

Jos A De Toro

List of Publications by Citations

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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.

68

papers

1,012

citations

20

h-index

28

g-index

70

ext. papers

1,130

ext. citations

3.9

avg, IF

3.78

L-index

#	Paper	IF	Citations
68	A nanoparticle replica of the spin-glass state. <i>Applied Physics Letters</i> , 2013 , 102, 183104	3.4	60
67	Controlled Close-Packing of Ferrimagnetic Nanoparticles: An Assessment of the Role of Interparticle Superexchange Versus Dipolar Interactions. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10213-10219	3.8	56
66	High Temperature Magnetic Stabilization of Cobalt Nanoparticles by an Antiferromagnetic Proximity Effect. <i>Physical Review Letters</i> , 2015 , 115, 057201	7.4	55
65	Structure and magnetic properties of oxygen-stabilized tetragonal Ni nanoparticles prepared by borohydride reduction method. <i>Physical Review B</i> , 2005 , 71,	3.3	48
64	Remanence Plots as a Probe of Spin Disorder in Magnetic Nanoparticles. <i>Chemistry of Materials</i> , 2017 , 29, 8258-8268	9.6	45
63	Exchange bias and nanoparticle magnetic stability in Co-CoO composites. <i>Physical Review B</i> , 2006 , 73,	3.3	40
62	Spin-glass-like behavior in mechanically alloyed nanocrystalline Fe-Al-Cu. <i>Physical Review B</i> , 1999 , 60, 12918-12923	3.3	40
61	The interplay between single particle anisotropy and interparticle interactions in ensembles of magnetic nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 28634-28643	3.6	36
60	Effect of interstitial oxygen on the crystal structure and magnetic properties of Ni nanoparticles. <i>Journal of Applied Physics</i> , 2004 , 96, 6782-6788	2.5	34
59	Improved giant magnetoresistance in nanogranular CoAg: The role of interparticle RKKY interactions. <i>Physical Review B</i> , 2004 , 70,	3.3	32
58	Nonequilibrium magnetic dynamics in mechanically alloyed materials. <i>Physical Review B</i> , 2001 , 64,	3.3	32
57	Maximizing Exchange Bias in Co/CoO Core/Shell Nanoparticles by Lattice Matching between the Shell and the Embedding Matrix. <i>Chemistry of Materials</i> , 2017 , 29, 5200-5206	9.6	27
56	Accurate interferometric measurement of electro-optic coefficients: application to quasi-stoichiometric LiNbO ₃ . <i>Optics Communications</i> , 1998 , 154, 23-27	2	27
55	Size-dependent surface effects in maghemite nanoparticles and its impact on interparticle interactions in dense assemblies. <i>Nanotechnology</i> , 2015 , 26, 475703	3.4	26
54	Co ₃ O ₄ nanoparticles prepared by reactive gas-phase aggregation. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 2105-2111	2.3	26
53	Exchange-bias stabilization of the magnetic nanoparticles in a granular alloy grown by reactive sputtering. <i>Applied Physics Letters</i> , 2005 , 86, 172503	3.4	23
52	Surface Effects Under Visible Irradiation and Heat Treatment on the Phase Stability of Fe ₂ O ₃ Nanoparticles and Fe ₂ O ₃ /BiO ₂ Core/Shell Nanostructures. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2857-2866	3.8	21

51	Exchange bias beyond the superparamagnetic blocking temperature of the antiferromagnet in a Ni-NiO nanoparticulate system. <i>Journal of Applied Physics</i> , 2014 , 115, 073904	2.5	21
50	Critical spin-glass dynamics in a heterogeneous nanogranular system. <i>Physical Review B</i> , 2004 , 69,	3.3	21
49	Influence of spacer layer morphology on the exchange-bias properties of reactively sputtered Co/Ag multilayers. <i>Physical Review B</i> , 2007 , 76,	3.3	20
48	Mössbauer study of the superspin glass transition in nanogranular Al ₄₉ Fe ₃₀ Cu ₂₁ . <i>Physical Review B</i> , 2001 , 64,	3.3	20
47	High-vacuum annealing reduction of Co/CoO nanoparticles. <i>Nanotechnology</i> , 2014 , 25, 105702	3.4	19
46	Ageing and memory effects in a mechanically alloyed nanoparticle system. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 313, 373-377	2.8	17
45	Oxygen-assisted control of surface morphology in nonepitaxial sputter growth of Ag. <i>Applied Physics Letters</i> , 2006 , 89, 201902	3.4	17
44	Phase transition in a super superspin glass. <i>Europhysics Letters</i> , 2013 , 102, 67002	1.6	15
43	Demagnetization effects in dense nanoparticle assemblies. <i>Applied Physics Letters</i> , 2016 , 109, 152404	3.4	14
42	Simultaneous Individual and Dipolar Collective Properties in Binary Assemblies of Magnetic Nanoparticles. <i>Chemistry of Materials</i> , 2020 , 32, 969-981	9.6	13
41	Energy barrier enhancement by weak magnetic interactions in Co/Nb granular films assembled by inert gas condensation. <i>Physical Review B</i> , 2012 , 85,	3.3	13
40	Low-temperature magnetization dynamics of oxygen-stabilized tetragonal Ni nanoparticles. <i>Physical Review B</i> , 2006 , 74,	3.3	13
39	Photocatalysis Meets Magnetism: Designing Magnetically Recoverable Supports for Visible-Light Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24895-24904	9.5	12
38	The oxidation of metal-capped Co cluster films under ambient conditions. <i>Nanotechnology</i> , 2009 , 20, 085710	3.4	12
37	Effects of the individual particle relaxation time on superspin glass dynamics. <i>Physical Review B</i> , 2016 , 93,	3.3	10
36	Magnetically Enhanced Mechanical Stability and Super-Size Effects in Self-Assembled Superstructures of Nanocubes. <i>Advanced Functional Materials</i> , 2019 , 29, 1904825	15.6	9
35	A comprehensive structural and magnetic study of Ni nanoparticles prepared by the borohydride reduction of NiCl ₂ solution of different concentrations. <i>Journal of Applied Physics</i> , 2006 , 100, 094307	2.5	9
34	Exchange Bias Optimization by Controlled Oxidation of Cobalt Nanoparticle Films Prepared by Sputter Gas Aggregation. <i>Nanomaterials</i> , 2017 , 7,	5.4	8

33	Approach to the potential usage of two wood ashes waste as soil amendments on the basis of the dehydrogenase activity and soil oxygen consumption. <i>Journal of Soils and Sediments</i> , 2018 , 18, 2148-2156	3.4	7
32	Magnetic properties of nanoparticle compacts with controlled broadening of the particle size distribution. <i>Physical Review B</i> , 2017 , 95,	3.3	7
31	Ageing dynamics of a superspin glass. <i>Europhysics Letters</i> , 2014 , 108, 17004	1.6	7
30	Role of the oxygen partial pressure in the formation of composite Co-CoO nanoparticles by reactive aggregation. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 4583-4590	2.3	6
29	Influence of the quenched-in nuclei on the crystallisation of amorphous Ni ₈₀ B ₂₀ . <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, E1129-E1130	2.8	6
28	Superparamagnetism in the devitrification of amorphous Ni ₈₀ B ₂₀ . <i>Physical Review B</i> , 2002 , 66,	3.3	6
27	On the detection of surface spin freezing in iron oxide nanoparticles and its long-term evolution under ambient oxidation. <i>Nanotechnology</i> , 2021 , 32, 065704	3.4	6
26	Particle size-dependent superspin glass behavior in random compacts of monodisperse maghemite nanoparticles. <i>Materials Research Express</i> , 2016 , 3, 045015	1.7	6
25	Optical and vibrational properties of CaZnOS: The role of intrinsic defects. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 225-233	5.7	6
24	Improvement of magnetic particle stability upon annealing in an exchange-biased nanogranular system. <i>Journal of Applied Physics</i> , 2006 , 100, 064312	2.5	5
23	Reactive sputtering synthesis of Co _{1-x} O _x /Ag nanogranular and multilayer films containing core-shell particles. <i>Journal of Applied Physics</i> , 2007 , 101, 09E504	2.5	5
22	Magnetic characterization of mechanically alloyed Fe ₃₀ (Al _{1-x} Cu _x) ₇₀ . <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 243-245	2.8	5
21	New insights into controlling the twin structure of magnetic iron oxide nanoparticles. <i>Applied Materials Today</i> , 2021 , 24, 101084	6.6	5
20	Types of Cluster Sources 2017 , 39-55		4
19	Magnetic properties and microstructural characterization of granular AgBe films. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 242-245, 952-954	2.8	4
18	Glassy magnetic behavior in nanocrystalline mechanically alloyed Fe ₇₀ Ag. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 231, 291-293	2.8	4
17	Magnetic nanogranularity and spin-glass behavior in mechanically alloyed Fe ₃₅ Al ₅₀ B ₁₅ . <i>Journal of Applied Physics</i> , 2002 , 91, 8396	2.5	4
16	Spin-glass-like static and dynamic properties of mechanically alloyed FeBeCr. <i>Journal of Applied Physics</i> , 2000 , 87, 6534-6536	2.5	4

15	Flexible, multifunctional nanoribbon arrays of palladium nanoparticles for transparent conduction and hydrogen detection. <i>Applied Surface Science</i> , 2019 , 470, 212-218	6.7	4
14	Effect of Ni precursor solution concentration on the magnetic properties and exchange bias of Ni-NiO nanoparticulate systems. <i>Journal of Applied Physics</i> , 2014 , 116, 093906	2.5	3
13	Lifestyle Influence on the Content of Copper, Zinc and Rubidium in Wild Mushrooms. <i>Applied and Environmental Soil Science</i> , 2012 , 2012, 1-6	3.8	3
12	Ideal superspin glass behaviour in a random-close-packed ensemble of maghemite nanoparticles. <i>Journal of Physics: Conference Series</i> , 2014 , 521, 012011	0.3	2
11	Comment on Accurate determination of the magnetic anisotropy in cluster-assembled nanostructures [Appl. Phys. Lett. 95, 062503 (2009)]. <i>Applied Physics Letters</i> , 2012 , 100, 136101	3.4	2
10	CoO ₁ layers in a reactively sputtered exchange-bias system. <i>New Journal of Physics</i> , 2008 , 10, 083028	2.9	2
9	Glassy magnetism in mechanically alloyed Fe ₃₅ Cr ₆₅ . <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1340-1341	2.8	2
8	Reconfigurable Mechanical Anisotropy in Self-Assembled Magnetic Superstructures. <i>Advanced Science</i> , 2021 , 8, 2002683	13.6	2
7	Super spin dimensionality of a mono-dispersed and densely packed magnetic nanoparticle system. <i>Journal of Physics: Conference Series</i> , 2014 , 521, 012012	0.3	1
6	Spontaneous Formation of Core@shell Co@Cr Nanoparticles by Gas Phase Synthesis. <i>Applied Nano</i> , 2020 , 1, 87-101	1	1
5	Core Size and Interface Impact on the Exchange Bias of Cobalt/Cobalt Oxide Nanostructures. <i>Magnetochemistry</i> , 2021 , 7, 40	3.1	1
4	Two-dimensional crystallography introduced by the sprinkler watering problem. <i>European Journal of Physics</i> , 2012 , 33, 167-177	0.8	0
3	Effective control of the magnetic anisotropy in ferromagnetic MnBi micro-islands. <i>Journal of Alloys and Compounds</i> , 2021 , 852, 156731	5.7	0
2	. <i>IEEE Transactions on Magnetism</i> , 2014 , 50, 1-5	2	
1	Structure and magnetism in ultra-thin hcp Fe films on Re(0001). <i>Surfaces and Interfaces</i> , 2022 , 30, 101892.1	2.1	