Dynamics of domain wall driven by spin-transfer torque. <i>Physical Review B</i> , 2011 , 83,	3.3	15
358	Cluster size and exchange dispersion in perpendicular magnetic media. <i>Journal of Applied Physics</i> , 2011 , 109, 123907	2.5	14
357	Perpendicular anisotropy L10-FePt based pseudo spin valve with Ag spacer layer. <i>Applied Physics Letters</i> , 2011 , 98, 132501	3.4	22
356	Micromagnetic modelling of L10-FePt/Ag/L10-FePt pseudo spin valves. <i>Applied Physics Letters</i> , 2011 , 99, 162503	3.4	3
355	Control of the exchange coupling in granular CoPt/Co recording media. <i>Journal of Applied Physics</i> , 2011 , 109, 07B752	2.5	5
354	Magnetic orientation in advanced recording media. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 455002	3	6
353	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

352	Energy losses in interacting fine-particle magnetic composites. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 474010	3	35
351	Rate-dependence of the switching field distribution in nanoscale granular magnetic materials. <i>Applied Physics Letters</i> , 2010 , 97, 062504	3-4	16
350	Multiscale modeling of magnetic materials: Temperature dependence of the exchange stiffness. <i>Physical Review B</i> , 2010 , 82,	3-3	75
349	Damping dependence of the reversal time of the magnetization of single-domain ferromagnetic particles for the NÉl-Brown model: Langevin dynamics simulations versus analytic results. <i>Physical Review B</i> , 2010 , 82,	3-3	17
348	Constrained Monte Carlo method and calculation of the temperature dependence of magnetic anisotropy. <i>Physical Review B</i> , 2010 , 82,	3-3	85
347	Validation of $\mathbb{H}(M, \mathbb{M})$ -technique for identification of switching field distributions in the presence of thermal relaxation. <i>Journal of Applied Physics</i> , 2010 , 108, 123901	2-5	9
346	Temperature dependence of the effective anisotropies in magnetic nanoparticles with NÉl surface anisotropy. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 474009	3	27
345	Atomistic spin model simulation of magnetic reversal modes near the Curie point. <i>Applied Physics Letters</i> , 2010 , 97, 192504	3-4	34
344	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
343	A model of the exchange bias setting process in magnetic read sensors. <i>Applied Physics Letters</i> , 2009 , 95, 022504	3-4	8
342	Training effect of exchange-bias bilayers within the domain state model. <i>Physical Review B</i> , 2009 , 80,	3-3	43
341	Asymmetric recovery effect of exchange bias in polycrystalline NiFe/FeMn bilayers. <i>Journal of Applied Physics</i> , 2009 , 106, 063903	2-5	10
340	Coercive field and energy barriers in partially disordered FePt nanoparticles. <i>Journal of Applied Physics</i> , 2009 , 105, 07B514	2-5	5
339	Magnetic and structural properties of laminated Co ₆₅ Fe ₃₅ films. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 996-1000	2-8	5
338	Exchange bias, training effect, hysteretic behavior of angular dependence, and rotational hysteresis loss in NiFe/FeMn bilayer: Effect of antiferromagnet layer thickness. <i>Journal of Applied Physics</i> , 2009 , 105, 053913	2-5	18
337	On beating the superparamagnetic limit with exchange bias. <i>Europhysics Letters</i> , 2009 , 88, 57004	1-6	28
336	Ultrafast spin dynamics: the effect of colored noise. <i>Physical Review Letters</i> , 2009 , 102, 057203	7-4	63
335	Ultrafast path for optical magnetization reversal via a strongly nonequilibrium state. <i>Physical Review Letters</i> , 2009 , 103, 117201	7-4	309

334	Linear and elliptical magnetization reversal close to the Curie temperature. <i>Europhysics Letters</i> , 2009 , 86, 27006	1.6	49
333	Basic Study on the Lattice Boltzmann Method for Application to Many Particle Dispersions : A Uniform Flow Past a Two-Dimensional Circular Particle(Fluids Engineering). <i>880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen</i> , 2009 , 75, 1734-1741		1
332	Application of the Lattice Boltzmann Method to Many Particle Dispersions(Fluids Engineering). <i>880-02 Nihon Kikai Gakkai Ronbunshu Transactions of the Japan Society of Mechanical Engineers Series B B-hen</i> , 2009 , 75, 2011-2018		3
331	Slow recovery of the magnetisation after a sub-picosecond heat pulse. <i>Europhysics Letters</i> , 2008 , 81, 27004	1.6	116
330	Switching and thermal stability properties of bilayer thin films: Single versus multigrain cases. <i>Journal of Applied Physics</i> , 2008 , 103, 07F505	2.5	10
329	Towards multiscale modeling of magnetic materials: Simulations of FePt. <i>Physical Review B</i> , 2008 , 77,	3.3	164
328	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
327	Picosecond Magnetization Dynamics of Single-Crystal Fe ₃ O ₄ Thin Films. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2970-2973	2	8
326	Domain wall properties of FePt: From Bloch to linear walls. <i>Physical Review B</i> , 2008 , 77,	3.3	43
325	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
324	Hysteretic behavior of angular dependence of exchange bias in FeNi/FeMn bilayers: A new signature. <i>Journal of Applied Physics</i> , 2008 , 103, 07E926	2.5	3
323	Influence of perpendicular external magnetic field on microstructures of monolayer composed of ferromagnetic particles: analysis by means of quasi-two-dimensional Monte Carlo simulation. <i>Journal of Colloid and Interface Science</i> , 2008 , 323, 158-68	9.3	3
322	Thermal stability and the magnetization process in CoCrPt/BiO ₂ perpendicular recording media. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, 3041-3045	2.8	18
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