

Sabino Veintemillas-Verdaguer

List of Publications by Citations

Source:

<https://exaly.com/author-pdf/3839452/sabino-veintemillas-verdaguer-publications-by-citations.pdf>

Version: 2024-04-25

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.

114
papers

6,332
citations

38
h-index

78
g-index

118
ext. papers

6,805
ext. citations

4.5
avg, IF

5.47
L-index

#	Paper	IF	Citations
114	The preparation of magnetic nanoparticles for applications in biomedicine. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, R182-R197	3	1490
113	Surface and Internal Spin Canting in Fe_2O_3 Nanoparticles. <i>Chemistry of Materials</i> , 1999 , 11, 3058-3064	9.6	553
112	Progress in the preparation of magnetic nanoparticles for applications in biomedicine. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 224002	3	295
111	The influence of surface functionalization on the enhanced internalization of magnetic nanoparticles in cancer cells. <i>Nanotechnology</i> , 2009 , 20, 115103	3.4	267
110	Advances in magnetic nanoparticles for biotechnology applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 28-34	2.8	190
109	Surface characterisation of dextran-coated iron oxide nanoparticles prepared by laser pyrolysis and coprecipitation. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 293, 20-27	2.8	142
108	Design strategies for shape-controlled magnetic iron oxide nanoparticles. <i>Advanced Drug Delivery Reviews</i> , 2019 , 138, 68-104	18.5	127
107	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
106	Continuous production of Fe_2O_3 ultrafine powders by laser pyrolysis. <i>Materials Letters</i> , 1998 , 35, 227-231	3.5	117
105	Fe-based nanoparticulate metallic alloys as contrast agents for magnetic resonance imaging. <i>Biomaterials</i> , 2005 , 26, 5695-703	15.6	106
104	Contrast agents for MRI based on iron oxide nanoparticles prepared by laser pyrolysis. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 266, 102-109	2.8	93
103	Biodistribution and pharmacokinetics of uniform magnetite nanoparticles chemically modified with polyethylene glycol. <i>Nanoscale</i> , 2013 , 5, 11400-8	7.7	84
102	Synthesis methods to prepare single- and multi-core iron oxide nanoparticles for biomedical applications. <i>Dalton Transactions</i> , 2015 , 44, 2943-52	4.3	84
101	Calorimetric Study of Magnetite Nanoparticles Synthesized by Laser-Induced Pyrolysis. <i>Chemistry of Materials</i> , 2008 , 20, 591-598	9.6	83
100	Comparative study of ferrofluids based on dextran-coated iron oxide and metal nanoparticles for contrast agents in magnetic resonance imaging. <i>Nanotechnology</i> , 2004 , 15, S154-S159	3.4	82
99	Homochirality as a consequence of thermodynamic equilibrium?. <i>Chemistry - A European Journal</i> , 2006 , 12, 7776-81	4.8	78
98	Ultrasmall iron oxide nanoparticles for biomedical applications: improving the colloidal and magnetic properties. <i>Langmuir</i> , 2012 , 28, 178-85	4	76

97	Magnetic Capsules for NMR Imaging: Effect of Magnetic Nanoparticles Spatial Distribution and Aggregation. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 6257-6264	3.8	72
96	Short-chain PEG molecules strongly bound to magnetic nanoparticle for MRI long circulating agents. <i>Acta Biomaterialia</i> , 2013 , 9, 6421-30	10.8	70
95	Synthesis of pyrimidines and triazines in ice: implications for the prebiotic chemistry of nucleobases. <i>Chemistry - A European Journal</i> , 2009 , 15, 4411-8	4.8	68
94	Spin frustration in maghemite nanoparticles. <i>Solid State Communications</i> , 2001 , 118, 437-440	1.6	60
93	Core-shell iron-iron oxide nanoparticles synthesized by laser-induced pyrolysis. <i>Small</i> , 2006 , 2, 1476-83	11	58
92	Effects of phase transfer ligands on monodisperse iron oxide magnetic nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2015 , 437, 147-155	9.3	57
91	Liver and brain imaging through dimercaptosuccinic acid-coated iron oxide nanoparticles. <i>Nanomedicine</i> , 2010 , 5, 397-408	5.6	57
90	Formation Mechanism of Maghemite Nanoflowers Synthesized by a Polyol-Mediated Process. <i>ACS Omega</i> , 2017 , 2, 7172-7184	3.9	56
89	chapter 5 Synthesis, Properties and Biomedical Applications of Magnetic Nanoparticles. <i>Handbook of Magnetic Materials</i> , 2006 , 16, 403-482	1.3	53
88	Thermal history dependence of the crystal structure of Co fine particles. <i>Physical Review B</i> , 2005 , 71,	3.3	53
87	Colloidal Flower-Shaped Iron Oxide Nanoparticles: Synthesis Strategies and Coatings. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1700094	3.1	49
86	Colloidal dispersions of maghemite nanoparticles produced by laser pyrolysis with application as NMR contrast agents. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 2054-2059	3	47
85	Relationship between physico-chemical properties of magnetic fluids and their heating capacity. <i>International Journal of Hyperthermia</i> , 2013 , 29, 768-76	3.7	46
84	Metastability in supersaturated solution and transition towards chirality in the crystallization of NaClO ₃ . <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2359-63	16.4	46
83	Large scale production of biocompatible magnetite nanocrystals with high saturation magnetization values through green aqueous synthesis. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 5995-6004	7.3	44
82	Effect of the process conditions on the structural and magnetic properties of Fe ₂ O ₃ nanoparticles produced by laser pyrolysis. <i>Scripta Materialia</i> , 2002 , 47, 589-593	5.6	44
81	PEG-copolymer-coated iron oxide nanoparticles that avoid the reticuloendothelial system and act as kidney MRI contrast agents. <i>Nanoscale</i> , 2018 , 10, 14153-14164	7.7	43
80	Particle Interactions in Liquid Magnetic Colloids by Zero Field Cooled Measurements: Effects on Heating Efficiency. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11022-11030	3.8	42

79	Chemical aspects of the effect of impurities in crystal growth. <i>Progress in Crystal Growth and Characterization of Materials</i> , 1996 , 32, 75-109	3.5	42
78	Whither Magnetic Hyperthermia? A Tentative Roadmap. <i>Materials</i> , 2021 , 14,	3.5	39
77	Spontaneous Transition toward Chirality in the NaClO ₃ Crystallization in Boiling Solutions. <i>Crystal Growth and Design</i> , 2009 , 9, 4802-4806	3.5	38
76	Ac magnetic susceptibility study of iron nanoparticle biodistribution. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 255002	3	36
75	Cytokine adsorption/release on uniform magnetic nanoparticles for localized drug delivery. <i>Journal of Controlled Release</i> , 2008 , 130, 168-74	11.7	36
74	Prebiotic microreactors: a synthesis of purines and dihydroxy compounds in aqueous aerosol. <i>Origins of Life and Evolution of Biospheres</i> , 2007 , 37, 123-42	1.5	35
73	Comparative analysis of the ¹ H NMR relaxation enhancement produced by iron oxide and core-shell iron-iron oxide nanoparticles. <i>Magnetic Resonance Imaging</i> , 2007 , 25, 1437-41	3.3	30
72	Continuous production of water dispersible carbon-iron nanocomposites by laser pyrolysis: application as MRI contrasts. <i>Journal of Colloid and Interface Science</i> , 2007 , 313, 511-8	9.3	30
71	Degradation of magnetic nanoparticles mimicking lysosomal conditions followed by AC susceptibility. <i>Biomedizinische Technik</i> , 2015 , 60, 417-25	1.3	29
70	Continuous production of inorganic magnetic nanocomposites for biomedical applications by laser pyrolysis. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 311, 120-124	2.8	29
69	Effect of the oxidation conditions on the maghemites produced by laser pyrolysis. <i>Applied Organometallic Chemistry</i> , 2001 , 15, 365-372	3.1	29
68	Growth habit and surface morphology of L-arginine phosphate monohydrate single crystals. <i>Journal of Crystal Growth</i> , 1995 , 155, 135-143	1.6	28
67	Bulk metastable cobalt in fcc crystal structure. <i>Journal of Alloys and Compounds</i> , 2013 , 580, 187-190	5.7	27
66	CH ₄ /N ₂ /H ₂ -spark hydrophobic tholins: A systematic approach to the characterisation of tholins. Part II. <i>Icarus</i> , 2009 , 204, 672-680	3.8	27
65	CH ₄ /N ₂ /H ₂ spark hydrophilic tholins: A systematic approach to the characterization of tholins. <i>Icarus</i> , 2008 , 198, 232-241	3.8	26
64	SAXS analysis of single- and multi-core iron oxide magnetic nanoparticles. <i>Journal of Applied Crystallography</i> , 2017 , 50, 481-488	3.8	24
63	The effect of stirring on sodium chlorate crystallization under symmetry breaking conditions. <i>Journal of Crystal Growth</i> , 2007 , 303, 562-567	1.6	24
62	Cu-Doped Extremely Small Iron Oxide Nanoparticles with Large Longitudinal Relaxivity: One-Pot Synthesis and in Vivo Targeted Molecular Imaging. <i>ACS Omega</i> , 2019 , 4, 2719-2727	3.9	23

61	Thermal wet decomposition of Prussian Blue: implications for prebiotic chemistry. <i>Chemistry and Biodiversity</i> , 2009 , 6, 1309-22	2.5	23
60	The effects of ferrous and other ions on the abiotic formation of biomolecules using aqueous aerosols and spark discharges. <i>Origins of Life and Evolution of Biospheres</i> , 2007 , 37, 507-21	1.5	23
59	Core/Shell Magnetite/Bismuth Oxide Nanocrystals with Tunable Size, Colloidal, and Magnetic Properties. <i>Chemistry of Materials</i> , 2012 , 24, 319-324	9.6	22
58	The Viedma deracemization of racemic conglomerate mixtures as a paradigm of spontaneous mirror symmetry breaking in aggregation and polymerization. <i>ChemPhysChem</i> , 2013 , 14, 3982-93	3.2	22
57	Laser pyrolysis preparation of SiO ₂ -coated magnetic nanoparticles for biomedical applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 272-275	2.8	22
56	Surface microtopographic study of KDP crystals grown at the boiling point. <i>Journal of Crystal Growth</i> , 1986 , 78, 144-154	1.6	22
55	Metastability in drowning-out crystallisation: precipitation of highly soluble sulphates. <i>Journal of Crystal Growth</i> , 2001 , 222, 317-327	1.6	20
54	Total-reflection X-ray fluorescence: An alternative tool for the analysis of magnetic ferrofluids. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008 , 63, 1387-1394	3.1	19
53	Magnetic nanoparticles prepared by laser pyrolysis. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 2616-2618		19
52	Combined Influence of Reagent Concentrations and Agar Hydrogel Strength on the Formation of Biomimetic Hydrogel/Calcite Composites. <i>Crystal Growth and Design</i> , 2018 , 18, 1401-1414	3.5	18
51	A thermodynamical approach to tetramethylsilane (TMS) pyrolysis; application to SiC coatings obtained by MOCVD. <i>Journal of Crystal Growth</i> , 1993 , 128, 349-353	1.6	18
50	Metastability in Supersaturated Solution and Transition towards Chirality in the Crystallization of NaClO ₃ . <i>Angewandte Chemie</i> , 2011 , 123, 2407-2411	3.6	17
49	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
48	Asymmetric chiral growth of micron-size NaClO ₃ crystals in water aerosols. <i>Physical Review Letters</i> , 2008 , 100, 146102	7.4	17
47	Contributions to the application of the transferability principle and the multipolar modeling of H atoms: electron-density study of L-histidinium dihydrogen orthophosphate orthophosphoric acid. I. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2006 , 62, 365-78		16
46	Counterion and solvent effects on the size of magnetite nanocrystals obtained by oxidative precipitation. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9482-9488	7.1	15
45	Bismuth labeling for the CT assessment of local administration of magnetic nanoparticles. <i>Nanotechnology</i> , 2015 , 26, 135101	3.4	14
44	Key Parameters on the Microwave Assisted Synthesis of Magnetic Nanoparticles for MRI Contrast Agents. <i>Contrast Media and Molecular Imaging</i> , 2017 , 2017, 8902424	3.2	14

43	Comments on a possible transition to solid-phase homochirality. <i>Chemistry - A European Journal</i> , 2007 , 13, 10303-5; author reply 10306-11	4.8	14
42	Synthesis of polycyclic aromatic hydrocarbons and acetylene polymers in ice: a prebiotic scenario. <i>Chemistry and Biodiversity</i> , 2008 , 5, 2729-39	2.5	14
41	On the formation of dislocation etch pits on L-arginine phosphate monohydrate single crystals. <i>Journal of Crystal Growth</i> , 1995 , 154, 364-369	1.6	14
40	Structural determination of Bi-doped magnetite multifunctional nanoparticles for contrast imaging. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18301-10	3.6	13
39	Improving magnetic properties of ultrasmall magnetic nanoparticles by biocompatible coatings. <i>Journal of Applied Physics</i> , 2015 , 117, 064311	2.5	13
38	Continuous production of magnetic iron oxide nanocrystals by oxidative precipitation. <i>Chemical Engineering Journal</i> , 2020 , 393, 124593	14.7	12
37	Synthesis of Fe ₃ O ₄ nanoparticles by cw CO ₂ laser assisted pyrolysis from gaseous precursors. <i>Applied Surface Science</i> , 2002 , 186, 562-567	6.7	12
36	Crystal growth from boiling solutions. <i>Progress in Crystal Growth and Characterization</i> , 1988 , 17, 1-40		12
35	Improving the reliability of the iron concentration quantification for iron oxide nanoparticle suspensions: a two-institutions study. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 1895-1903	4.4	12
34	Conversion of biogenic aragonite into hydroxyapatite scaffolds in boiling solutions. <i>CrystEngComm</i> , 2017 , 19, 110-116	3.3	11
33	Magnetic nanocrystals for biomedical applications. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2014 , 60, 80-86	3.5	11
32	Modeling of the laser pyrolysis process by means of the aerosol theory: Case of iron nanoparticles. <i>Journal of Applied Physics</i> , 2010 , 107, 014906	2.5	11
31	Some observations of growth hillocks and growth layers on potassium hydrogen tartrate crystals. <i>Crystal Research and Technology</i> , 1994 , 29, 639-645	1.3	11
30	Criteria for growing crystals from boiling solutions. <i>Journal of Crystal Growth</i> , 1987 , 83, 367-375	1.6	10
29	KDP (KH ₂ PO ₄) growth from boiling solutions. <i>Ferroelectrics</i> , 1984 , 56, 41-44	0.6	10
28	Achiral-to-chiral transition in benzil solidification: analogies with racemic conglomerates systems showing deracemization. <i>Chirality</i> , 2013 , 25, 393-9	2.1	9
27	Size sorting of ultrasmall magnetic nanoparticles and their aggregates behaviour. <i>Materials Research Bulletin</i> , 2013 , 48, 4294-4300	5.1	8
26	Engineering Iron Oxide Nanocatalysts by a Microwave-Assisted Polyol Method for the Magnetically Induced Degradation of Organic Pollutants. <i>Nanomaterials</i> , 2021 , 11,	5.4	8

25	Hydrothermal alteration of aragonitic biocarbonates: assessment of micro- and nanostructural dissolution-precipitation and constraints of diagenetic overprint from quantitative statistical grain-area analysis. <i>Biogeosciences</i> , 2018 , 15, 7451-7484	4.6	8
24	Effect of the Sodium Polyacrylate on the Magnetite Nanoparticles Produced by Green Chemistry Routes: Applicability in Forward Osmosis. <i>Nanomaterials</i> , 2018 , 8,	5.4	7
23	Crystal growth of potassium hydrogen tartrate from aqueous solution. <i>Journal of Crystal Growth</i> , 1990 , 99, 211-216	1.6	7
22	Doped-Iron Oxide Nanocrystals Synthesized by One-Step Aqueous Route for Multi-Imaging Purposes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7356-7365	3.8	6
21	Decoration of growth and dissolution steps on the surfaces of L-arginine phosphate monohydrate crystals. <i>Journal of Crystal Growth</i> , 1994 , 140, 447-450	1.6	6
20	Selective Magnetic Nanoheating: Combining Iron Oxide Nanoparticles for Multi-Hot-Spot Induction and Sequential Regulation. <i>Nano Letters</i> , 2021 , 21, 7213-7220	11.5	6
19	Detailed magnetic monitoring of the enhanced magnetism of ferrihydrite along its progressive transformation into hematite. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 4118-4129	3.6	5
18	On the effect of carbonate on barite growth at elevated temperatures. <i>American Mineralogist</i> , 2013 , 98, 1235-1240	2.9	5
17	One step production of magnetic nanoparticle films by laser pyrolysis inside a chemical vapour deposition reactor. <i>Thin Solid Films</i> , 2011 , 519, 7677-7682	2.2	5
16	Size dependent allotropic transition of Co fine particles. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4472-7	1.3	5
15	Solubility and activity coefficients of lead chloride in potassium nitrate solutions at 25 °C and at boiling. Calculation of the supersaturation. <i>Canadian Journal of Chemistry</i> , 1993 , 71, 1259-1264	0.9	4
14	Unravelling an amine-regulated crystallization crossover to prove single/multicore effects on the biomedical and environmental catalytic activity of magnetic iron oxide colloids. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 1585-1597	9.3	4
13	Iron Oxide Materials Produced by Laser Pyrolysis 2010 ,		3
12	Fighting cancer with magnetic nanoparticles and immunotherapy 2012 ,		2
11	Reproducibility of the Synthesis of Iron Oxide Nanoparticles Produced by Laser Pyrolysis 2010 ,		2
10	Dipyramidal habit of flux-grown cobalt-tin doped barium ferrite. <i>Journal of Crystal Growth</i> , 1992 , 121, 247-249	1.6	2
9	Lead chloride crystal growth from boiling solutions. <i>Journal of Crystal Growth</i> , 1993 , 128, 1282-1287	1.6	2
8	Slow magnetic relaxation in well crystallized, monodispersed, octahedral and spherical magnetite nanoparticles. <i>AIP Advances</i> , 2019 , 9, 125143	1.5	2

7	Biomaterial Reactivity: The Kinetics of the Replacement Reaction of Biological Aragonite to Apatite. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 315	2.4	2
6	Enantioselective Crystallization of Sodium Chlorate in the Presence of Racemic Hydrophobic Amino Acids and Static Magnetic Fields. <i>Challenges</i> , 2014 , 5, 175-192	3.4	1
5	Functionalisation of glass with iron oxide nanoparticles produced by laser pyrolysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 2458-62	1.3	1
4	Temperature dependence of the magnetic interactions taking place in monodisperse magnetite nanoparticles having different morphologies. <i>AIP Advances</i> , 2021 , 11, 015025	1.5	1
3	Reproducibility and Scalability of Magnetic Nanoheater Synthesis. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
2	Nanoparticles for Neural Applications 2022 , 149-184		1
1	Sol-gel Magnetic Materials 2015 , 813-840		