

Alejandro G Roca

List of Publications by Citations

Source: <https://exaly.com/author-pdf/770872/alejandro-g-roca-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

3,343
citations

26
h-index

53
g-index

53
ext. papers

3,628
ext. citations

5.4
avg, IF

4.96
L-index

#	Paper	IF	Citations
52	Applications of exchange coupled bi-magnetic hard/soft and soft/hard magnetic core/shell nanoparticles. <i>Physics Reports</i> , 2015 , 553, 1-32	27.7	310
51	Progress in the preparation of magnetic nanoparticles for applications in biomedicine. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 224002	3	295
50	Structural and magnetic properties of uniform magnetite nanoparticles prepared by high temperature decomposition of organic precursors. <i>Nanotechnology</i> , 2006 , 17, 2783-2788	3.4	293
49	The influence of surface functionalization on the enhanced internalization of magnetic nanoparticles in cancer cells. <i>Nanotechnology</i> , 2009 , 20, 115103	3.4	267
48	Surfactant effects in magnetite nanoparticles of controlled size. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e756-e759	2.8	250
47	Effect of Nature and Particle Size on Properties of Uniform Magnetite and Maghemite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18577-18584	3.8	237
46	Uniform and water stable magnetite nanoparticles with diameters around the monodomain-multidomain limit. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 134003	3	181
45	Mechanisms of hyperthermia in magnetic nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 312001	3.01	169
44	Design strategies for shape-controlled magnetic iron oxide nanoparticles. <i>Advanced Drug Delivery Reviews</i> , 2019 , 138, 68-104	18.5	127
43	Effect of nanoparticle and aggregate size on the relaxometric properties of MR contrast agents based on high quality magnetite nanoparticles. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 7033-9	3.4	124
42	Magnetic nanoparticles with bulklike properties (invited). <i>Journal of Applied Physics</i> , 2011 , 109, 07B524	2.5	92
41	Fe K-Edge X-ray Absorption Spectroscopy Study of Nanosized Nominal Magnetite. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1332-1346	3.8	77
40	Magnetite nanoparticles with no surface spin canting. <i>Journal of Applied Physics</i> , 2009 , 105, 114309	2.5	73
39	Surface anisotropy broadening of the energy barrier distribution in magnetic nanoparticles. <i>Nanotechnology</i> , 2008 , 19, 475704	3.4	68
38	Origin of the large dispersion of magnetic properties in nanostructured oxides: Fe(x)O/Fe ₃ O ₄ nanoparticles as a case study. <i>Nanoscale</i> , 2015 , 7, 3002-15	7.7	63
37	Liver and brain imaging through dimercaptosuccinic acid-coated iron oxide nanoparticles. <i>Nanomedicine</i> , 2010 , 5, 397-408	5.6	57
36	Synthesis of Monodispersed Magnetite Particles From Different Organometallic Precursors. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 3025-3029	2	56

35	Seeded Growth Synthesis of Au@Fe ₃ O ₄ Heterostructured Nanocrystals: Rational Design and Mechanistic Insights. <i>Chemistry of Materials</i> , 2017 , 29, 4022-4035	9.6	53
34	Precise Size Control of the Growth of FeO Nanocubes over a Wide Size Range Using a Rationally Designed One-Pot Synthesis. <i>ACS Nano</i> , 2019 , 13, 7716-7728	16.7	41
33	Magnetic Study of Fe ₃ O ₄ Nanoparticles Incorporated within Mesoporous Silicon. <i>Journal of the Electrochemical Society</i> , 2010 , 157, K145	3.9	41
32	Magnetic properties and energy absorption of CoFe ₂ O ₄ nanoparticles for magnetic hyperthermia. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 072101	0.3	39
31	Cytokine adsorption/release on uniform magnetic nanoparticles for localized drug delivery. <i>Journal of Controlled Release</i> , 2008 , 130, 168-74	11.7	36
30	Synthesis of Magnetic Nanocrystals by Thermal Decomposition in Glycol Media: Effect of Process Variables and Mechanistic Study. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 8348-8357	3.9	35
29	Magnetically separable photocatalytic composite Fe ₂ O ₃ @TiO ₂ synthesized by heterogeneous precipitation. <i>Applied Surface Science</i> , 2011 , 257, 4844-4848	6.7	35
28	A new method for the rapid synthesis of water stable superparamagnetic nanoparticles. <i>Chemistry - A European Journal</i> , 2008 , 14, 9126-30	4.8	30
27	Surface functionalization for tailoring the aggregation and magnetic behaviour of silica-coated iron oxide nanostructures. <i>Nanotechnology</i> , 2012 , 23, 155603	3.4	28
26	A new method for the aqueous functionalization of superparamagnetic Fe ₂ O ₃ nanoparticles. <i>Contrast Media and Molecular Imaging</i> , 2008 , 3, 215-22	3.2	24
25	Application of nanoparticle tracking analysis for characterising the fate of engineered nanoparticles in sediment-water systems. <i>Journal of Environmental Sciences</i> , 2018 , 64, 62-71	6.4	22
24	Galvanic Replacement onto Complex Metal-Oxide Nanoparticles: Impact of Water or Other Oxidizers in the Formation of either Fully Dense Onion-like or Multicomponent Hollow MnOx/FeOx Structures. <i>Chemistry of Materials</i> , 2016 , 28, 8025-8031	9.6	22
23	Relaxation phenomena in ensembles of CoFe ₂ O ₄ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 1182-1188	2.8	19
22	Relaxation times of colloidal iron platinum in polymer matrixes. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6381		17
21	The endocytic penetration mechanism of iron oxide magnetic nanoparticles with positively charged cover: a morphological approach. <i>International Journal of Molecular Medicine</i> , 2010 , 26, 533-9	4.4	17
20	Ex vivo assessment of polyol coated-iron oxide nanoparticles for MRI diagnosis applications: toxicological and MRI contrast enhancement effects. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	16
19	Magnetically amplified photothermal therapies and multimodal imaging with magneto-plasmonic nanodomains. <i>Applied Materials Today</i> , 2018 , 12, 430-440	6.6	15
18	Key Parameters for Scaling up the Synthesis of Magnetite Nanoparticles in Organic Media: Stirring Rate and Growth Kinetic. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 17841-17847	3.9	15

17	Structural determination of Bi-doped magnetite multifunctional nanoparticles for contrast imaging. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18301-10	3.6	13
16	Atomic-Scale Determination of Cation Inversion in Spinel-Based Oxide Nanoparticles. <i>Nano Letters</i> , 2018 , 18, 5854-5861	11.5	13
15	Magnetite nanoparticles embedded in biodegradable porous silicon. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 1343-1346	2.8	9
14	Effects of coating on magnetic properties in iron oxide nanoparticles. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 072012	0.3	8
13	Investigation of a Mesoporous Silicon Based Ferromagnetic Nanocomposite. <i>Nanoscale Research Letters</i> , 2009 , 5, 374-8	5	8
12	Combining X-Ray Whole Powder Pattern Modeling, Rietveld and Pair Distribution Function Analyses as a Novel Bulk Approach to Study Interfaces in Heteronanostructures: Oxidation Front in FeO/Fe ₃ O ₄ Core/Shell Nanoparticles as a Case Study. <i>Small</i> , 2018 , 14, e1800804	11	8
11	Unravelling the Elusive Antiferromagnetic Order in Wurtzite and Zinc Blende CoO Polymorph Nanoparticles. <i>Small</i> , 2018 , 14, e1703963	11	7
10	Magnetic behaviour of a magnetite/silicon nanocomposite. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 5685-5690	2.3	7
9	Effect of Frequency and Field Amplitude in Magnetic Hyperthermia. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 4054-4057	2	6
8	An Analysis of Minor Hysteresis Loops of Nanoparticles for Hyperthermia. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 2878-2881	2	6
7	INFLUENCE OF AGGREGATE COATING ON RELAXATIONS IN THE SYSTEMS OF IRON OXIDE NANOPARTICLES. <i>Nano</i> , 2012 , 07, 1250004	1.1	6
6	Zinc blende and wurtzite CoO polymorph nanoparticles: Rational synthesis and commensurate and incommensurate magnetic order. <i>Applied Materials Today</i> , 2019 , 16, 322-331	6.6	3
5	Direct Evidence of a Graded Magnetic Interface in Bimagnetic Core/Shell Nanoparticles Using Electron Magnetic Circular Dichroism (EMCD). <i>Nano Letters</i> , 2021 , 21, 6923-6930	11.5	2
4	Biomedical Applications of Magnetic Nanoparticles 2007 , 1-7		1
3	Reproducibility and Scalability of Magnetic Nanoheater Synthesis. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
2	Correlative Transmission Electron Microscopy of Highly Perfect Fe ₃ O ₄ Nanocubes. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1692-1693	0.5	
1	Synthesis and Applications of Anisotropic Magnetic Iron Oxide Nanoparticles 2021 , 65-89		