

Jesus Ruiz-Cabello

List of Publications by Year in descending order

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197
papers

7,901
citations

53660

45
h-index

62479

80
g-index

202
all docs

202
docs citations

202
times ranked

13133
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutrophils scan for activated platelets to initiate inflammation. <i>Science</i> , 2014, 346, 1234-1238.	6.0	516
2	Fluorine (¹⁹ F) MRS and MRI in biomedicine. <i>NMR in Biomedicine</i> , 2011, 24, 114-129.	1.6	429
3	Dual-Modality Monitoring of Targeted Intraarterial Delivery of Mesenchymal Stem Cells After Transient Ischemia. <i>Stroke</i> , 2008, 39, 1569-1574.	1.0	371
4	Mitochondrial and nuclear DNA matching shapes metabolism and healthy ageing. <i>Nature</i> , 2016, 535, 561-565.	13.7	333
5	Phospholipid metabolites as indicators of cancer cell function. <i>NMR in Biomedicine</i> , 1992, 5, 226-233.	1.6	221
6	Programmed "disarming" of the neutrophil proteome reduces the magnitude of inflammation. <i>Nature Immunology</i> , 2020, 21, 135-144.	7.0	180
7	High-b-Value Diffusion-weighted MR Imaging for Pretreatment Prediction and Early Monitoring of Tumor Response to Therapy in Mice. <i>Radiology</i> , 2004, 232, 685-692.	3.6	155
8	In vivo "hot spot" MR imaging of neural stem cells using fluorinated nanoparticles. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 1506-1511.	1.9	143
9	High-resolution MRI detects cartilage swelling at the early stages of experimental osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2001, 9, 463-472.	0.6	141
10	Na ⁺ controls hypoxic signalling by the mitochondrial respiratory chain. <i>Nature</i> , 2020, 586, 287-291.	13.7	139
11	Stress-Induced Depressive Behaviors Require a Functional NLRP3 Inflammasome. <i>Molecular Neurobiology</i> , 2016, 53, 4874-4882.	1.9	134
12	Helium-3 MRI diffusion coefficient: correlation to morphometry in a model of mild emphysema. <i>European Respiratory Journal</i> , 2003, 22, 14-19.	3.1	128
13	Fe-based nanoparticulate metallic alloys as contrast agents for magnetic resonance imaging. <i>Biomaterials</i> , 2005, 26, 5695-5703.	5.7	115
14	Probiotics Prevent Dysbiosis and the Rise in Blood Pressure in Genetic Hypertension: Role of Short-Chain Fatty Acids. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e1900616.	1.5	113
15	NLRP3 inflammasome suppression improves longevity and prevents cardiac aging in male mice. <i>Aging Cell</i> , 2020, 19, e13050.	3.0	111
16	Myocardial VHL-HIF Signaling Controls an Embryonic Metabolic Switch Essential for Cardiac Maturation. <i>Developmental Cell</i> , 2016, 39, 724-739.	3.1	106
17	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.	1.0	105
18	Exercise Triggers ARVC Phenotype in Mice Expressing a Disease-Causing Mutated Version of Human Plakophilin-2. <i>Journal of the American College of Cardiology</i> , 2015, 65, 1438-1450.	1.2	104

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19	Fluorocapsules for Improved Function, Immunoprotection, and Visualization of Cellular Therapeutics with MR, US, and CT Imaging. <i>Radiology</i> , 2011, 258, 182-191.	3.6	100
20	Gene expression profiling reveals early cellular responses to intracellular magnetic labeling with superparamagnetic iron oxide nanoparticles. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 1031-1043.	1.9	99
21	In Vivo proton spectroscopy and spectroscopic imaging of {1-13C}-glucose and its metabolic products. <i>Magnetic Resonance in Medicine</i> , 1993, 30, 544-551.	1.9	98
22	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.	1.3	88
23	A Modular Labeling Strategy for In Vivo PET and Near-Infrared Fluorescence Imaging of Nanoparticle Tumor Targeting. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1706-1711.	2.8	85
24	AMPK Phosphorylation Modulates Pain by Activation of NLRP3 Inflammasome. <i>Antioxidants and Redox Signaling</i> , 2016, 24, 157-170.	2.5	85
25	Use of perfluorocarbon nanoparticles for noninvasive multimodal cell tracking of human pancreatic islets. <i>Contrast Media and Molecular Imaging</i> , 2011, 6, 251-259.	0.4	83
26	Magneto-electroporation: improved labeling of neural stem cells and leukocytes for cellular magnetic resonance imaging using a single FDA-approved agent. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2006, 2, 89-94.	1.7	81
27	A metabolomic approach for diagnosis of experimental sepsis. <i>Intensive Care Medicine</i> , 2011, 37, 2023-2032.	3.9	80
28	Tumor Necrosis Factor- α Increases the Steady-state Reduction of Cytochrome b of the Mitochondrial Respiratory Chain in Metabolically Inhibited L929 Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 13353-13361.	1.6	78
29	p38 β is essential for cell cycle progression and liver tumorigenesis. <i>Nature</i> , 2019, 568, 557-560.	13.7	72
30	Fast synthesis and bioconjugation of ^{68}Ga core-shell extremely small iron oxide nanoparticles for PET/MR imaging. <i>Contrast Media and Molecular Imaging</i> , 2016, 11, 203-210.	0.4	68
31	Mealiness assessment in apples and peaches using MRI techniques. <i>Magnetic Resonance Imaging</i> , 2000, 18, 1175-1181.	1.0	66
32	Ablation of the stress protease OMA1 protects against heart failure in mice. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	66
33	Regulation of Mother-to-Offspring Transmission of mtDNA Heteroplasmy. <i>Cell Metabolism</i> , 2019, 30, 1120-1130.e5.	7.2	66
34	The novel DNA methylation inhibitor zebularine is effective against the development of murine T-cell lymphoma. <i>Blood</i> , 2006, 107, 1174-1177.	0.6	64
35	Liver and brain imaging through dimercaptosuccinic acid-coated iron oxide nanoparticles. <i>Nanomedicine</i> , 2010, 5, 397-408.	1.7	64
36	β_3 adrenergic receptor selective stimulation during ischemia/reperfusion improves cardiac function in translational models through inhibition of mPTP opening in cardiomyocytes. <i>Basic Research in Cardiology</i> , 2014, 109, 422.	2.5	63

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37	Hybrid Decorated Core@Shell Janus Nanoparticles as a Flexible Platform for Targeted Multimodal Molecular Bioimaging of Cancer. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31032-31043.	4.0	61
38	Long-Term Dabigatran Treatment Delays Alzheimer's Disease Pathogenesis in the TgCRND8 Mouse Model. <i>Journal of the American College of Cardiology</i> , 2019, 74, 1910-1923.	1.2	61
39	Effects of oxygen and glucose deprivation on the expression and distribution of neuronal and inducible nitric oxide synthases and on protein nitration in rat cerebral cortex. <i>Journal of Comparative Neurology</i> , 2002, 443, 183-200.	0.9	58
40	Cooperation between Cdk4 and p27kip1 in Tumor Development: A Preclinical Model to Evaluate Cell Cycle Inhibitors with Therapeutic Activity. <i>Cancer Research</i> , 2005, 65, 3846-3852.	0.4	55
41	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.	1.3	54
42	A novel R-package graphic user interface for the analysis of metabonomic profiles. <i>BMC Bioinformatics</i> , 2009, 10, 363.	1.2	54
43	MKK6 controls T3-mediated browning of white adipose tissue. <i>Nature Communications</i> , 2017, 8, 856.	5.8	54
44	NLRP3-inflammasome inhibition prevents high fat and high sugar diets-induced heart damage through autophagy induction. <i>Oncotarget</i> , 2017, 8, 99740-99756.	0.8	53
45	Descriptive review of current NMR-based metabolomic data analysis packages. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2011, 59, 263-270.	3.9	51
46	Vascular smooth muscle cell-specific progerin expression in a mouse model of Hutchinson's Gilford progeria syndrome promotes arterial stiffness: Therapeutic effect of dietary nitrite. <i>Aging Cell</i> , 2019, 18, e12936.	3.0	51
47	Tumor Necrosis Factor- α Increases ATP Content in Metabolically Inhibited L929 Cells Preceding Cell Death. <i>Journal of Biological Chemistry</i> , 1997, 272, 30167-30177.	1.6	49
48	Mealiness assessment in apples using MRI techniques. <i>Magnetic Resonance Imaging</i> , 1999, 17, 275-281.	1.0	47
49	Experimental methods for flow and aerosol measurements in human airways and their replicas. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 113, 95-131.	1.9	46
50	Fingerprinting-based metabolomic approach with LC-MS to sleep apnea and hypopnea syndrome: A pilot study. <i>Electrophoresis</i> , 2013, 34, 2873-2881.	1.3	45
51	Metabolomics Reveals Metabolite Changes in Acute Pulmonary Embolism. <i>Journal of Proteome Research</i> , 2014, 13, 805-816.	1.8	45
52	Probiotic <i>Bifidobacterium breve</i> prevents DOCA-salt hypertension. <i>FASEB Journal</i> , 2020, 34, 13626-13640.	0.2	45
53	Iron Oxide Nanoparticles: An Alternative for Positive Contrast in Magnetic Resonance Imaging. <i>Inorganics</i> , 2020, 8, 28.	1.2	45
54	Gradient-enhanced heteronuclear correlation spectroscopy. Theory and experimental aspects. <i>Journal of Magnetic Resonance</i> , 1992, 100, 282-302.	0.5	44

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55	One-Step Fast Synthesis of Nanoparticles for MRI: Coating Chemistry as the Key Variable Determining Positive or Negative Contrast. <i>Langmuir</i> , 2017, 33, 10239-10247.	1.6	43
56	The application of nanoparticles in gene therapy and magnetic resonance imaging. <i>Microscopy Research and Technique</i> , 2011, 74, 577-591.	1.2	40
57	Non-destructive seed detection in mandarins: Comparison of automatic threshold methods in FLASH and COMSPIRA MRIs. <i>Postharvest Biology and Technology</i> , 2008, 47, 189-198.	2.9	39
58	Role of Peroxynitrite in Sepsis-Induced Acute Kidney Injury in an Experimental Model of Sepsis in Rats. <i>Shock</i> , 2012, 38, 403-410.	1.0	39
59	Parallel Multifunctionalization of Nanoparticles: A One-Step Modular Approach for in Vivo Imaging. <i>Bioconjugate Chemistry</i> , 2015, 26, 153-160.	1.8	39
60	In vivo imaging of lung inflammation with neutrophil-specific ⁶⁸ Ga nano-radiotracer. <i>Scientific Reports</i> , 2017, 7, 13242.	1.6	37
61	Family of Bioactive Heparin-Coated Iron Oxide Nanoparticles with Positive Contrast in Magnetic Resonance Imaging for Specific Biomedical Applications. <i>Biomacromolecules</i> , 2017, 18, 3156-3167.	2.6	37
62	In vivo diffusion weighted ¹⁹ F MRI using SF ₆ . <i>Magnetic Resonance in Medicine</i> , 2005, 54, 460-463.	1.9	36
63	Could NLRP3 "Inflammasome Be a Cardiovascular Risk Biomarker in Acute Myocardial Infarction Patients?. <i>Antioxidants and Redox Signaling</i> , 2017, 27, 269-275.	2.5	36
64	Quantification of water compartmentation in cell suspensions by diffusion-weighted and T2-weighted MRI. <i>Magnetic Resonance Imaging</i> , 2008, 26, 88-102.	1.0	35
65	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.	1.6	35
66	Detection of freeze injury in oranges by magnetic resonance imaging of moving samples. <i>Applied Magnetic Resonance</i> , 2004, 26, 431-445.	0.6	34
67	Gene Silencing of SOCS3 by siRNA Intranasal Delivery Inhibits Asthma Phenotype in Mice. <i>PLoS ONE</i> , 2014, 9, e91996.	1.1	34
68	NLRP3 Inflammasome Inhibition by MCC950 in Aged Mice Improves Health via Enhanced Autophagy and PPAR α Activity. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 1457-1464.	1.7	33
69	A New Method for the Rapid Synthesis of Water Stable Superparamagnetic Nanoparticles. <i>Chemistry - A European Journal</i> , 2008, 14, 9126-9130.	1.7	32
70	New Biochemical Insights into the Mechanisms of Pulmonary Arterial Hypertension in Humans. <i>PLoS ONE</i> , 2016, 11, e0160505.	1.1	32
71	On-line Identification of Seeds in Mandarins with Magnetic Resonance Imaging. <i>Biosystems Engineering</i> , 2006, 95, 529-536.	1.9	31
72	Aerosols and gaseous contrast agents for magnetic resonance imaging of the lung. <i>Contrast Media and Molecular Imaging</i> , 2008, 3, 173-190.	0.4	31

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73	Cell identity and nucleo-mitochondrial genetic context modulate OXPHOS performance and determine somatic heteroplasmy dynamics. <i>Science Advances</i> , 2020, 6, eaba5345.	4.7	31
74	Metabolic Reprogramming in the Heart and Lung in a Murine Model of Pulmonary Arterial Hypertension. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 110.	1.1	30
75	Diffusion-weighted 19F-MRI of lung periphery: Influence of pressure and airâ€“SF6 composition on apparent diffusion coefficients. <i>Respiratory Physiology and Neurobiology</i> , 2005, 148, 43-56.	0.7	27
76	Identification of novel metabolomic biomarkers in an experimental model of septic acute kidney injury. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 316, F54-F62.	1.3	27
77	Human influenza A virus causes myocardial and cardiac-specific conduction system infections associated with early inflammation and premature death. <i>Cardiovascular Research</i> , 2021, 117, 876-889.	1.8	27
78	Changes in water status of cherimoya fruit during ripening. <i>Postharvest Biology and Technology</i> , 2007, 45, 147-150.	2.9	26
79	A new method for the aqueous functionalization of superparamagnetic Fe ₂ O ₃ nanoparticles. <i>Contrast Media and Molecular Imaging</i> , 2008, 3, 215-222.	0.4	26
80	Phosphatidylcholineâ€“Coated Iron Oxide Nanomicelles for In Vivo Prolonged Circulation Time with an Antibiofouling Protein Corona. <i>Chemistry - A European Journal</i> , 2014, 20, 16662-16671.	1.7	26
81	Recent advances in the preparation and application of multifunctional iron oxide and liposome-based nanosystems for multimodal diagnosis and therapy. <i>Interface Focus</i> , 2016, 6, 20160055.	1.5	26
82	Noninvasive real-time monitoring of intracellular cancer cell metabolism and response to lonidamine treatment using diffusion weighted proton magnetic resonance spectroscopy. <i>Cancer Research</i> , 2000, 60, 5179-86.	0.4	26
83	Is NMR-based metabolomic analysis of exhaled breath condensate accurate?. <i>European Respiratory Journal</i> , 2011, 37, 468-470.	3.1	25
84	Superparamagnetic Nanoparticles for Atherosclerosis Imaging. <i>Nanomaterials</i> , 2014, 4, 408-438.	1.9	25
85	Discovery and validation of an NMR-based metabolomic profile in urine as TB biomarker. <i>Scientific Reports</i> , 2020, 10, 22317.	1.6	24
86	Computer-assisted enhanced volumetric segmentation magnetic resonance imaging data using a mixture of artificial neural networks. <i>Magnetic Resonance Imaging</i> , 2003, 21, 901-912.	1.0	23
87	Magnetosonoporation: Instant magnetic labeling of stem cells. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 1437-1441.	1.9	23
88	Ultrasmall Manganese Ferrites for In Vivo Catalase Mimicking Activity and Multimodal Bioimaging. <i>Small</i> , 2022, 18, e2106570.	5.2	23
89	Automatic tuning and matching of a small multifrequency saddle coil at 4.7 T. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 869-873.	1.9	22
90	Detection of seeds in citrus using MRI under motion conditions and improvement with motion correction. <i>Concepts in Magnetic Resonance Part B</i> , 2005, 26B, 81-92.	0.3	22

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91	Metabolomic Profile of ARDS by Nuclear Magnetic Resonance Spectroscopy in Patients With H1N1 Influenza Virus Pneumonia. <i>Shock</i> , 2018, 50, 504-510.	1.0	22
92	Interventional magnetic resonance imaging for guiding gene and cell transfer in the heart. <i>British Heart Journal</i> , 2004, 90, 87-91.	2.2	21
93	A Metabolomic Approach to the Pathogenesis of Ventilator-induced Lung Injury. <i>Anesthesiology</i> , 2014, 120, 694-702.	1.3	21
94	T1-MRI Fluorescent Iron Oxide Nanoparticles by Microwave Assisted Synthesis. <i>Nanomaterials</i> , 2015, 5, 1880-1890.	1.9	21
95	Reactive oxygen species mediate the down-regulation of mitochondrial transcripts and proteins by tumour necrosis factor-alpha in L929 cells. <i>Biochemical Journal</i> , 2003, 370, 609-619.	1.7	20
96	Cardiovascular imaging: what have we learned from animal models?. <i>Frontiers in Pharmacology</i> , 2015, 6, 227.	1.6	20
97	Metabolomic differences between COVID-19 and H1N1 influenza induced ARDS. <i>Critical Care</i> , 2021, 25, 390.	2.5	20
98	HIV transgene expression impairs K ⁺ channel function in the pulmonary vasculature. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 315, L711-L723.	1.3	19
99	Blockade of the NLRP3 inflammasome improves metabolic health and lifespan in obese mice. <i>GeroScience</i> , 2020, 42, 715-725.	2.1	19
100	Effects of Colchicine on Atherosclerotic Plaque Stabilization: a Multimodality Imaging Study in an Animal Model. <i>Journal of Cardiovascular Translational Research</i> , 2021, 14, 150-160.	1.1	19
101	Molecular Imaging with ⁶⁸ Ga Radio-Nanomaterials: Shedding Light on Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1098.	1.3	18
102	Unambiguous detection of atherosclerosis using bioorthogonal nanomaterials. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 17, 26-35.	1.7	18
103	MRI Visualization of Small Structures Using Improved Surface Coils. <i>Magnetic Resonance Imaging</i> , 1998, 16, 157-166.	1.0	17
104	Hormone dependence of breast cancer cells and the effects of tamoxifen and estrogen: ³¹ P NMR studies. <i>Breast Cancer Research and Treatment</i> , 1995, 33, 209-217.	1.1	16
105	A history of biological applications of NMR spectroscopy. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 1995, 28, 53-85.	3.9	16
106	Microwave-driven synthesis of bisphosphonate nanoparticles allows in vivo visualisation of atherosclerotic plaque. <i>RSC Advances</i> , 2015, 5, 1661-1665.	1.7	16
107	Accurate quantification of atherosclerotic plaque volume by 3D vascular ultrasound using the volumetric linear array method. <i>Atherosclerosis</i> , 2016, 248, 230-237.	0.4	16
108	Chilling Temperature Storage Changes the Inorganic Phosphate Pool Distribution in Cherimoya (<i>Annona cherimola</i>) Fruit. <i>Journal of the American Society for Horticultural Science</i> , 2001, 126, 122-127.	0.5	16

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109	Magnetic resonance imaging in the evaluation of inflammatory lesions in muscular and soft tissues: an experimental infection model induced by <i>Candida albicans</i> . <i>Magnetic Resonance Imaging</i> , 1999, 17, 1327-1334.	1.0	15
110	Monitoring acute inflammatory processes in mouse muscle by MR imaging and spectroscopy: a comparison with pathological results. <i>NMR in Biomedicine</i> , 2002, 15, 204-214.	1.6	15
111	Magnetic Resonance Methods and Applications in Pharmaceutical Research. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 3637-3665.	1.6	15
112	Iron Oxide Nanoradiomaterials: Combining Nanoscale Properties with Radioisotopes for Enhanced Molecular Imaging. <i>Contrast Media and Molecular Imaging</i> , 2017, 2017, 1-24.	0.4	15
113	Micellar Iron Oxide Nanoparticles Coated with Anti-Tumor Glycosides. <i>Nanomaterials</i> , 2018, 8, 567.	1.9	15
114	MicroRNA Nanotherapeutics for Lung Targeting. Insights into Pulmonary Hypertension. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3253.	1.8	15
115	Increase in the ATP signal after treatment with cisplatin in two different cell lines studied by ³¹ P NMR spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 1992, 183, 114-120.	1.0	14
116	Optimization of magnetosonoporation for stem cell labeling. <i>NMR in Biomedicine</i> , 2010, 23, 480-484.	1.6	14
117	Bmi1 limits dilated cardiomyopathy and heart failure by inhibiting cardiac senescence. <i>Nature Communications</i> , 2015, 6, 6473.	5.8	14
118	Experimental results of an evolution-based adaptation strategy for VQ image filtering. <i>Information Sciences</i> , 2001, 133, 249-266.	4.0	13
119	COMSPIRA: A common approach to spiral and radial MRI. , 2004, 20B, 40-44.		13
120	Gradient-enhanced heteronuclear correlation spectroscopy: Theory and experimental aspects. <i>Journal of Magnetic Resonance</i> , 2011, 213, 446-466.	1.2	13
121	Hybrid microparticles for drug delivery and magnetic resonance imaging. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 498-505.	1.6	13
122	Systems medicine: A new approach to clinical practice. <i>Archivos De Bronconeumologia</i> , 2014, 50, 444-451.	0.4	13
123	Surface-Functionalized Nanoparticles by Olefin Metathesis: A Chemoselective Approach for In Vivo Characterization of Atherosclerosis Plaque. <i>Chemistry - A European Journal</i> , 2015, 21, 10450-10456.	1.7	13
124	MRI Study of the Influence of Surface Coating Aging on the In Vivo Biodistribution of Iron Oxide Nanoparticles. <i>Biosensors</i> , 2018, 8, 127.	2.3	13
125	Discriminant biomarkers of acute respiratory distress syndrome associated to H1N1 influenza identified by metabolomics HPLC-QTOF-MS/MS platform. <i>Electrophoresis</i> , 2017, 38, 2341-2348.	1.3	12
126	Protein corona and phospholipase activity drive selective accumulation of nanomicelles in atherosclerotic plaques. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 643-650.	1.7	12

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127	Fluorine Labeling of Nanoparticles and In Vivo ¹⁹ F Magnetic Resonance Imaging. ACS Applied Materials & Interfaces, 2021, 13, 12941-12949.	4.0	12
128	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.	4.0	12
129	Measurement of Pharmacodynamic Effects of Dexamethasone on Epidermis by Phosphorus Nuclear Magnetic Resonance Spectroscopy in Vitro. Journal of Pharmaceutical Sciences, 1994, 83, 1339-1344.	1.6	11
130	Random Walk Simulation of the MRI Apparent Diffusion Coefficient in a Geometrical Model of the Acinar Tree. Biophysical Journal, 2009, 97, 656-664.	0.2	10
131	Metabolomic profile of acute respiratory distress syndrome of different etiologies. Intensive Care Medicine, 2019, 45, 1318-1320.	3.9	10
132	Activation of amino acid metabolic program in cardiac HIF1-alpha-deficient mice. IScience, 2021, 24, 102124.	1.9	10
133	Heteroplasmy of Wild-Type Mitochondrial DNA Variants in Mice Causes Metabolic Heart Disease With Pulmonary Hypertension and Frailty. Circulation, 2022, 145, 1084-1101.	1.6	10
134	Olefin metathesis for the functionalization of superparamagnetic nanoparticles. Bioinspired, Biomimetic and Nanobiomaterials, 2012, 1, 166-172.	0.7	9
135	Superparamagnetic iron oxide nanoparticles conjugated to a grass pollen allergen and an optical probe. Contrast Media and Molecular Imaging, 2012, 7, 435-439.	0.4	9
136	Medicina de sistemas: una nueva visi3n de la pr1ctica cl1nica. Archivos De Bronconeumologia, 2014, 50, 444-451.	0.4	9
137	Effects of Quercetin in a Rat Model of Hemorrhagic Traumatic Shock and Reperfusion. Molecules, 2016, 21, 1739.	1.7	9
138	Aging and the Inflammasomes. Experientia Supplementum (2012), 2018, 108, 303-320.	0.5	9
139	Thrombo-tag, an <i>in vivo</i> formed nanotracer for the detection of thrombi in mice by fast pre-targeted molecular imaging. Nanoscale, 2020, 12, 22978-22987.	2.8	9
140	Urine NMR-based TB metabolic fingerprinting for the diagnosis of TB in children. Scientific Reports, 2021, 11, 12006.	1.6	9
141	Delayed alveolar clearance of nanoparticles through control of coating composition and interaction with lung surfactant protein A. Materials Science and Engineering C, 2022, 134, 112551.	3.8	9
142	NMR and the Study of Pathological State in Cells and Tissues. International Review of Cytology, 1993, 145, 1-63.	6.2	8
143	Interaction of Bovine Myelin Basic Protein with Cholesterol. Journal of Colloid and Interface Science, 1998, 204, 9-15.	5.0	8
144	A metabonomic approach to evaluate COPD in a model of cigarette smoke exposure in mice. Metabolomics, 2010, 6, 564-573.	1.4	8

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145	Heparin length in the coating of extremely small iron oxide nanoparticles regulates <i>in vivo</i> theranostic applications. <i>Nanoscale</i> , 2021, 13, 842-861.	2.8	8
146	The thermal transition in crude myelin proteolipid has a lipid rather than protein origin. <i>European Biophysics Journal</i> , 1992, 21, 71-6.	1.2	7
147	Gradient-enhanced multiple-quantum filter (ge-MQF). A simple way to obtain single-scan phase-sensitive HMQC spectra. <i>Journal of Magnetic Resonance</i> , 1992, 100, 215-220.	0.5	7
148	Magnetic resonance microscopy versus light microscopy in human embryology teaching. <i>Clinical Anatomy</i> , 2004, 17, 429-435.	1.5	7
149	The acid metabolism of Annona fruit during ripening. <i>Journal of Horticultural Science and Biotechnology</i> , 2004, 79, 472-478.	0.9	7
150	Long-range diffusion of hyperpolarized ^3He in rats. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 54-58.	1.9	7
151	Assessment of regional pulmonary blood flow using ^{68}Ga -DOTA PET. <i>EJNMMI Research</i> , 2017, 7, 7.	1.1	7
152	The State of the Art of Investigational and Approved Nanomedicine Products for Nucleic Acid Delivery. , 2019, , 421-456.		7
153	A dual $^1\text{H}/^{19}\text{F}$ birdcage coil for small animals at 7T MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 79-87.	1.1	7
154	Plasma Metabolic Signature of Atherosclerosis Progression and Colchicine Treatment in Rabbits. <i>Scientific Reports</i> , 2020, 10, 7072.	1.6	7
155	Thermal stability of bovine-brain myelin membrane. <i>European Biophysics Journal</i> , 1992, 21, 169-78.	1.2	6
156	Changes in ATP after cyclosporin A treatment in a renal epithelial cell line in the rat studied by ^{31}P -NMR spectroscopy. <i>Research Communications in Molecular Pathology and Pharmacology</i> , 1994, 86, 3-13.	0.2	6
157	In vitro cytotoxic effects of tumor necrosis factor- α in human breast cancer cells may be associated with increased glucose consumption. <i>FEBS Letters</i> , 1997, 406, 175-178.	1.3	5
158	A fully MRI-compatible animal ventilator for special-gas mixing applications. <i>Concepts in Magnetic Resonance Part B</i> , 2005, 26B, 93-103.	0.3	5
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