Rocio Yanes

List of Publications by Year
in descending order

28	984	567281 15	501196 28
papers	citations	h-index	g-index

29	29	29	1516
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Constrained Monte Carlo method and calculation of the temperature dependence of magnetic anisotropy. Physical Review B, 2010, 82, .	3.2	130
2	Effective anisotropies and energy barriers of magnetic nanoparticles with NÃ©el surface anisotropy. Physical Review B, 2007, 76, .	3.2	122
3	Control of the chirality and polarity of magnetic vortices in triangular nanodots. Physical Review B, 2010, 81, .	3.2	87
4	Skyrmions with Attractive Interactions in an Ultrathin Magnetic Film. Physical Review Letters, 2016, 117, 157205.	7.8	80
5	Formation and stability of metastable skyrmionic spin structures with various topologies in an ultrathin film. Physical Review B, 2017, 95, .	3.2	61
6	Influence of interfacial roughness on exchange bias in core-shell nanoparticles. Physical Review B, 2011, 84, .	3.2	56
7	Exchange Bias Driven by Dzyaloshinskii-Moriya Interactions. Physical Review Letters, 2013, 111, 217202.	7.8	52
8	Direct Observation of Magnetic Metastability in Individual Iron Nanoparticles. Physical Review Letters, 2014, 112, 107201.	7.8	46
9	Development of antiferromagnetic Heusler alloys for the replacement of iridium as a critically raw material. Journal Physics D: Applied Physics, 2017, 50, 443001.	2.8	43
10	Coercivity of ordered arrays of magnetic Co nanowires with controlled variable lengths. Applied Physics Letters, 2011, 98, .	3.3	42
11	Skyrmion motion induced by voltage-controlled in-plane strain gradients. Applied Physics Letters, 2019, 115, .	3.3	40
12	Field induced vortex dynamics in magnetic Ni nanotriangles. Nanotechnology, 2008, 19, 285717.	2.6	36
13	On beating the superparamagnetic limit with exchange bias. Europhysics Letters, 2009, 88, 57004.	2.0	33
14	Temperature dependence of the effective anisotropies in magnetic nanoparticles with NÃ©el surface anisotropy. Journal Physics D: Applied Physics, 2010, 43, 474009.	2.8	29
15	Direct observation of enhanced magnetism in individual size- and shape-selected <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml transition metal nanoparticles. Physical Review B, 2017, 95, .	3.2	24
16	Thermal properties of a spin spiral: Manganese on tungsten(110). Physical Review B, 2015, 91, .	3.2	15
17	Small-angle neutron scattering modeling of spin disorder in nanoparticles. Scientific Reports, 2017, 7, 13060.	3.3	15
18	Electric Field Control of the Skyrmion Hall Effect in Piezoelectric-Magnetic Devices. Physical Review Applied, 2021, 16, .	3.8	15

#	Article	IF	Citations
19	Modeling of microwave-assisted switching in micron-sized magnetic ellipsoids. Physical Review B, 2009, 79, .	3.2	13
20	Toward Understanding Complex Spin Textures in Nanoparticles by Magnetic Neutron Scattering. Physical Review Letters, 2020, 125, 117201.	7.8	10
21	Magnetization process of a ferromagnetic nanostrip under the influence of a surface acoustic wave. Scientific Reports, 2020, 10, 9413.	3.3	8
22	Modelling of the influence of the NÃ©el surface anisotropy on the enhancement of the magnetic anisotropy in Co nanoparticle. Journal Physics D: Applied Physics, 2009, 42, 055013.	2.8	7
23	Coercive field and energy barriers in partially disordered FePt nanoparticles. Journal of Applied Physics, 2009, 105, 07B514.	2.5	5
24	Magnetism and exchange-bias effect at the MnN/Fe interface. Physical Review B, 2018, 98, .	3.2	5
25	Magnetic field control of antiferromagnetic domain walls in a thermal gradient. Physical Review B, 2020, 102, .	3.2	4
26	Interfacial exchange interactions and magnetism of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Ni</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">MnAl</mml:mi><mml:mo>/</mml:mo><mml:mi mathvariant="normal">Fe</mml:mi></mml:mrow></mml:math> bilayers. Physical Review B, 2017, 96, .	3.2	2
27	Tailoring the interaction between spin waves and domain walls in nanostripes with perpendicular magnetic anisotropy. Journal Physics D: Applied Physics, 2019, 52, 175002.	2.8	2
28	Large asymmetry in the magnetoresistance loops of ferromagnetic nanostrips induced by Surface Acoustic Waves. Scientific Reports, 2021, 11, 8586.	3.3	2