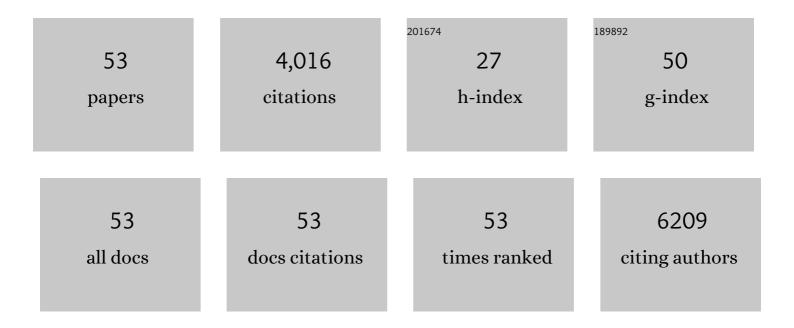
Alejandro G Roca

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Applications of exchange coupled bi-magnetic hard/soft and soft/hard magnetic core/shell nanoparticles. Physics Reports, 2015, 553, 1-32.	25.6	391
2	Progress in the preparation of magnetic nanoparticles for applications in biomedicine. Journal Physics D: Applied Physics, 2009, 42, 224002.	2.8	342
3	Structural and magnetic properties of uniform magnetite nanoparticles prepared by high temperature decomposition of organic precursors. Nanotechnology, 2006, 17, 2783-2788.	2.6	336
4	The influence of surface functionalization on the enhanced internalization of magnetic nanoparticles in cancer cells. Nanotechnology, 2009, 20, 115103.	2.6	299
5	Effect of Nature and Particle Size on Properties of Uniform Magnetite and Maghemite Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 18577-18584.	3.1	278
6	Surfactant effects in magnetite nanoparticles of controlled size. Journal of Magnetism and Magnetic Materials, 2007, 316, e756-e759.	2.3	273
7	Design strategies for shape-controlled magnetic iron oxide nanoparticles. Advanced Drug Delivery Reviews, 2019, 138, 68-104.	13.7	217
8	Uniform and water stable magnetite nanoparticles with diameters around the monodomain–multidomain limit. Journal Physics D: Applied Physics, 2008, 41, 134003.	2.8	208
9	Mechanisms of hyperthermia in magnetic nanoparticles. Journal Physics D: Applied Physics, 2013, 46, 312001.	2.8	197
10	Effect of Nanoparticle and Aggregate Size on the Relaxometric Properties of MR Contrast Agents Based on High Quality Magnetite Nanoparticles. Journal of Physical Chemistry B, 2009, 113, 7033-7039.	2.6	131
11	Magnetic nanoparticles with bulklike properties (invited). Journal of Applied Physics, 2011, 109, .	2.5	105
12	Fe K-Edge X-ray Absorption Spectroscopy Study of Nanosized Nominal Magnetite. Journal of Physical Chemistry C, 2014, 118, 1332-1346.	3.1	93
13	Magnetite nanoparticles with no surface spin canting. Journal of Applied Physics, 2009, 105, .	2.5	87
14	Precise Size Control of the Growth of Fe ₃ O ₄ Nanocubes over a Wide Size Range Using a Rationally Designed One-Pot Synthesis. ACS Nano, 2019, 13, 7716-7728.	14.6	79
15	Origin of the large dispersion of magnetic properties in nanostructured oxides: Fe _x O/Fe ₃ O ₄ nanoparticles as a case study. Nanoscale, 2015, 7, 3002-3015.	5.6	76
16	Surface anisotropy broadening of the energy barrier distribution in magnetic nanoparticles. Nanotechnology, 2008, 19, 475704.	2.6	75
17	Synthesis of Monodispersed Magnetite Particles From Different Organometallic Precursors. IEEE Transactions on Magnetics, 2006, 42, 3025-3029.	2.1	70
18	Seeded Growth Synthesis of Au–Fe ₃ O ₄ Heterostructured Nanocrystals: Rational Design and Mechanistic Insights. Chemistry of Materials, 2017, 29, 4022-4035.	6.7	67

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19	Liver and brain imaging through dimercaptosuccinic acid-coated iron oxide nanoparticles. Nanomedicine, 2010, 5, 397-408.	3.3	64
20	Magnetic Study of Fe[sub 3]O[sub 4] Nanoparticles Incorporated within Mesoporous Silicon. Journal of the Electrochemical Society, 2010, 157, K145.	2.9	50
21	Magnetic properties and energy absorption of CoFe ₂ O ₄ nanoparticles for magnetic hyperthermia. Journal of Physics: Conference Series, 2010, 200, 072101.	0.4	46
22	Synthesis of Magnetic Nanocrystals by Thermal Decomposition in Glycol Media: Effect of Process Variables and Mechanistic Study. Industrial & Engineering Chemistry Research, 2012, 51, 8348-8357.	3.7	43
23	Cytokine adsorption/release on uniform magnetic nanoparticles for localized drug delivery. Journal of Controlled Release, 2008, 130, 168-174.	9.9	38
24	Magnetically separable photocatalytic composite γ-Fe2O3@TiO2 synthesized by heterogeneous precipitation. Applied Surface Science, 2011, 257, 4844-4848.	6.1	38
25	A New Method for the Rapid Synthesis of Water Stable Superparamagnetic Nanoparticles. Chemistry - A European Journal, 2008, 14, 9126-9130.	3.3	32
26	Surface functionalization for tailoring the aggregation and magnetic behaviour of silica-coated iron oxide nanostructures. Nanotechnology, 2012, 23, 155603.	2.6	32
27	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 MnO _{<i>x</i>} /FeO _{<i>x</i>} Structures. Chemistry of Materials, 2016, 28, 8025-8031.	6.7	28
28	Application of nanoparticle tracking analysis for characterising the fate of engineered nanoparticles in sediment-water systems. Journal of Environmental Sciences, 2018, 64, 62-71.	6.1	28
29	A new method for the aqueous functionalization of superparamagnetic Fe ₂ O ₃ nanoparticles. Contrast Media and Molecular Imaging, 2008, 3, 215-222.	0.8	26
30	Atomic-Scale Determination of Cation Inversion in Spinel-Based Oxide Nanoparticles. Nano Letters, 2018, 18, 5854-5861.	9.1	24
31	The endocytic penetration mechanism of iron oxide magnetic nanoparticles with positively charged cover: A morphological approach. International Journal of Molecular Medicine, 2010, 26, 533-9.	4.0	20
32	Relaxation phenomena in ensembles of CoFe2O4 nanoparticles. Journal of Magnetism and Magnetic Materials, 2012, 324, 1182-1188.	2.3	20
33	Key Parameters for Scaling up the Synthesis of Magnetite Nanoparticles in Organic Media: Stirring Rate and Growth Kinetic. Industrial & Engineering Chemistry Research, 2013, 52, 17841-17847.	3.7	20
34	Magnetically amplified photothermal therapies and multimodal imaging with magneto-plasmonic nanodomes. Applied Materials Today, 2018, 12, 430-440.	4.3	20
35	Relaxation times of colloidal iron platinum in polymer matrixes. Journal of Materials Chemistry, 2009, 19, 6381.	6.7	19
36	Ex vivo assessment of polyol coated-iron oxide nanoparticles for MRI diagnosis applications: toxicological and MRI contrast enhancement effects. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	18

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37	Structural determination of Bi-doped magnetite multifunctional nanoparticles for contrast imaging. Physical Chemistry Chemical Physics, 2014, 16, 18301.	2.8	15
38	Combining Xâ€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. Small, 2018, 14, e1800804.	10.0	15
39	Effects of coating on magnetic properties in iron oxide nanoparticles. Journal of Physics: Conference Series, 2010, 200, 072012.	0.4	12
40	Unravelling the Elusive Antiferromagnetic Order in Wurtzite and Zinc Blende CoO Polymorph Nanoparticles. Small, 2018, 14, e1703963.	10.0	12
41	Investigation of a Mesoporous Silicon Based Ferromagnetic Nanocomposite. Nanoscale Research Letters, 2010, 5, 374-378.	5.7	10
42	Magnetite nanoparticles embedded in biodegradable porous silicon. Journal of Magnetism and Magnetic Materials, 2010, 322, 1343-1346.	2.3	10
43	Effect of Frequency and Field Amplitude in Magnetic Hyperthermia. IEEE Transactions on Magnetics, 2012, 48, 4054-4057.	2.1	8
44	Zinc blende and wurtzite CoO polymorph nanoparticles: Rational synthesis and commensurate and incommensurate magnetic order. Applied Materials Today, 2019, 16, 322-331.	4.3	8
45	Direct Evidence of a Graded Magnetic Interface in Bimagnetic Core/Shell Nanoparticles Using Electron Magnetic Circular Dichroism (EMCD). Nano Letters, 2021, 21, 6923-6930.	9.1	8
46	Magnetic behaviour of a magnetite/silicon nanocomposite. Journal of Nanoparticle Research, 2011, 13, 5685-5690.	1.9	7
47	An Analysis of Minor Hysteresis Loops of Nanoparticles for Hyperthermia. IEEE Transactions on Magnetics, 2011, 47, 2878-2881.	2.1	6
48	INFLUENCE OF AGGREGATE COATING ON RELAXATIONS IN THE SYSTEMS OF IRON OXIDE NANOPARTICLES. Nano, 2012, 07, 1250004.	1.0	6
49	Reproducibility and Scalability of Magnetic Nanoheater Synthesis. Nanomaterials, 2021, 11, 2059.	4.1	6
50	Biomedical Applications of Magnetic Nanoparticles. , 2007, , 1-7.		2
51	A Porous Silicon/Iron Oxide Nanocomposite with Superparamagnetic and Ferromagnetic Behavior. ECS Transactions, 2010, 33, 95-99.	0.5	1
52	Correlative Transmission Electron Microscopy of Highly Perfect Fe3O4 Nanocubes. Microscopy and Microanalysis, 2017, 23, 1692-1693.	0.4	0
53	Synthesis and Applications of Anisotropic Magnetic Iron Oxide Nanoparticles. , 2021, , 65-89.		0