David GonzÃ¡lez-Alonso

List of Publications by Year
in descending order

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20 papers	1,933 citations	567281 15 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	2222 citing authors

#	Article	IF	Citations
1	Revealing a masked Verwey transition in nanoparticles of coexisting Fe-oxide phases. RSC Advances, 2021, 11, 390-396.	3.6	1
2	Identifying the presence of magnetite in an ensemble of iron-oxide nanoparticles: a comparative neutron diffraction study between bulk and nanoscale. Nanoscale Advances, 2021, 3, 3491-3496.	4.6	4
3	Magnetoimpedance Response and Field Sensitivity in Stress-Annealed Co-Based Microwires for Sensor Applications. Sensors, 2020, 20, 3227.	3.8	10
4	Dye-doped biodegradable nanoparticle SiO₂ coating on zinc- and iron-oxide nanoparticles to improve biocompatibility and for in vivo imaging studies. Nanoscale, 2020, 12, 6164-6175.	5.6	22
5	Relating Magnetic Properties and High Hyperthermia Performance of Iron Oxide Nanoflowers. Journal of Physical Chemistry C, 2018, 122, 3068-3077.	3.1	107
6	Dipolar-coupled moment correlations in clusters of magnetic nanoparticles. Physical Review B, 2018, 98, .	3.2	37
7	Influence of clustering on the magnetic properties and hyperthermia performance of iron oxide nanoparticles. Nanotechnology, 2018, 29, 425705.	2.6	31
8	Structural and magnetic properties of multi-core nanoparticles analysed using a generalised numerical inversion method. Scientific Reports, 2017, 7, 45990.	3.3	41
9	On the â€˜centre of gravityâ€™ method for measuring the composition of magnetite/maghemite mixtures, or the stoichiometry of magnetite-maghemite solid solutions, via⁵⁷Fe MÃ¶ssbauer spectroscopy. Journal Physics D: Applied Physics, 2017, 50, 265005.	2.8	75
10	Colloidal Flowerâ€Shaped Iron Oxide Nanoparticles: Synthesis Strategies and Coatings. Particle and Particle Systems Characterization, 2017, 34, 1700094.	2.3	71
11	Distribution functions of magnetic nanoparticles determined by a numerical inversion method. New Journal of Physics, 2017, 19, 073012.	2.9	42
12	Annealing Influence on the Exchange-Bias and Magnetostructural Properties in the Ni_{50.0}Mn_{36.5}Sn_{13.5} Ribbon-Shape Alloy. Solid State Phenomena, 2015, 233-234, 179-182.	0.3	4
13	Magnetostructural phase transition in off-stoichiometric Niâ€“Mnâ€“In Heusler alloy ribbons with low In content. Journal of Magnetism and Magnetic Materials, 2015, 383, 190-195.	2.3	11
14	Giant Electrocaloric Strength in Singleâ€Crystal BaTiO₃. Advanced Materials, 2013, 25, 1360-1365.	21.0	430
15	Hysteresis effects in the inverse magnetocaloric effect in martensitic Ni-Mn-In and Ni-Mn-Sn. Journal of Applied Physics, 2012, 112, .	2.5	85
16	Caloric effects induced by magnetic and mechanical fields in a Ni<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>50</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Mn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>25</mml:mn><mml:mo>	3.2	70
17	Inverse barocaloric effect in the giant magnetocaloric Laâ€“Feâ€“Siâ€“Co compound. Nature Communications, 2011, 2, 595.	12.8	175
18	Stress- and magnetic field-induced entropy changes in Fe-doped Niâ€“Mnâ€“Ga shape-memory alloys. Applied Physics Letters, 2010, 96, .	3.3	43

#	Article	IF	Citations
19	Giant solid-state barocaloric effect in the Niâ€“Mnâ€“In magnetic shape-memory alloy. Nature Materials, 2010, 9, 478-481.	27.5	632
20	Lattice dynamics in magnetic superelastic Ni-Mn-In alloys: Neutron scattering and ultrasonic experiments. Physical Review B, 2009, 79, .	3.2	42