

Javier Alonso

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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	Tunable High Aspect Ratio Iron Oxide Nanorods for Enhanced Hyperthermia. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10086-10093	3.8	156
73	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
72	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
71	Exchange Bias Effects in Iron Oxide-Based Nanoparticle Systems. <i>Nanomaterials</i> , 2016 , 6,	5.4	98
70	Magnetite biomineralization in <i>Magnetospirillum gryphiswaldense</i> : time-resolved magnetic and structural studies. <i>ACS Nano</i> , 2013 , 7, 3297-305	16.7	96
69	Electrochemical Na Extraction/Insertion of Na ₃ V ₂ O ₂ x(PO ₄) ₂ F ₃ 2x. <i>Chemistry of Materials</i> , 2013 , 25, 4917-4925	9.6	96
68	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
67	Structure and Magnetic Properties of Thin Permalloy Films Near the μ transcritical State. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 333-336	2	90
66	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
65	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
64	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
63	Interplay between microstructure and magnetism in NiO nanoparticles: breakdown of the antiferromagnetic order. <i>Nanoscale</i> , 2014 , 6, 457-65	7.7	72
62	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
61	FeCo nanowires with enhanced heating powers and controllable dimensions for magnetic hyperthermia. <i>Journal of Applied Physics</i> , 2015 , 117, 17D113	2.5	68
60	Iron oxide nanoparticles fabricated by electric explosion of wire: focus on magnetic nanofluids. <i>AIP Advances</i> , 2012 , 2, 022154	1.5	67
59	Crossover from superspin glass to superferromagnet in Fe _x Ag _{100-x} nanostructured thin films (20 ≤ x ≤ 80). <i>Physical Review B</i> , 2010 , 82,	3.3	59
58	Unlocking the Potential of Magnetotactic Bacteria as Magnetic Hyperthermia Agents. <i>Small</i> , 2019 , 15, e1902626	11	49

57	Superparamagnetic iron oxide nanodiscs for hyperthermia therapy: Does size matter?. <i>Journal of Alloys and Compounds</i> , 2017 , 714, 709-714	5-7	40
56	Core/shell iron/iron oxide nanoparticles: are they promising for magnetic hyperthermia?. <i>RSC Advances</i> , 2016 , 6, 38697-38702	3-7	40
55	FeNi-based magnetoimpedance multilayers: Tailoring of the softness by magnetic spacers. <i>Applied Physics Letters</i> , 2012 , 100, 162410	3-4	39
54	Ni doped Fe ₃ O ₄ magnetic nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 2652-60	1-3	38
53	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
52	Ferromagnetic glass-coated microwires with good heating properties for magnetic hyperthermia. <i>Scientific Reports</i> , 2016 , 6, 39300	4-9	36
51	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
50	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
49	Enhanced magnetic anisotropy and heating efficiency in multi-functional manganese ferrite/graphene oxide nanostructures. <i>Nanotechnology</i> , 2016 , 27, 155707	3-4	25
48	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
47	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
46	Interfacial magnetic coupling between Fe nanoparticles in Fe/Ag granular alloys. <i>Nanotechnology</i> , 2012 , 23, 025705	3-4	22
45	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
44	Magnetic Isolation of Cancer-Derived Exosomes Using Fe/Au Magnetic Nanowires. <i>ACS Applied Nano Materials</i> , 2020 , 3, 2058-2069	5-6	20
43	On the mineral core of ferritin-like proteins: structural and magnetic characterization. <i>Nanoscale</i> , 2016 , 8, 1088-99	7-7	20
42	Polyacrylamide Ferrogels with Ni Nanowires. <i>Materials</i> , 2019 , 12,	3-5	20
41	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
40	Magnetotactic bacteria for cancer therapy. <i>Journal of Applied Physics</i> , 2020 , 128, 070902	2-5	20

39	Superparamagnetic nanoparticles encapsulated in lipid vesicles for advanced magnetic hyperthermia and biodetection. <i>Journal of Applied Physics</i> , 2016 , 119, 083904	2.5	20
38	Superparamagnetic properties of carbon nanotubes filled with NiFe ₂ O ₄ nanoparticles. <i>Journal of Applied Physics</i> , 2015 , 117, 17C723	2.5	18
37	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, 15074-1514	1.5	17
36	Hybrid magnetic nanoparticles as efficient nanoheaters in biomedical applications. <i>Nanoscale Advances</i> , 2021 , 3, 867-888	5.1	17
35	Magnetic Study of Co-Doped Magnetosome Chains. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7541-7550	3.8	14
34	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
33	Magnetic Nanoparticles, Synthesis, Properties, and Applications 2018 , 1-40		13
32	Remote triggering of thermoresponsive PNIPAM by iron oxide nanoparticles. <i>RSC Advances</i> , 2016 , 6, 5641-5652	3.7	10
31	Magnetic disorder in diluted Fe _x M _{100-x} granular thin films (M=Au, Ag, Cu; x≤ 10). <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 276001	1.8	10
30	Breakdown of magnetism in sub-nanometric Ni clusters embedded in Ag. <i>Nanotechnology</i> , 2015 , 26, 4553-4563	3.0	9
29	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
28	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
27	Microstructure and magnetic properties of colloidal cobalt nano-clusters. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 3565-3571	2.8	9
26	X-Ray Absorption Fine Structure Spectroscopy in Fe Oxides and Oxyhydroxides 2016 , 397-422		8
25	Magnetic Vortex and Hyperthermia Suppression in Multigrain Iron Oxide Nanorings. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 787	2.6	6
24	Monte Carlo simulations of magnetic order in Fe-doped manganites. <i>Physica B: Condensed Matter</i> , 2008 , 403, 394-397	2.8	6
23	Iron Oxide Nanorings and Nanotubes for Magnetic Hyperthermia: The Problem of Intraparticle Interactions. <i>Nanomaterials</i> , 2021 , 11,	5.4	5
22	Disclosure of Double Exchange Bias Effect in Chromium (III) Oxide Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	4

21	Exploring the Different Degrees of Magnetic Disorder in TbRCu Nanoparticle Alloys. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
20	Investigating the Size and Microstrain Influence in the Magnetic Order/Disorder State of GdCu Nanoparticles. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
19	Magnetic Properties and Magnetic Entropy Change in Gd/Ti Multilayers. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	3
18	Effects of thermal annealing on the magnetic interactions in nanogranular FeAg thin films. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S271-S276	5.7	3
17	Influence of the interface on the electronic channel switching of a FeAg thin film on a Si substrate. <i>Applied Physics Letters</i> , 2009 , 95, 082103	3.4	3
16	Collective magnetic behaviors of FeAg nanostructured thin films above the percolation limit. <i>Journal of Applied Physics</i> , 2009 , 105, 07B513	2.5	3
15	Influence of the Si Substrate on the Transport and Magnetotransport Properties of Nanostructured Fe-Ag Thin Films. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2784-2787	2	3
14	Controlled Magnetic Anisotropy in Single Domain Mn-doped Biosynthesized Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 22827-22838	3.8	3
13	Nanoflowers Versus Magnetosomes: Comparison Between Two Promising Candidates for Magnetic Hyperthermia Therapy. <i>IEEE Access</i> , 2021 , 9, 99552-99561	3.5	3
12	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	9.5	2
11	Magnetic Hyperthermia: Unlocking the Potential of Magnetotactic Bacteria as Magnetic Hyperthermia Agents (Small 41/2019). <i>Small</i> , 2019 , 15, 1970222	11	2
10	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
9	Magnetic properties of colloidal cobalt nanoclusters. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 072100	0.3	2
8	Fabrication of Patterned Ferromagnetic Shape Memory Thin Films. <i>Key Engineering Materials</i> , 2015 , 644, 219-222	0.4	1
7	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
6	Entangled core/shell magnetic structure driven by surface magnetic symmetry-breaking in Cr2O3 nanoparticles. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 1798-1807	7.1	1
5	Hollow Magnetic Nanoparticles. <i>Springer Series in Materials Science</i> , 2021 , 137-158	0.9	1
4	Nature Driven Magnetic Nanoarchitectures. <i>Springer Series in Materials Science</i> , 2021 , 159-179	0.9	0

- 3 Correction to Influence of the Si Substrate on the Transport and Magnetotransport Properties of Nanostructured Fe-Ag Thin Films [Nov 09 2784-2787]. *IEEE Transactions on Magnetism*, **2009**, 45, 3365-3365
- 2 Magnetic disorder in nanostructured Fe₇Au₉₃ films and Fe₁₄Au₈₆ powders. *Journal of Physics: Conference Series*, **2010**, 200, 072028 0.3
- 1 Soft Ferromagnetic Microwires with Excellent Inductive Heating Properties for Clinical Hyperthermia Applications. *Springer Series in Materials Science*, **2017**, 151-167 0.9