

# Oleg Petracic

## 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.

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	Migration Kinetics of Surface Ions in Oxygen-Deficient Perovskite During Topotactic Transitions. <i>Small</i> , <b>2021</b> , e2104356	11	2
60	Signature of antiphase boundaries in iron oxide nanoparticles.. <i>Journal of Applied Crystallography</i> , <b>2021</b> , 54, 1719-1729	3.8	2
59	Mechanism of magnetization reduction in iron oxide nanoparticles. <i>Nanoscale</i> , <b>2021</b> , 13, 6965-6976	7.7	13
58	MetalInsulator Transition via Ion Irradiation in Epitaxial La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> Thin Films. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2021</b> , 15, 2100278	2.5	1
57	Strain and electric field control of magnetism in La(1-x)Sr <sub>x</sub> MnO <sub>3</sub> thin films on ferroelectric BaTiO <sub>3</sub> substrates. <i>New Journal of Physics</i> , <b>2020</b> , 22, 053018	2.9	3
56	Photoemission electron microscopy of magneto-ionic effects in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> . <i>APL Materials</i> , <b>2020</b> , 8, 111102	5.7	3
55	Manipulation of dipolar magnetism in low-dimensional iron oxide nanoparticle assemblies. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 6171-6177	3.6	7
54	Reversible Control of Physical Properties via an Oxygen-Vacancy-Driven Topotactic Transition in Epitaxial La Sr MnO Thin Films. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806183	24	37
53	Magnetolectric coupling in iron oxide nanoparticleBarium titanate composites. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 065301	3	6
52	360° domain walls in magnetic thin films with uniaxial and random anisotropy. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	5
51	Magnetism of monomer MnO and heterodimer FePt@MnO nanoparticles. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	4
50	Magnetic properties and spin structure of MnO single crystal and powder. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 862, 012027	0.3	3
49	Strain and electric-field control of magnetism in supercrystalline iron oxide nanoparticle-BaTiO composites. <i>Nanoscale</i> , <b>2017</b> , 9, 12957-12962	7.7	11
48	Macroscopic nanoparticle assemblies: exploring the structural and magnetic properties of large supercrystals. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, S146-S153	1.4	2
47	Supermagnetism. <i>Handbook of Magnetic Materials</i> , <b>2015</b> , 1-83	1.3	20
46	Polarized neutron reflectivity from monolayers of self-assembled magnetic nanoparticles. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 136001	1.8	6
45	Growth modes of nanoparticle superlattice thin films. <i>Nanotechnology</i> , <b>2014</b> , 25, 205602	3.4	12

44	Correlation of Electronic and Magnetic Properties of Thin Polymer Layers with Cobalt Nanoparticles. <i>Particle and Particle Systems Characterization</i> , <b>2013</b> , 30, 180-184	3.1	3
43	Magnetic dipole and higher pole interaction on a square lattice. <i>Physical Review Letters</i> , <b>2013</b> , 110, 177209	3.4	36
42	Competing Interactions in Patterned and Self-Assembled Magnetic Nanostructures. <i>Springer Tracts in Modern Physics</i> , <b>2013</b> , 189-234	0.1	13
41	Magnetic Nanoparticles: A Subject for Both Fundamental Research and Applications. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-22	3.2	28
40	Shift of the blocking temperature of Co nanoparticles by Cr capping. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 233908	2.5	
39	Interaction effects and transport properties of Pt capped Co nanoparticles. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 043917	2.5	5
38	Synthesis, Properties, and Applications of Single-Domain Magnetic Nanoparticles. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-2	3.2	3
37	Self-assembled iron oxide nanoparticle multilayer: x-ray and polarized neutron reflectivity. <i>Nanotechnology</i> , <b>2012</b> , 23, 055707	3.4	31
36	Fingerprinting the magnetic behavior of antiferromagnetic nanostructures using remanent magnetization curves. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	51
35	Structural and magnetic characterization of self-assembled iron oxide nanoparticle arrays. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 126003	1.8	21
34	Magnetic domain patterns in Co <sub>2</sub> MnGe Heusler nanostripes. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	9
33	Tuning the magnetic properties of Co nanoparticles by Pt capping. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	25
32	Magnetic coupling mechanisms in particle/thin film composite systems. <i>Beilstein Journal of Nanotechnology</i> , <b>2010</b> , 1, 101-7	3	8
31	Single-particle blocking and collective magnetic states in discontinuous CoFe/Al <sub>2</sub> O <sub>3</sub> multilayers. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 474002	3	19
30	Superparamagnetic nanoparticle ensembles. <i>Superlattices and Microstructures</i> , <b>2010</b> , 47, 569-578	2.8	95
29	Decoupling of magnetic core and shell contributions in antiferromagnetic Co <sub>3</sub> O <sub>4</sub> nanostructures. <i>Europhysics Letters</i> , <b>2009</b> , 88, 27004	1.6	27
28	Three-dimensional spin structure in exchange-biased antiferromagnetic/ferromagnetic thin films. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 092503	3.4	22
27	Evidence for core-shell magnetic behavior in antiferromagnetic Co <sub>3</sub> O <sub>4</sub> nanowires. <i>Physical Review Letters</i> , <b>2008</b> , 101, 097206	7.4	148

26	Tuning the exchange bias by using Cr interfacial dusting layers. <i>Physical Review B</i> , <b>2008</b> , 78,	3-3	13
25	Polarized neutron reflectivity studies on granular Co <sub>80</sub> Fe <sub>20</sub> /Al <sub>2</sub> O <sub>3</sub> multilayers. <i>Physica B: Condensed Matter</i> , <b>2007</b> , 397, 65-67	2-8	3
24	Modes of periodic domain wall motion in ultrathin ferromagnetic layers. <i>Physical Review Letters</i> , <b>2007</b> , 99, 097203	7-4	41
23	Combined neutron and synchrotron studies of magnetic films <b>2006</b> , 67, 47-55		1
22	Asymmetric reversal in inhomogeneous magnetic heterostructures. <i>Physical Review Letters</i> , <b>2006</b> , 96, 217205	7-4	54
21	Modulated magnetization depth profile in dipolarly coupled magnetic multilayers. <i>Physical Review B</i> , <b>2006</b> , 74,	3-3	16
20	Collective states of interacting ferromagnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 300, 192-197	2-8	137
19	Superparamagnetism versus superspin glass behavior in dilute magnetic nanoparticle systems. <i>Physical Review B</i> , <b>2005</b> , 72,	3-3	116
18	Dynamic phase transitions in ferroic systems with pinned domain walls. <i>Phase Transitions</i> , <b>2005</b> , 78, 811-816	3-3	39
17	Superferromagnetic domain state of a discontinuous metal insulator multilayer. <i>Physical Review B</i> , <b>2005</b> , 72,	3-3	30
16	Loop bifurcation and magnetization rotation in exchange-biased NiFe <sub>2</sub> . <i>Physical Review B</i> , <b>2005</b> , 72,	3-3	24
15	Bidomain state in exchange biased Fe <sub>2</sub> Ni. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 222509	3-4	51
14	Models for the magnetic ac susceptibility of granular superferromagnetic CoFe/Al <sub>2</sub> O <sub>3</sub> . <i>Physical Review B</i> , <b>2004</b> , 70,	3-3	40
13	Superferromagnetic domain state dynamics in discontinuous CoFe/Al <sub>2</sub> O <sub>3</sub> multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, E1201-E1203	2-8	2
12	Non-equilibrium collective dynamics of a superspin glass. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, 1316-1318	2-8	15
11	Cole-Cole Analysis of the Superspin Glass System Co <sub>80</sub> Fe <sub>20</sub> /Al <sub>2</sub> O <sub>3</sub> . <i>Phase Transitions</i> , <b>2003</b> , 76, 367-375	3-3	26
10	Cooperative versus superparamagnetic behavior of dense magnetic nanoparticles in Co <sub>80</sub> Fe <sub>20</sub> /Al <sub>2</sub> O <sub>3</sub> multilayers. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 4116-4118	3-4	58
9	Aging and memory in a superspin glass. <i>Physical Review B</i> , <b>2003</b> , 67,	3-3	93

8	Relaxation and aging of a superferromagnetic domain state. <i>Physical Review B</i> , <b>2003</b> , 68,	3-3	46
7	Domain wall relaxation, creep, sliding, and switching in superferromagnetic discontinuous Co(80)Fe(20)/Al(2)O <sub>3</sub> multilayers. <i>Physical Review Letters</i> , <b>2002</b> , 89, 137203	7-4	75
6	Superspin-glass nature of discontinuous Co <sub>80</sub> Fe <sub>20</sub> /Al <sub>2</sub> O <sub>3</sub> multilayers. <i>Physical Review B</i> , <b>2002</b> , 65,	3-3	68
5	Transverse magnetism of the diluted antiferromagnet Fe <sub>1-x</sub> Mg <sub>x</sub> Br <sub>2</sub> (x~0.15). <i>Journal of Magnetism and Magnetic Materials</i> , <b>2001</b> , 226-230, 618-620	2-8	1
4	Magnetic phase diagram of the diluted metamagnet Fe <sub>0.95</sub> Mg <sub>0.05</sub> Br <sub>2</sub> . <i>Physical Review B</i> , <b>2001</b> , 63,	3-3	8
3	Interacting ferromagnetic nanoparticles in discontinuous Co <sub>80</sub> Fe <sub>20</sub> /Al <sub>2</sub> O <sub>3</sub> multilayers: From superspin glass to reentrant superferromagnetism. <i>Physical Review B</i> , <b>2001</b> , 63,	3-3	175
2	Neutron scattering study of transverse magnetism in the metamagnet FeBr <sub>2</sub> . <i>European Physical Journal B</i> , <b>2000</b> , 15, 35-40	1-2	13
1	Nanosession: Magnetic Interfaces and Surfaces 259-268		