

Thomas Schrefl

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.

346
papers

9,501
citations

49
h-index

84
g-index

369
ext. papers

10,311
ext. citations

3.2
avg, IF

5.97
L-index

#	Paper	IF	Citations
346	First-principles Calculations of Magnetic Properties for Analysis of Magnetization Processes in Rare-earth Permanent Magnets. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2022 , 69, S118-S125	0.2	0
345	Proposal for a micromagnetic standard problem: Domain wall pinning at phase boundaries. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 548, 168875	2.8	0
344	Magnetostatics and micromagnetics with physics informed neural networks. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 548, 168951	2.8	4
343	Conditional physics informed neural networks. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022 , 104, 106041	3.7	1
342	Micromagnetism 2021 , 347-390		0
341	Insights into MnAl-C nano-twin defects by micromagnetic characterization. <i>Journal of Applied Physics</i> , 2021 , 129, 093902	2.5	2
340	First principles and atomistic calculation of the magnetic anisotropy of Y2Fe14B. <i>Journal of Applied Physics</i> , 2021 , 130, 023901	2.5	0
339	Microstructure Role in Permanent Magnet Eddy Current Losses. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	0
338	Machine learning methods for the prediction of micromagnetic magnetization dynamics. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	1
337	Micromagnetism 2021 , 1-44		0
336	Twins [A weak link in the magnetic hardening of ThMn12-type permanent magnets. <i>Acta Materialia</i> , 2021 , 214, 116968	8.4	11
335	First-principles calculations of magnetic properties for analysis of magnetization processes in rare-earth permanent magnets. <i>Science and Technology of Advanced Materials</i> , 2021 , 22, 748-757	7.1	2
334	Prediction of magnetization dynamics in a reduced dimensional feature space setting utilizing a low-rank kernel method. <i>Journal of Computational Physics</i> , 2021 , 444, 110586	4.1	1
333	Learning time-stepping by nonlinear dimensionality reduction to predict magnetization dynamics. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 84, 105205	3.7	6
332	Atomistic study on the pressure dependence of the melting point of NdFe12. <i>AIP Advances</i> , 2020 , 10, 025130	1.5	1
331	Atomistic simulations of $\text{Fe}/\text{Nd}_2\text{Fe}_{14}\text{B}$ 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
330	Relationship between the thermal stability of coercivity and the aspect ratio of grains in Nd-Fe-B magnets: Experimental and numerical approaches. <i>Acta Materialia</i> , 2020 , 183, 408-417	8.4	16

329	Computational Design of Rare-Earth Reduced Permanent Magnets. <i>Engineering</i> , 2020 , 6, 148-153	9.7	9
328	Nanocrystalline Sm-based 1:12 magnets. <i>Acta Materialia</i> , 2020 , 200, 652-658	8.4	10
327	Extracting local nucleation fields in permanent magnets using machine learning. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	12
326	Tuning the magnetocrystalline anisotropy of Fe ₃ Sn by alloying. <i>Physical Review B</i> , 2019 , 99,	3.3	12
325	Database of novel magnetic materials for high-performance permanent magnet development. <i>Computational Materials Science</i> , 2019 , 168, 188-202	3.2	21
324	Development of high coercivity anisotropic Nd-Fe-B/Fe nanocomposite powder using hydrogenation disproportionation desorption recombination process. <i>Acta Materialia</i> , 2019 , 175, 276-285	8.4	12
323	Automated meshing of electron backscatter diffraction data and application to finite element micromagnetics. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 486, 165256	2.8	3
322	Learning magnetization dynamics. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 491, 165548	2.8	10
321	Anisotropic, single-crystalline SmFe ₁₂ -based microparticles with high roundness fabricated by jet-milling. <i>Journal of Alloys and Compounds</i> , 2019 , 804, 155-162	5.7	30
320	Influence of antiphase boundary of the MnAl phase on the energy product. <i>Physical Review Materials</i> , 2019 , 3,	3.2	1
319	Magnetization reversal process of anisotropic hot-deformed magnets observed by magneto-optical Kerr effect microscopy. <i>Journal of Alloys and Compounds</i> , 2019 , 771, 51-59	5.7	12
318	Preconditioned nonlinear conjugate gradient method for micromagnetic energy minimization. <i>Computer Physics Communications</i> , 2019 , 235, 179-186	4.2	13
317	Multiscale model approaches to the design of advanced permanent magnets. <i>Scripta Materialia</i> , 2018 , 148, 56-62	5.6	24
316	Magnetically actuated circular displacement micropump. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 95, 3575-3588	3.2	3
315	Cell Damage Index as Computational Indicator for Blood Cell Activation and Damage. <i>Artificial Organs</i> , 2018 , 42, 746-755	2.6	9
314	Micromagnetics of rare-earth efficient permanent magnets. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 193002	3	48
313	Simulation of magnetic particles in microfluidic channels. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 446, 185-191	2.8	9
312	Microstructure of a Dy-free Nd-Fe-B sintered magnet with 2 T coercivity. <i>Acta Materialia</i> , 2018 , 156, 146-157	8.57	33

311	Reprint of Multiscale model approaches to the design of advanced permanent magnets. <i>Scripta Materialia</i> , 2018 , 154, 266-272	5.6	1
310	Topologically protected vortex structures for low-noise magnetic sensors with high linear range. <i>Nature Electronics</i> , 2018 , 1, 362-370	28.4	48
309	Magnetic properties of artificially designed magnetic stray field landscapes in laterally confined exchange-bias layers. <i>Nanotechnology</i> , 2018 , 29, 355708	3.4	6
308	Searching the weakest link: Demagnetizing fields and magnetization reversal in permanent magnets. <i>Scripta Materialia</i> , 2018 , 154, 253-258	5.6	15
307	Coercivity enhancement of hot-deformed Ce-Fe-B magnets by grain boundary infiltration of Nd-Cu eutectic alloy. <i>Acta Materialia</i> , 2018 , 144, 884-895	8.4	62
306	Magnetic microstructure machine learning analysis. <i>JPhys Materials</i> , 2018 ,	4.2	9
305	. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	9
304	Coercivity and its thermal stability of Nd Fe B hot-deformed magnets enhanced by the eutectic grain boundary diffusion process. <i>Acta Materialia</i> , 2018 , 161, 171-181	8.4	58
303	Vortex motion in amorphous ferrimagnetic thin film elements. <i>AIP Advances</i> , 2017 , 7, 056001	1.5	3
302	Role of twin and anti-phase defects in MnAl permanent magnets. <i>Acta Materialia</i> , 2017 , 131, 48-56	8.4	41
301	Magnetization reversal of exchange-coupled and exchange-decoupled Nd-Fe-B magnets observed by magneto-optical Kerr effect microscopy. <i>Acta Materialia</i> , 2017 , 135, 68-76	8.4	69
300	Nonlinear conjugate gradient methods in micromagnetics. <i>AIP Advances</i> , 2017 , 7, 045310	1.5	30
299	The extrapolated explicit midpoint scheme for variable order and step size controlled integration of the Landau-Lifschitz-Gilbert equation. <i>Journal of Computational Physics</i> , 2017 , 346, 14-24	4.1	5
298	Correlation of microchemistry of cell boundary phase and interface structure to the coercivity of Sm(Co _{0.784} Fe _{0.100} Cu _{0.088} Zr _{0.028}) _{7.19} sintered magnets. <i>Acta Materialia</i> , 2017 , 126, 1-10	8.4	89
297	A Combined TEM/STEM and Micromagnetic Study of the Anisotropic Nature of Grain Boundaries and Coercivity in Nd-Fe-B Magnets. <i>Advances in Materials Science and Engineering</i> , 2017 , 2017, 1-12	1.5	10
296	Soft Magnetic Properties of Thin Nanocrystalline Particles Due to the Interplay of Random and Coherent Anisotropies. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-6	2	2
295	On the limits of coercivity in permanent magnets. <i>Applied Physics Letters</i> , 2017 , 111, 072404	3.4	21
294	Atomistic spin dynamics simulations of the MnAl phase and its antiphase boundary. <i>Physical Review B</i> , 2017 , 96,	3.3	14

293	Effective uniaxial anisotropy in easy-plane materials through nanostructuring. <i>Applied Physics Letters</i> , 2017 , 111, 192407	3.4	5
292	Transition Jitter in Heat-Assisted Magnetic Recording by Micromagnetic Simulation. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	5
291	Micromagnetic Simulations for Coercivity Improvement Through Nano-Structuring of Rare-Earth-Free L10-FeNi Magnets. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	8
290	Magnetization reversal of FePt based exchange coupled composite media. <i>Acta Materialia</i> , 2016 , 111, 47-55	8.4	15
289	Sensing Platform for Computational and Experimental Analysis of Blood Cell Mechanical Stress and Activation in Microfluidics. <i>Procedia Engineering</i> , 2016 , 168, 1390-1393		4
288	Numerical optimization of writer and media for bit patterned magnetic recording. <i>Journal of Applied Physics</i> , 2016 , 120, 013902	2.5	6
287	Reduction of critical current density for out-of-plane mode oscillation in a mag-flip spin torque oscillator using highly spin-polarized Co ₂ Fe(Ga _{0.5} Ge _{0.5}) spin injection layer. <i>Applied Physics Letters</i> , 2016 , 108, 072403	3.4	19
286	Switching field distribution of exchange coupled ferri-/ferromagnetic composite bit patterned media. <i>Journal of Applied Physics</i> , 2016 , 120, 093904	2.5	4
285	Micromagnetic simulation of exchange coupled ferri-/ferromagnetic heterostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 381, 28-33	2.8	18
284	Replacement and Original Magnet Engineering Options (ROMEOS): A European Seventh Framework Project to Develop Advanced Permanent Magnets Without, or with Reduced Use of, Critical Raw Materials. <i>Jom</i> , 2015 , 67, 1306-1317	2.1	28
283	Effect of MgO underlayer misorientation on the texture and magnetic property of FePt ₃ granular film. <i>Acta Materialia</i> , 2015 , 91, 41-49	8.4	43
282	Thermal Activation in Permanent Magnets. <i>Jom</i> , 2015 , 67, 1350-1356	2.1	26
281	Preparation, Characterization, and Modeling of Ultrahigh Coercivity Sm ₂ Co Thin Films. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500009	6.4	20
280	Micromagnetic simulation of exchange coupled ferri-/ferromagnetic composite in bit patterned media. <i>Journal of Applied Physics</i> , 2015 , 117, 17E501	2.5	10
279	Microstructure and temperature dependent of coercivity of hot-deformed Nd ₂ Fe ₁₄ B magnets diffusion processed with Pr ₂ Ti alloy. <i>Acta Materialia</i> , 2015 , 99, 297-306	8.4	103
278	Thermally activated coercivity in core-shell permanent magnets. <i>Journal of Applied Physics</i> , 2015 , 117, 17A733	2.5	50
277	Dynamics of magnetic particles in microfluidic channels 2015 ,		2
276	Grain size dependence of coercivity of hot-deformed Nd ₂ Fe ₁₄ B anisotropic magnets. <i>Acta Materialia</i> , 2015 , 82, 336-343	8.4	131

275	Numerical optimization of writer geometries for bit patterned magnetic recording. <i>Journal of Applied Physics</i> , 2014 , 115, 17B704	2.5	2
274	Impact of different Nd-rich crystal-phases on the coercivity of NdFeB grain ensembles. <i>Scripta Materialia</i> , 2014 , 70, 35-38	5.6	61
273	Ultra-fast magnetic vortex core reversal by a local field pulse. <i>Applied Physics Letters</i> , 2014 , 104, 052414	3.4	19
272	Non-uniform FFT for the finite element computation of the micromagnetic scalar potential. <i>Journal of Computational Physics</i> , 2014 , 270, 490-505	4.1	9
271	Micromagnetics of shape anisotropy based permanent magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 363, 121-124	2.8	24
270	FFT-based Kronecker product approximation to micromagnetic long-range interactions. <i>Mathematical Models and Methods in Applied Sciences</i> , 2014 , 24, 1877-1901	3.5	7
269	Micromagnetic finite element simulation of nanocrystalline Fe/Nd ₂ Fe ₁₄ B/Fe ₃ B magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 365, 45-50	2.8	17
268	LaBonteB method revisited: An effective steepest descent method for micromagnetic energy minimization. <i>Journal of Applied Physics</i> , 2014 , 115, 17D118	2.5	49
267	Micromagnetic simulations on the grain size dependence of coercivity in anisotropic NdFeB sintered magnets. <i>Scripta Materialia</i> , 2014 , 89, 29-32	5.6	130
266	Modeling of Nd-Oxide Grain Boundary Phases in Nd-Fe-B Sintered Magnets. <i>Jom</i> , 2014 , 66, 1138-1143	2.1	15
265	Guided self-assembly of magnetic beads for biomedical applications. <i>Physica B: Condensed Matter</i> , 2014 , 435, 21-24	2.8	6
264	High energy product in Battenberg structured magnets. <i>Applied Physics Letters</i> , 2014 , 105, 192401	3.4	23
263	Grain-size dependent demagnetizing factors in permanent magnets. <i>Journal of Applied Physics</i> , 2014 , 116, 233903	2.5	59
262	Influence of defect thickness on the angular dependence of coercivity in rare-earth permanent magnets. <i>Applied Physics Letters</i> , 2014 , 104, 182408	3.4	44
261	Influence of thermal energy on exchange-bias studied by finite-element simulations. <i>Applied Physics Letters</i> , 2013 , 103, 042410	3.4	1
260	High-coercivity ultrafine-grained anisotropic NdFeB magnets processed by hot deformation and the Nd-Tu grain boundary diffusion process. <i>Acta Materialia</i> , 2013 , 61, 6622-6634	8.4	209
259	Enhanced nucleation fields due to dipolar interactions in nanocomposite magnets. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	0
258	Modelling interfacial coupling in thin film magnetic exchange springs at finite temperature. <i>Journal of Applied Physics</i> , 2013 , 114, 153908	2.5	4

257	Effect of Nd content on the microstructure and coercivity of hot-deformed NdFeB permanent magnets. <i>Acta Materialia</i> , 2013 , 61, 5387-5399	8.4	154
256	Numerical methods for the stray-field calculation: A comparison of recently developed algorithms. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 326, 176-185	2.8	44
255	Grain boundaries in granular materials: A fundamental limit for thermal stability. <i>Applied Physics Letters</i> , 2013 , 102, 142402	3.4	8
254	Breaking the thermally induced write error in heat assisted recording by using low and high Tc materials. <i>Applied Physics Letters</i> , 2013 , 102, 162405	3.4	29
253	Simulation of magnetic active polymers for versatile microfluidic devices. <i>EPJ Web of Conferences</i> , 2013 , 40, 02001	0.3	4
252	Mechanical Oscillations of Magnetic Strips under the Influence of External Field. <i>EPJ Web of Conferences</i> , 2013 , 40, 13004	0.3	
251	Fast stray field computation on tensor grids. <i>Journal of Computational Physics</i> , 2012 , 231, 2840-2850	4.1	21
250	Head and bit patterned media optimization at areal densities of 2.5Tbit/in ² and beyond. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 269-275	2.8	6
249	Self-organizing magnetic beads for biomedical applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 977-982	2.8	10
248	Realization of the manipulation of ultracold atoms with a reconfigurable nanomagnetic system of domain walls. <i>Nano Letters</i> , 2012 , 12, 4065-9	11.5	22
247	Direct calculation of the attempt frequency of magnetic structures using the finite element method. <i>Journal of Applied Physics</i> , 2012 , 111, 093917	2.5	26
246	Modelling and simulation of processes in microfluidic devices for biomedical applications. <i>Computers and Mathematics With Applications</i> , 2012 , 64, 278-288	2.7	50
245	A simple model for calculating magnetic nanowire domain wall fringing fields. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 095002	3	6
244	Stochastic switching asymmetry in magnetoresistive stacks due to adjacent nanowire stray field. <i>Applied Physics Letters</i> , 2012 , 101, 262404	3.4	4
243	Transverse and vortex domain wall structure in magnetic nanowires with uniaxial in-plane anisotropy. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 024205	1.8	20
242	Understanding the microstructure and coercivity of high performance NdFeB-based magnets. <i>Scripta Materialia</i> , 2012 , 67, 536-541	5.6	158
241	Spin dynamics of magnetic nanostructures investigated by micromagnetic simulations. <i>Applied Physics Letters</i> , 2012 , 100, 242402	3.4	7
240	First order reversal curve studies of permanent magnets. <i>Journal of Applied Physics</i> , 2012 , 111, 07A728	2.5	39

239	Magnetic Vortex Core Oscillations in Multi Point Contact Spin Valve Stacks. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 3811-3813	2	4
238	The formation mechanism of 360° domain walls in exchange-biased polycrystalline ferromagnetic films. <i>Journal of Applied Physics</i> , 2011 , 110, 073901	2.5	5
237	Calculation of coercivity of magnetic nanostructures at finite temperatures. <i>Physical Review B</i> , 2011 , 84,	3.3	22
236	Exchange-bias in amorphous ferromagnetic and polycrystalline antiferromagnetic bilayers: Structural study and micromagnetic modeling. <i>Journal of Applied Physics</i> , 2011 , 109, 083924	2.5	10
235	Remote domain wall chirality measurement via stray field detection. <i>Journal of Applied Physics</i> , 2011 , 110, 123912	2.5	6
234	Correlation of magnetic anisotropy distributions in layered exchange coupled composite bit patterned media. <i>Journal of Applied Physics</i> , 2011 , 109, 103901	2.5	6
233	Nanomagnetic engineering of the properties of domain wall atom traps. <i>Journal of Applied Physics</i> , 2011 , 110, 123918	2.5	7
232	Magnetic domain structure and magnetization reversal in amorphous microwires with circular anisotropy: A micromagnetic approach. <i>Journal of Applied Physics</i> , 2011 , 109, 013902	2.5	3
231	Stress-based control of magnetic nanowire domain walls in artificial multiferroic systems. <i>Journal of Applied Physics</i> , 2011 , 109, 023915	2.5	44
230	Investigation of the magnetization reversal of a magnetic dot array of Co/Pt multilayers. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 5587-5593	2.3	5
229	Technologien zur Isolation im Blut zirkulierender Tumorzellen. <i>BioSpektrum</i> , 2011 , 17, 655-658	0.1	
228	Micromagnetic simulation of ferromagnetic resonance of perpendicular granular media: Influence of the intergranular exchange on the Landau-Lifshitz-Gilbert damping constant. <i>Journal of Magnetism and Magnetic Materials</i> , 2011 , 323, 432-434	2.8	4
227	Micromagnetic study of magnetic domain structure and magnetization reversal in amorphous wires with circular anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2011 , 323, 1134-1139	2.8	6
226	Angle dependence of the switching field of recording media at finite temperatures. <i>Journal of Applied Physics</i> , 2011 , 110, 103906	2.5	11
225	Inter/intra granular exchange and thermal activation in nanoscale granular magnetic materials. <i>Applied Physics Letters</i> , 2011 , 99, 132507	3.4	9
224	Design and characterization of a field-switchable nanomagnetic atom mirror. <i>Journal of Applied Physics</i> , 2010 , 108, 043906	2.5	6
223	Magnetic hedgehog-like nanostructures. <i>Applied Physics Letters</i> , 2010 , 97, 102508	3.4	4
222	Magnetization reversal of bit patterned media: Role of the angular orientation of the magnetic anisotropy axes. <i>Journal of Applied Physics</i> , 2010 , 108, 013906	2.5	5

221	Microscopic reversal behavior of magnetically capped nanospheres. <i>Physical Review B</i> , 2010 , 81,	3.3	38
220	Magnetic properties of granular CoCrPt:SiO ₂ films as tailored by Co ⁺ irradiation. <i>Journal of Applied Physics</i> , 2010 , 107, 093915	2.5	5
219	Influence of oscillation modes on the line width of rf emissions in MgO based nanopillars. <i>Journal of Applied Physics</i> , 2010 , 108, 023917	2.5	
218	Theory and micromagnetics of pinning mechanism at cylindrical defects in perpendicular magnetic films. <i>Journal of Applied Physics</i> , 2010 , 107, 113926	2.5	6
217	The incorporation of the Cauchy stress matrix tensor in micromagnetic simulations. <i>Journal of Applied Physics</i> , 2010 , 108, 073903	2.5	12
216	Exchange bias interactions in polycrystalline/amorphous bilayers. <i>Applied Physics Letters</i> , 2010 , 96, 072504	3.4	7
215	Exchange coupled composite bit patterned media. <i>Applied Physics Letters</i> , 2010 , 97, 082501	3.4	33
214	The effect of trapping superparamagnetic beads on domain wall motion. <i>Applied Physics Letters</i> , 2010 , 96, 192503	3.4	25
213	Switchable Cell Trapping Using Superparamagnetic Beads. <i>IEEE Magnetics Letters</i> , 2010 , 1, 1500104-1500104	0.5	27
212	Comparison of Exchange-Bias Using Epitaxial and Polycrystalline Ir _{0.2} Mn _{0.8} Antiferromagnetic Thin Films: a TEM and Lorentz TEM Study. <i>Microscopy and Microanalysis</i> , 2010 , 16, 1914-1915	0.5	
211	The role of local anisotropy profiles at grain boundaries on the coercivity of Nd ₂ Fe ₁₄ B magnets. <i>Applied Physics Letters</i> , 2010 , 97, 232511	3.4	97
210	Validation of the transition state theory with Langevin-dynamics simulations. <i>Journal of Applied Physics</i> , 2010 , 108, 033915	2.5	13
209	Transverse Field-Induced Nucleation Pad Switching Modes During Domain Wall Injection. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 963-967	2	11
208	Graded Media Design for Area Density of Up to 2.5 Tb/in ² . <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1866-1868	2	4
207	Dependence of Transverse Domain Wall Dynamics on Permalloy Nanowire Dimensions. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1135-1138	2	18
206	Kronecker product approximation of demagnetizing tensors for micromagnetics. <i>Journal of Computational Physics</i> , 2010 , 229, 2544-2549	4.1	10
205	Magnetization reversal processes of single nanomagnets and their energy barrier. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 3771-3776	2.8	17
204	Modeling of the write and read back performances of hexagonal Ba-ferrite particulate media for high density tape recording. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 3869-3875	2.8	6

203	Time-resolved zero field vortex oscillations in point contacts. <i>Applied Physics Letters</i> , 2009 , 95, 012507	3.4	46
202	Microwave assisted magnetization reversal in composite media. <i>Applied Physics Letters</i> , 2009 , 94, 202509	3.4	35
201	Control of the switching behavior of ferromagnetic nanowires using magnetostatic interactions. <i>Journal of Applied Physics</i> , 2009 , 105, 083901	2.5	10
200	Microwave-assisted three-dimensional multilayer magnetic recording. <i>Applied Physics Letters</i> , 2009 , 94, 232501	3.4	45
199	Auto-oscillation threshold and line narrowing in MgO-based spin-torque oscillators. <i>Europhysics Letters</i> , 2009 , 87, 57001	1.6	16
198	Agility of vortex-based nanocontact spin torque oscillators. <i>Applied Physics Letters</i> , 2009 , 95, 192507	3.4	53
197	Grain geometry induced reversal behaviour alteration. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 045005		
196	Increases in effective head field gradients in exchange spring media. <i>Applied Physics Letters</i> , 2009 , 95, 172509	3.4	4
195	Effect of the anisotropy distribution on the coercive field and switching field distribution of bit patterned media. <i>Journal of Applied Physics</i> , 2009 , 106, 103913	2.5	23
194	Contribution of Convex Surfaces to Magnetostatic Interaction in Granular Medium. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 2655-2658	2	
193	Exchange Coupled Bit Patterned Media Under the Influence of RF-Field Pulses. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 3851-3854	2	9
192	Tailoring Domain-Wall Dynamics With Uniaxial Anisotropy in Nanowires. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 4067-4069	2	8
191	Reversal Mechanism of Exchange-Biased CoFeB/IrMn Bilayers Observed by Lorentz Electron Microscopy. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 3873-3876	2	13
190	Exchange-coupled perpendicular media. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 545-554	4.8	103
189	Internal effective field sources for spin torque nanopillar oscillators. <i>Journal of Applied Physics</i> , 2009 , 105, 053901	2.5	2
188	Current-driven vortex oscillations in metallic nanocontacts: zero-field oscillations and training effects. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 245001	3	7
187	Spectral micromagnetic analysis of switching processes. <i>Journal of Applied Physics</i> , 2009 , 105, 07D540	2.5	4
186	Micromagnetics of single and double point contact spin torque oscillators. <i>Journal of Applied Physics</i> , 2009 , 105, 083923	2.5	12

185	Effect of Intergranular Exchange on the Thermal Stability and Coercive Field of Perpendicular, Single Phase, Exchange Spring, and Coupled Granular Continuous (CGC) Perpendicular Recording Media. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 88-99	2	14
184	Experimental study of current-driven vortex oscillations in magnetic nanocontacts 2009 ,		5
183	Contribution of the shrunk interface and the convex surface of grains on magnetic behavior in granular film. <i>Journal of Applied Physics</i> , 2008 , 103, 07F519	2.5	3
182	Thermally induced adjacent track erasure in exchange spring media. <i>Applied Physics Letters</i> , 2008 , 92, 142505	3.4	13
181	Micromagnetic calculation of spin wave propagation for magnetologic devices. <i>Journal of Applied Physics</i> , 2008 , 103, 07E735	2.5	32
180	Thermal stability of graded exchange spring media under the influence of external fields. <i>Applied Physics Letters</i> , 2008 , 92, 173111	3.4	36
179	Microwave-Assisted Magnetization Reversal in Exchange Spring Media. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 3519-3522	2	22
178	Boron Enriched $\text{RE}_2\text{Fe}_{14}\text{B}$ -Base Melt Spun Alloys With Intrinsic Coercivities Over 1000 kA/m. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 4243-4246	2	1
177	Current-driven vortex oscillations in metallic nanocontacts. <i>Physical Review Letters</i> , 2008 , 100, 257201	7.4	190
176	Micromagnetic simulation of domain wall dynamics in Permalloy nanotubes at high frequencies. <i>Journal of Applied Physics</i> , 2008 , 104, 023915	2.5	7
175	Magnetic domain wall propagation in nanowires under transverse magnetic fields. <i>Journal of Applied Physics</i> , 2008 , 103, 073906	2.5	90
174	Magnetic strip patterns induced by focused ion beam irradiation. <i>Journal of Applied Physics</i> , 2008 , 103, 063915	2.5	6
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