

# Christoffer Laustsen

## List of Publications by Year in descending order

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141  
papers

2,677  
citations

218677

26  
h-index

254184

43  
g-index

146  
all docs

146  
docs citations

146  
times ranked

2752  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperpolarized <sup>13</sup> C MRI: Path to Clinical Translation in Oncology. <i>Neoplasia</i> , 2019, 21, 1-16.	5.3	316
2	Recycling and Imaging of Nuclear Singlet Hyperpolarization. <i>Journal of the American Chemical Society</i> , 2013, 135, 5084-5088.	13.7	94
3	Assessment of early diabetic renal changes with hyperpolarized [ <sup>13</sup> C]pyruvate. <i>Diabetes/Metabolism Research and Reviews</i> , 2013, 29, 125-129.	4.0	83
4	Consensus-based technical recommendations for clinical translation of renal ASL MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 141-161.	2.0	80
5	Consensus-based technical recommendations for clinical translation of renal BOLD MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 199-215.	2.0	68
6	High altitude may alter oxygen availability and renal metabolism in diabetics as measured by hyperpolarized [ <sup>13</sup> C]pyruvate magnetic resonance imaging. <i>Kidney International</i> , 2014, 86, 67-74.	5.2	64
7	Consensus-based technical recommendations for clinical translation of renal diffusion-weighted MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 177-195.	2.0	61
8	Superparamagnetic iron oxide polyacrylic acid coated <sup>56</sup> Fe <sub>2</sub> O <sub>3</sub> nanoparticles do not affect kidney function but cause acute effect on the cardiovascular function in healthy mice. <i>Toxicology and Applied Pharmacology</i> , 2013, 266, 276-288.	2.8	60
9	Consensus-based technical recommendations for clinical translation of renal T1 and T2 mapping MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 163-176.	2.0	52
10	Hyperpolarized <sup>13</sup> 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.	4.3	49
11	Hyperpolarized [1,4- <sup>13</sup> C <sub>2</sub> ]Fumarate Enables Magnetic Resonance-Based Imaging of Myocardial Necrosis. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1594-1606.	5.3	46
12	Pilot Study Experiences With Hyperpolarized [ <sup>13</sup> C]pyruvate MRI in Pancreatic Cancer Patients. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 961-963.	3.4	45
13	Technical recommendations for clinical translation of renal MRI: a consensus project of the Cooperation in Science and Technology Action PARENCHIMA. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 131-140.	2.0	44
14	<sup>13</sup> C Pyruvate Transport Across the Blood-Brain Barrier in Preclinical Hyperpolarised MRI. <i>Scientific Reports</i> , 2018, 8, 15082.	3.3	43
15	Insufficient insulin administration to diabetic rats increases substrate utilization and maintains lactate production in the kidney. <i>Physiological Reports</i> , 2014, 2, e12233.	1.7	39
16	In vivo single-shot <sup>13</sup> C spectroscopic imaging of hyperpolarized metabolites by spatiotemporal encoding. <i>Journal of Magnetic Resonance</i> , 2014, 240, 8-15.	2.1	38
17	Fumarase activity: an in vivo and in vitro biomarker for acute kidney injury. <i>Scientific Reports</i> , 2017, 7, 40812.	3.3	38
18	Hyperpolarized singlet NMR on a small animal imaging system. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1262-1265.	3.0	37

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19	A Combination of Coffee Compounds Shows Insulin-Sensitizing and Hepatoprotective Effects in a Rat Model of Diet-Induced Metabolic Syndrome. <i>Nutrients</i> , 2018, 10, 6.	4.1	37
20	Renal ischemia and reperfusion assessment with three-dimensional hyperpolarized <sup>13</sup> C, <sup>15</sup> N <sup>2</sup> urea. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1524-1530.	3.0	36
21	In situ lactate dehydrogenase activity: a novel renal cortical imaging biomarker of tubular injury?. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 312, F465-F473.	2.7	36
22	Hyperpolarized <sup>13</sup> C urea relaxation mechanism reveals renal changes in diabetic nephropathy. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 515-518.	3.0	34
23	Imaging Cerebral 2-Ketoisocaproate Metabolism with Hyperpolarized <sup>13</sup> C Magnetic Resonance Spectroscopic Imaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 1508-1514.	4.3	33
24	Hyperpolarized [1- <sup>13</sup> C]-acetate Renal Metabolic Clearance Rate Mapping. <i>Scientific Reports</i> , 2017, 7, 16002.	3.3	30
25	Hyperpolarized Renal Magnetic Resonance Imaging: Potential and Pitfalls. <i>Frontiers in Physiology</i> , 2016, 7, 72.	2.8	29
26	Cafestol, a Bioactive Substance in Coffee, Has Antidiabetic Properties in KKAY Mice. <i>Journal of Natural Products</i> , 2017, 80, 2353-2359.	3.0	29
27	Hyperpolarized <sup>13</sup> C, <sup>15</sup> N <sub>2</sub> urea MRI for assessment of the urea gradient in the porcine kidney. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1895-1899.	3.0	28
28	Antioxidant treatment attenuates lactate production in diabetic nephropathy. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 312, F192-F199.	2.7	28
29	High-resolution ex vivo magnetic resonance angiography: a feasibility study on biological and medical tissues. <i>BMC Physiology</i> , 2010, 10, 3.	3.6	27
30	Hyperpolarized H <sub>2</sub> O MR angiography. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 50-56.	3.0	26
31	Acute porcine renal metabolic effect of endogastric soft drink administration assessed with hyperpolarized [ <sup>13</sup> C]pyruvate. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 558-563.	3.0	26
32	Early diabetic kidney maintains the corticomedullary urea and sodium gradient. <i>Physiological Reports</i> , 2016, 4, e12714.	1.7	26
33	The myocardial architecture changes in persistent pulmonary hypertension of the newborn in an ovine animal model. <i>Pediatric Research</i> , 2016, 79, 565-574.	2.3	26
34	Changes in overall ventricular myocardial architecture in the setting of a porcine animal model of right ventricular dilation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 93.	3.3	26
35	Hyperpolarized <sup>13</sup> C Magnetic Resonance Imaging Can Detect Metabolic Changes Characteristic of Penumbra in Ischemic Stroke. <i>Tomography</i> , 2017, 3, 67-73.	1.8	26
36	Diabetes induced renal urea transport alterations assessed with 3D hyperpolarized <sup>13</sup> C, <sup>15</sup> N-Urea. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1650-1655.	3.0	25

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37	Acute renal metabolic effect of metformin assessed with hyperpolarised MRI in rats. <i>Diabetologia</i> , 2018, 61, 445-454.	6.3	25
38	Increasing carbohydrate oxidation improves contractile reserves and prevents hypertrophy in porcine right heart failure. <i>Scientific Reports</i> , 2020, 10, 8158.	3.3	24
39	Creating a clinical platform for carbon-13 studies using the sodium-23 and proton resonances. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1817-1827.	3.0	24
40	Glucose metabolism in brown adipose tissue determined by deuterium metabolic imaging in rats. <i>International Journal of Obesity</i> , 2020, 44, 1417-1427.	3.4	23
41	Organ-specific responses during brain death: increased aerobic metabolism in the liver and anaerobic metabolism with decreased perfusion in the kidneys. <i>Scientific Reports</i> , 2018, 8, 4405.	3.3	22
42	Consensus-Based Technical Recommendations for Clinical Translation of Renal Phase Contrast MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 55, 323-335.	3.4	22
43	Dynamic nuclear polarization and optimal control spatial-selective 13C MRI and MRS. <i>Journal of Magnetic Resonance</i> , 2013, 227, 57-61.	2.1	21
44	Enhancing the [ <sup>13</sup> C]bicarbonate signal in cardiac hyperpolarized [ <sup>13</sup> C]pyruvate MRS studies by infusion of glucose, insulin and potassium. <i>NMR in Biomedicine</i> , 2013, 26, 1496-1500.	2.8	21
45	Hyperpolarized <sup>13</sup> C, <sup>15</sup> N <sub>2</sub> urea T <sub>2</sub> relaxation changes in acute kidney injury. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 696-702.	3.0	20
46	Comprehensive Literature Review of Hyperpolarized Carbon-13 MRI: The Road to Clinical Application. <i>Metabolites</i> , 2021, 11, 219.	2.9	20
47	Can Hyperpolarized 13C-Urea Be Used to Assess Glomerular Filtration Rate? A Retrospective Study. <i>Tomography</i> , 2017, 3, 146-152.	1.8	20
48	Renal hemodynamics and oxygenation in transient renal artery occluded rats evaluated with iron-oxide particles and oxygenation-sensitive imaging. <i>Zeitschrift Fur Medizinische Physik</i> , 2010, 20, 134-142.	1.5	19
49	The chinchilla as a novel animal model of pregnancy. <i>Royal Society Open Science</i> , 2017, 4, 161098.	2.4	19
50	Unilateral nephrectomy diminishes ischemic acute kidney injury through enhanced perfusion and reduced pro-inflammatory and pro-fibrotic responses. <i>PLoS ONE</i> , 2017, 12, e0190009.	2.5	19
51	Investigation of metabolic changes in STZ-induced diabetic rats with hyperpolarized [1- <sup>13</sup> C]acetate. <i>Physiological Reports</i> , 2015, 3, e12474.	1.7	18
52	Renal MR angiography and perfusion in the pig using hyperpolarized water. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1131-1135.	3.0	18
53	Visualization of sodium dynamics in the kidney by magnetic resonance imaging in a multi-site study. <i>Kidney International</i> , 2020, 98, 1174-1178.	5.2	17
54	Imaging porcine cardiac substrate selection modulations by glucose, insulin and potassium intervention: A hyperpolarized [ <sup>13</sup> C]pyruvate study. <i>NMR in Biomedicine</i> , 2017, 30, e3702.	2.8	16

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55	Hyperpolarized MRI – An Update and Future Perspectives. <i>Seminars in Nuclear Medicine</i> , 2022, 52, 374-381.	4.6	16
56	Hyperbaric oxygen therapy reduces renal lactate production. <i>Physiological Reports</i> , 2017, 5, e13217.	1.7	14
57	Effects of anesthesia on renal function and metabolism in rats assessed by hyperpolarized <sup>13</sup> C MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2073-2080.	3.0	14
58	Low-Noise Active Decoupling Circuit and its Application to <sup>13</sup> C Cryogenic RF Coils at 3 T. <i>Tomography</i> , 2017, 3, 60-66.	1.8	14
59	Imaging oxygen metabolism with hyperpolarized magnetic resonance: a novel approach for the examination of cardiac and renal function. <i>Bioscience Reports</i> , 2017, 37, .	2.4	13
60	Resolving the natural myocardial remodelling brought upon by cardiac contraction; a porcine ex-vivo cardiovascular magnetic resonance study of the left and right ventricle. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 35.	3.3	13
61	Metabolic consequences of lactate dehydrogenase inhibition by oxamate in hyperglycemic proximal tubular cells. <i>Experimental Cell Research</i> , 2019, 378, 51-56.	2.6	13
62	Dynamic coronary MR angiography in a pig model with hyperpolarized water. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1165-1169.	3.0	12
63	Organ-specific metabolic profiles of the liver and kidney during brain death and afterwards during normothermic machine perfusion of the kidney. <i>American Journal of Transplantation</i> , 2020, 20, 2425-2436.	4.7	12
64	Hyperpolarized [ <sup>13</sup> C] pyruvate as a possible diagnostic tool in liver disease. <i>Physiological Reports</i> , 2018, 6, e13943.	1.7	11
65	Evaluation of Active Brown Adipose Tissue by the Use of Hyperpolarized [1- <sup>13</sup> C]Pyruvate MRI in Mice. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2597.	4.1	11
66	Effects of Unfiltered Coffee and Bioactive Coffee Compounds on the Development of Metabolic Syndrome Components in a High-Fat-/High-Fructose-Fed Rat Model. <i>Nutrients</i> , 2018, 10, 1547.	4.1	11
67	Magnetic resonance hyperpolarization imaging detects early myocardial dysfunction in a porcine model of right ventricular heart failure. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, 93-101.	1.2	11
68	Anatomically correct assessment of the orientation of the cardiomyocytes using diffusion tensor imaging. <i>NMR in Biomedicine</i> , 2020, 33, e4205.	2.8	11
69	Hyperpolarized [1,4- <sup>13</sup> C]fumarate imaging detects microvascular complications and hypoxia mediated cell death in diabetic nephropathy. <i>Scientific Reports</i> , 2020, 10, 9650.	3.3	11
70	Ex Vivo Human Placenta Perfusion, Metabolic and Functional Imaging for Obstetric Research – A Feasibility Study. <i>Tomography</i> , 2019, 5, 333-338.	1.8	11
71	Detection of increased pyruvate dehydrogenase flux in the human heart during adenosine stress test using hyperpolarized [1- <sup>13</sup> C]pyruvate cardiovascular magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2022, 24, .	3.3	11
72	Improved Decoupling for Low Frequency MRI Arrays Using Non-Conventional Preamplifier Impedance. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1940-1948.	4.2	10

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73	Multi-site benchmarking of clinical <sup>13</sup> C RF coils at 3T. <i>Journal of Magnetic Resonance</i> , 2020, 318, 106798.	2.1	10
74	Metabolic MRI with hyperpolarized [ <sup>13</sup> C]pyruvate separates benign oligemia from infarcting penumbra in porcine stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 2916-2927.	4.3	10
75	Storage of magnetization as singlet order by optimal control designed pulses. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 921-926.	3.0	9
76	The potential of hyperpolarized <sup>13</sup> C magnetic resonance spectroscopy to monitor the effect of combretastatin based vascular disrupting agents. <i>Acta Oncologica</i> , 2017, 56, 1626-1633.	1.8	9
77	Acute hypertensive stress imaged by cardiac hyperpolarized [ <sup>13</sup> C]pyruvate magnetic resonance. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2053-2061.	3.0	9
78	Coil profile estimation strategies for parallel imaging with hyperpolarized <sup>13</sup> C MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 2104-2117.	3.0	9
79	Fractional Perfusion: A Simple Semi-Parametric Measure for Hyperpolarized <sup>13</sup> C MR. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 523-527.	3.7	9
80	Hyperpolarized [ <sup>13</sup> C]pyruvate MRI can image the metabolic shift in cardiac metabolism between the fasted and fed state in a porcine model. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2655-2665.	3.0	9
81	Detection of acute kidney injury with hyperpolarized [ <sup>13</sup> C, <sup>15</sup> N]Urea and multiexponential relaxation modeling. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 943-949.	3.0	9
82	Hyperpolarised <sup>13</sup> C-MRI metabolic and functional imaging: an emerging renal MR diagnostic modality. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 23-32.	2.0	9
83	Autonomous cryogenic RF receive coil for <sup>13</sup> C imaging of rodents at 3 T. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 497-508.	3.0	9
84	Graft assessment of the ex vivo perfused porcine kidney using hyperpolarized [ <sup>13</sup> C]pyruvate. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2645-2655.	3.0	9
85	Migraine-Associated Mutation in the Na,K-ATPase Leads to Disturbances in Cardiac Metabolism and Reduced Cardiac Function. <i>Journal of the American Heart Association</i> , 2022, 11, e021814.	3.7	9
86	Hyperpolarized magnetic resonance spectroscopy for assessing tumor hypoxia. <i>Acta Oncologica</i> , 2015, 54, 1393-1398.	1.8	8
87	Metabolic reprogramming associated with progression of renal ischemia reperfusion injury assessed with hyperpolarized [ <sup>13</sup> C]pyruvate. <i>Scientific Reports</i> , 2020, 10, 8915.	3.3	8
88	Fast Pad <sup>®</sup> Transform Accelerated CSI for Hyperpolarized MRS. <i>Tomography</i> , 2016, 2, 117-124.	1.8	8
89	Sex Differences in Kidney Function and Metabolism Assessed Using Hyperpolarized [ <sup>13</sup> C]Pyruvate Interleaved Spectroscopy and Nonspecific Imaging. <i>Tomography</i> , 2020, 6, 5-13.	1.8	8
90	Initial Experience on Hyperpolarized [ <sup>13</sup> C]Pyruvate MRI Multicenter Reproducibility—Are Multicenter Trials Feasible?. <i>Tomography</i> , 2022, 8, 585-595.	1.8	8

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91	Lactate saturation limits bicarbonate detection in hyperpolarized $^{13}\text{C}$ -pyruvate MRI of the brain. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1170-1179.	3.0	8
92	Quadrupolar-coupling-specific binomial pulse sequences for in vivo $^{23}\text{Na}$ NMR and MRI. <i>Journal of Magnetic Resonance</i> , 2010, 206, 139-146.	2.1	7
93	Glucagon infusion alters the hyperpolarized $^{13}\text{C}$ -urea renal hemodynamic signature. <i>NMR in Biomedicine</i> , 2019, 32, e4028.	2.8	7
94	Hyperpolarized $^{13}\text{C}$ alanine production: A novel imaging biomarker of renal fibrosis. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2063-2073.	3.0	7
95	Assessment of mouse liver $^{13}\text{C}$ pyruvate metabolism by dynamic hyperpolarized MRS. <i>Journal of Endocrinology</i> , 2019, 242, 251-260.	2.6	7
96	Hyperpolarized carbon 13 MRI in liver diseases: Recent advances and future opportunities. <i>Liver International</i> , 2022, 42, 973-983.	3.9	7
97	Ex vivo hyperpolarized MR spectroscopy on isolated renal tubular cells: A novel technique for cell energy phenotyping. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 457-461.	3.0	5
98	3D reconstruction and fiber quantification in the pig lower esophageal sphincter region using in vitro diffusion tensor imaging. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 025002.	1.2	5
99	The hemodynamic and metabolic effects of spironolactone treatment in acute kidney injury assessed by hyperpolarized MRI. <i>NMR in Biomedicine</i> , 2020, 33, e4371.	2.8	5
100	Noninvasive Assessment of Fibrosis Following Ischemia/Reperfusion Injury in Rodents Utilizing Na Magnetic Resonance Imaging. <i>Pharmaceutics</i> , 2020, 12, 775.	4.5	5
101	Three-dimensional accelerated acquisition for hyperpolarized $^{13}\text{C}$ MR with blipped stack of spirals and conjugate gradient SENSE. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 519-534.	3.0	5
102	Sodium ( $^{23}\text{Na}$ ) MRI of the Kidney: Basic Concept. <i>Methods in Molecular Biology</i> , 2021, 2216, 257-266.	0.9	5
103	RF coil design for accurate parallel imaging on $^{13}\text{C}$ MRSI using $^{23}\text{Na}$ sensitivity profiles. <i>Magnetic Resonance in Medicine</i> , 0, , .	3.0	5
104	Imaging Neurodegenerative Metabolism in Amyotrophic Lateral Sclerosis with Hyperpolarized $^{13}\text{C}$ pyruvate MRI. <i>Tomography</i> , 2022, 8, 1570-1577.	1.8	5
105	High Intrarenal Lactate Production Inhibits the Renal Pseudohypoxic Response to Acutely Induced Hypoxia in Diabetes. <i>Tomography</i> , 2019, 5, 239-247.	1.8	4
106	Cardiac pH-Imaging With Hyperpolarized MRI. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 603674.	2.4	4
107	Evaluation of renal oxygenation by BOLD-MRI in high-risk patients with type 2 diabetes and matched controls. <i>Nephrology Dialysis Transplantation</i> , 2023, 38, 691-699.	0.7	4
108	Bioreactor for quantification of cell metabolism by MR-hyperpolarization. <i>Biomedical Physics and Engineering Express</i> , 2015, 1, 047003.	1.2	3

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109	Hyperpolarized <sup>13</sup> C Magnetic Resonance Treatment Response Monitoring: A New Paradigm for Multiorgan Metabolic Assessment of Pharmacological Interventions?. <i>Diabetes</i> , 2016, 65, 3529-3531.	0.6	3
110	Current state-of-the-art hyperpolarized <sup>13</sup> C-acetate-to-acetylcarnitine imaging is not indicative of the altered balance between glucose and fatty acid utilization associated with diabetes. <i>Physiological Reports</i> , 2016, 4, e12975.	1.7	3
111	Recommendations for Preclinical Renal MRI: A Comprehensive Open-Access Protocol Collection to Improve Training, Reproducibility, and Comparability of Studies. <i>Methods in Molecular Biology</i> , 2021, 2216, 3-23.	0.9	3
112	Di-chromatic interpolation of magnetic resonance metabolic images. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 57-72.	2.0	3
113	Analysis Protocol for Renal Sodium ( <sup>23</sup> Na) MR Imaging. <i>Methods in Molecular Biology</i> , 2021, 2216, 689-696.	0.9	3
114	Imaging Regional Metabolic Changes in the Ischemic Rat Heart In Vivo Using Hyperpolarized [ <sup>1-13</sup> C]Pyruvate. <i>Tomography</i> , 2017, 3, 123-130.	1.8	3
115	Development of a human heart-sized perfusion system for metabolic imaging studies using hyperpolarized [ <sup>1-13</sup> C]pyruvate MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 3510-3521.	3.0	3
116	Hyperpolarized <sup>13</sup> C MRI Reveals Large Changes in Pyruvate Metabolism During Digestion in Snakes. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 890-900.	3.0	3
117	<sup>13</sup> C dynamic nuclear polarization for measuring metabolic flux in endothelial progenitor cells. <i>Experimental Cell Research</i> , 2016, 349, 95-100.	2.6	2
118	Hyperpolarized pyruvate to measure the influence of PKM2 activation on glucose metabolism in the healthy kidney. <i>NMR in Biomedicine</i> , 2021, 34, e4583.	2.8	2
119	Sodium ( <sup>23</sup> Na) MRI of the Kidney: Experimental Protocol. <i>Methods in Molecular Biology</i> , 2021, 2216, 473-480.	0.9	2
120	A new RF tagging pulse based on the Frank poly-phase perfect sequence. <i>Journal of Magnetic Resonance</i> , 2014, 247, 50-53.	2.1	1
121	Special issue on magnetic resonance imaging biomarkers of renal disease. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 1-2.	2.0	1
122	Hyperpolarized Carbon ( <sup>13</sup> C) MRI of the Kidneys: Basic Concept. <i>Methods in Molecular Biology</i> , 2021, 2216, 267-278.	0.9	1
123	The number of glomeruli and pyruvate metabolism is not strongly coupled in the healthy rat kidney. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 896-903.	3.0	1
124	Hyperpolarized [ <sup>1-13</sup> C]pyruvate combined with the hyperinsulinaemic euglycaemic and hypoglycaemic clamp technique in skeletal muscle in a large animal model. <i>Experimental Physiology</i> , 2021, 106, 2412-2422.	2.0	1
125	New Device for Noninvasive Telemetric Monitoring of Vital Signs in Healthy and Newly Operated Piglets. <i>Journal of the American Association for Laboratory Animal Science</i> , 2020, 59, 90-93.	1.2	1
126	Hyperbaric Oxygen Treatment for Diabetic Retinopathy and Neuropathy in a Streptozotocin Induced Diabetic Rat Model. <i>Journal of Biomedical Science and Engineering</i> , 2021, 14, 391-401.	0.4	1



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127	Concentration-dependent effects of dichloroacetate in type 2 diabetic hearts assessed by hyperpolarized [ <sup>13</sup> C]pyruvate magnetic resonance imaging. <i>NMR in Biomedicine</i> , 2022, 35, e4678.	2.8	1
128	Sa1112 Three-Dimensional Myoarchitecture of Porcine Gastro-Esophageal Junction With Diffusion Tensor Imaging. <i>Gastroenterology</i> , 2015, 148, S-229.	1.3	0
129	PV-0369: The potential of hyperpolarized <sup>13</sup> C MRS to monitor the effect of vascular disrupting agents. <i>Radiotherapy and Oncology</i> , 2017, 123, S199.	0.6	0
130	FP213NON-INVASIVE ASSESSMENT OF THE FIBROGENIC RESPONSE FOLLOWING ISCHEMIA/REPERFUSION INJURY IN RODENTS. <i>Nephrology Dialysis Transplantation</i> , 2018, 33, i102-i103.	0.7	0
131	<i>In vivo</i> Evidence That <i>SORL1</i>, Encoding the Endosomal Recycling Receptor SORLA, Can Function as a Causal Gene in Alzheimer's Disease. <i>SSRN Electronic Journal</i> , 0, .	0.4	0
132	Renal MR Fingerprinting: A Novel Solution to a Complex Problem. <i>Radiology</i> , 2021, 300, 388-389.	7.3	0
133	Remodeling after myocardial infarction and effects of heart failure treatment investigated by hyperpolarized [ <sup>13</sup> C]pyruvate magnetic resonance spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 57-69.	3.0	0
134	Hyperpolarized Carbon (13C) MRI of the Kidney: Experimental Protocol. <i>Methods in Molecular Biology</i> , 2021, 2216, 481-493.	0.9	0
135	Analysis Methods for Hyperpolarized Carbon (13C) MRI of the Kidney. <i>Methods in Molecular Biology</i> , 2021, 2216, 697-710.	0.9	0
136	Human hyperpolarized [1- <sup>13</sup> C] pyruvate CMR and adenosine stress test. <i>European Heart Journal</i> , 2021, 42, .	2.2	0
137	Hyperpolarized <sup>13</sup> C MRS reveals hypoxia accelerates pseudo hypoxia in the diabetic kidney (890.8). <i>FASEB Journal</i> , 2014, 28, 890.8.	0.5	0
138	Abstract 2854: The potential of hyperpolarized 13-C magnetic resonance spectroscopy to monitor the effect of combretastatin based vascular disrupting agents. , 2017, , .		0
139	Renal Energy Metabolism Following Acute Dichloroacetate and 2,4-Dinitrophenol Administration: Assessing the Cumulative Action with Hyperpolarized [1- <sup>13</sup> C]Pyruvate MRI. <i>Tomography</i> , 2018, 4, 105-109.	1.8	0
140	Magnetic resonance hyperpolarisation imaging detects early myocardial dysfunction in a porcine model of right ventricular heart failure. <i>FASEB Journal</i> , 2019, 33, 831.4.	0.5	0
141	Sodium MRI of the Renal Corticomedullary Gradient. <i>Radiology</i> , 2022, , 213007.	7.3	0