

# Christoffer Laustsen

## List of Publications by Year in descending order

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141  
papers

2,677  
citations

249298

26  
h-index

286692

43  
g-index

146  
all docs

146  
docs citations

146  
times ranked

2996  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	0.4	4
2	Consensus-Based Technical Recommendations for Clinical Translation of Renal Phase Contrast MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 55, 323-335.	1.9	22
3	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.	1.9	0
4	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.	1.9	1
5	Hyperpolarized MRI – An Update and Future Perspectives. <i>Seminars in Nuclear Medicine</i> , 2022, 52, 374-381.	2.5	16
6	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.	1.6	1
7	Sodium MRI of the Renal Corticomedullary Gradient. <i>Radiology</i> , 2022, , 213007.	3.6	0
8	Hyperpolarized carbon 13 MRI in liver diseases: Recent advances and future opportunities. <i>Liver International</i> , 2022, 42, 973-983.	1.9	7
9	Initial Experience on Hyperpolarized [1-13C]Pyruvate MRI Multicenter Reproducibility – Are Multicenter Trials Feasible?. <i>Tomography</i> , 2022, 8, 585-595.	0.8	8
10	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.	1.6	9
11	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.	1.9	3
12	Lactate saturation limits bicarbonate detection in hyperpolarized <sup>13</sup> C-pyruvate MRI of the brain. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1170-1179.	1.9	8
13	Detection of increased pyruvate dehydrogenase flux in the human heart during adenosine stress test using hyperpolarized [1-13C]pyruvate cardiovascular magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2022, 24, .	1.6	11
14	Imaging Neurodegenerative Metabolism in Amyotrophic Lateral Sclerosis with Hyperpolarized [1-13C]pyruvate MRI. <i>Tomography</i> , 2022, 8, 1570-1577.	0.8	5
15	Hyperpolarized Carbon (13C) MRI of the Kidneys: Basic Concept. <i>Methods in Molecular Biology</i> , 2021, 2216, 267-278.	0.4	1
16	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.	0.4	3
17	Di-chromatic interpolation of magnetic resonance metabolic images. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 57-72.	1.1	3
18	Comprehensive Literature Review of Hyperpolarized Carbon-13 MRI: The Road to Clinical Application. <i>Metabolites</i> , 2021, 11, 219.	1.3	20

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19	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.	2.4	10
20	Hyperpolarized pyruvate to measure the influence of PKM2 activation on glucose metabolism in the healthy kidney. <i>NMR in Biomedicine</i> , 2021, 34, e4583.	1.6	2
21	Renal MR Fingerprinting: A Novel Solution to a Complex Problem. <i>Radiology</i> , 2021, 300, 388-389.	3.6	0
22	Sodium ( <sup>23</sup> Na) MRI of the Kidney: Basic Concept. <i>Methods in Molecular Biology</i> , 2021, 2216, 257-266.	0.4	5
23	Analysis Protocol for Renal Sodium ( <sup>23</sup> Na) MR Imaging. <i>Methods in Molecular Biology</i> , 2021, 2216, 689-696.	0.4	3
24	Hyperpolarized Carbon ( <sup>13</sup> C) MRI of the Kidney: Experimental Protocol. <i>Methods in Molecular Biology</i> , 2021, 2216, 481-493.	0.4	0
25	Analysis Methods for Hyperpolarized Carbon ( <sup>13</sup> C) MRI of the Kidney. <i>Methods in Molecular Biology</i> , 2021, 2216, 697-710.	0.4	0
26	Sodium ( <sup>23</sup> Na) MRI of the Kidney: Experimental Protocol. <i>Methods in Molecular Biology</i> , 2021, 2216, 473-480.	0.4	2
27	Human hyperpolarized [ <sup>13</sup> C] pyruvate CMR and adenosine stress test. <i>European Heart Journal</i> , 2021, 42, .	1.0	0
28	Hyperpolarized [ <sup>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.	0.9	1
29	Development of a human heart-sized perfusion system for metabolic imaging studies using hyperpolarized [ <sup>13</sup> C]pyruvate MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 3510-3521.	1.9	3
30	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.	0.2	1
31	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.	0.5	11
32	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.	1.9	45
33	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.	1.1	44
34	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.	1.1	61
35	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.	1.9	9
36	Special issue on magnetic resonance imaging biomarkers of renal disease. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 1-2.	1.1	1

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37	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.	1.1	80
38	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.	1.1	9
39	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.	1.1	68
40	Anatomically correct assessment of the orientation of the cardiomyocytes using diffusion tensor imaging. <i>NMR in Biomedicine</i> , 2020, 33, e4205.	1.6	11
41	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.	1.9	9
42	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.	1.1	52
43	Multi-site benchmarking of clinical <sup>13</sup> C RF coils at 3T. <i>Journal of Magnetic Resonance</i> , 2020, 318, 106798.	1.2	10
44	The hemodynamic and metabolic effects of spironolactone treatment in acute kidney injury assessed by hyperpolarized MRI. <i>NMR in Biomedicine</i> , 2020, 33, e4371.	1.6	5
45	Noninvasive Assessment of Fibrosis Following Ischemia/Reperfusion Injury in Rodents Utilizing Na <sup>23</sup> Na Magnetic Resonance Imaging. <i>Pharmaceutics</i> , 2020, 12, 775.	2.0	5
46	Increasing carbohydrate oxidation improves contractile reserves and prevents hypertrophy in porcine right heart failure. <i>Scientific Reports</i> , 2020, 10, 8158.	1.6	24
47	Hyperpolarized [ <sup>13</sup> C] alanine production: A novel imaging biomarker of renal fibrosis. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2063-2073.	1.9	7
48	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.	1.6	8
49	Hyperpolarized [ <sup>13</sup> C]fumarate imaging detects microvascular complications and hypoxia mediated cell death in diabetic nephropathy. <i>Scientific Reports</i> , 2020, 10, 9650.	1.6	11
50	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.	1.9	9
51	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.	2.4	49
52	Three-dimensional accelerated acquisition for hyperpolarized <sup>13</sup> C MRI with blipped stack of spirals and conjugate gradient SENSE. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 519-534.	1.9	5
53	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.	1.9	24
54	Visualization of sodium dynamics in the kidney by magnetic resonance imaging in a multi-site study. <i>Kidney International</i> , 2020, 98, 1174-1178.	2.6	17

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55	Glucose metabolism in brown adipose tissue determined by deuterium metabolic imaging in rats. <i>International Journal of Obesity</i> , 2020, 44, 1417-1427.	1.6	23
56	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.	2.6	12
57	Sex Differences in Kidney Function and Metabolism Assessed Using Hyperpolarized [1-13C]Pyruvate Interleaved Spectroscopy and Nonspecific Imaging. <i>Tomography</i> , 2020, 6, 5-13.	0.8	8
58	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.	0.6	1
59	Cardiac pH-Imaging With Hyperpolarized MRI. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 603674.	1.1	4
60	Coil profile estimation strategies for parallel imaging with hyperpolarized 13 C MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 2104-2117.	1.9	9
61	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.	1.6	13
62	Fractional Perfusion: A Simple Semi-Parametric Measure for Hyperpolarized 13C MR. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 523-527.	2.7	9
63	Metabolic consequences of lactate dehydrogenase inhibition by oxamate in hyperglycemic proximal tubular cells. <i>Experimental Cell Research</i> , 2019, 378, 51-56.	1.2	13
64	Improved Decoupling for Low Frequency MRI Arrays Using Non-Conventional Preamplifier Impedance. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1940-1948.	2.5	10
65	Glucagon infusion alters the hyperpolarized <sup>13</sup> C urea renal hemodynamic signature. <i>NMR in Biomedicine</i> , 2019, 32, e4028.	1.6	7
66	Hyperpolarized 13C MRI: Path to Clinical Translation in Oncology. <i>Neoplasia</i> , 2019, 21, 1-16.	2.3	316
67	Hyperpolarized [1-13 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.	1.9	9
68	Assessment of mouse liver [1-13C]pyruvate metabolism by dynamic hyperpolarized MRS. <i>Journal of Endocrinology</i> , 2019, 242, 251-260.	1.2	7
69	High Intrarenal Lactate Production Inhibits the Renal Pseudohypoxic Response to Acutely Induced Hypoxia in Diabetes. <i>Tomography</i> , 2019, 5, 239-247.	0.8	4
70	Ex Vivo Human Placenta Perfusion, Metabolic and Functional Imaging for Obstetric Research—A Feasibility Study. <i>Tomography</i> , 2019, 5, 333-338.	0.8	11
71	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.	0.2	0
72	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.	0.6	5

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73	Hyperpolarized [1,4- <sup>13</sup> C]Fumarate Enables Magnetic Resonance-Based Imaging of Myocardial Necrosis. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1594-1606.	2.3	46
74	Dynamic coronary MR angiography in a pig model with hyperpolarized water. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1165-1169.	1.9	12
75	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.	1.9	20
76	Acute hypertensive stress imaged by cardiac hyperpolarized [ <sup>13</sup> C]pyruvate magnetic resonance. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2053-2061.	1.9	9
77	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.	1.6	22
78	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.	1.9	14
79	Acute renal metabolic effect of metformin assessed with hyperpolarised MRI in rats. <i>Diabetologia</i> , 2018, 61, 445-454.	2.9	25
80	FP213NON-INVASIVE ASSESSMENT OF THE FIBROGENIC RESPONSE FOLLOWING ISCHEMIA/REPERFUSION INJURY IN RODENTS. <i>Nephrology Dialysis Transplantation</i> , 2018, 33, i102-i103.	0.4	0
81	Hyperpolarized [ <sup>13</sup> C] pyruvate as a possible diagnostic tool in liver disease. <i>Physiological Reports</i> , 2018, 6, e13943.	0.7	11
82	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.	1.8	11
83	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.	1.7	11
84	<sup>13</sup> C Pyruvate Transport Across the Blood-Brain Barrier in Preclinical Hyperpolarised MRI. <i>Scientific Reports</i> , 2018, 8, 15082.	1.6	43
85	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.	1.7	37
86	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.	0.8	0
87	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.	1.9	25
88	Fumarase activity: an in vivo and in vitro biomarker for acute kidney injury. <i>Scientific Reports</i> , 2017, 7, 40812.	1.6	38
89	Antioxidant treatment attenuates lactate production in diabetic nephropathy. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 312, F192-F199.	1.3	28
90	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.	1.3	36

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91	The chinchilla as a novel animal model of pregnancy. <i>Royal Society Open Science</i> , 2017, 4, 161098.	1.1	19
92	Imaging oxygen metabolism with hyperpolarized magnetic resonance: a novel approach for the examination of cardiac and renal function. <i>Bioscience Reports</i> , 2017, 37, .	1.1	13
93	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.	0.3	0
94	Hyperbaric oxygen therapy reduces renal lactate production. <i>Physiological Reports</i> , 2017, 5, e13217.	0.7	14
95	Cafestol, a Bioactive Substance in Coffee, Has Antidiabetic Properties in KKAY Mice. <i>Journal of Natural Products</i> , 2017, 80, 2353-2359.	1.5	29
96	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.	1.6	16
97	Hyperpolarized [1- <sup>13</sup> C]-acetate Renal Metabolic Clearance Rate Mapping. <i>Scientific Reports</i> , 2017, 7, 16002.	1.6	30
98	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.	0.8	9
99	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.	1.9	5
100	Renal MR angiography and perfusion in the pig using hyperpolarized water. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1131-1135.	1.9	18
101	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.	1.1	19
102	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.	0.8	14
103	Imaging Regional Metabolic Changes in the Ischemic Rat Heart In Vivo Using Hyperpolarized [1- <sup>13</sup> C]Pyruvate. <i>Tomography</i> , 2017, 3, 123-130.	0.8	3
104	Can Hyperpolarized <sup>13</sup> C-Urea Be Used to Assess Glomerular Filtration Rate? A Retrospective Study. <i>Tomography</i> , 2017, 3, 146-152.	0.8	20
105	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.	0.8	26
106	Abstract 2854: The potential of hyperpolarized <sup>13</sup> C magnetic resonance spectroscopy to monitor the effect of combretastatin based vascular disrupting agents. , 2017, , .		0
107	Hyperpolarized Renal Magnetic Resonance Imaging: Potential and Pitfalls. <i>Frontiers in Physiology</i> , 2016, 7, 72.	1.3	29
108	Early diabetic kidney maintains the corticomedullary urea and sodium gradient. <i>Physiological Reports</i> , 2016, 4, e12714.	0.7	26

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109	Hyperpolarized <sup>13</sup> C, <sup>15</sup> N <sub>2</sub> â€Urea MRI for assessment of the urea gradient in the porcine kidney. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1895-1899.	1.9	28
110	<sup>13</sup> C dynamic nuclear polarization for measuring metabolic flux in endothelial progenitor cells. <i>Experimental Cell Research</i> , 2016, 349, 95-100.	1.2	2
111	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.	0.3	3
112	Renal ischemia and reperfusion assessment with three-dimensional hyperpolarized <sup>13</sup> C, <sup>15</sup> N <sub>2</sub> â€urea. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1524-1530.	1.9	36
113	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.	0.7	3
114	Hyperpolarized <sup>13</sup> C urea relaxation mechanism reveals renal changes in diabetic nephropathy. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 515-518.	1.9	34
115	The myocardial architecture changes in persistent pulmonary hypertension of the newborn in an ovine animal model. <i>Pediatric Research</i> , 2016, 79, 565-574.	1.1	26
116	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.	1.6	26
117	Fast Pad <sup>â</sup> Transform Accelerated CSI for Hyperpolarized MRS. <i>Tomography</i> , 2016, 2, 117-124.	0.8	8
118	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.	1.9	26
119	Bioreactor for quantification of cell metabolism by MR-hyperpolarization. <i>Biomedical Physics and Engineering Express</i> , 2015, 1, 047003.	0.6	3
120	Sa1112 Three-Dimensional Myoarchitecture of Porcine Gastro-Esophageal Junction With Diffusion Tensor Imaging. <i>Gastroenterology</i> , 2015, 148, S-229.	0.6	0
121	Investigation of metabolic changes in STZ-induced diabetic rats with hyperpolarized [ <sup>13</sup> C]acetate. <i>Physiological Reports</i> , 2015, 3, e12474.	0.7	18
122	Hyperpolarized magnetic resonance spectroscopy for assessing tumor hypoxia. <i>Acta Oncol<sup>â</sup>gica</i> , 2015, 54, 1393-1398.	0.8	8
123	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.	2.6	64
124	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.	1.2	38
125	A new RF tagging pulse based on the Frank poly-phase perfect sequence. <i>Journal of Magnetic Resonance</i> , 2014, 247, 50-53.	1.2	1
126	Storage of magnetization as singlet order by optimal control designed pulses. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 921-926.	1.9	9

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127	Hyperpolarized H <sub>2</sub> O MR angiography. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 50-56.	1.9	26
128	Insufficient insulin administration to diabetic rats increases substrate utilization and maintains lactate production in the kidney. <i>Physiological Reports</i> , 2014, 2, e12233.	0.7	39
129	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.	0.2	0
130	Assessment of early diabetic renal changes with hyperpolarized [ <sup>13</sup> C]pyruvate. <i>Diabetes/Metabolism Research and Reviews</i> , 2013, 29, 125-129.	1.7	83
131	Dynamic nuclear polarization and optimal control spatial-selective <sup>13</sup> C MRI and MRS. <i>Journal of Magnetic Resonance</i> , 2013, 227, 57-61.	1.2	21
132	Superparamagnetic iron oxide polyacrylic acid coated <sup>57</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.	1.3	60
133	Recycling and Imaging of Nuclear Singlet Hyperpolarization. <i>Journal of the American Chemical Society</i> , 2013, 135, 5084-5088.	6.6	94
134	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.	1.6	21
135	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.	2.4	33
136	Hyperpolarized singlet NMR on a small animal imaging system. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 1262-1265.	1.9	37
137	Quadrupolar-coupling-specific binomial pulse sequences for in vivo <sup>23</sup> Na NMR and MRI. <i>Journal of Magnetic Resonance</i> , 2010, 206, 139-146.	1.2	7
138	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
139	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.	0.6	19
140	<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
141	<sup>13</sup> C MRSI using <sup>23</sup> Na sensitivity profiles. <i>Magnetic Resonance in Medicine</i> , 0, , .	1.9	5