

Damian J Tyler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2768683/publications.pdf>

Version: 2024-02-01

125
papers

6,280
citations

50170

46
h-index

74018

75
g-index

127
all docs

127
docs citations

127
times ranked

7462
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperpolarized ¹³ C MRI: Path to Clinical Translation in Oncology. <i>Neoplasia</i> , 2019, 21, 1-16.	2.3	316
2	Fumarate Is Cardioprotective via Activation of the Nrf2 Antioxidant Pathway. <i>Cell Metabolism</i> , 2012, 15, 361-371.	7.2	231
3	<i>In vivo</i> assessment of pyruvate dehydrogenase flux in the heart using hyperpolarized carbon-13 magnetic resonance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12051-12056.	3.3	229
4	Real-time assessment of Krebs cycle metabolism using hyperpolarized ¹³ C magnetic resonance spectroscopy. <i>FASEB Journal</i> , 2009, 23, 2529-2538.	0.2	197
5	Magnetic resonance imaging with ultrashort TE (UTE) PULSE sequences: Technical considerations. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 25, 279-289.	1.9	188
6	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
7	Quantifying normal human brain metabolism using hyperpolarized [¹³ C]pyruvate and magnetic resonance imaging. <i>NeuroImage</i> , 2019, 189, 171-179.	2.1	144
8	A high-fat diet impairs cardiac high-energy phosphate metabolism and cognitive function in healthy human subjects. <i>American Journal of Clinical Nutrition</i> , 2011, 93, 748-755.	2.2	139
9	Fast, high-resolution <i>in vivo</i> cine magnetic resonance imaging in normal and failing mouse hearts on a vertical 11.7 T system. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 18, 691-701.	1.9	134
10	Hyperpolarized ¹³ C magnetic resonance reveals early and late onset changes to <i>in vivo</i> pyruvate metabolism in the failing heart. <i>European Journal of Heart Failure</i> , 2013, 15, 130-140.	2.9	133
11	Novel ketone diet enhances physical and cognitive performance. <i>FASEB Journal</i> , 2016, 30, 4021-4032.	0.2	132
12	Iron Particles for Noninvasive Monitoring of Bone Marrow Stromal Cell Engraftment into, and Isolation of Viable Engrafted Donor Cells from, the Heart. <i>Stem Cells</i> , 2006, 24, 1968-1975.	1.4	123
13	Hyperpolarized Magnetic Resonance. <i>Circulation</i> , 2011, 124, 1580-1594.	1.6	120
14	Effects of Catecholamine Stress on Diastolic Function and Myocardial Energetics in Obesity. <i>Circulation</i> , 2012, 125, 1511-1519.	1.6	117
15	Systemic Inflammatory Response Reactivates Immune-Mediated Lesions in Rat Brain. <i>Journal of Neuroscience</i> , 2009, 29, 4820-4828.	1.7	115
16	Measuring intracellular pH in the heart using hyperpolarized carbon dioxide and bicarbonate: a ¹³ C and ³¹ P magnetic resonance spectroscopy study. <i>Cardiovascular Research</i> , 2010, 86, 82-91.	1.8	114
17	Noninvasive <i>In Vivo</i> 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
18	Short-term consumption of a high-fat diet impairs whole-body efficiency and cognitive function in sedentary men. <i>FASEB Journal</i> , 2011, 25, 1088-1096.	0.2	103

#	ARTICLE	IF	CITATIONS
19	Cardiac metabolism in a new rat model of type 2 diabetes using high-fat diet with low dose streptozotocin. <i>Cardiovascular Diabetology</i> , 2013, 12, 136.	2.7	102
20	Role of Pyruvate Dehydrogenase Inhibition in the Development of Hypertrophy in the Hyperthyroid Rat Heart. <i>Circulation</i> , 2011, 123, 2552-2561.	1.6	98
21	The Role of AMPK Activation for Cardioprotection in Doxorubicin-Induced Cardiotoxicity. <i>Cardiovascular Drugs and Therapy</i> , 2020, 34, 255-269.	1.3	97
22	The Cycling of Acetyl-Coenzyme A Through Acetylcarnitine Buffers Cardiac Substrate Supply. <i>Circulation: Cardiovascular Imaging</i> , 2012, 5, 201-209.	1.3	91
23	Increasing Pyruvate Dehydrogenase Flux as a Treatment for Diabetic Cardiomyopathy: A Combined ¹³ C Hyperpolarized Magnetic Resonance and Echocardiography Study. <i>Diabetes</i> , 2015, 64, 2735-2743.	0.3	88
24	Validation of the <i>in vivo</i> assessment of pyruvate dehydrogenase activity using hyperpolarised ¹³ C MRS. <i>NMR in Biomedicine</i> , 2011, 24, 201-208.	1.6	85
25	Cardiac response to hypobaric hypoxia: persistent changes in cardiac mass, function, and energy metabolism after a trek to Mt. Everest Base Camp. <i>FASEB Journal</i> , 2011, 25, 792-796.	0.2	85
26	Clinical Implications of Cardiac Hyperpolarized Magnetic Resonance Imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 93.	1.6	83
27	Determination of cardiac volumes and mass with FLASH and SSFP cine sequences at 1.5 vs. 3 Tesla: A validation study. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 312-318.	1.9	81
28	In vivo alterations in cardiac metabolism and function in the spontaneously hypertensive rat heart. <i>Cardiovascular Research</i> , 2012, 95, 69-76.	1.8	77
29	Bone marrow-derived stromal cells home to and remain in the infarcted rat heart but fail to improve function: an <i>in vivo</i> cine-MRI study. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H533-H542.	1.5	76
30	Magnetic Resonance Imaging Evaluation of Remodeling by Cardiac Elastomeric Tissue Scaffold Biomaterials in a Rat Model of Myocardial Infarction. <i>Tissue Engineering - Part A</i> , 2010, 16, 3395-3402.	1.6	73
31	Hyperpolarized butyrate: A metabolic probe of short chain fatty acid metabolism in the heart. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1663-1669.	1.9	68
32	Rearrangement of Atrial Bundle Architecture and Consequent Changes in Anisotropy of Conduction Constitute the 3-Dimensional Substrate for Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013, 6, 967-975.	2.1	67
33	Accelerated human cardiac diffusion tensor imaging using simultaneous multislice imaging. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 995-1004.	1.9	67
34	Noninvasive Immunometabolic Cardiac Inflammation Imaging Using Hyperpolarized Magnetic Resonance. <i>Circulation Research</i> , 2018, 122, 1084-1093.	2.0	64
35	<i>In vivo</i> MRI Characterization of Progressive Cardiac Dysfunction in the mdx Mouse Model of Muscular Dystrophy. <i>PLoS ONE</i> , 2012, 7, e28569.	1.1	61
36	Cine-MRI versus two-dimensional echocardiography to measure <i>in vivo</i> left ventricular function in rat heart. <i>NMR in Biomedicine</i> , 2008, 21, 765-772.	1.6	56

#	ARTICLE	IF	CITATIONS
37	In vivo cardiac ¹ H-MRS in the mouse. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 1029-1035.	1.9	55
38	Ultrashort TE chemical shift imaging (UTE-CSI). <i>Magnetic Resonance in Medicine</i> , 2005, 53, 267-274.	1.9	55
39	Fatty Acids Prevent Hypoxia-Inducible Factor-1 α Signaling Through Decreased Succinate in Diabetes. <i>JACC Basic To Translational Science</i> , 2018, 3, 485-498.	1.9	55
40	Assessment of Left Atrial Volumes at 1.5 Tesla and 3 Tesla Using FLASH and SSFP Cine Imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2007, 9, 673-679.	1.6	54
41	Impaired In Vivo Mitochondrial Krebs Cycle Activity After Myocardial Infarction Assessed Using Hyperpolarized Magnetic Resonance Spectroscopy. <i>Circulation: Cardiovascular Imaging</i> , 2014, 7, 895-904.	1.3	54
42	Exacerbation of cardiac energetic impairment during exercise in hypertrophic cardiomyopathy: a potential mechanism for diastolic dysfunction. <i>European Heart Journal</i> , 2015, 36, 1547-1554.	1.0	53
43	The effect of hyperpolarized tracer concentration on myocardial uptake and metabolism. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 1007-1014.	1.9	50
44	Inhibition of sarcolemmal FAT/CD36 by sulfo-N-succinimidyl oleate rapidly corrects metabolism and restores function in the diabetic heart following hypoxia/reoxygenation. <i>Cardiovascular Research</i> , 2017, 113, 737-748.	1.8	50
45	The Effect of High-Altitude on Human Skeletal Muscle Energetics: ³¹ P-MRS Results from the Caudwell Xtreme Everest Expedition. <i>PLoS ONE</i> , 2010, 5, e10681.	1.1	50
46	Reproducibility of ³¹ P cardiac magnetic resonance spectroscopy at 3T. <i>NMR in Biomedicine</i> , 2009, 22, 405-413.	1.6	49
47	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
48	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
49	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
50	Hyperpolarized [1,4- ¹³ C ₂]Fumarate Enables Magnetic Resonance-Based Imaging of Myocardial Necrosis. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1594-1606.	2.3	46
51	Assessment of Metformin-Induced Changes in Cardiac and Hepatic Redox State Using Hyperpolarized [¹³ C]Pyruvate. <i>Diabetes</i> , 2016, 65, 3544-3551.	0.3	43
52	¹³ C Pyruvate Transport Across the Blood-Brain Barrier in Preclinical Hyperpolarised MRI. <i>Scientific Reports</i> , 2018, 8, 15082.	1.6	43
53	Extramitochondrial domain rich in carbonic anhydrase activity improves myocardial energetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E958-67.	3.3	42
54	Myocardial energy shortage and unmet anaplerotic needs in the fasted long-chain acyl-CoA dehydrogenase knockout mouse. <i>Cardiovascular Research</i> , 2013, 100, 441-449.	1.8	40

#	ARTICLE	IF	CITATIONS
55	Metabolic imaging of acute and chronic infarction in the perfused rat heart using hyperpolarised [¹³ C]pyruvate. <i>NMR in Biomedicine</i> , 2013, 26, 1441-1450.	1.6	40
56	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
57	Increased oxidative metabolism following hypoxia in the type 2 diabetic heart, despite normal hypoxia signalling and metabolic adaptation. <i>Journal of Physiology</i> , 2016, 594, 307-320.	1.3	40
58	Spiral artery blood volume in normal pregnancies and those compromised by pre-eclampsia. <i>NMR in Biomedicine</i> , 2008, 21, 376-380.	1.6	39
59	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
60	Novel MRI method to detect altered left ventricular ejection and filling patterns in rodent models of disease. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 582-587.	1.9	37
61	A comparison of cardiac ³¹ P MRS at 1.5 and 3 T. <i>NMR in Biomedicine</i> , 2008, 21, 793-798.	1.6	37
62	Myometrial and placental artery reactivity alone cannot explain reduced placental perfusion in pre-eclampsia and intrauterine growth restriction. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2003, 110, 909-915.	1.1	36
63	<i>MEN1</i> Gene Replacement Therapy Reduces Proliferation Rates in a Mouse Model of Pituitary Adenomas. <i>Cancer Research</i> , 2012, 72, 5060-5068.	0.4	34
64	In vivo mouse cardiac hyperpolarized magnetic resonance spectroscopy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 19.	1.6	34
65	Human hippocampal energy metabolism is impaired during cognitive activity in a lipid infusion model of insulin resistance. <i>Brain and Behavior</i> , 2013, 3, 134-144.	1.0	34
66	Cardiac Cine MR-Imaging at 3T: FLASH vs SSFP. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2006, 8, 709-715.	1.6	32
67	CINE-MR Imaging of the Normal and Infarcted Rat Heart Using an 11.7 T Vertical Bore MR System. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2006, 8, 327-333.	1.6	29
68	Application of Hyperpolarized Magnetic Resonance in the Study of Cardiac Metabolism. <i>Applied Magnetic Resonance</i> , 2008, 34, 523-531.	0.6	29
69	Cardiovascular Applications of Hyperpolarized MRI. <i>Current Cardiovascular Imaging Reports</i> , 2011, 4, 108-115.	0.4	29
70	High-resolution, multicontrast three-dimensional-MRI characterizes atherosclerotic plaque composition in ApoE ^{-/-} mice ex vivo. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 20, 981-989.	1.9	28
71	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
72	Cardiac Dysfunction and Metabolic Inflexibility in a Mouse Model of Diabetes Without Dyslipidemia. <i>Diabetes</i> , 2018, 67, 1057-1067.	0.3	28

#	ARTICLE	IF	CITATIONS
73	The Reproducibility of 31-Phosphorus MRS Measures of Muscle Energetics at 3 Tesla in Trained Men. PLoS ONE, 2012, 7, e37237.	1.1	27
74	Determining the <i>in vivo</i> regulation of cardiac pyruvate dehydrogenase based on label flux from hyperpolarised [^{13}C]pyruvate. NMR in Biomedicine, 2011, 24, 980-987.	1.6	26
75	Early detection of doxorubicin-induced cardiotoxicity in rats by its cardiac metabolic signature assessed with hyperpolarized MRI. Communications Biology, 2020, 3, 692.	2.0	25
76	Echo-planar magnetic resonance imaging of Gaviscon alginate rafts in-vivo. Journal of Pharmacy and Pharmacology, 2010, 54, 1351-1356.	1.2	23
77	Adenosine Monophosphate-Activated Protein Kinase Activation, Substrate Transporter Translocation, and Metabolism in the Contracting Hyperthyroid Rat Heart. Endocrinology, 2010, 151, 422-431.	1.4	23
78	Hyperpolarised magnetic resonance for in vivo real-time metabolic imaging. Heart, 2018, 104, 1484-1491.	1.2	23
79	Simultaneous <i>in vivo</i> assessment of cardiac and hepatic metabolism in the diabetic rat using hyperpolarized MRS. NMR in Biomedicine, 2016, 29, 1759-1767.	1.6	22
80	Hyperpolarized ketone body metabolism in the rat heart. NMR in Biomedicine, 2018, 31, e3912.	1.6	22
81	Rapid quantitation of magnetization transfer using pulsed off-resonance irradiation and echo planar imaging. Magnetic Resonance in Medicine, 2005, 53, 103-109.	1.9	18
82	Activation of HIF1 α Rescues the Hypoxic Response and Reverses Metabolic Dysfunction in the Diabetic Heart. Diabetes, 2021, 70, 2518-2531.	0.3	18
83	Susceptibility-induced distortion correction in hyperpolarized echo planar imaging. Magnetic Resonance in Medicine, 2018, 79, 2135-2141.	1.9	17
84	Proof-of-Principle Demonstration of Direct Metabolic Imaging Following Myocardial Infarction Using Hyperpolarized ^{13}C CMR. JACC: Cardiovascular Imaging, 2021, 14, 1285-1288.	2.3	17
85	Rescue of myocardial energetic dysfunction in diabetes through the correction of mitochondrial hyperacetylation by honokiol. JCI Insight, 2020, 5, .	2.3	17
86	^{31}P cardiac magnetic resonance spectroscopy during leg exercise at 3 Tesla. International Journal of Cardiovascular Imaging, 2009, 25, 819-826.	0.7	15
87	Weighted averaging in spectroscopic studies improves statistical power. Magnetic Resonance in Medicine, 2017, 78, 2082-2094.	1.9	15
88	Pyruvate dehydrogenase as a therapeutic target for obesity cardiomyopathy. Expert Opinion on Therapeutic Targets, 2016, 20, 755-766.	1.5	14
89	Cardiac applications of hyperpolarised magnetic resonance. Progress in Nuclear Magnetic Resonance Spectroscopy, 2018, 106-107, 66-87.	3.9	14
90	Clinical Cardiovascular Applications of Hyperpolarized Magnetic Resonance. Cardiovascular Drugs and Therapy, 2020, 34, 231-240.	1.3	13

#	ARTICLE	IF	CITATIONS
91	BH4 Increases nNOS Activity and Preserves Left Ventricular Function in Diabetes. <i>Circulation Research</i> , 2021, 128, 585-601.	2.0	13
92	Rapid and accurate measurement of transverse relaxation times using a single shot multi-echo echo-planar imaging sequence. <i>Magnetic Resonance Imaging</i> , 2004, 22, 1031-1037.	1.0	12
93	First-pass perfusion CMR two days after infarction predicts severity of functional impairment six weeks later in the rat heart. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011, 13, 38.	1.6	12
94	Quantifying the effect of dobutamine stress on myocardial Pi and pH in healthy volunteers: A ³¹ P MRS study at 7T. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1147-1159.	1.9	12
95	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
96	The von Hippel-Lindau Chuvash mutation in mice alters cardiac substrate and high-energy phosphate metabolism. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H759-H767.	1.5	11
97	Assessing the effect of hypoxia on cardiac metabolism using hyperpolarized ¹³ C magnetic resonance spectroscopy. <i>NMR in Biomedicine</i> , 2019, 32, e4099.	1.6	11
98	Cmah-dystrophin deficient mdx mice display an accelerated cardiac phenotype that is improved following peptide-PMO exon skipping treatment. <i>Human Molecular Genetics</i> , 2019, 28, 396-406.	1.4	10
99	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
100	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
101	Lactate saturation limits bicarbonate detection in hyperpolarized ¹³ C-pyruvate MRI of the brain. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1170-1179.	1.9	8
102	Ongoing dual-angle measurements for the correction of partial saturation in ³¹ P MR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 957-966.	1.9	7
103	Hyperpolarized ¹³ C magnetic resonance imaging for noninvasive assessment of tissue inflammation. <i>NMR in Biomedicine</i> , 2021, 34, e4460.	1.6	6
104	L-Carnitine Stimulates In Vivo Carbohydrate Metabolism in the Type 1 Diabetic Heart as Demonstrated by Hyperpolarized MRI. <i>Metabolites</i> , 2021, 11, 191.	1.3	6
105	Abnormal whole-body energy metabolism in iron-deficient humans despite preserved skeletal muscle oxidative phosphorylation. <i>Scientific Reports</i> , 2022, 12, 998.	1.6	6
106	Acute intermittent hypoxia drives hepatic de novo lipogenesis in humans and rodents. <i>Metabolism Open</i> , 2022, 14, 100177.	1.4	6
107	Endurance exercise training blunts the deleterious effect of high-fat feeding on whole body efficiency. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R320-R326.	0.9	5
108	Hyperpolarized magnetic resonance shows that the anti-ischemic drug meldonium leads to increased flux through pyruvate dehydrogenase in vivo resulting in improved post-ischemic function in the diabetic heart. <i>NMR in Biomedicine</i> , 2021, 34, e4471.	1.6	5

#	ARTICLE	IF	CITATIONS
109	<sc>RF</sc> coil design for accurate parallel imaging on ¹³ C MRSI using ²³ Na sensitivity profiles. Magnetic Resonance in Medicine, 0, , .	1.9	5
110	Science to Practice: Hyperpolarized Metabolic MR Imagingâ€” The Light at the End of the Tunnel for Clinical ¹³ C MR Spectroscopy?. Radiology, 2016, 278, 639-641.	3.6	4
111	Assessing the optimal preparation strategy to minimize the variability of cardiac pyruvate dehydrogenase flux measurements with hyperpolarized MRS. NMR in Biomedicine, 2018, 31, e3992.	1.6	4
112	Rapid, insensitive, dual-band quasi-adiabatic saturation transfer with optimal control for complete quantification of myocardial ATP flux. Magnetic Resonance in Medicine, 2021, 85, 2978-2991.	1.9	4
113	Increased cardiac Pi/PCr in the diabetic heart observed using phosphorus magnetic resonance spectroscopy at 7T. PLoS ONE, 2022, 17, e0269957.	1.1	4
114	Nicotinic acid receptor agonists impair myocardial contractility by energy starvation. FASEB Journal, 2020, 34, 14878-14891.	0.2	3
115	Evaluation of Acute Supplementation With the Ketone Ester (R)-3-Hydroxybutyl-(R)-3-Hydroxybutyrate (deltaG) in Healthy Volunteers by Cardiac and Skeletal Muscle ³¹ P Magnetic Resonance Spectroscopy. Frontiers in Physiology, 2022, 13, 793987.	1.3	3
116	Assessing the effect of anesthetic gas mixtures on hyperpolarized ¹³ C pyruvate metabolism in the rat brain. Magnetic Resonance in Medicine, 2022, 88, 1324-1332.	1.9	3
117	A 3D hybrid-shot spiral sequence for hyperpolarized imaging. Magnetic Resonance in Medicine, 2021, 85, 790-801.	1.9	2
118	Hyperpolarized MR in cardiology: probing the heart of life. Advances in Magnetic Resonance Technology and Applications, 2021, 3, 217-256.	0.0	2
119	Acidic environments trigger intracellular H ⁺ -sensing FAK proteins to re-balance sarcolemmal acid-base transporters and auto-regulate cardiomyocyte pH. Cardiovascular Research, 2022, 118, 2946-2959.	1.8	2
120	Insights Into the Metabolic Aspects of Aortic Stenosis With the Use of Magnetic Resonance Imaging. JACC: Cardiovascular Imaging, 2022, 15, 2112-2126.	2.3	2
121	Effects of contrast agents on relaxation properties of ³¹ P metabolites. Magnetic Resonance in Medicine, 2021, 85, 1805-1813.	1.9	1
122	Varying degrees of ventricular unloading in the heterotopic rat heart transplant model demonstrated by magnetic resonance imaging. International Journal of Biomedical Science, 2014, 10, 223-8.	0.5	1
123	MRI tracking of systemically administered bone marrow stem cells. Journal of Molecular and Cellular Cardiology, 2007, 42, S88-S89.	0.9	0
124	An Extra-Mitochondrial Domain Rich in Carbonic Anhydrase Activity Improves Myocardial Energetics. Biophysical Journal, 2013, 104, 303a.	0.2	0
125	Novel Views on Heart Function from Dynamic Hyperpolarized NMR. , 2021, , 205-235.		0