

# David González-Alonso

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Giant solid-state barocaloric effect in the Ni-Mn-In magnetic shape-memory alloy. <i>Nature Materials</i> , 2010, 9, 478-481.	27.5	632
2	Giant Electrocaloric Strength in Single-Crystal BaTiO <sub>3</sub> . <i>Advanced Materials</i> , 2013, 25, 1360-1365.	21.0	430
3	Inverse barocaloric effect in the giant magnetocaloric La-Fe-Si-Co compound. <i>Nature Communications</i> , 2011, 2, 595.	12.8	175
4	Relating Magnetic Properties and High Hyperthermia Performance of Iron Oxide Nanoflowers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3068-3077.	3.1	107
5	Hysteresis effects in the inverse magnetocaloric effect in martensitic Ni-Mn-In and Ni-Mn-Sn. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	85
6	On the "centre of gravity" method for measuring the composition of magnetite/maghemite mixtures, or the stoichiometry of magnetite-maghemite solid solutions, via <sup>57</sup> Fe Mössbauer spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 265005.	2.8	75
7	Colloidal Flower-Shaped Iron Oxide Nanoparticles: Synthesis Strategies and Coatings. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1700094.	2.3	71
8	Caloric effects induced by magnetic and mechanical fields in a Ni <sub>50</sub> Mn <sub>50</sub> alloy. <i>Journal of Applied Physics</i> , 2010, 108, 044301.	3.2	70
9	Stress- and magnetic field-induced entropy changes in Fe-doped Ni-Mn-Ga shape-memory alloys. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	43
10	Lattice dynamics in magnetic superelastic Ni-Mn-In alloys: Neutron scattering and ultrasonic experiments. <i>Physical Review B</i> , 2009, 79, .	3.2	42
11	Distribution functions of magnetic nanoparticles determined by a numerical inversion method. <i>New Journal of Physics</i> , 2017, 19, 073012.	2.9	42
12	Structural and magnetic properties of multi-core nanoparticles analysed using a generalised numerical inversion method. <i>Scientific Reports</i> , 2017, 7, 45990.	3.3	41
13	Dipolar-coupled moment correlations in clusters of magnetic nanoparticles. <i>Physical Review B</i> , 2018, 98, .	3.2	37
14	Influence of clustering on the magnetic properties and hyperthermia performance of iron oxide nanoparticles. <i>Nanotechnology</i> , 2018, 29, 425705.	2.6	31
15	Dye-doped biodegradable nanoparticle SiO <sub>2</sub> coating on zinc- and iron-oxide nanoparticles to improve biocompatibility and for <i>in vivo</i> imaging studies. <i>Nanoscale</i> , 2020, 12, 6164-6175.	5.6	22
16	Magnetostructural phase transition in off-stoichiometric Ni-Mn-In Heusler alloy ribbons with low In content. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 383, 190-195.	2.3	11
17	Magnetoimpedance Response and Field Sensitivity in Stress-Annealed Co-Based Microwires for Sensor Applications. <i>Sensors</i> , 2020, 20, 3227.	3.8	10
18	Annealing Influence on the Exchange-Bias and Magnetostructural Properties in the Ni <sub>50</sub> Mn <sub>36.5</sub> Sn <sub>13.5</sub> Ribbon-Shape Alloy. <i>Solid State Phenomena</i> , 2015, 233-234, 179-182.	0.3	4

#	ARTICLE	IF	CITATIONS
19	Identifying the presence of magnetite in an ensemble of iron-oxide nanoparticles: a comparative neutron diffraction study between bulk and nanoscale. <i>Nanoscale Advances</i> , 2021, 3, 3491-3496.	4.6	4
20	Revealing a masked Verwey transition in nanoparticles of coexisting Fe-oxide phases. <i>RSC Advances</i> , 2021, 11, 390-396.	3.6	1