# Fernando Herranz

## List of Publications by Citations



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|---|---|---|---|
| 55 papers | 994 citations | 20 h-index | 29 g-index |
| 58 ext. papers | 1,138 ext. citations | 4.5 avg, IF | 4.1 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 55 | Cooperativity between T cell receptor complexes revealed by conformational mutants of CD3epsilon. *Science Signaling*, **2009**, 2, ra43 | 8.8 | 73 |
| 54 | Magnetic Capsules for NMR Imaging: Effect of Magnetic Nanoparticles Spatial Distribution and Aggregation. *Journal of Physical Chemistry C*, **2011**, 115, 6257-6264 | 3.8 | 72 |
| 53 | Short-chain PEG molecules strongly bound to magnetic nanoparticle for MRI long circulating agents. *Acta Biomaterialia*, **2013**, 9, 6421-30 | 10.8 | 70 |
| 52 | Fast synthesis and bioconjugation of (68) Ga core-doped extremely small iron oxide nanoparticles for PET/MR imaging. *Contrast Media and Molecular Imaging*, **2016**, 11, 203-10 | 3.2 | 54 |
| 51 | Design, synthesis, photophysics, and anion-binding studies of bis(dicyclohexylphosphino)methane-containing dinuclear gold(I) thiolate complexes with urea receptors. *Chemistry - A European Journal*, **2010**, 16, 9123-31 | 4.8 | 46 |
| 50 | Parallel multifunctionalization of nanoparticles: a one-step modular approach for in vivo imaging. *Bioconjugate Chemistry*, **2015**, 26, 153-60 | 6.3 | 36 |
| 49 | One-Step Fast Synthesis of Nanoparticles for MRI: Coating Chemistry as the Key Variable Determining Positive or Negative Contrast. *Langmuir*, **2017**, 33, 10239-10247 | 4 | 34 |
| 48 | Versatile theranostics agents designed by coating ferrite nanoparticles with biocompatible polymers. *Nanotechnology*, **2016**, 27, 255702 | 3.4 | 31 |
| 47 | A new method for the rapid synthesis of water stable superparamagnetic nanoparticles. *Chemistry - A European Journal*, **2008**, 14, 9126-30 | 4.8 | 30 |
| 46 | The application of nanoparticles in gene therapy and magnetic resonance imaging. *Microscopy Research and Technique*, **2011**, 74, 577-91 | 2.8 | 28 |
| 45 | Molecular recognition: improved binding of biotin derivatives with synthetic receptors. *Journal of Organic Chemistry*, **2006**, 71, 2944-51 | 4.2 | 28 |
| 44 | In vivo imaging of lung inflammation with neutrophil-specific Ga nano-radiotracer. *Scientific Reports* , **2017**, 7, 13242 | 4.9 | 26 |
| 43 | Iron Oxide Nanoparticles: An Alternative for Positive Contrast in Magnetic Resonance Imaging. *Inorganics*, **2020**, 8, 28 | 2.9 | 25 |
| 42 | Family of Bioactive Heparin-Coated Iron Oxide Nanoparticles with Positive Contrast in Magnetic Resonance Imaging for Specific Biomedical Applications. *Biomacromolecules*, **2017**, 18, 3156-3167 | 6.9 | 25 |
| 41 | A new method for the aqueous functionalization of superparamagnetic Fe2O3 nanoparticles. *Contrast Media and Molecular Imaging*, **2008**, 3, 215-22 | 3.2 | 24 |
| 40 | Molecular recognition of biotin, barbital and tolbutamide with new synthetic receptors. *Tetrahedron*, **2005**, 61, 5089-5100 | 2.4 | 24 |
| 39 | Cu-Doped Extremely Small Iron Oxide Nanoparticles with Large Longitudinal Relaxivity: One-Pot Synthesis and in Vivo Targeted Molecular Imaging. *ACS Omega*, **2019**, 4, 2719-2727 | 3.9 | 23 |

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| 38 | Phosphatidylcholine-coated iron oxide nanomicelles for in vivo prolonged circulation time with an antibiofouling protein corona. *Chemistry - A European Journal*, **2014**, 20, 16662-71 | 4.8 | 22 |
| 37 | Microwave-Driven Synthesis of Iron-Oxide Nanoparticles for Molecular Imaging. *Molecules*, **2019**, 24, | 4.8 | 21 |
| 36 | Recent advances in the preparation and application of multifunctional iron oxide and liposome-based nanosystems for multimodal diagnosis and therapy. *Interface Focus*, **2016**, 6, 20160055 | 3.9 | 21 |
| 35 | VSDMIP: virtual screening data management on an integrated platform. *Journal of Computer-Aided Molecular Design*, **2009**, 23, 171-84 | 4.2 | 19 |
| 34 | Towards the design of host-guest complexes: biotin and urea derivatives versus artificial receptors. *Biosensors and Bioelectronics*, **2004**, 20, 1242-9 | 11.8 | 19 |
| 33 | Superparamagnetic Nanoparticles for Atherosclerosis Imaging. *Nanomaterials*, **2014**, 4, 408-438 | 5.4 | 18 |
| 32 | T1MRI Fluorescent Iron Oxide Nanoparticles by Microwave Assisted Synthesis. *Nanomaterials*, **2015**, 5, 1880-1890 | 5.4 | 17 |
| 31 | Iron Oxide Nanoradiomaterials: Combining Nanoscale Properties with Radioisotopes for Enhanced Molecular Imaging. *Contrast Media and Molecular Imaging*, **2017**, 2017, 1549580 | 3.2 | 15 |
| 30 | A theoretical and experimental NMR study of (+)-biotin methyl ester. *Journal of Molecular Structure*, **2009**, 920, 323-326 | 3.4 | 15 |
| 29 | Magnetic resonance methods and applications in pharmaceutical research. *Journal of Pharmaceutical Sciences*, **2008**, 97, 3637-65 | 3.9 | 15 |
| 28 | Microwave-driven synthesis of bisphosphonate nanoparticles allows in vivo visualisation of atherosclerotic plaque. *RSC Advances*, **2015**, 5, 1661-1665 | 3.7 | 14 |
| 27 | Molecular Imaging with 68Ga Radio-Nanomaterials: Shedding Light on Nanoparticles. *Applied Sciences (Switzerland)*, **2018**, 8, 1098 | 2.6 | 13 |
| 26 | Unambiguous detection of atherosclerosis using bioorthogonal nanomaterials. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2019**, 17, 26-35 | 6 | 12 |
| 25 | Surface-Functionalized Nanoparticles by Olefin Metathesis: A Chemoselective Approach for In Vivo Characterization of Atherosclerosis Plaque. *Chemistry - A European Journal*, **2015**, 21, 10450-6 | 4.8 | 11 |
| 24 | The influence of cation incorporation and leaching in the properties of Mn-doped nanoparticles for biomedical applications. *Journal of Colloid and Interface Science*, **2020**, 578, 510-521 | 9.3 | 9 |
| 23 | Micellar Iron Oxide Nanoparticles Coated with Anti-Tumor Glycosides. *Nanomaterials*, **2018**, 8, | 5.4 | 9 |
| 22 | Protein corona and phospholipase activity drive selective accumulation of nanomicelles in atherosclerotic plaques. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2018**, 14, 643-650 | 6 | 8 |
| 21 | Olefin metathesis for the functionalization of superparamagnetic nanoparticles. *Bioinspired, Biomimetic and Nanobiomaterials*, **2012**, 1, 166-172 | 1.3 | 8 |

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| 20 | Superparamagnetic iron oxide nanoparticles conjugated to a grass pollen allergen and an optical probe. *Contrast Media and Molecular Imaging*, **2012**, 7, 435-9 | 3.2 | 8 |
| 19 | A new tool for the rational design of methylbiotin hosts. *Tetrahedron Letters*, **2006**, 47, 9017-9020 | 2 | 8 |
| 18 | Host-guest chemistry of tolbutamide. *Molecules*, **2006**, 11, 478-85 | 4.8 | 7 |
| 17 | Assessment of regional pulmonary blood flow using Ga-DOTA PET. *EJNMMI Research*, **2017**, 7, 7 | 3.6 | 6 |
| 16 | Doped-Iron Oxide Nanocrystals Synthesized by One-Step Aqueous Route for Multi-Imaging Purposes. *Journal of Physical Chemistry C*, **2019**, 123, 7356-7365 | 3.8 | 6 |
| 15 | Intramolecular interactions and photoinduced electron transfer in isoalloxazine-naphthalene bichromophores. *Journal of Photochemistry and Photobiology A: Chemistry*, **2009**, 203, 166-176 | 4.7 | 6 |
| 14 | Tuning photoinduced processes of covalently bound isoalloxazine and anthraquinone bichromophores. *Photochemical and Photobiological Sciences*, **2013**, 12, 813-22 | 4.2 | 4 |
| 13 | Thrombo-tag, an formed nanotracer for the detection of thrombi in mice by fast pre-targeted molecular imaging. *Nanoscale*, **2020**, 12, 22978-22987 | 7.7 | 4 |
| 12 | Quantitative assessment of myocardial blood flow and extracellular volume fraction using Ga-DOTA-PET: A feasibility and validation study in large animals. *Journal of Nuclear Cardiology*, **2020**, 27, 1249-1260 | 2.1 | 4 |
| 11 | Covalent functionalization of magnetic nanoparticles for biomedical imaging. *SPIE Newsroom*, **2012**, | | 3 |
| 10 | Iron Oxide Nanoparticle-Based MRI Contrast Agents: Characterization and In Vivo Use **2017**, 85-120 | | 2 |
| 9 | Smartphone-Based Colorimetric Method to Quantify Iron Concentration and to Determine the Nanoparticle Size from Suspensions of Magnetic Nanoparticles. *Particle and Particle Systems Characterization*, **2020**, 37, 2000032 | 3.1 | 2 |
| 8 | Magnetic Mesoporous Silica Nanorods Loaded with Ceria and Functionalized with Fluorophores for Multimodal Imaging.. *ACS Applied Nano Materials*, **2022**, 5, 2113-2125 | 5.6 | 2 |
| 7 | Delayed alveolar clearance of nanoparticles through control of coating composition and interaction with lung surfactant protein A.. *Materials Science and Engineering C*, **2021**, 112551 | 8.3 | 2 |
| 6 | Synthesis of 68Ga Core-doped Iron Oxide Nanoparticles for Dual Positron Emission Tomography /(T1)Magnetic Resonance Imaging. *Journal of Visualized Experiments*, **2018**, | 1.6 | 2 |
| 5 | Biodistribution of Ga-Radiolabeled Sphingolipid Nanoemulsions by PET and SPECT Imaging. *International Journal of Nanomedicine*, **2021**, 16, 5923-5935 | 7.3 | 2 |
| 4 | Microwave-driven Synthesis of Iron Oxide Nanoparticles for Fast Detection of Atherosclerosis. *Journal of Visualized Experiments*, **2016**, | 1.6 | 1 |
| 3 | Digitonin concentration is determinant for mitochondrial supercomplexes analysis by BlueNative page. *Biochimica Et Biophysica Acta - Bioenergetics*, **2021**, 1862, 148332 | 4.6 | 1 |

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| 2 | Highly Efficient T2 Cobalt Ferrite Nanoparticles Vectorized for Internalization in Cancer Cells. *Pharmaceuticals*, **2021**, 14, | 5.2 | 1 |
| 1 | HAP-Multitag, a PET and Positive MRI Contrast Nanotracer for the Longitudinal Characterization of Vascular Calcifications in Atherosclerosis. *ACS Applied Materials & Interfaces*, **2021**, 13, 45279-45290 | 9.5 | 0 |