

Javier Alonso

List of Publications by Year in Descending Order

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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.

74
papers

2,216
citations

25
h-index

46
g-index

78
ext. papers

2,636
ext. citations

4
avg, IF

4.84
L-index

#	Paper	IF	Citations
74	Entangled core/shell magnetic structure driven by surface magnetic symmetry-breaking in Cr ₂ O ₃ nanoparticles. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 1798-1807	7.1	1
73	Iron Oxide Nanorings and Nanotubes for Magnetic Hyperthermia: The Problem of Intraparticle Interactions. <i>Nanomaterials</i> , 2021 , 11,	5.4	5
72	Nature Driven Magnetic Nanoarchitectures. <i>Springer Series in Materials Science</i> , 2021 , 159-179	0.9	0
71	Nanoflowers Versus Magnetosomes: Comparison Between Two Promising Candidates for Magnetic Hyperthermia Therapy. <i>IEEE Access</i> , 2021 , 9, 99552-99561	3.5	3
70	Hollow Magnetic Nanoparticles. <i>Springer Series in Materials Science</i> , 2021 , 137-158	0.9	1
69	Hybrid magnetic nanoparticles as efficient nanoheaters in biomedical applications. <i>Nanoscale Advances</i> , 2021 , 3, 867-888	5.1	17
68	Exploring the Different Degrees of Magnetic Disorder in TbRCu Nanoparticle Alloys. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
67	Investigating the Size and Microstrain Influence in the Magnetic Order/Disorder State of GdCu Nanoparticles. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
66	Elucidating the role of shape anisotropy in faceted magnetic nanoparticles using biogenic magnetosomes as a model. <i>Nanoscale</i> , 2020 , 12, 16081-16090	7.7	9
65	Magnetic Isolation of Cancer-Derived Exosomes Using Fe/Au Magnetic Nanowires. <i>ACS Applied Nano Materials</i> , 2020 , 3, 2058-2069	5.6	20
64	Magnetic Vortex and Hyperthermia Suppression in Multigrain Iron Oxide Nanorings. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 787	2.6	6
63	Controlled Magnetic Anisotropy in Single Domain Mn-doped Biosynthesized Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 22827-22838	3.8	3
62	Isolation of Cancer-Derived Exosomes Using a Variety of Magnetic Nanostructures: From FeO Nanoparticles to Ni Nanowires. <i>Nanomaterials</i> , 2020 , 10,	5.4	23
61	Magnetotactic bacteria for cancer therapy. <i>Journal of Applied Physics</i> , 2020 , 128, 070902	2.5	20
60	Unlocking the Potential of Magnetotactic Bacteria as Magnetic Hyperthermia Agents. <i>Small</i> , 2019 , 15, e1902626	11	49
59	Polyacrylamide Ferrogels with Ni Nanowires. <i>Materials</i> , 2019 , 12,	3.5	20
58	Magnetic Hyperthermia: Unlocking the Potential of Magnetotactic Bacteria as Magnetic Hyperthermia Agents (Small 41/2019). <i>Small</i> , 2019 , 15, 1970222	11	2

57	Magnetic iron oxide-carbon nanocomposites: Impacts of carbon coating on the As(V) adsorption and inductive heating responses. <i>Journal of Alloys and Compounds</i> , 2018 , 739, 139-148	5.7	27
56	Improving the Heating Efficiency of Iron Oxide Nanoparticles by Tuning Their Shape and Size. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 2367-2381	3.8	122
55	Magnetic Study of Co-Doped Magnetosome Chains. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7541-7550	0.8	14
54	Magnetic Nanoparticles, Synthesis, Properties, and Applications 2018 , 1-40		13
53	Influence of the bacterial growth phase on the magnetic properties of magnetosomes synthesized by <i>Magnetospirillum gryphiswaldense</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 1507-1514	17	
52	Iron Oxide Nanospheres and Nanocubes for Magnetic Hyperthermia Therapy: A Comparative Study. <i>Journal of Electronic Materials</i> , 2017 , 46, 3764-3769	1.9	21
51	Superparamagnetic iron oxide nanodiscs for hyperthermia therapy: Does size matter?. <i>Journal of Alloys and Compounds</i> , 2017 , 714, 709-714	5.7	40
50	Disclosure of Double Exchange Bias Effect in Chromium (III) Oxide Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	4
49	Soft Ferromagnetic Microwires with Excellent Inductive Heating Properties for Clinical Hyperthermia Applications. <i>Springer Series in Materials Science</i> , 2017 , 151-167	0.9	
48	Remotely Controlled Micromanipulation by Buckling Instabilities in FeO Nanoparticle Embedded Poly(N-isopropylacrylamide) Surface Arrays. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28012-28018	0.5	2
47	Magnetic nanoscopic correlations in the crossover between a superspin glass and a superferromagnet. <i>Journal of Applied Physics</i> , 2016 , 119, 143902	2.5	9
46	On the mineral core of ferritin-like proteins: structural and magnetic characterization. <i>Nanoscale</i> , 2016 , 8, 1088-99	7.7	20
45	Remote triggering of thermoresponsive PNIPAM by iron oxide nanoparticles. <i>RSC Advances</i> , 2016 , 6, 5641-5652	3.7	10
44	Exchange Bias Effects in Iron Oxide-Based Nanoparticle Systems. <i>Nanomaterials</i> , 2016 , 6,	5.4	98
43	X-Ray Absorption Fine Structure Spectroscopy in Fe Oxides and Oxyhydroxides 2016 , 397-422		8
42	Ferromagnetic glass-coated microwires with good heating properties for magnetic hyperthermia. <i>Scientific Reports</i> , 2016 , 6, 39300	4.9	36
41	Superparamagnetic nanoparticles encapsulated in lipid vesicles for advanced magnetic hyperthermia and biodetection. <i>Journal of Applied Physics</i> , 2016 , 119, 083904	2.5	20
40	Syntheses, crystal structures and magnetic studies of new manganese(II) coordination polymers with ditopic N-pyridinylisonicotinohydrazide ligand and dicyanamide. <i>Inorganic Chemistry Communication</i> , 2016 , 67, 85-89	3.1	24

39	Enhanced Magnetic Hyperthermia in Iron Oxide Nano-Octopods: Size and Anisotropy Effects. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8370-8379	3.8	115
38	Enhanced magnetic anisotropy and heating efficiency in multi-functional manganese ferrite/graphene oxide nanostructures. <i>Nanotechnology</i> , 2016 , 27, 155707	3.4	25
37	Core/shell iron/iron oxide nanoparticles: are they promising for magnetic hyperthermia?. <i>RSC Advances</i> , 2016 , 6, 38697-38702	3.7	40
36	Tunable High Aspect Ratio Iron Oxide Nanorods for Enhanced Hyperthermia. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10086-10093	3.8	156
35	Boosted Hyperthermia Therapy by Combined AC Magnetic and Photothermal Exposures in Ag/Fe ₃ O ₄ Nanoflowers. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25162-9	9.5	75
34	Optimal Parameters for Hyperthermia Treatment Using Biomineralized Magnetite Nanoparticles: Theoretical and Experimental Approach. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 24437-24448	3.8	71
33	Fabrication of Patterned Ferromagnetic Shape Memory Thin Films. <i>Key Engineering Materials</i> , 2015 , 644, 219-222	0.4	1
32	FeCo nanowires with enhanced heating powers and controllable dimensions for magnetic hyperthermia. <i>Journal of Applied Physics</i> , 2015 , 117, 17D113	2.5	68
31	Superparamagnetic properties of carbon nanotubes filled with NiFe ₂ O ₄ nanoparticles. <i>Journal of Applied Physics</i> , 2015 , 117, 17C723	2.5	18
30	Breakdown of magnetism in sub-nanometric Ni clusters embedded in Ag. <i>Nanotechnology</i> , 2015 , 26, 455303	3.0	9
29	Spin-glass-like freezing of inner and outer surface layers in hollow Fe ₂ O ₃ nanoparticles. <i>Scientific Reports</i> , 2015 , 5, 15054	4.9	74
28	Anisotropy effects in magnetic hyperthermia: A comparison between spherical and cubic exchange-coupled FeO/Fe ₃ O ₄ nanoparticles. <i>Journal of Applied Physics</i> , 2015 , 117, 17A337	2.5	83
27	On the exchange bias effect in NiO nanoparticles with a core(antiferromagnetic)/shell (spin glass) morphology. <i>Journal of Physics: Conference Series</i> , 2015 , 663, 012001	0.3	2
26	From core/shell to hollow Fe/Fe ₃ O ₄ nanoparticles: evolution of the magnetic behavior. <i>Nanotechnology</i> , 2015 , 26, 405705	3.4	27
25	Sodium Distribution and Reaction Mechanisms of a Na ₃ V ₂ O ₂ (PO ₄) ₂ F Electrode during Use in a Sodium-Ion Battery. <i>Chemistry of Materials</i> , 2014 , 26, 3391-3402	9.6	91
24	Interplay between microstructure and magnetism in NiO nanoparticles: breakdown of the antiferromagnetic order. <i>Nanoscale</i> , 2014 , 6, 457-65	7.7	72
23	Heteronuclear, mixed-metal Ag(I)-Mn(II) coordination polymers with bridging N-pyridinylisonicotinohydrazide ligands: synthesis, crystal structures, magnetic and photoluminescence properties. <i>Dalton Transactions</i> , 2014 , 43, 11925-35	4.3	36
22	Magnetic Properties and Magnetic Entropy Change in Gd/Ti Multilayers. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	3

21	Magnetic disorder in diluted $\text{Fe}_{x\text{M}100-x}$ granular thin films (M=Au, Ag, Cu; $x \ll 1$). <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 276001	1.8	10
20	Magnetite biomineralization in <i>Magnetospirillum gryphiswaldense</i> : time-resolved magnetic and structural studies. <i>ACS Nano</i> , 2013 , 7, 3297-305	16.7	96
19	Electrochemical Na Extraction/Insertion of $\text{Na}_3\text{V}_2\text{O}_2\text{x}(\text{PO}_4)_2\text{F}_3\text{x}$. <i>Chemistry of Materials</i> , 2013 , 25, 4917-4925	9.6	96
18	Effects of thermal annealing on the magnetic interactions in nanogranular Fe/Ag thin films. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S271-S276	5.7	3
17	Interfacial magnetic coupling between Fe nanoparticles in Fe/Ag granular alloys. <i>Nanotechnology</i> , 2012 , 23, 025705	3.4	22
16	Iron oxide nanoparticles fabricated by electric explosion of wire: focus on magnetic nanofluids. <i>AIP Advances</i> , 2012 , 2, 022154	1.5	67
15	Influence of the interactions on the magnetotransport properties of Fe-Ag granular thin films. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 7473-6	1.3	1
14	Ni doped Fe_3O_4 magnetic nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 2652-60	1.3	38
13	Fe/Ni-based magnetoimpedance multilayers: Tailoring of the softness by magnetic spacers. <i>Applied Physics Letters</i> , 2012 , 100, 162410	3.4	39
12	Crossover from superspin glass to superferromagnet in $\text{Fe}_x\text{Ag}_{100-x}$ nanostructured thin films ($20 \leq x \leq 80$). <i>Physical Review B</i> , 2010 , 82,	3.3	59
11	Magnetic properties of colloidal cobalt nanoclusters. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 072100	0.3	2
10	Magnetic disorder in nanostructured $\text{Fe}_{70}\text{Au}_{30}$ films and $\text{Fe}_{14}\text{Au}_{86}$ powders. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 072028	0.3	
9	Structure and Magnetic Properties of Thin Permalloy Films Near the $\mu_0 H_c$ State. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 333-336	2	90
8	Microstructure and magnetic properties of colloidal cobalt nano-clusters. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 3565-3571	2.8	9
7	LiFePO_4 thin films grown by pulsed laser deposition: Effect of the substrate on the film structure and morphology. <i>Applied Surface Science</i> , 2010 , 256, 2563-2568	6.7	20
6	Influence of the interface on the electronic channel switching of a Fe/Ag thin film on a Si substrate. <i>Applied Physics Letters</i> , 2009 , 95, 082103	3.4	3
5	Correction to Influence of the Si Substrate on the Transport and Magnetotransport Properties of Nanostructured Fe-Ag Thin Films [Nov 09 2784-2787]. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 3365-3365		
4	Collective magnetic behaviors of Fe/Ag nanostructured thin films above the percolation limit. <i>Journal of Applied Physics</i> , 2009 , 105, 07B513	2.5	3

3	Influence of the Si Substrate on the Transport and Magnetotransport Properties of Nanostructured Fe-Ag Thin Films. <i>IEEE Transactions on Magnetism</i> , 2008 , 44, 2784-2787	2	3
2	Monte Carlo simulations of magnetic order in Fe-doped manganites. <i>Physica B: Condensed Matter</i> , 2008 , 403, 394-397	2.8	6
1	Valence and Core Electron Spectra of Mg in MgO in Evaporated Thin Films. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1975 , 30, 1485-1490	1.4	13