

Jack J J Miller

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,430
citations

430442

18
h-index

344852

36
g-index

56
all docs

56
docs citations

56
times ranked

1945
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Metabolism of Exogenous Ketones in Humans. <i>Frontiers in Physiology</i> , 2017, 8, 848.	1.3	251
2	Cardiac ferroportin regulates cellular iron homeostasis and is important for cardiac function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3164-3169.	3.3	173
3	Noninvasive In Vivo Assessment of Cardiac Metabolism in the Healthy and Diabetic Human Heart Using Hyperpolarized ¹³ C MRI. <i>Circulation Research</i> , 2020, 126, 725-736.	2.0	105
4	<i>SPG7</i> mutations are a common cause of undiagnosed ataxia. <i>Neurology</i> , 2015, 84, 1174-1176.	1.5	87
5	Noninvasive Immunometabolic Cardiac Inflammation Imaging Using Hyperpolarized Magnetic Resonance. <i>Circulation Research</i> , 2018, 122, 1084-1093.	2.0	64
6	Hyperpolarized ¹³ C MRI: A novel approach for probing cerebral metabolism in health and neurological disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1137-1147.	2.4	49
7	Robust and high resolution hyperpolarized metabolic imaging of the rat heart at 7 t with 3d spectral-spatial EPI. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1515-1524.	1.9	48
8	Energetic Basis for Exercise-Induced Pulmonary Congestion in Heart Failure With Preserved Ejection Fraction. <i>Circulation</i> , 2021, 144, 1664-1678.	1.6	48
9	Simultaneous assessment of cardiac metabolism and perfusion using copolarized [¹³ C]pyruvate and ¹³ C urea. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 151-158.	1.9	47
10	Hyperpolarized [1,4- ¹³ C]Fumarate Enables Magnetic Resonance-Based Imaging of Myocardial Necrosis. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1594-1606.	2.3	46
11	Assessment of Metformin-Induced Changes in Cardiac and Hepatic Redox State Using Hyperpolarized [1- ¹³ C]Pyruvate. <i>Diabetes</i> , 2016, 65, 3544-3551.	0.3	43
12	¹³ C Pyruvate Transport Across the Blood-Brain Barrier in Preclinical Hyperpolarised MRI. <i>Scientific Reports</i> , 2018, 8, 15082.	1.6	43
13	In vivo assessment of cardiac metabolism and function in the abdominal aortic banding model of compensated cardiac hypertrophy. <i>Cardiovascular Research</i> , 2015, 106, 249-260.	1.8	40
14	Cardiac perfusion imaging using hyperpolarized ¹³ C urea using flow sensitizing gradients. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1474-1483.	1.9	39
15	Mapping of intracellular pH in the in vivo rodent heart using hyperpolarized [¹³ C]pyruvate. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1810-1817.	1.9	28
16	Frequency drift in MR spectroscopy at 3T. <i>NeuroImage</i> , 2021, 241, 118430.	2.1	28
17	Early detection of doxorubicin-induced cardiotoxicity in rats by its cardiac metabolic signature assessed with hyperpolarized MRI. <i>Communications Biology</i> , 2020, 3, 692.	2.0	25
18	Simultaneous <i>in vivo</i> assessment of cardiac and hepatic metabolism in the diabetic rat using hyperpolarized MRS. <i>NMR in Biomedicine</i> , 2016, 29, 1759-1767.	1.6	22

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19	Hyperpolarized ketone body metabolism in the rat heart. <i>NMR in Biomedicine</i> , 2018, 31, e3912.	1.6	22
20	Cardiac Energetics in Patients With Aortic Stenosis and Preserved Versus Reduced Ejection Fraction. <i>Circulation</i> , 2020, 141, 1971-1985.	1.6	18
21	Susceptibility-induced distortion correction in hyperpolarized echo planar imaging. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2135-2141.	1.9	17
22	Maternal iron deficiency perturbs embryonic cardiovascular development in mice. <i>Nature Communications</i> , 2021, 12, 3447.	5.8	17
23	Proof-of-Principle Demonstration of Direct Metabolic Imaging Following Myocardial Infarction Using Hyperpolarized ¹³ C CMR. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 1285-1288.	2.3	17
24	Rescue of myocardial energetic dysfunction in diabetes through the correction of mitochondrial hyperacetylation by honokiol. <i>JCI Insight</i> , 2020, 5, .	2.3	17
25	Weighted averaging in spectroscopic studies improves statistical power. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 2082-2094.	1.9	15
26	Cardiac applications of hyperpolarised magnetic resonance. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2018, 106-107, 66-87.	3.9	14
27	Metabolic Effects of Doxorubicin on the Rat Liver Assessed With Hyperpolarized MRI and Metabolomics. <i>Frontiers in Physiology</i> , 2021, 12, 782745.	1.3	12
28	A mathematical model of adult subventricular neurogenesis. <i>Journal of the Royal Society Interface</i> , 2012, 9, 2414-2423.	1.5	11
29	Probing hepatic metabolism of [2- ¹³ C]dihydroxyacetone in vivo with ¹ H-decoupled hyperpolarized ¹³ C-MR. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 49-56.	1.1	10
30	Use of cardiac magnetic resonance to detect changes in metabolism in heart failure. <i>Cardiovascular Diagnosis and Therapy</i> , 2020, 10, 583-597.	0.7	9
31	Fast Pad [®] Transform Accelerated CSI for Hyperpolarized MRS. <i>Tomography</i> , 2016, 2, 117-124.	0.8	8
32	The effects of endogenously- and exogenously-induced hyperketonemia on exercise performance and adaptation. <i>Physiological Reports</i> , 2022, 10, .	0.7	8
33	Water gated contrast switching with polymer-silica hybrid nanoparticles. <i>Chemical Communications</i> , 2019, 55, 8540-8543.	2.2	6
34	Acute intermittent hypoxia drives hepatic de novo lipogenesis in humans and rodents. <i>Metabolism Open</i> , 2022, 14, 100177.	1.4	6
35	Assessing the optimal preparation strategy to minimize the variability of cardiac pyruvate dehydrogenase flux measurements with hyperpolarized MRS. <i>NMR in Biomedicine</i> , 2018, 31, e3992.	1.6	4
36	Rapid, insensitive, dual-band quasi-adiabatic saturation transfer with optimal control for complete quantification of myocardial ATP flux. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2978-2991.	1.9	4

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37	Diabetic mitochondria are resistant to palmitoyl CoA inhibition of respiration, which is detrimental during ischemia. <i>FASEB Journal</i> , 2021, 35, e21765.	0.2	4
38	Nicotinic acid receptor agonists impair myocardial contractility by energy starvation. <i>FASEB Journal</i> , 2020, 34, 14878-14891.	0.2	3
39	Assessing the effect of anesthetic gas mixtures on hyperpolarized ¹³ C pyruvate metabolism in the rat brain. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1324-1332.	1.9	3
40	Mechanisms of cell migration in the adult brain: modelling subventricular neurogenesis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 1096-1105.	0.9	2
41	A 3D hybrid shot spiral sequence for hyperpolarized imaging. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 790-801.	1.9	2
42	A simple, open and extensible gating Control unit for cardiac and respiratory synchronisation control in small animal MRI and demonstration of its robust performance in steady-state maintained CINE-MRI. <i>Magnetic Resonance Imaging</i> , 2021, 81, 1-9.	1.0	2
43	Hyperpolarized MR in cardiology: probing the heart of life. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2021, 3, 217-256.	0.0	2
44	Acidic environments trigger intracellular H ⁺ -sensing FAK proteins to re-balance sarcolemmal acid-base transporters and auto-regulate cardiomyocyte pH. <i>Cardiovascular Research</i> , 2022, 118, 2946-2959.	1.8	2
45	Hyperpolarised MRI of cardiac inflammation and repair. <i>Lancet, The</i> , 2017, 389, S62.	6.3	1
46	Myocyte Metabolic Imaging with Hyperpolarised MRI. , 2018, , 111-173.		1
47	Effects of contrast agents on relaxation properties of ³¹ P metabolites. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1805-1813.	1.9	1
48	Impaired myocardial energetics as the basis for exercise-induced pulmonary congestion in heart failure with preserved ejection fraction. , 2021, , .		1
49	Concentration-dependent effects of dichloroacetate in type 2 diabetic hearts assessed by hyperpolarized [¹³ C]pyruvate magnetic resonance imaging. <i>NMR in Biomedicine</i> , 2022, 35, e4678.	1.6	1
50	Assessment of Metformin induced changes in cardiac redox state using hyperpolarized[¹³ C]pyruvate. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, O24.	1.6	0
51	Hyperpolarized magnetic resonance imaging of cardiac inflammation and repair. <i>Heart</i> , 2017, 103, A151.1-A151.	1.2	0
52	HP acquisition methods: pulse sequences, reconstruction, and RF coils. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2021, 3, 49-74.	0.0	0
53	Promoting high T2 contrast in Dy-doped MSNs through Curie effects. <i>Journal of Materials Chemistry B</i> , 2022, 10, 302-305.	2.9	0
54	Abstract 9505: Myocardial Energetic Impairment is the Basis for Reduced Cardiac Reserve and Exercise-Induced Pulmonary Congestion in Heart Failure With Preserved Ejection Fraction: Insights From Novel Cardiopulmonary Magnetic Resonance Imaging. <i>Circulation</i> , 2021, 144, .	1.6	0