

Alejandro G Roca

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.

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|-------------------|-------------------------|----------------|-----------------|
| 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 | Synthesis and Applications of Anisotropic Magnetic Iron Oxide Nanoparticles 2021 , 65-89 | | |
| 51 | Reproducibility and Scalability of Magnetic Nanoheater Synthesis. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 1 |
| 50 | 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 |
| 49 | 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 |
| 48 | 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 |
| 47 | Design strategies for shape-controlled magnetic iron oxide nanoparticles. <i>Advanced Drug Delivery Reviews</i> , 2019 , 138, 68-104 | 18.5 | 127 |
| 46 | Unravelling the Elusive Antiferromagnetic Order in Wurtzite and Zinc Blende CoO Polymorph Nanoparticles. <i>Small</i> , 2018 , 14, e1703963 | 11 | 7 |
| 45 | 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 |
| 44 | Magnetically amplified photothermal therapies and multimodal imaging with magneto-plasmonic nanodomains. <i>Applied Materials Today</i> , 2018 , 12, 430-440 | 6.6 | 15 |
| 43 | Atomic-Scale Determination of Cation Inversion in Spinel-Based Oxide Nanoparticles. <i>Nano Letters</i> , 2018 , 18, 5854-5861 | 11.5 | 13 |
| 42 | 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 |
| 41 | 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 |
| 40 | Correlative Transmission Electron Microscopy of Highly Perfect Fe ₃ O ₄ Nanocubes. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1692-1693 | 0.5 | |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | 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 |

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| 35 | 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 |
| 34 | Structural determination of Bi-doped magnetite multifunctional nanoparticles for contrast imaging. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18301-10 | 3.6 | 13 |
| 33 | Mechanisms of hyperthermia in magnetic nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 312001 | 3.0 | 169 |
| 32 | 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 |
| 31 | 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 |
| 30 | Effect of Frequency and Field Amplitude in Magnetic Hyperthermia. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 4054-4057 | 2 | 6 |
| 29 | Surface functionalization for tailoring the aggregation and magnetic behaviour of silica-coated iron oxide nanostructures. <i>Nanotechnology</i> , 2012 , 23, 155603 | 3.4 | 28 |
| 28 | 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 |
| 27 | INFLUENCE OF AGGREGATE COATING ON RELAXATIONS IN THE SYSTEMS OF IRON OXIDE NANOPARTICLES. <i>Nano</i> , 2012 , 07, 1250004 | 1.1 | 6 |
| 26 | Magnetic nanoparticles with bulklike properties (invited). <i>Journal of Applied Physics</i> , 2011 , 109, 07B524 | 2.5 | 92 |
| 25 | An Analysis of Minor Hysteresis Loops of Nanoparticles for Hyperthermia. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 2878-2881 | 2 | 6 |
| 24 | Magnetic behaviour of a magnetite/silicon nanocomposite. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 5685-5690 | 2.3 | 7 |
| 23 | 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 |
| 22 | Liver and brain imaging through dimercaptosuccinic acid-coated iron oxide nanoparticles. <i>Nanomedicine</i> , 2010 , 5, 397-408 | 5.6 | 57 |
| 21 | 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 |
| 20 | 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 |
| 19 | Effects of coating on magnetic properties in iron oxide nanoparticles. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 072012 | 0.3 | 8 |
| 18 | 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 |

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|----|--|------|-----|
| 17 | Magnetite nanoparticles embedded in biodegradable porous silicon. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 1343-1346 | 2.8 | 9 |
| 16 | Progress in the preparation of magnetic nanoparticles for applications in biomedicine. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 224002 | 3 | 295 |
| 15 | The influence of surface functionalization on the enhanced internalization of magnetic nanoparticles in cancer cells. <i>Nanotechnology</i> , 2009 , 20, 115103 | 3.4 | 267 |
| 14 | Magnetite nanoparticles with no surface spin canting. <i>Journal of Applied Physics</i> , 2009 , 105, 114309 | 2.5 | 73 |
| 13 | 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 |
| 12 | Relaxation times of colloidal iron platinum in polymer matrixes. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6381 | | 17 |
| 11 | Investigation of a Mesoporous Silicon Based Ferromagnetic Nanocomposite. <i>Nanoscale Research Letters</i> , 2009 , 5, 374-8 | 5 | 8 |
| 10 | Cytokine adsorption/release on uniform magnetic nanoparticles for localized drug delivery. <i>Journal of Controlled Release</i> , 2008 , 130, 168-74 | 11.7 | 36 |
| 9 | 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 |
| 8 | Surface anisotropy broadening of the energy barrier distribution in magnetic nanoparticles. <i>Nanotechnology</i> , 2008 , 19, 475704 | 3.4 | 68 |
| 7 | 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 |
| 6 | 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 |
| 5 | 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 |
| 4 | Surfactant effects in magnetite nanoparticles of controlled size. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e756-e759 | 2.8 | 250 |
| 3 | Biomedical Applications of Magnetic Nanoparticles 2007 , 1-7 | | 1 |
| 2 | Synthesis of Monodispersed Magnetite Particles From Different Organometallic Precursors. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 3025-3029 | 2 | 56 |
| 1 | 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 |