MarÃ-a Luisa GarcÃ-a-MartÃ-n

List of Publications by Year
in descending order

69 papers	2,716 citations	172457 29 h-index	189892 50 g-index
70 all docs	70 docs citations	70 times ranked	4140 citing authors

#	ARTICLE	IF	CITATIONS
1	pH imaging. IEEE Engineering in Medicine and Biology Magazine, 2004, 23, 57-64.	0.8	321
2	High resolution pHe imaging of rat glioma using pH-dependent relaxivity. Magnetic Resonance in Medicine, 2006, 55, 309-315.	3.0	156
3	The redox switch/redox coupling hypothesis. Neurochemistry International, 2006, 48, 523-530.	3.8	131
4	Magnetic Nanoparticles as MRI Contrast Agents. Topics in Current Chemistry, 2020, 378, 40.	5.8	127
5	The extracellular matrix protects Bacillus subtilis colonies from Pseudomonas invasion and modulates plant co-colonization. Nature Communications, 2019, 10, 1919.	12.8	102
6	Long-circulating PEGylated manganese ferrite nanoparticles for MRI-based molecular imaging. Nanoscale, 2015, 7, 2050-2059.	5.6	101
7	Engineering biofunctional magnetic nanoparticles for biotechnological applications. Nanoscale, 2010, 2, 1746.	5.6	96
8	Heterogeneous surface architectured metal-organic frameworks for cancer therapy, imaging, and biosensing: A state-of-the-art review. Coordination Chemistry Reviews, 2020, 409, 213212.	18.8	93
9	¹H HRâ€MAS and genomic analysis of human tumor biopsies discriminate between high and low grade astrocytomas. NMR in Biomedicine, 2009, 22, 629-637.	2.8	78
10	Paramagnetic Gd-based gold glyconanoparticles as probes for MRI: tuning relaxivities with sugars. Chemical Communications, 2009, , 3922.	4.1	77
11	Imaging the extracellular pH of tumors by MRI after injection of a single cocktail of T₁ and T₂ contrast agents. NMR in Biomedicine, 2011, 24, 1380-1391.	2.8	73
12	Serial In vivo Spectroscopic Nuclear Magnetic Resonance Imaging of Lactate and Extracellular pH in Rat Gliomas Shows Redistribution of Protons Away from Sites of Glycolysis. Cancer Research, 2007, 67, 7638-7645.	0.9	72
13	Cerebral glucose metabolism and the glutamine cycle as detected by in vivo and in vitro 13C NMR spectroscopy. Neurochemistry International, 2004, 45, 297-303.	3.8	65
14	Iron oxide nanoparticles as magnetic relaxation switching (MRSw) sensors: Current applications in nanomedicine. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1253-1262.	3.3	62
15	Metabolism of (1-13C) glucose and (2-13C, 2-2H3) acetate in the neuronal and glial compartments of the adult rat brain as detected by ?13C, 2H? NMR spectroscopy. Neurochemistry International, 2000, 37, 217-228.	3.8	54
16	Longitudinal diffusion tensor imaging in a rat brain glioma model. NMR in Biomedicine, 2008, 21, 799-808.	2.8	44
17	Perturbation of mouse glioma MRS pattern by induced acute hyperglycemia. NMR in Biomedicine, 2008, 21, 251-264.	2.8	39
18	HoF₃ and DyF₃ Nanoparticles as Contrast Agents for Highâ€Field Magnetic Resonance Imaging. Particle and Particle Systems Characterization, 2017, 34, 1700116.	2.3	38

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19	Bacteria-Carried Iron Oxide Nanoparticles for Treatment of Anemia. Bioconjugate Chemistry, 2018, 29, 1785-1791.	3.6	36
20	Role of glial metabolism in diabetic encephalopathy as detected by high resolution13C NMR. NMR in Biomedicine, 2003, 16, 440-449.	2.8	35
21	The metabolism of water in cells and tissues as detected by NMR methods. Progress in Nuclear Magnetic Resonance Spectroscopy, 2001, 39, 41-77.	7.5	34
22	Intracellular water motion decreases in apoptotic macrophages after caspase activation. Cell Death and Differentiation, 2001, 8, 1022-1028.	11.2	34
23	Understanding developmental and adaptive cues in pine through metabolite profiling and co-expression network analysis. Journal of Experimental Botany, 2015, 66, 3113-3127.	4.8	34
24	Metabolic profiling and targeted lipidomics reveals a disturbed lipid profile in mothers and fetuses with intrauterine growth restriction. Scientific Reports, 2018, 8, 13614.	3.3	34
25	Fe3O4-Au Core-Shell Nanoparticles as a Multimodal Platform for In Vivo Imaging and Focused Photothermal Therapy. Pharmaceutics, 2021, 13, 416.	4.5	34
26	The â€˜Omicsâ€™ of Amyotrophic Lateral Sclerosis. Trends in Molecular Medicine, 2016, 22, 53-67.	6.7	33
27	Comprehensive Toxicity Assessment of PEGylated Magnetic Nanoparticles for in vivo applications. Colloids and Surfaces B: Biointerfaces, 2019, 177, 253-259.	5.0	33
28	Bi-Magnetic Core-Shell CoFe2O4@MnFe2O4 Nanoparticles for In Vivo Theranostics. Nanomaterials, 2020, 10, 907.	4.1	33
29	Targeting of lanthanide(III) chelates of DOTA-type glycoconjugates to the hepatic asyaloglycoprotein receptor: cell internalization and animal imaging studies. Contrast Media and Molecular Imaging, 2006, 1, 246-258.	0.8	31
30	Passive targeting of high-grade gliomas via the EPR effect: a closed path for metallic nanoparticles?. Biomaterials Science, 2021, 9, 7984-7995.	5.4	31
31	Manganese-Based Nanogels as pH Switches for Magnetic Resonance Imaging. Biomacromolecules, 2017, 18, 1617-1623.	5.4	30
32	Surface architectured black phosphorous nanoconstructs based smart and versatile platform for cancer theranostics. Coordination Chemistry Reviews, 2021, 435, 213826.	18.8	29
33	Quantitative ¹H MR spectroscopic imaging of the prostate gland using LCModel and a dedicated basisâ€set: Correlation with histologic findings. Magnetic Resonance in Medicine, 2011, 65, 329-339.	3.0	28
34	Synthesis and Characterization of Elongated-Shaped Silver Nanoparticles as a Biocompatible Anisotropic SERS Probe for Intracellular Imaging: Theoretical Modeling and Experimental Verification. Nanomaterials, 2019, 9, 256.	4.1	27
35	In vivo pharmacokinetics of T₂ contrast agents based on iron oxide nanoparticles: optimization of blood circulation times. RSC Advances, 2015, 5, 76883-76891.	3.6	26
36	Shedding light on zwitterionic magnetic nanoparticles: limitations for in vivo applications. Nanoscale, 2017, 9, 8176-8184.	5.6	26

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37	Hydrogen Turnover and Subcellular Compartmentation of Hepatic [2-13C]Glutamate and [3-13C]Aspartate as Detected by 13C NMR. Journal of Biological Chemistry, 2002, 277, 7799-7807.	3.4	25
38	Kinetic properties of the redox switch/redox coupling mechanism as determined in primary cultures of cortical neurons and astrocytes from rat brain. Journal of Neuroscience Research, 2007, 85, 3244-3253.	2.9	25
39	Application of Inorganic Nanoparticles for Diagnosis Based on MRI. Frontiers of Nanoscience, 2012, 4, 233-245.	0.6	23
40	Imaging hypothalamic activity using diffusion weighted magnetic resonance imaging in the mouse and human brain. NeuroImage, 2013, 64, 448-457.	4.2	23
41	Highly water-stable rare ternary Agâ€“Auâ€“Se nanocomposites as long blood circulation time X-ray computed tomography contrast agents. Nanoscale, 2017, 9, 7242-7251.	5.6	22
42	Molecular imaging of breast cancer: present and future directions. Frontiers in Chemistry, 2014, 2, 112.	3.6	21
43	Increased levels of tumour necrosis factor alpha (<scp>TNF</scp>Î±) but not transforming growth factorâ€beta 1 (<scp>TGF</scp>Î²1) are associated with the severity of congenital hydrocephalus in the hyh mouse. Neuropathology and Applied Neurobiology, 2014, 40, 911-932.	3.2	21
44	Multifunctional Eu-doped NaGd(MoO₄)₂ nanoparticles functionalized with poly(<scp>l</scp>-lysine) for optical and MRI imaging. Dalton Transactions, 2016, 45, 16354-16365.	3.3	21
45	<scp>ARALAR</scp>/<scp>AGC</scp>1 deficiency, a neurodevelopmental disorder with severe impairment of neuronal mitochondrial respiration, does not produce a primary increase in brain lactate. Journal of Neurochemistry, 2017, 142, 132-139.	3.9	20
46	In Vivo Pharmacokinetics of Magnetic Nanoparticles. Methods in Molecular Biology, 2018, 1718, 409-419.	0.9	18
47	Paired maternal and fetal metabolomics reveal a differential fingerprint in preeclampsia versus fetal growth restriction. Scientific Reports, 2021, 11, 14422.	3.3	16
48	An iron-based T 1 contrast agent made of iron-phosphate complexes: In vitro and in vivo studies. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2007, 20, 27-37.	2.0	15
49	Holmium phosphate nanoparticles as negative contrast agents for high-field magnetic resonance imaging: Synthesis, magnetic relaxivity study and in vivo evaluation. Journal of Colloid and Interface Science, 2021, 587, 131-140.	9.4	15
50	Engineering of stealth (maghemite/PLGA)/chitosan (core/shell)/shell nanocomposites with potential applications for combined MRI and hyperthermia against cancer. Journal of Materials Chemistry B, 2021, 9, 4963-4980.	5.8	15
51	Gd(III)â€EPTPAC₁₆, a new selfâ€assembling potential liver MRI contrast agent: in vitro characterization and in vivo animal imaging studies. NMR in Biomedicine, 2008, 21, 322-336.	2.8	14
52	Clickable iron oxide NPs based on catechol derived ligands: synthesis and characterization. Soft Matter, 2020, 16, 3257-3266.	2.7	14
53	Influence of a Silica Interlayer on the Structural and Magnetic Properties of Solâ€“Gel TiO₂-Coated Magnetic Nanoparticles. Langmuir, 2014, 30, 5238-5247.	3.5	13
54	Multifunctional Magnetic and Upconverting Nanobeads as Dual Modal Imaging Tools. Bioconjugate Chemistry, 2017, 28, 2707-2714.	3.6	13

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55	Ironâ€“Gold Nanoflowers: A Promising Tool for Multimodal Imaging and Hyperthermia Therapy. Pharmaceutics, 2022, 14, 636.	4.5	13
56	Dysprosium and Holmium Vanadate Nanoprobes as High-Performance Contrast Agents for High-Field Magnetic Resonance and Computed Tomography Imaging. Inorganic Chemistry, 2021, 60, 152-160.	4.0	12
57	Inorganic Nitrogen Form Determines Nutrient Allocation and Metabolic Responses in Maritime Pine Seedlings. Plants, 2020, 9, 481.	3.5	10
58	In Vivo 1H Magnetic Resonance Spectroscopy. Methods in Molecular Biology, 2018, 1718, 151-167.	0.9	8
59	A new metabolic disorder in human cationic amino acid transporterâ€2 that mimics arginase 1 deficiency in newborn screening. Journal of Inherited Metabolic Disease, 2019, 42, 407-413.	3.6	7
60	Design of a nanoprobe for high field magnetic resonance imaging, dual energy X-ray computed tomography and luminescent imaging. Journal of Colloid and Interface Science, 2020, 573, 278-286.	9.4	7
61	PEGylated Terbium-Based Nanorods as Multimodal Bioimaging Contrast Agents. ACS Applied Nano Materials, 2021, 4, 4199-4207.	5.0	7
62	Neocortical tissue recovery in severe congenital obstructive hydrocephalus after intraventricular administration of bone marrow-derived mesenchymal stem cells. Stem Cell Research and Therapy, 2020, 11, 121.	5.5	6
63	Spatially Resolved Bioenergetic and Genetic Reprogramming Through the Brain of Rats Bearing Implanted C6 Gliomas As Detected by Multinuclear High-Resolution Magic Angle Spinning and Genomic Analysis. Journal of Proteome Research, 2018, 17, 2953-2962.	3.7	5
64	A Distinct Metabolite Profile Correlates with Neurodegenerative Conditions and the Severity of Congenital Hydrocephalus. Journal of Neuropathology and Experimental Neurology, 2018, 77, 1122-1136.	1.7	4
65	A method to measure lactate recycling in cultured cells by edited 1H nuclear magnetic resonance spectroscopy. Analytical Biochemistry, 2007, 370, 246-248.	2.4	3
66	Biological Implications of a Stroke Therapy Based in Neuroglobin Hyaluronate Nanoparticles. Neuroprotective Role and Molecular Bases. International Journal of Molecular Sciences, 2022, 23, 247.	4.1	3
67	Structural Studies of 5-Ethyl-2â€²-Deoxyuridine by Selective Pulse¹H DPFGSE NOE Spectroscopy and PM3 Calculations. Nucleosides & Nucleotides, 1999, 18, 1067-1068.	0.5	0
68	Effect of acute hyperglycemia on moderately hypothermic GL261 mouse glioma monitored by T1-weighted DCE MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2015, 28, 119-126.	2.0	0
69	208: Metabolic profiling and targeted lipidomics in small for gestational age and fetal growth restriction. American Journal of Obstetrics and Gynecology, 2019, 220, S150-S151.	1.3	0