

# Oksana Chubykalo-Fesenko

## List of Publications by Year in descending order

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189  
papers

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53660

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64668

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194  
all docs

194  
docs citations

194  
times ranked

5294  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast heating as a sufficient stimulus for magnetization reversal in a ferrimagnet. Nature Communications, 2012, 3, 666.	5.8	588
2	Opportunities and challenges for spintronics in the microelectronics industry. Nature Electronics, 2020, 3, 446-459.	13.1	471
3	Multiplying Magnetic Hyperthermia Response by Nanoparticle Assembling. Journal of Physical Chemistry C, 2014, 118, 5927-5934.	1.5	230
4	Towards multiscale modeling of magnetic materials: Simulations of FePt. Physical Review B, 2008, 77, .	1.1	188
5	The 2020 magnetism roadmap. Journal Physics D: Applied Physics, 2020, 53, 453001.	1.3	162
6	Dynamic approach for micromagnetics close to the Curie temperature. Physical Review B, 2006, 74, .	1.1	157
7	Stochastic form of the Landau-Lifshitz-Bloch equation. Physical Review B, 2012, 85, .	1.1	157
8	A Single Picture Explains Diversity of Hyperthermia Response of Magnetic Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 15698-15706.	1.5	141
9	Evidence for thermal mechanisms in laser-induced femtosecond spin dynamics. Physical Review B, 2010, 81, .	1.1	139
10	Constrained Monte Carlo method and calculation of the temperature dependence of magnetic anisotropy. Physical Review B, 2010, 82, .	1.1	130
11	Crystallographically amorphous ferrimagnetic alloys: Comparing a localized atomistic spin model with experiments. Physical Review B, 2011, 84, .	1.1	130
12	Magnetic reversal modes in cylindrical nanowires. Journal Physics D: Applied Physics, 2013, 46, 485001.	1.3	126
13	Effective anisotropies and energy barriers of magnetic nanoparticles with Néel surface anisotropy. Physical Review B, 2007, 76, .	1.1	122
14	Micromagnetic modeling of laser-induced magnetization dynamics using the Landau-Lifshitz-Bloch equation. Applied Physics Letters, 2007, 91, .	1.5	114
15	Wigner Random Banded Matrices with Sparse Structure: Local Spectral Density of States. Physical Review Letters, 1996, 76, 1603-1606.	2.9	106
16	Resolving the role of femtosecond heated electrons in ultrafast spin dynamics. Scientific Reports, 2014, 4, 3980.	1.6	100
17	Multiscale modeling of magnetic materials: Temperature dependence of the exchange stiffness. Physical Review B, 2010, 82, .	1.1	95
18	Magnetisation switching of FePt nanoparticle recording medium by femtosecond laser pulses. Scientific Reports, 2017, 7, 4114.	1.6	94

#	ARTICLE	IF	CITATIONS
19	In-situ particles reorientation during magnetic hyperthermia application: Shape matters twice. Scientific Reports, 2016, 6, 38382.	1.6	92
20	Dynamics and interaction of solitons on an integrable inhomogeneous lattice. Physical Review E, 1993, 48, 563-568.	0.8	91
21	Ultrafast magnetization dynamics rates within the Landau-Lifshitz-Bloch model. Physical Review B, 2011, 84, .	1.1	90
22	Control of the chirality and polarity of magnetic vortices in triangular nanodots. Physical Review B, 2010, 81, .	1.1	87
23	Two-magnon bound state causes ultrafast thermally induced magnetisation switching. Scientific Reports, 2013, 3, 3262.	1.6	87
24	Temperature-dependent exchange stiffness and domain wall width in Co. Physical Review B, 2016, 94, .	1.1	86
25	Thermal fluctuations and longitudinal relaxation of single-domain magnetic particles at elevated temperatures. Physical Review B, 2004, 70, .	1.1	84
26	Dark solitons in discrete lattices. Physical Review E, 1994, 50, 5020-5032.	0.8	83
27	Magnetic Capsules for NMR Imaging: Effect of Magnetic Nanoparticles Spatial Distribution and Aggregation. Journal of Physical Chemistry C, 2011, 115, 6257-6264.	1.5	83
28	Landau-Lifshitz-Bloch equation for ferrimagnetic materials. Physical Review B, 2012, 86, .	1.1	80
29	Origin of temperature and field dependence of magnetic skyrmion size in ultrathin nanodots. Physical Review B, 2018, 97, .	1.1	77
30	Magnetic properties of Co nanopillar arrays prepared from alumina templates. Nanotechnology, 2013, 24, 105703.	1.3	76
31	Radiative effects in the theory of beam propagation at nonlinear interfaces. Physical Review A, 1990, 41, 1677-1688.	1.0	74
32	Magnetization reversal via perpendicular exchange spring in FePt/FeRh bilayer films. Physical Review B, 2004, 70, .	1.1	74
33	Ultrafast Spin Dynamics: The Effect of Colored Noise. Physical Review Letters, 2009, 102, 057203.	2.9	72
34	Magnetization Ratchet in Cylindrical Nanowires. ACS Nano, 2018, 12, 5932-5939.	7.3	63
35	Quasiperiodicity, bistability, and chaos in the Landau-Lifshitz equation. Physical Review B, 2000, 61, 11613-11617.	1.1	60
36	Ultrafast dynamical path for the switching of a ferrimagnet after femtosecond heating. Physical Review B, 2013, 87, .	1.1	57

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37	Influence of interfacial roughness on exchange bias in core-shell nanoparticles. <i>Physical Review B</i> , 2011, 84, .	1.1	56
38	Electron- and phonon-mediated ultrafast magnetization dynamics of Gd(0001). <i>Physical Review B</i> , 2012, 85, .	1.1	56
39	Resonant and non-resonant soliton scattering by impurities. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987, 125, 35-40.	0.9	53
40	How size, shape and assembly of magnetic nanoparticles give rise to different hyperthermia scenarios. <i>Nanoscale</i> , 2021, 13, 15631-15646.	2.8	53
41	Crystallographically driven magnetic behaviour of arrays of monocrystalline Co nanowires. <i>Nanotechnology</i> , 2014, 25, 475702.	1.3	51
42	Magnetization pinning in modulated nanowires: from topological protection to the "corkscrew" mechanism. <i>Nanoscale</i> , 2018, 10, 5923-5927.	2.8	51
43	Multisegmented Nanowires: a Step towards the Control of the Domain Wall Configuration. <i>Scientific Reports</i> , 2017, 7, 11576.	1.6	48
44	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.	1.5	46
45	Nonlinear gyrotropic vortex dynamics in ferromagnetic dots. <i>Physical Review B</i> , 2010, 82, .	1.1	45
46	Tuning the magnetization reversal process of FeCoCu nanowire arrays by thermal annealing. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	45
47	Magnetic structure of a single-crystal hcp electrodeposited cobalt nanowire. <i>Europhysics Letters</i> , 2013, 102, 17009.	0.7	45
48	Single crystalline cylindrical nanowires " toward dense 3D arrays of magnetic vortices. <i>Scientific Reports</i> , 2016, 6, 23844.	1.6	45
49	The Landau-Lifshitz equation in atomistic models. <i>Low Temperature Physics</i> , 2015, 41, 705-712.	0.2	44
50	Coercivity of ordered arrays of magnetic Co nanowires with controlled variable lengths. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	42
51	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.	2.4	42
52	Dynamical solitons in a one-dimensional nonlinear diatomic chain. <i>Physical Review B</i> , 1993, 47, 3153-3160.	1.1	40
53	Controlling the polarity of the transient ferromagneticlike state in ferrimagnets. <i>Physical Review B</i> , 2014, 89, .	1.1	40
54	Multiscale modeling of ultrafast element-specific magnetization dynamics of ferromagnetic alloys. <i>Physical Review B</i> , 2015, 92, .	1.1	40

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55	Shape-dependent exchange bias effect in magnetic nanoparticles with core-shell morphology. <i>Physical Review B</i> , 2015, 92, .	1.1	39
56	Conditions for thermally induced all-optical switching in ferrimagnetic alloys: Modeling of TbCo. <i>Physical Review B</i> , 2017, 96, .	1.1	39
57	Quantum Landau-Lifshitz-Bloch equation and its comparison with the classical case. <i>Physical Review B</i> , 2014, 90, .	1.1	37
58	Langevin dynamic simulation of spin waves in a micromagnetic model. <i>Physical Review B</i> , 2002, 65, .	1.1	36
59	Field induced vortex dynamics in magnetic Ni nanotriangles. <i>Nanotechnology</i> , 2008, 19, 285717.	1.3	36
60	Magnetic antidot to dot crossover in Co and Py nanopatterned thin films. <i>Physical Review B</i> , 2014, 89, .	1.1	35
61	Modeling of Ultrafast Heat- and Field-Assisted Magnetization Dynamics in FePt. <i>Physical Review Applied</i> , 2016, 5, .	1.5	35
62	Brownian dynamics approach to interacting magnetic moments. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 266, 28-35.	1.0	34
63	Distinct magnetic field dependence of Néel skyrmion sizes in ultrathin nanodots. <i>Scientific Reports</i> , 2018, 8, 6280.	1.6	34
64	On beating the superparamagnetic limit with exchange bias. <i>Europhysics Letters</i> , 2009, 88, 57004.	0.7	33
65	Temperature dependence of the frequencies and effective damping parameters of ferrimagnetic resonance. <i>Physical Review B</i> , 2012, 86, .	1.1	33
66	Co/Au multisegmented nanowires: a 3D array of magnetostatically coupled nanopillars. <i>Nanotechnology</i> , 2017, 28, 095709.	1.3	32
67	Micromagnetic modeling of magnetic domain walls and domains in cylindrical nanowires. , 2020, , 403-426.		32
68	The role of size polydispersity in magnetic fluid hyperthermia: average vs. local infra/over-heating effects. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27812-27820.	1.3	30
69	Temperature dependence of the effective anisotropies in magnetic nanoparticles with Néel surface anisotropy. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 474009.	1.3	29
70	Structural Dependence of Magnetic Properties in Co-Based Nanowires: Experiments and Micromagnetic Simulations. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 4491-4497.	1.2	29
71	Optimal electron, phonon, and magnetic characteristics for low energy thermally induced magnetization switching. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	29
72	Direct observation of transverse and vortex metastable magnetic domains in cylindrical nanowires. <i>Physical Review B</i> , 2017, 96, .	1.1	29

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73	Magnetic Configurations in Modulated Cylindrical Nanowires. <i>Nanomaterials</i> , 2021, 11, 600.	1.9	29
74	A Comparative Study of Magnetic Properties of Large Diameter Co Nanowires and Nanotubes. <i>Nanomaterials</i> , 2018, 8, 692.	1.9	28
75	Key role of temperature in ferromagnetic Bloch point simulations. <i>Physical Review B</i> , 2012, 86, .	1.1	27
76	Surface and interface effects in magnetic core-shell nanoparticles. <i>MRS Bulletin</i> , 2013, 38, 909-914.	1.7	26
77	Stability of intrinsic localized modes in anharmonic 1-D lattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 178, 129-137.	0.9	25
78	Oscillatory behavior of the domain wall dynamics in a curved cylindrical magnetic nanowire. <i>Physical Review B</i> , 2017, 96, .	1.1	25
79	Strongly localized gap solitons in diatomic lattices. <i>Physical Review E</i> , 1993, 48, 4128-4131.	0.8	24
80	Anisotropic magnetic nanoparticles for biomedicine: bridging frequency separated AC-field controlled domains of actuation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 30445-30454.	1.3	24
81	Frenkel-Kontorova model with a transversal degree of freedom: Static properties of kinks. <i>Physical Review B</i> , 1993, 48, 3734-3743.	1.1	22
82	Unified decoupling scheme for exchange and anisotropy contributions and temperature-dependent spectral properties of anisotropic spin systems. <i>Physical Review B</i> , 2012, 86, .	1.1	21
83	Damping dependence of the reversal time of the magnetization of single-domain ferromagnetic particles for the Néel-Brown model: Langevin dynamics simulations versus analytic results. <i>Physical Review B</i> , 2010, 82, .	1.1	20
84	Spin-lattice dynamics model with angular momentum transfer for canonical and microcanonical ensembles. <i>Physical Review B</i> , 2021, 103, .	1.1	20
85	Quantitative analysis of the collective behavior in a micromagnetic model. <i>Physical Review B</i> , 1997, 55, 921-930.	1.1	19
86	Magnetic skyrmion size and stability in ultrathin nanodots accounting Dzyaloshinskii-Moriya exchange interaction. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 465, 471-479.	1.0	19
87	Unveiling the Origin of Multidomain Structures in Compositionally Modulated Cylindrical Magnetic Nanowires. <i>ACS Nano</i> , 2020, 14, 12819-12827.	7.3	19
88	Controlling domain wall oscillations in bent cylindrical magnetic wires. <i>Physical Review B</i> , 2020, 101, .	1.1	19
89	Detailed examination of domain wall types, their widths and critical diameters in cylindrical magnetic nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 542, 168495.	1.0	19
90	A micromagnetic study of the hysteretic behavior of antidot Fe films. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 149-152.	1.0	17

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91	Configurational entropy of magnetic skyrmions as an ideal gas. <i>Physical Review B</i> , 2019, 99, .	1.1	17
92	Coercivity mechanisms in lithographed antidot arrays. <i>Europhysics Letters</i> , 2008, 84, 67002.	0.7	16
93	Evidences of non-Arrhenius magnetic relaxation in macroscopic systems: Experiments and related simulations. <i>Europhysics Letters</i> , 1998, 41, 671-676.	0.7	15
94	Effects of surface anisotropy on the energy barrier in cobalt-silver core-shell nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e791-e794.	1.0	15
95	The classical two-sublattice Landau-Lifshitz-Bloch equation for all temperatures. <i>Low Temperature Physics</i> , 2015, 41, 739-744.	0.2	15
96	Micromagnetic evaluation of the dissipated heat in cylindrical magnetic nanowires. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	15
97	Half-hedgehog spin textures in sub-100 nm soft magnetic nanodots. <i>Nanoscale</i> , 2020, 12, 18646-18653.	2.8	15
98	Thermodynamics of interacting magnetic nanoparticles. <i>Physical Review B</i> , 2020, 101, .	1.1	15
99	The Bloch point 3D topological charge induced by the magnetostatic interaction. <i>Scientific Reports</i> , 2021, 11, 21714.	1.6	15
100	Multiscale versus micromagnetic calculations of the switching field reduction in FePt/FeRh bilayers with perpendicular exchange spring. <i>Journal of Applied Physics</i> , 2005, 97, 10J101.	1.1	14
101	Multiscale modelling of hysteresis in FePt/FeRh bilayer. <i>Physica B: Condensed Matter</i> , 2006, 372, 328-331.	1.3	14
102	Interface and Temperature Dependent Magnetic Properties in Permalloy Thin Films and Tunnel Junction Structures. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 7653-7664.	0.9	14
103	Electric current and field control of vortex structures in cylindrical magnetic nanowires. <i>Physical Review B</i> , 2020, 102, .	1.1	14
104	Curvature-induced emergence of a second critical field for domain wall dynamics in bent nanostripes. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	14
105	Real time quantification of Monte Carlo steps for different time scales. <i>Journal of Applied Physics</i> , 2000, 87, 4798-4800.	1.1	13
106	Modeling of microwave-assisted switching in micron-sized magnetic ellipsoids. <i>Physical Review B</i> , 2009, 79, .	1.1	13
107	Slow magnetization dynamics and energy barriers near vortex state nucleation in circular permalloy dots. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	13
108	Ultrafast relaxation rates and reversal time in disordered ferrimagnets. <i>Physical Review B</i> , 2015, 92, .	1.1	13

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109	Distinguishing between heating power and hyperthermic cell-treatment efficacy in magnetic fluid hyperthermia. <i>Soft Matter</i> , 2016, 12, 8815-8818.	1.2	13
110	Disentangling local heat contributions in interacting magnetic nanoparticles. <i>Physical Review B</i> , 2020, 102, .	1.1	13
111	Interference effects in soliton scattering by impurities. <i>Journal of Physics A</i> , 1992, 25, 5711-5728.	1.6	12
112	Kink-profile vibrational modes in one-dimensional nonlinear lattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 178, 123-128.	0.9	12
113	Moving toward an atomistic reader model. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 936-940.	1.2	12
114	Multidimensional energy barrier distributions of interacting magnetic particles evaluated at different magnetization states. <i>Journal of Applied Physics</i> , 2005, 97, 10J315.	1.1	12
115	Numerical evaluation of energy barriers in nano-sized magnetic elements with Lagrange multiplier technique. <i>Physica B: Condensed Matter</i> , 2008, 403, 330-333.	1.3	12
116	Micromagnetic simulations of cylindrical magnetic nanowires. , 2015, , 423-448.		12
117	Intrinsic Mixed Bloch- Néel Character and Chirality of Skyrmions in Asymmetric Epitaxial Trilayers. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 25419-25427.	4.0	12
118	Josephson-junction dynamics in the presence of a localized magnetic inhomogeneity. <i>Physical Review B</i> , 1991, 43, 5419-5424.	1.1	11
119	Some features of the repulsive discrete nonlinear Schrödinger equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 169, 359-363.	0.9	11
120	Switching and thermal stability properties of bilayer thin films: Single versus multigrain cases. <i>Journal of Applied Physics</i> , 2008, 103, 07F505.	1.1	11
121	Magnetic configurations of Co(111) nanostripes with competing shape and crystalline anisotropies. <i>Physical Review B</i> , 2013, 87, .	1.1	11
122	Micromagnetism of permalloy antidot arrays prepared from alumina templates. <i>Nanotechnology</i> , 2014, 25, 475703.	1.3	11
123	Tuning domain wall dynamics by shaping nanowires cross-sections. <i>Scientific Reports</i> , 2020, 10, 21911.	1.6	11
124	Finite-size effects in fluxon scattering by an inhomogeneity. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 129, 449-452.	0.9	10
125	Reversible magnetization variations in large field ranges associated to periodic arrays of antidots. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 3106-3108.	1.2	10
126	Micromagnetism of dense permalloy antidot lattices from anodic alumina templates. <i>Europhysics Letters</i> , 2012, 100, 17007.	0.7	10



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127	Vortex magnetic structure in circularly magnetized microwires as deduced from magneto-optical Kerr measurements. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	10
128	Self-consistent description of spin-phonon dynamics in ferromagnets. <i>Physical Review B</i> , 2016, 94, .	1.1	10
129	Magnetic hardening and domain structure in Co/Pt antidots with perpendicular anisotropy. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 065003.	1.3	10
130	Role of exchange parameters for ultrafast thermally induced magnetization switching in ferrimagnets. <i>Physical Review B</i> , 2019, 99, .	1.1	10
131	Small-amplitude solitary waves on a lattice subject to nonvanishing boundary conditions. <i>Physical Review B</i> , 1993, 47, 7971-7978.	1.1	9
132	Multiscale models of hard-soft composite media. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 303, 282-286.	1.0	9
133	Atomistic models of ultrafast reversal. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4389-4393.	0.7	9
134	Giant localised spin-Peltier effect due to ultrafast domain wall motion in antiferromagnetic metals. <i>Communications Physics</i> , 2020, 3, .	2.0	9
135	Micromagnetic modelling of thermal decay in interacting systems. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 221, 132-136.	1.0	8
136	The Effects of Surface Coating on the Structural and Magnetic Properties of CoAg Core-Shell Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 3106-3108.	1.2	8
137	Spontaneous creation and annihilation dynamics of magnetic skyrmions at elevated temperature. <i>Physical Review B</i> , 2021, 104, .	1.1	8
138	Experimental and computational analysis of the angular dependence of the hysteresis processes in an antidots array. <i>Journal of Applied Physics</i> , 2006, 99, 08S503.	1.1	7
139	A computational and experimental study of exchange coupling in FePt self-organized magnetic arrays. <i>Physica B: Condensed Matter</i> , 2006, 382, 235-244.	1.3	7
140	Modelling of the influence of the Néel surface anisotropy on the enhancement of the magnetic anisotropy in Co nanoparticle. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 055013.	1.3	7
141	Chaotic dynamics of a magnetic particle at finite temperature. <i>Physical Review B</i> , 2017, 95, .	1.1	7
142	Stochastic vs. deterministic magnetic coding in designed cylindrical nanowires for 3D magnetic networks. <i>Nanoscale</i> , 2021, 13, 12587-12593.	2.8	7
143	Influence of the configurational degeneracy on the hysteretic behavior of a system of magnetostatically coupled magnetic moments. <i>Journal of Applied Physics</i> , 1998, 83, 7393-7395.	1.1	6
144	Field and thermally activated demagnetization processes in ultra-thin films with in-plane anisotropy: occurrence of non-equivalent reversal modes. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 222, 314-326.	1.0	6

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145	Influence of exchange on signal-to-noise ratio in longitudinal recording media. <i>Journal of Applied Physics</i> , 2002, 91, 3129-3138.	1.1	6
146	Modeling of long-time thermal magnetization decay in interacting granular magnetic materials. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 3103-3105.	1.2	6
147	Field-dependent energy barriers in Co/CoO core-shell nanoparticles. <i>Physical Review B</i> , 2016, 93, .	1.1	6
148	Magnetic gap solitons in a one-dimensional Heisenberg antiferromagnetic chain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994, 189, 403-408.	0.9	5
149	Simulation of magnetic relaxation by a Monte Carlo technique with correlations and quantified time steps. <i>IEEE Transactions on Magnetics</i> , 1999, 35, 3730-3732.	1.2	5
150	Numerical evaluation of multidimensional energy barriers for FePt and Co particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E1169-E1171.	1.0	5
151	Coercive field and energy barriers in partially disordered FePt nanoparticles. <i>Journal of Applied Physics</i> , 2009, 105, 07B514.	1.1	5
152	Dimerized ground states of the Frenkel-Kontorova model with a transversal degree of freedom. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994, 191, 257-260.	0.9	4
153	Numerical evaluation of energy barriers and magnetic relaxation in interacting nanostructured magnetic systems. <i>Physica B: Condensed Matter</i> , 2004, 343, 189-194.	1.3	4
154	Thermal coercivity mechanism in Fe nanoribbons and stripes. <i>Applied Physics Letters</i> , 2008, 93, 192508.	1.5	4
155	Magnetization Reversal in Exchange-Coupled Composite Media—Experiment and Modeling. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 856-861.	1.2	4
156	Field-Dependent Energy Barriers of Magnetic Néel Skyrmions in Ultrathin Circular Nanodots. <i>Physical Review Applied</i> , 2021, 16, .	1.5	4
157	Local and global demagnetization process: Is there any self-organized critical behavior?. <i>Journal of Applied Physics</i> , 1998, 83, 7228-7230.	1.1	3
158	Magnetic viscosity in multilayers: a micromagnetic approach. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 196-197, 810-812.	1.0	3
159	Long-time calculation of the thermal magnetization reversal using Metropolis Monte Carlo. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 242-245, 1052-1056.	1.0	3
160	NONLINEAR ADIABATIC DYNAMICS OF SMALL FERROMAGNETIC PARTICLES. <i>International Journal of Modern Physics B</i> , 2006, 20, 5391-5404.	1.0	3
161	Effective anisotropies in magnetic nanowires using the torque method. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 443, 378-384.	1.0	3
162	Evaluation of the anisotropy constant using transverse biased initial susceptibility method. <i>IEEE Transactions on Magnetics</i> , 2000, 36, 3260-3262.	1.2	2

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163	Micromagnetic simulation of transverse biased initial susceptibility measurements. <i>Physica B: Condensed Matter</i> , 2001, 299, 205-214.	1.3	2
164	Longitudinal recording media performance as a function of exchange, linear recording density and media texture. <i>IEEE Transactions on Magnetics</i> , 2001, 37, 1363-1365.	1.2	2
165	Implementation of the "Hyperdynamics of Infrequent Events" Method for Acceleration of Thermal Switching Dynamics of Magnetic Moments. <i>IEEE Transactions on Magnetics</i> , 2004, 40, 2140-2142.	1.2	2
166	Hysteresis in Fe particles with surface and magnetoelastic anisotropies: Experiment and micromagnetic modeling. <i>Physica B: Condensed Matter</i> , 2008, 403, 469-472.	1.3	2
167	Static properties of magnetic skyrmions. , 2021, , 181-231.		2
168	Distinguishing Local Demagnetization Contribution to the Magnetization Process in Multisegmented Nanowires. <i>Nanomaterials</i> , 2022, 12, 1968.	1.9	2
169	Influence of the system parameters on the non-Arrhenius magnetic relaxation of systems having distributed properties. <i>Journal of Applied Physics</i> , 1998, 83, 6509-6511.	1.1	1
170	Micromagnetic modeling of field and thermally activated demagnetization processes in ultrathin films with in-plane anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 196-197, 238-239.	1.0	1
171	Consistency of thermal activation model based on the stochastic Landau-Lifshitz equation and classical spin-wave description. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 251-253.	1.0	1
172	Magnetization reversal in textured Fe nanoparticles having different aspect ratios. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 479-481.	1.0	1
173	Adiabatic dynamics of small ferromagnetic particles. <i>Journal of Applied Physics</i> , 2005, 97, 10A711.	1.1	1
174	Modeling of effective anisotropies in FeCo and Co nanowires. , 2017, , .		1
175	Topologically-mediated energy release by relativistic antiferromagnetic solitons. <i>Physical Review Research</i> , 2021, 3, .	1.3	1
176	Micromagnetic analysis of the small angle magnetization rotation (SAMR) method response of a twisted low-magnetostrictive wire. <i>IEEE Transactions on Magnetics</i> , 1997, 33, 3955-3957.	1.2	0
177	The transverse biased initial susceptibility measurements simulated in a two-zoned 2D system. <i>Computational Materials Science</i> , 2002, 25, 519-524.	1.4	0
178	Numerical evaluation of slow thermally induced magnetization reversal in granular magnetic materials. , 0, , .		0
179	Multiscale calculations of magnetization reversal in soft/hard magnetic bilayer. , 2005, , .		0
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