List of Publications by Year in descending order

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Πιριση Ει Ασο

#	Article	IF	CITATIONS
1	In Vivo Monitoring of Inflammation After Cardiac and Cerebral Ischemia by Fluorine Magnetic Resonance Imaging. Circulation, 2008, 118, 140-148.	1.6	306
2	Nitrite Reductase Function of Deoxymyoglobin. Circulation Research, 2007, 100, 1749-1754.	4.5	270
3	RIP3, a kinase promoting necroptotic cell death, mediates adverse remodelling after myocardial infarction. Cardiovascular Research, 2014, 103, 206-216.	3.8	257
4	Targeted Disruption of <i>cd73</i> /Ecto-5′-Nucleotidase Alters Thromboregulation and Augments Vascular Inflammatory Response. Circulation Research, 2004, 95, 814-821.	4.5	220
5	Taurine transporter knockout depletes muscle taurine levels and results in severe skeletal muscle impairment but leaves cardiac function uncompromised. FASEB Journal, 2004, 18, 577-579.	0.5	156
6	Role of myoglobin in the antioxidant defense of the heart. FASEB Journal, 2004, 18, 1156-1158.	0.5	140
7	Probing different perfluorocarbons for <i>in vivo</i> inflammation imaging by ¹⁹ F MRI: image reconstruction, biological half-lives and sensitivity. NMR in Biomedicine, 2014, 27, 261-271.	2.8	138
8	Cardiac-Specific Overexpression of Inducible Nitric Oxide Synthase Does Not Result in Severe Cardiac Dysfunction. Circulation Research, 2002, 90, 93-99.	4.5	134
9	Mechanisms of Insulin Resistance in Primary and Secondary Nonalcoholic Fatty Liver. Diabetes, 2017, 66, 2241-2253.	0.6	124
10	lron-regulatory proteins secure iron availability in cardiomyocytes to prevent heart failure. European Heart Journal, 2016, 38, ehw333.	2.2	115
11	SGK1-dependent cardiac CTGF formation and fibrosis following DOCA treatment. Journal of Molecular Medicine, 2006, 84, 396-404.	3.9	111
12	Selective Activation of Adenosine A _{2A} Receptors on Immune Cells by a CD73-Dependent Prodrug Suppresses Joint Inflammation in Experimental Rheumatoid Arthritis. Science Translational Medicine, 2012, 4, 146ra108.	12.4	111
13	Early Assessment of Pulmonary Inflammation by ¹⁹ F MRI In Vivo. Circulation: Cardiovascular Imaging, 2010, 3, 202-210.	2.6	108
14	Chronic liver disease is triggered by taurine transporter knockout in the mouse. FASEB Journal, 2006, 20, 574-576.	0.5	106
15	Survivin Determines Cardiac Function by Controlling Total Cardiomyocyte Number. Circulation, 2008, 117, 1583-1593.	1.6	105
16	¹⁹ F magnetic resonance imaging of endogenous macrophages in inflammation. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2012, 4, 329-343.	6.1	97
17	The natriuretic peptide/guanylyl cyclase–A system functions as a stress-responsive regulator of angiogenesis in mice. Journal of Clinical Investigation, 2009, 119, 2019-2030.	8.2	95
18	Targeting sphingosine-1-phosphate lyase as an anabolic therapy for bone loss. Nature Medicine, 2018, 24, 667-678.	30.7	93

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19	Myoglobin facilitates oxygen diffusion. FASEB Journal, 2001, 15, 1077-1079.	0.5	92
20	Contribution of NO to Ischemia-Reperfusion Injury in the Saline-Perfused Heart: a Study in Endothelial NO Synthase Knockout Mice. Journal of Molecular and Cellular Cardiology, 1999, 31, 827-836.	1.9	90
21	Noninvasive Imaging of Early Venous Thrombosis by ¹⁹ F Magnetic Resonance Imaging With Targeted Perfluorocarbon Nanoemulsions. Circulation, 2015, 131, 1405-1414.	1.6	79
22	Myocardial T2 mapping reveals age- and sex-related differences in volunteers. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 9.	3.3	77
23	Myoglobin Protects the Heart from Inducible Nitric-oxide Synthase (iNOS)-mediated Nitrosative Stress. Journal of Biological Chemistry, 2003, 278, 21761-21766.	3.4	76
24	CD73 on T Cells Orchestrates Cardiac Wound Healing After Myocardial Infarction by Purinergic Metabolic Reprogramming. Circulation, 2017, 136, 297-313.	1.6	68
25	Loss of UCP2 Attenuates Mitochondrial Dysfunction without Altering ROS Production and Uncoupling Activity. PLoS Genetics, 2014, 10, e1004385.	3.5	63
26	Noninvasive Detection of Graft Rejection by In Vivo 19F MRI in the Early Stage. American Journal of Transplantation, 2011, 11, 235-244.	4.7	61
27	Acute Inhibition of Myoglobin Impairs Contractility and Energy State of iNOS-Overexpressing Hearts. Circulation Research, 2003, 92, 1352-1358.	4.5	59
28	Lack of Myoglobin Causes a Switch in Cardiac Substrate Selection. Circulation Research, 2005, 96, e68-75.	4.5	57
29	Effects of Ammonia Exposition on Glioma Cells: Changes in Cell Volume and Organic Osmolytes Studied by Diffusion-Weighted and High-Resolution NMR Spectroscopy. Developmental Neuroscience, 2000, 22, 463-471.	2.0	54
30	Keeping the heart in balance: the functional interactions of myoglobin with nitrogen oxides. Journal of Experimental Biology, 2010, 213, 2726-2733.	1.7	52
31	Fluorine MR Imaging of Inflammation in Atherosclerotic Plaque in Vivo. Radiology, 2015, 275, 421-429.	7.3	50
32	Direct comparison of magnetic resonance imaging and conductance microcatheter in the evaluation of left ventricular function in mice. Basic Research in Cardiology, 2006, 101, 87-95.	5.9	48
33	Methods Employed for Induction and Analysis of Experimental Myocardial Infarction in Mice. Cellular Physiology and Biochemistry, 2011, 28, 1-12.	1.6	48
34	Cardiac Hyaluronan Synthesis Is Critically Involved in the Cardiac Macrophage Response and Promotes Healing After Ischemia Reperfusion Injury. Circulation Research, 2019, 124, 1433-1447.	4.5	47
35	Oxygen supply and nitric oxide scavenging by myoglobin contribute to exercise endurance and cardiac function. FASEB Journal, 2005, 19, 1015-1017.	0.5	46
36	Regulation of intracellular pH in neuronal and glial tumour cells, studied by multinuclear NMR spectroscopy. NMR in Biomedicine, 1994, 7, 157-166.	2.8	42

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37	Development of a Growing Rat Model for the InÂVivo Assessment of Engineered Aortic Conduits. Journal of Surgical Research, 2012, 176, 367-375.	1.6	42
38	Ecto-5′-Nucleotidase on Immune Cells Protects From Adverse Cardiac Remodeling. Circulation Research, 2013, 113, 301-312.	4.5	42
39	Cardiospecific Overexpression of the Prostaglandin EP3Receptor Attenuates Ischemia-Induced Myocardial Injury. Circulation, 2005, 112, 400-406.	1.6	40
40	Development and pathomechanisms of cardiomyopathy in very long-chain acyl-CoA dehydrogenase deficient (VLCADâ^'/â^') mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 677-685.	3.8	40
41	In vivo 2D mapping of impaired murine cardiac energetics in NO-induced heart failure. Magnetic Resonance in Medicine, 2007, 57, 50-58.	3.0	39
42	Visualization of immune cell infiltration in experimental viral myocarditis by 19F MRI in vivo. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2014, 27, 101-106.	2.0	38
43	The Osmolyte Taurine Protects against Ultraviolet B Radiation-Induced Immunosuppression. Journal of Immunology, 2007, 179, 3604-3612.	0.8	35
44	Decreased contractility due to energy deprivation in a transgenic rat model of hypertrophic cardiomyopathy. Journal of Molecular Medicine, 2009, 87, 411-422.	3.9	34
45	Nrf2 Deficiency Unmasks the Significance of Nitric Oxide Synthase Activity for Cardioprotection. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-15.	4.0	34
46	Anaemia is associated with severe RBC dysfunction and a reduced circulating NO pool: vascular and cardiac eNOS are crucial for the adaptation to anaemia. Basic Research in Cardiology, 2020, 115, 43.	5.9	34
47	Technical Advance: Monitoring the trafficking of neutrophil granulocytes and monocytes during the course of tissue inflammation by noninvasive 19F MRI. Journal of Leukocyte Biology, 2014, 95, 689-697.	3.3	33
48	In vivo clearance of 19F MRI imaging nanocarriers is strongly influenced by nanoparticle ultrastructure. Biomaterials, 2020, 261, 120307.	11.4	33
49	Myoglobin facilitates oxygen diffusion. FASEB Journal, 2001, 15, 1077-1079.	0.5	32
50	Nitrosative Stress Leads to Protein Glutathiolation, Increased S-Nitrosation, and Up-regulation of Peroxiredoxins in the Heart. Journal of Biological Chemistry, 2008, 283, 17440-17449.	3.4	31
51	Insulin Resistance and Vulnerability to Cardiac Ischemia. Diabetes, 2018, 67, 2695-2702.	0.6	31
52	Multi-targeted 1H/19F MRI unmasks specific danger patterns for emerging cardiovascular disorders. Nature Communications, 2021, 12, 5847.	12.8	31
53	Disrupted fat distribution and composition due to medium-chain triglycerides in mice with a \hat{I}^2 -oxidation defect. American Journal of Clinical Nutrition, 2011, 94, 439-449.	4.7	30
54	Myocardial T2 Mapping Increases NoninvasiveÂDiagnostic Accuracy for Biopsy-Proven Myocarditis. JACC: Cardiovascular Imaging, 2016, 9, 1467-1469.	5.3	30

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55	Simultaneous Assessment of Cardiac Inflammation and Extracellular Matrix Remodeling After Myocardial Infarction. Circulation: Cardiovascular Imaging, 2018, 11, .	2.6	30
56	A1H/13C inverse 2D method for the analysis of the polyamines putrescine, spermidine and spermine in cell extracts and biofluids. , 1998, 11, 47-54.		29
57	In vitro differentiation of unrestricted somatic stem cells into functional hepaticâ€like cells displaying a hepatocyteâ€like glucose metabolism. Journal of Cellular Physiology, 2010, 225, 545-554.	4.1	29
58	A novel physiological role for cardiac myoglobin in lipid metabolism. Scientific Reports, 2017, 7, 43219.	3.3	29
59	Adaptation of the myoglobin knockout mouse to hypoxic stress. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 286, R786-R792.	1.8	28
60	Multifunctional MR monitoring of the healing process after myocardial infarction. Basic Research in Cardiology, 2014, 109, 430.	5.9	28
61	Overexpression of prostaglandin EP3 receptors activates calcineurin and promotes hypertrophy in the murine heart. Cardiovascular Research, 2008, 81, 310-318.	3.8	26
62	4-Methylumbelliferone improves the thermogenic capacity of brown adipose tissue. Nature Metabolism, 2019, 1, 546-559.	11.9	26
63	Characterization of perfluorocarbon relaxation times and their influence on the optimization of fluorine-19 MRI at 3 tesla. Magnetic Resonance in Medicine, 2017, 77, 2263-2271.	3.0	25
64	Fluorine-19 Magnetic Resonance Angiography of the Mouse. PLoS ONE, 2012, 7, e42236.	2.5	25
65	Assessment of the Mechanism of Astrocyte Swelling Induced by the Macrolide Immunosuppressant Sirolimus Using Multinuclear Nuclear Magnetic Resonance Spectroscopy. Chemical Research in Toxicology, 1997, 10, 1359-1363.	3.3	24
66	Graves' orbitopathy occurs sex-independently in an autoimmune hyperthyroid mouse model. Scientific Reports, 2018, 8, 13096.	3.3	24
67	Hot spot ¹⁹ F magnetic resonance imaging of inflammation. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1639.	6.1	23
68	Deletion of CD73 promotes dyslipidemia and intramyocellular lipid accumulation in muscle of mice. Archives of Physiology and Biochemistry, 2013, 119, 39-51.	2.1	22
69	Epicardium-Derived Cells Formed After Myocardial Injury Display Phagocytic Activity Permitting In Vivo Labeling and Tracking. Stem Cells Translational Medicine, 2016, 5, 639-650.	3.3	22
70	In vivo 19F MR inflammation imaging after myocardial infarction in a large animal model at 3ÂT. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 5-13.	2.0	22
71	Dissociation of 19F and fluorescence signal upon cellular uptake of dual-contrast perfluorocarbon nanoemulsions. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 133-145.	2.0	22
72	Dapagliflozin reduces thrombin generation and platelet activation: implications for cardiovascular risk reduction in type 2 diabetes mellitus. Diabetologia, 2021, 64, 1834-1849.	6.3	22

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73	Echocardiographic Analysis of Cardiac Function after Infarction in Mice: Validation of Single-Plane Long-Axis View Measurements and the Bi-Plane Simpson Method. Ultrasound in Medicine and Biology, 2018, 44, 1544-1555.	1.5	21
74	Lack of ecto-5′-nucleotidase (CD73) promotes arteriogenesis. Cardiovascular Research, 2013, 97, 88-96.	3.8	20
75	Impact of dietary nitrate on age-related diastolic dysfunction. European Journal of Heart Failure, 2016, 18, 599-610.	7.1	20
76	Phagocytosis of a PFOB-Nanoemulsion for 19F Magnetic Resonance Imaging: First Results in Monocytes of Patients with Stable Coronary Artery Disease and ST-Elevation Myocardial Infarction. Molecules, 2019, 24, 2058.	3.8	20
77	Immobilization of Primary Astrocytes and Neurons for On-Line Monitoring of Biochemical Processes by NMR. Developmental Neuroscience, 1996, 18, 478-483.	2.0	19
78	Sexual dimorphism of lipid metabolism in very long-chain acyl-CoA dehydrogenase deficient (VLCADâ^'/â^') mice in response to medium-chain triglycerides (MCT). Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 1442-1450.	3.8	18
79	Synthetic Cargo Internalization Receptor System for Nanoparticle Tracking of Individual Cell Populations by Fluorine Magnetic Resonance Imaging. ACS Nano, 2018, 12, 11178-11192.	14.6	18
80	Cardiovascular Magnetic Resonance Relaxometry Predicts Regional Functional Outcome After Experimental Myocardial Infarction. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	16
81	Adaptation of Cellular Metabolism to Anisosmotic Conditions in a Clial Cell Line, as Assessed by ¹³ C-NMR Spectroscopy. Developmental Neuroscience, 1996, 18, 449-459.	2.0	14
82	Fluorineâ€19 Magnetic Resonance Imaging of Activated Platelets. Journal of the American Heart Association, 2020, 9, e016971.	3.7	14
83	Monitoring left ventricular dilation in mice with PET. Journal of Nuclear Medicine, 2005, 46, 1516-21.	5.0	14
84	Multimodal assessment of orbital immune cell infiltration and tissue remodeling during development of graves disease by ¹ H ¹⁹ F MRI. Magnetic Resonance in Medicine, 2018, 80, 711-718.	3.0	12
85	A2bR-dependent signaling alters immune cell composition and enhances IL-6 formation in the ischemic heart. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H190-H200.	3.2	11
86	An Early Wave of Macrophage Infiltration Intertwined with Antigen-Specific Proinflammatory T Cells and Browning of Adipose Tissue Characterizes the Onset of Orbital Inflammation in a Mouse Model of Graves' Orbitopathy. Thyroid, 2022, 32, 283-293.	4.5	11
87	Endothelial β1 Integrin-Mediated Adaptation to Myocardial Ischemia. Thrombosis and Haemostasis, 2021, 121, 741-754.	3.4	10
88	4-hydroxytamoxifen does not deteriorate cardiac function in cardiomyocyte-specific MerCreMer transgenic mice. Basic Research in Cardiology, 2021, 116, 8.	5.9	9
89	Does timing matter in radiotherapy of hepatocellular carcinoma? An experimental study in mice. Cancer Medicine, 2021, 10, 7712-7725.	2.8	9
90	Determination ofde novo synthesized amino acids in cellular proteins revisited by13C NMR		8

spectroscopy. , 1997, 10, 50-58.

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91	Special issue on fluorine-19 magnetic resonance: technical solutions, research promises and frontier applications. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 1-3.	2.0	7
92	Longitudinal 19F magnetic resonance imaging of brain oxygenation in a mouse model of vascular cognitive impairment using a cryogenic radiofrequency coil. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2019, 32, 105-114.	2.0	7
93	Endothelial Hyaluronan Synthase 3 Augments Postischemic Arteriogenesis Through CD44/eNOS Signaling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 2551-2562.	2.4	7
94	Rat brain primary neurons immobilized in basement membrane gel threads: an improved method for on-line NMR spectroscopy of live cells. Brain Research Protocols, 1998, 3, 183-191.	1.6	6
95	Modified Suture Technique in a Mouse Heart Transplant Model. Asian Journal of Surgery, 2011, 34, 86-91.	0.4	6
96	Multiparametric MRI identifies subtle adaptations for demarcation of disease transition in murine aortic valve stenosis. Basic Research in Cardiology, 2022, 117, .	5.9	6
97	Alterations in glial cell metabolism during recovery from chronic osmotic stress. Neurochemical Research, 1998, 23, 1553-1561.	3.3	5
98	State of the Art in Cardiovascular T2 Mapping: on the Way to a Cardiac Biomarker?. Current Cardiovascular Imaging Reports, 2018, 11, 1.	0.6	5
99	Endothelial hyaluronan synthase 3 aggravates acute colitis in an experimental model of inflammatory bowel disease. Matrix Biology, 2021, 102, 20-36.	3.6	5
100	Biomedical 19F MRI Using Perfluorocarbons. Methods in Molecular Biology, 2018, 1718, 235-257.	0.9	5
101	Beyond Vessel Diameters: Non-invasive Monitoring of Flow Patterns and Immune Cell Recruitment in Murine Abdominal Aortic Disorders by Multiparametric MRI. Frontiers in Cardiovascular Medicine, 2021, 8, 750251.	2.4	5
102	Acute Heart Failure After Reperfused Ischemic Stroke: Association With Systemic and Cardiac Inflammatory Responses. Frontiers in Physiology, 2021, 12, 782760.	2.8	5
103	MRI-based molecular imaging of epicardium-derived stromal cells (EpiSC) by peptide-mediated active targeting. Scientific Reports, 2020, 10, 21669.	3.3	4
104	Phenotyping placental oxygenation in Lgals1 deficient mice using 19F MRI. Scientific Reports, 2021, 11, 2126.	3.3	4
105	Myoglobin tames tumor growth and spread. Journal of Clinical Investigation, 2009, 119, 766-768.	8.2	4
106	Opening of calcium-activated potassium channels improves long-term left-ventricular function after coronary artery occlusion in mice. International Journal of Cardiology, 2017, 241, 351-357.	1.7	3
107	Dynamic monitoring of vital functions and tissue re-organization in Saturnia pavonia (Lepidoptera,) Tj ETQq1 1 0	.784314 r 3.3	gBJ /Overloo

108 Chapter 4 Active Targeting of Perfluorocarbon Nanoemulsions. , 2016, , 103-140.

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109	A Toolbox to Investigate the Impact of Impaired Oxygen Delivery in Experimental Disease Models. Frontiers in Medicine, 2022, 9, .	2.6	2
110	IL-23R Signaling Plays No Role in Myocardial Infarction. Scientific Reports, 2018, 8, 17078.	3.3	1
111	MR for the Investigation of Murine Vasculature. Methods in Molecular Biology, 2011, 771, 439-456.	0.9	1