

Oleg Petravic

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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.

61
papers

1,826
citations

24
h-index

42
g-index

65
ext. papers

1,960
ext. citations

3.8
avg, IF

4.34
L-index

#	Paper	IF	Citations
61	Interacting ferromagnetic nanoparticles in discontinuous Co ₈₀ Fe ₂₀ /Al ₂ O ₃ multilayers: From superspin glass to reentrant superferromagnetism. <i>Physical Review B</i> , 2001 , 63,	3.3	175
60	Evidence for core-shell magnetic behavior in antiferromagnetic Co ₃ O ₄ nanowires. <i>Physical Review Letters</i> , 2008 , 101, 097206	7.4	148
59	Collective states of interacting ferromagnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 300, 192-197	2.8	137
58	Superparamagnetism versus superspin glass behavior in dilute magnetic nanoparticle systems. <i>Physical Review B</i> , 2005 , 72,	3.3	116
57	Superparamagnetic nanoparticle ensembles. <i>Superlattices and Microstructures</i> , 2010 , 47, 569-578	2.8	95
56	Aging and memory in a superspin glass. <i>Physical Review B</i> , 2003 , 67,	3.3	93
55	Domain wall relaxation, creep, sliding, and switching in superferromagnetic discontinuous Co(80)Fe(20)/Al(2)O ₃ multilayers. <i>Physical Review Letters</i> , 2002 , 89, 137203	7.4	75
54	Superspin-glass nature of discontinuous Co ₈₀ Fe ₂₀ /Al ₂ O ₃ multilayers. <i>Physical Review B</i> , 2002 , 65,	3.3	68
53	Cooperative versus superparamagnetic behavior of dense magnetic nanoparticles in Co ₈₀ Fe ₂₀ /Al ₂ O ₃ multilayers. <i>Applied Physics Letters</i> , 2003 , 82, 4116-4118	3.4	58
52	Asymmetric reversal in inhomogeneous magnetic heterostructures. <i>Physical Review Letters</i> , 2006 , 96, 217205	7.4	54
51	Fingerprinting the magnetic behavior of antiferromagnetic nanostructures using remanent magnetization curves. <i>Physical Review B</i> , 2011 , 83,	3.3	51
50	Bidomain state in exchange biased FeF ₂ /Ni. <i>Applied Physics Letters</i> , 2005 , 87, 222509	3.4	51
49	Relaxation and aging of a superferromagnetic domain state. <i>Physical Review B</i> , 2003 , 68,	3.3	46
48	Modes of periodic domain wall motion in ultrathin ferromagnetic layers. <i>Physical Review Letters</i> , 2007 , 99, 097203	7.4	41
47	Models for the magnetic ac susceptibility of granular superferromagnetic CoFe/Al ₂ O ₃ . <i>Physical Review B</i> , 2004 , 70,	3.3	40
46	Dynamic phase transitions in ferroic systems with pinned domain walls. <i>Phase Transitions</i> , 2005 , 78, 811-816	3.6	39
45	Reversible Control of Physical Properties via an Oxygen-Vacancy-Driven Topotactic Transition in Epitaxial La Sr MnO Thin Films. <i>Advanced Materials</i> , 2019 , 31, e1806183	24	37

44	Magnetic dipole and higher pole interaction on a square lattice. <i>Physical Review Letters</i> , 2013 , 110, 177209	3.4	36
43	Self-assembled iron oxide nanoparticle multilayer: x-ray and polarized neutron reflectivity. <i>Nanotechnology</i> , 2012 , 23, 055707	3.4	31
42	Superferromagnetic domain state of a discontinuous metal insulator multilayer. <i>Physical Review B</i> , 2005 , 72,	3.3	30
41	Magnetic Nanoparticles: A Subject for Both Fundamental Research and Applications. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-22	3.2	28
40	Decoupling of magnetic core and shell contributions in antiferromagnetic Co ₃ O ₄ nanostructures. <i>Europhysics Letters</i> , 2009 , 88, 27004	1.6	27
39	Cole-Cole Analysis of the Superspin Glass System Co ₈₀ Fe ₂₀ /Al ₂ O ₃ . <i>Phase Transitions</i> , 2003 , 76, 367-375	3.7	26
38	Tuning the magnetic properties of Co nanoparticles by Pt capping. <i>Physical Review B</i> , 2011 , 84,	3.3	25
37	Loop bifurcation and magnetization rotation in exchange-biased NiBeF ₂ . <i>Physical Review B</i> , 2005 , 72,	3.3	24
36	Three-dimensional spin structure in exchange-biased antiferromagnetic/ferromagnetic thin films. <i>Applied Physics Letters</i> , 2009 , 95, 092503	3.4	22
35	Structural and magnetic characterization of self-assembled iron oxide nanoparticle arrays. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 126003	1.8	21
34	Supermagnetism. <i>Handbook of Magnetic Materials</i> , 2015 , 1-83	1.3	20
33	Single-particle blocking and collective magnetic states in discontinuous CoFe/Al ₂ O ₃ multilayers. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 474002	3	19
32	Modulated magnetization depth profile in dipolarly coupled magnetic multilayers. <i>Physical Review B</i> , 2006 , 74,	3.3	16
31	Non-equilibrium collective dynamics of a superspin glass. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1316-1318	2.8	15
30	Competing Interactions in Patterned and Self-Assembled Magnetic Nanostructures. <i>Springer Tracts in Modern Physics</i> , 2013 , 189-234	0.1	13
29	Tuning the exchange bias by using Cr interfacial dusting layers. <i>Physical Review B</i> , 2008 , 78,	3.3	13
28	Neutron scattering study of transverse magnetism in the metamagnet FeBr ₂ . <i>European Physical Journal B</i> , 2000 , 15, 35-40	1.2	13
27	Mechanism of magnetization reduction in iron oxide nanoparticles. <i>Nanoscale</i> , 2021 , 13, 6965-6976	7.7	13

26	Growth modes of nanoparticle superlattice thin films. <i>Nanotechnology</i> , 2014 , 25, 205602	3.4	12
25	Strain and electric-field control of magnetism in supercrystalline iron oxide nanoparticle-BaTiO composites. <i>Nanoscale</i> , 2017 , 9, 12957-12962	7.7	11
24	Magnetic domain patterns in Co ₂ MnGe Heusler nanostripes. <i>Physical Review B</i> , 2011 , 84,	3.3	9
23	Magnetic coupling mechanisms in particle/thin film composite systems. <i>Beilstein Journal of Nanotechnology</i> , 2010 , 1, 101-7	3	8
22	Magnetic phase diagram of the diluted metamagnet Fe _{0.95} Mg _{0.05} Br ₂ . <i>Physical Review B</i> , 2001 , 63,	3.3	8
21	Manipulation of dipolar magnetism in low-dimensional iron oxide nanoparticle assemblies. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 6171-6177	3.6	7
20	Polarized neutron reflectivity from monolayers of self-assembled magnetic nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 136001	1.8	6
19	Magnetoelectric coupling in iron oxide nanoparticle-Barium titanate composites. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 065301	3	6
18	Interaction effects and transport properties of Pt capped Co nanoparticles. <i>Journal of Applied Physics</i> , 2013 , 113, 043917	2.5	5
17	360° domain walls in magnetic thin films with uniaxial and random anisotropy. <i>Physical Review B</i> , 2018 , 98,	3.3	5
16	Magnetism of monomer MnO and heterodimer FePt@MnO nanoparticles. <i>Physical Review B</i> , 2017 , 95,	3.3	4
15	Strain and electric field control of magnetism in La _(1-x) Sr _x MnO ₃ thin films on ferroelectric BaTiO ₃ substrates. <i>New Journal of Physics</i> , 2020 , 22, 053018	2.9	3
14	Correlation of Electronic and Magnetic Properties of Thin Polymer Layers with Cobalt Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 180-184	3.1	3
13	Magnetic properties and spin structure of MnO single crystal and powder. <i>Journal of Physics: Conference Series</i> , 2017 , 862, 012027	0.3	3
12	Synthesis, Properties, and Applications of Single-Domain Magnetic Nanoparticles. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-2	3.2	3
11	Polarized neutron reflectivity studies on granular Co ₈₀ Fe ₂₀ /Al ₂ O ₃ multilayers. <i>Physica B: Condensed Matter</i> , 2007 , 397, 65-67	2.8	3
10	Photoemission electron microscopy of magneto-ionic effects in La _{0.7} Sr _{0.3} MnO ₃ . <i>APL Materials</i> , 2020 , 8, 111102	5.7	3
9	Macroscopic nanoparticle assemblies: exploring the structural and magnetic properties of large supercrystals. <i>Materials Today: Proceedings</i> , 2017 , 4, S146-S153	1.4	2

8	Superferromagnetic domain state dynamics in discontinuous CoFe/Al ₂ O ₃ multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, E1201-E1203	2.8	2
7	Migration Kinetics of Surface Ions in Oxygen-Deficient Perovskite During Topotactic Transitions. <i>Small</i> , 2021 , e2104356	11	2
6	Signature of antiphase boundaries in iron oxide nanoparticles.. <i>Journal of Applied Crystallography</i> , 2021 , 54, 1719-1729	3.8	2
5	Combined neutron and synchrotron studies of magnetic films 2006 , 67, 47-55		1
4	Transverse magnetism of the diluted antiferromagnet Fe _{1-x} Mg _x Br ₂ (x~0.15). <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 618-620	2.8	1
3	Metal-Insulator Transition via Ion Irradiation in Epitaxial La _{0.7} Sr _{0.3} MnO ₃ Thin Films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100278	2.5	1
2	Shift of the blocking temperature of Co nanoparticles by Cr capping. <i>Journal of Applied Physics</i> , 2013 , 114, 233908	2.5	
1	Nanosession: Magnetic Interfaces and Surfaces 259-268		