Oscar Iglesias

List of Publications by Year
in descending order

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54 papers	2,973 citations	201674 27 h-index	175258 52 g-index
55 all docs	55 docs citations	55 times ranked	3496 citing authors

#	Article	IF	Citations
1	Magnetic nanoparticles: From the nanostructure to the physical properties. Journal of Magnetism and Magnetic Materials, 2022, 543, 168594.	2.3	45
2	Single Nanomagnet Behaviour: Surface and Finite-Size Effects. Springer Series in Materials Science, 2021, , 3-38.	0.6	3
3	Hollow Magnetic Nanoparticles. Springer Series in Materials Science, 2021, , 137-158.	0.6	3
4	Tailoring dual reversal modes by helicity control in ferromagnetic nanotubes. Physical Review B, 2020, 101, .	3.2	6
5	Switching on superferromagnetism. Physical Review Materials, 2019, 3, .	2.4	6
6	Change in the magnetic configurations of tubular nanostructures by tuning dipolar interactions. Scientific Reports, 2018, 8, 10275.	3.3	10
7	Exchange Bias Effects in Iron Oxide-Based Nanoparticle Systems. Nanomaterials, 2016, 6, 221.	4.1	124
8	Probing core and shell contributions to exchange bias in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Co</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:m mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>nanoparticles of controlled size. Physical Review B, 2016, 94, .	3.2	23
9	Spin-glass-like freezing of inner and outer surface layers in hollow Î³-Fe2O3 nanoparticles. Scientific Reports, 2015, 5, 15054.	3.3	89
10	Quantification of Dipolar Interactions in Fe_{3â€“x}O₄ Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 24142-24148.	3.1	29
11	Exchange bias effect in Au-Fe₃O₄nanocomposites. Nanotechnology, 2014, 25, 055702.	2.6	43
12	Equilibrium and dynamic behaviour of (weakly) interacting assemblies of magnetic nanoparticles. Journal of Physics: Conference Series, 2014, 521, 012010.	0.4	0
13	Pressure effects in hollow and solid iron oxide nanoparticles. Journal of Magnetism and Magnetic Materials, 2013, 335, 1-5.	2.3	1
14	Interplay between surface anisotropy and dipolar interactions in an assembly of nanomagnets. Physical Review B, 2013, 88, .	3.2	28
15	Learning from Nature to Improve the Heat Generation of Iron-Oxide Nanoparticles for Magnetic Hyperthermia Applications. Scientific Reports, 2013, 3, 1652.	3.3	442
16	Glassy magnetic phase driven by short-range charge and magnetic ordering in nanocrystalline La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>Sr<mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>/</mml:mo><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>FeO<mm	3.2	31
17	Morphology influence on nanoscale magnetism of Co nanoparticles: Experimental and theoretical aspects of exchange bias. Physical Review B, 2011, 84, .	3.2	44
18	Magnetic nanoparticles with bulklike properties (invited). Journal of Applied Physics, 2011, 109, .	2.5	105

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19	Pseudocritical behavior of ferromagnetic pure and random diluted nanoparticles with competing interactions: Variational and Monte Carlo approaches. Physical Review B, 2011, 83, .	3.2	11
20	Exchange bias in laterally oxidized Au/Co/Au nanopillars. Applied Physics Letters, 2009, 94, 062502.	3.3	25
21	Controlling exchange bias in Coâ€“CoO_xnanoparticles by oxygen content. Nanotechnology, 2009, 20, 175702.	2.6	46
22	Magnetic domains and surface effects in hollow maghemite nanoparticles. Physical Review B, 2009, 79, .	3.2	110
23	Particle size and cooling field dependence of exchange bias in core/shell magnetic nanoparticles. Journal Physics D: Applied Physics, 2008, 41, 134010.	2.8	35
24	Surface anisotropy broadening of the energy barrier distribution in magnetic nanoparticles. Nanotechnology, 2008, 19, 475704.	2.6	75
25	Exchange Bias Phenomenology and Models of Core/Shell Nanoparticles. Journal of Nanoscience and Nanotechnology, 2008, 8, 2761-2780.	0.9	254
26	Exchange bias phenomenology and models of core/shell nanoparticles. Journal of Nanoscience and Nanotechnology, 2008, 8, 2761-80.	0.9	13
27	Modelling exchange bias in core/shell nanoparticles. Journal of Physics Condensed Matter, 2007, 19, 406232.	1.8	35
28	Exchange bias and asymmetric hysteresis loops from a microscopic model of core/shell nanoparticles. Journal of Magnetism and Magnetic Materials, 2007, 316, 140-142.	2.3	23
29	Surfactant effects in magnetite nanoparticles of controlled size. Journal of Magnetism and Magnetic Materials, 2007, 316, e756-e759.	2.3	273
30	Monte Carlo simulation study of exchange biased hysteresis loops in nanoparticles. Physica B: Condensed Matter, 2006, 372, 247-250.	2.7	29
31	Nucleation phenomenon in nanoparticle self-assemblies. International Journal of Nanotechnology, 2005, 2, 62.	0.2	11
32	Influence of surface anisotropy on the hysteresis of magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 738-741.	2.3	26
33	Microscopic origin of exchange bias in core/shell nanoparticles. Physical Review B, 2005, 72, .	3.2	111
34	From Finite Size and Surface Effects to Glassy Behaviour in Ferrimagnetic Nanoparticles. , 2005, , 105-140.		14
35	Shape and surface anisotropy effects on the hysteresis of ferrimagnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 685-686.	2.3	12
36	Magnetic relaxation in a model of interacting nanoparticles in terms of microscopic energy barriers. Physica Status Solidi A, 2004, 201, 3329-3332.	1.7	4

#	Article	IF	Citations
37	Influence of surface anisotropy on the magnetization reversal of nanoparticles. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3481-3484.	0.8	5
38	Role of surface disorder on the magnetic properties and hysteresis of nanoparticles. Physica B: Condensed Matter, 2004, 343, 286-292.	2.7	84
39	Magnetic relaxation in terms of microscopic energy barriers in a model of dipolar interacting nanoparticles. Physical Review B, 2004, 70, .	3.2	66
40	Magnetic field scaling of relaxation curves in small particle systems. Journal of Applied Physics, 2002, 91, 4409-4417.	2.5	18
41	Magnetic structure ofLi2CuO2:â€ƒFromab initiocalculations to macroscopic simulations. Physical Review B, 2002, 66, .	3.2	57
42	Effects of the magnetic field on the relaxation of small particle systems. Computational Materials Science, 2002, 25, 577-583.	3.0	8
43	Finite-size and surface effects in maghemite nanoparticles: â€‚Monte Carlo simulations. Physical Review B, 2001, 63, .	3.2	239
44	Monte Carlo study of the finite-size effects on the magnetization of maghemite small particles. Journal of Applied Physics, 2001, 89, 7597-7599.	2.5	6
45	Finite Size Effects in Small Particle Systems. , 2001, , 363-367.		2
46	Magnetic history dependence of metastable states in thin films with dipolar interactions. Journal of Magnetism and Magnetic Materials, 2000, 221, 149-157.	2.3	10
47	Monte Carlo simulation of the magnetic ordering in thin films with perpendicular anisotropy. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 819-820.	2.3	11
48	Normalization factors for magnetic relaxation of small-particle systems in a nonzero magnetic field. Physical Review B, 1997, 55, 8940-8944.	3.2	27
49	scaling in small-particle systems: low-temperature behaviour. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 399-400.	2.3	19
50	Magnetic relaxation in small-particle systems: ln(t/Ï„0) scaling. Physical Review B, 1993, 48, 10240-10246.	3.2	121
51	Non-Thermal Viscosity in the Magnetic Relaxation of 2 d Random Magnets. Europhysics Letters, 1993, 22, 211-216.	2.0	8
52	Structural disorder in two-dimensional random magnets: Very thin films of rare earths and transition metals. Physical Review B, 1993, 47, 11848-11851.	3.2	7
53	Quantum tunneling of domain walls in ferromagnets. Physical Review B, 1992, 46, 5392-5404.	3.2	108
54	Time dependent phenomena at low temperatures in SmCo multilayers: quantum nucleation phenomena. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 163, 130-134.	2.1	36