Christoffer Laustsen

List of Publications by Year
in descending order

141	2,677	218677	254184
papers	citations	26 h-index	43 g-index

146	146	146	2752
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluation of renal oxygenation by BOLDâ€“MRI in high-risk patients with type 2 diabetes and matched controls. Nephrology Dialysis Transplantation, 2023, 38, 691-699.	0.7	4
2	Consensusâ€Based Technical Recommendations for Clinical Translation of Renal Phase Contrast <scp>MRI</scp>. Journal of Magnetic Resonance Imaging, 2022, 55, 323-335.	3.4	22
3	Remodeling after myocardial infarction and effects of heart failure treatment investigated by hyperpolarized [1â€•13 C]pyruvate magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 2022, 87, 57-69.	3.0	0
4	The number of glomeruli and pyruvate metabolism is not strongly coupled in the healthy rat kidney. Magnetic Resonance in Medicine, 2022, 87, 896-903.	3.0	1
5	Hyperpolarized MRI â€“ An Update and Future Perspectives. Seminars in Nuclear Medicine, 2022, 52, 374-381.	4.6	16
6	Concentrationâ€dependent effects of dichloroacetate in type 2 diabetic hearts assessed by hyperpolarized [1â€‹¹³C]â€pyruvate magnetic resonance imaging. NMR in Biomedicine, 2022, 35, e4678.	2.8	1
7	Sodium MRI of the Renal Corticomedullary Gradient. Radiology, 2022, , 213007.	7.3	0
8	Hyperpolarized carbon 13 MRI in liver diseases: Recent advances and future opportunities. Liver International, 2022, 42, 973-983.	3.9	7
9	Initial Experience on Hyperpolarized [1-13C]Pyruvate MRI Multicenter Reproducibilityâ€”Are Multicenter Trials Feasible?. Tomography, 2022, 8, 585-595.	1.8	8
10	Migraineâ€Associated Mutation in the Na,Kâ€ATPase Leads to Disturbances in Cardiac Metabolism and Reduced Cardiac Function. Journal of the American Heart Association, 2022, 11, e021814.	3.7	9
11	Hyperpolarized <scp>¹³C</scp> MRI Reveals Large Changes in Pyruvate Metabolism During Digestion in Snakes. Magnetic Resonance in Medicine, 2022, 88, 890-900.	3.0	3
12	Lactate saturation limits bicarbonate detection in hyperpolarized <scp>¹³C</scp>â€pyruvate <scp>MRI</scp> of the brain. Magnetic Resonance in Medicine, 2022, 88, 1170-1179.	3.0	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. Journal of Cardiovascular Magnetic Resonance, 2022, 24, .	3.3	11
14	Imaging Neurodegenerative Metabolism in Amyotrophic Lateral Sclerosis with Hyperpolarized [1-13C]pyruvate MRI. Tomography, 2022, 8, 1570-1577.	1.8	5
15	Hyperpolarized Carbon (13C) MRI of the Kidneys: Basic Concept. Methods in Molecular Biology, 2021, 2216, 267-278.	0.9	1
16	Recommendations for Preclinical Renal MRI: A Comprehensive Open-Access Protocol Collection to Improve Training, Reproducibility, and Comparability of Studies. Methods in Molecular Biology, 2021, 2216, 3-23.	0.9	3
17	Di-chromatic interpolation of magnetic resonance metabolic images. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 57-72.	2.0	3
18	Comprehensive Literature Review of Hyperpolarized Carbon-13 MRI: The Road to Clinical Application. Metabolites, 2021, 11, 219.	2.9	20

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19	Metabolic MRI with hyperpolarized [1-¹³C]pyruvate separates benign oligemia from infarcting penumbra in porcine stroke. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2916-2927.	4.3	10
20	Hyperpolarized pyruvate to measure the influence of PKM2 activation on glucose metabolism in the healthy kidney. NMR in Biomedicine, 2021, 34, e4583.	2.8	2
21	Renal MR Fingerprinting: A Novel Solution to a Complex Problem. Radiology, 2021, 300, 388-389.	7.3	0
22	Sodium (23Na) MRI of the Kidney: Basic Concept. Methods in Molecular Biology, 2021, 2216, 257-266.	0.9	5
23	Analysis Protocol for Renal Sodium (23Na) MR Imaging. Methods in Molecular Biology, 2021, 2216, 689-696.	0.9	3
24	Hyperpolarized Carbon (13C) MRI of the Kidney: Experimental Protocol. Methods in Molecular Biology, 2021, 2216, 481-493.	0.9	0
25	Analysis Methods for Hyperpolarized Carbon (13C) MRI of the Kidney. Methods in Molecular Biology, 2021, 2216, 697-710.	0.9	0
26	Sodium (23Na) MRI of the Kidney: Experimental Protocol. Methods in Molecular Biology, 2021, 2216, 473-480.	0.9	2
27	Human hyperpolarized [1-13C] pyruvate CMR and adenosine stress test. European Heart Journal, 2021, 42, .	2.2	0
28	Hyperpolarized [1â€¹³C]pyruvate combined with the hyperinsulinaemic euglycaemic and hypoglycaemic clamp technique in skeletal muscle in a large animal model. Experimental Physiology, 2021, 106, 2412-2422.	2.0	1
29	Development of a human heartâ€sized perfusion system for metabolic imaging studies using hyperpolarized [1â€•13 C]pyruvate MRI. Magnetic Resonance in Medicine, 2021, 85, 3510-3521.	3.0	3
30	Hyperbaric Oxygen Treatment for Diabetic Retinopathy and Neuropathy in a Streptozotocin Induced Diabetic Rat Model. Journal of Biomedical Science and Engineering, 2021, 14, 391-401.	0.4	1
31	Magnetic resonance hyperpolarization imaging detects early myocardial dysfunction in a porcine model of right ventricular heart failure. European Heart Journal Cardiovascular Imaging, 2020, 21, 93-101.	1.2	11
32	Pilot Study Experiences With Hyperpolarized [1â€¹³C]pyruvate MRI in Pancreatic Cancer Patients. Journal of Magnetic Resonance Imaging, 2020, 51, 961-963.	3.4	45
33	Technical recommendations for clinical translation of renal MRI: a consensus project of the Cooperation in Science and Technology Action PARENCHIMA. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 131-140.	2.0	44
34	Consensus-based technical recommendations for clinical translation of renal diffusion-weighted MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 177-195.	2.0	61
35	Detection of acute kidney injury with hyperpolarized [¹³C, ¹⁵N]Urea and multiexponential relaxation modeling. Magnetic Resonance in Medicine, 2020, 84, 943-949.	3.0	9
36	Special issue on magnetic resonance imaging biomarkers of renal disease. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 1-2.	2.0	1

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37	Consensus-based technical recommendations for clinical translation of renal ASL MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 141-161.	2.0	80
38	Hyperpolarised 13C-MRI metabolic and functional imaging: an emerging renal MR diagnostic modality. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 23-32.	2.0	9
39	Consensus-based technical recommendations for clinical translation of renal BOLD MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 199-215.	2.0	68
40	Anatomically correct assessment of the orientation of the cardiomyocytes using diffusion tensor imaging. NMR in Biomedicine, 2020, 33, e4205.	2.8	11
41	Autonomous cryogenic RF receive coil for ¹³C imaging of rodents at 3 T. Magnetic Resonance in Medicine, 2020, 84, 497-508.	3.0	9
42	Consensus-based technical recommendations for clinical translation of renal T1 and T2 mapping MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 163-176.	2.0	52
43	Multi-site benchmarking of clinical 13C RF coils at 3T. Journal of Magnetic Resonance, 2020, 318, 106798.	2.1	10
44	The hemodynamic and metabolic effects of spironolactone treatment in acute kidney injury assessed by hyperpolarized MRI. NMR in Biomedicine, 2020, 33, e4371.	2.8	5
45	Noninvasive Assessment of Fibrosis Following Ischemia/Reperfusion Injury in Rodents Utilizing Na Magnetic Resonance Imaging. Pharmaceutics, 2020, 12, 775.	4.5	5
46	Increasing carbohydrate oxidation improves contractile reserves and prevents hypertrophy in porcine right heart failure. Scientific Reports, 2020, 10, 8158.	3.3	24
47	Hyperpolarized [1â€¹³C] alanine production: A novel imaging biomarker of renal fibrosis. Magnetic Resonance in Medicine, 2020, 84, 2063-2073.	3.0	7
48	Metabolic reprogramming associated with progression of renal ischemia reperfusion injury assessed with hyperpolarized [1-13C]pyruvate. Scientific Reports, 2020, 10, 8915.	3.3	8
49	Hyperpolarized [1,4-13C]fumarate imaging detects microvascular complications and hypoxia mediated cell death in diabetic nephropathy. Scientific Reports, 2020, 10, 9650.	3.3	11
50	Graft assessment of the ex vivo perfused porcine kidney using hyperpolarized [1â€¹³C]pyruvate. Magnetic Resonance in Medicine, 2020, 84, 2645-2655.	3.0	9
51	Hyperpolarized ¹³C MRI: A novel approach for probing cerebral metabolism in health and neurological disease. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1137-1147.	4.3	49
52	Threeâ€dimensional accelerated acquisition for hyperpolarized 13 C MRÂ with blipped stackâ€ofâ€spirals and conjugateâ€gradientÂ SENSE. Magnetic Resonance in Medicine, 2020, 84, 519-534.	3.0	5
53	Creating a clinical platform for carbonâ€13 studies using the sodiumâ€23 and proton resonances. Magnetic Resonance in Medicine, 2020, 84, 1817-1827.	3.0	24
54	Visualization of sodium dynamics in the kidney by magnetic resonance imaging in a multi-site study. Kidney International, 2020, 98, 1174-1178.	5.2	17

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55	Glucose metabolism in brown adipose tissue determined by deuterium metabolic imaging in rats. International Journal of Obesity, 2020, 44, 1417-1427.	3.4	23
56	Organ-specific metabolic profiles of the liver and kidney during brain death and afterwards during normothermic machine perfusion of the kidney. American Journal of Transplantation, 2020, 20, 2425-2436.	4.7	12
57	Sex Differences in Kidney Function and Metabolism Assessed Using Hyperpolarized [1-13C]Pyruvate Interleaved Spectroscopy and Nonspecific Imaging. Tomography, 2020, 6, 5-13.	1.8	8
58	New Device for Noninvasive Telemetric Monitoring of Vital Signs in Healthy and Newly Operated Piglets. Journal of the American Association for Laboratory Animal Science, 2020, 59, 90-93.	1.2	1
59	Cardiac pH-Imaging With Hyperpolarized MRI. Frontiers in Cardiovascular Medicine, 2020, 7, 603674.	2.4	4
60	Coil profile estimation strategies for parallel imaging with hyperpolarized 13 C MRI. Magnetic Resonance in Medicine, 2019, 82, 2104-2117.	3.0	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. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 35.	3.3	13
62	Fractional Perfusion: A Simple Semi-Parametric Measure for Hyperpolarized 13C MR. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 523-527.	3.7	9
63	Metabolic consequences of lactate dehydrogenase inhibition by oxamate in hyperglycemic proximal tubular cells. Experimental Cell Research, 2019, 378, 51-56.	2.6	13
64	Improved Decoupling for Low Frequency MRI Arrays Using Non-Conventional Preamplifier Impedance. IEEE Transactions on Biomedical Engineering, 2019, 66, 1940-1948.	4.2	10
65	Glucagon infusion alters the hyperpolarized ¹³Câ€urea renal hemodynamic signature. NMR in Biomedicine, 2019, 32, e4028.	2.8	7
66	Hyperpolarized 13C MRI: Path to Clinical Translation in Oncology. Neoplasia, 2019, 21, 1-16.	5.3	316
67	Hyperpolarized [1â€•13 C]pyruvate MRI can image the metabolic shift in cardiac metabolism between the fasted and fed state in a porcine model. Magnetic Resonance in Medicine, 2019, 81, 2655-2665.	3.0	9
68	Assessment of mouse liver [1-13C]pyruvate metabolism by dynamic hyperpolarized MRS. Journal of Endocrinology, 2019, 242, 251-260.	2.6	7
69	High Intrarenal Lactate Production Inhibits the Renal Pseudohypoxic Response to Acutely Induced Hypoxia in Diabetes. Tomography, 2019, 5, 239-247.	1.8	4
70	Ex Vivo Human Placenta Perfusion, Metabolic and Functional Imaging for Obstetric Researchâ€”A Feasibility Study. Tomography, 2019, 5, 333-338.	1.8	11
71	Magnetic resonance hyperpolarisation imaging detects early myocardial dysfunction in a porcine model of right ventricular heart failure. FASEB Journal, 2019, 33, 831.4.	0.5	0
72	3D reconstruction and fiber quantification in the pig lower esophageal sphincter region using in vitro diffusion tensor imaging. Biomedical Physics and Engineering Express, 2018, 4, 025002.	1.2	5

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73	Hyperpolarized [1,4-13C2]Fumarate Enables Magnetic Resonance-Based Imaging of Myocardial Necrosis. JACC: Cardiovascular Imaging, 2018, 11, 1594-1606.	5.3	46
74	Dynamic coronary MR angiography in a pig model with hyperpolarized water. Magnetic Resonance in Medicine, 2018, 80, 1165-1169.	3.0	12
75	Hyperpolarized ¹³C,¹⁵N₂â€urea T₂ relaxation changes in acute kidney injury. Magnetic Resonance in Medicine, 2018, 80, 696-702.	3.0	20
76	Acute hypertensive stress imaged by cardiac hyperpolarized [1â€•13 C]pyruvate magnetic resonance. Magnetic Resonance in Medicine, 2018, 80, 2053-2061.	3.0	9
77	Organ-specific responses during brain death: increased aerobic metabolism in the liver and anaerobic metabolism with decreased perfusion in the kidneys. Scientific Reports, 2018, 8, 4405.	3.3	22
78	Effects of anesthesia on renal function and metabolism in rats assessed by hyperpolarized <scp>MRI</scp>. Magnetic Resonance in Medicine, 2018, 80, 2073-2080.	3.0	14
79	Acute renal metabolic effect of metformin assessed with hyperpolarised MRI in rats. Diabetologia, 2018, 61, 445-454.	6.3	25
80	FP213NON-INVASIVE ASSESSMENT OF THE FIBROGENIC RESPONSE FOLLOWING ISCHEMIA/REPERFUSION INJURY IN RODENTS. Nephrology Dialysis Transplantation, 2018, 33, i102-i103.	0.7	0
81	Hyperpolarized [1â€•¹³ C] pyruvate as a possible diagnostic tool in liver disease. Physiological Reports, 2018, 6, e13943.	1.7	11
82	Evaluation of Active Brown Adipose Tissue by the Use of Hyperpolarized [1-13C]Pyruvate MRI in Mice. International Journal of Molecular Sciences, 2018, 19, 2597.	4.1	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. Nutrients, 2018, 10, 1547.	4.1	11
84	13C Pyruvate Transport Across the Blood-Brain Barrier in Preclinical Hyperpolarised MRI. Scientific Reports, 2018, 8, 15082.	3.3	43
85	A Combination of Coffee Compounds Shows Insulin-Sensitizing and Hepatoprotective Effects in a Rat Model of Diet-Induced Metabolic Syndrome. Nutrients, 2018, 10, 6.	4.1	37
86	Renal Energy Metabolism Following Acute Dichloroacetate and 2,4-Dinitrophenol Administration: Assessing the Cumulative Action with Hyperpolarized [1-13C]Pyruvate MRI. Tomography, 2018, 4, 105-109.	1.8	0
87	Diabetes induced renal urea transport alterations assessed with 3D hyperpolarized¹³C,¹⁵N-Urea. Magnetic Resonance in Medicine, 2017, 77, 1650-1655.	3.0	25
88	Fumarase activity: an in vivo and in vitro biomarker for acute kidney injury. Scientific Reports, 2017, 7, 40812.	3.3	38
89	Antioxidant treatment attenuates lactate production in diabetic nephropathy. American Journal of Physiology - Renal Physiology, 2017, 312, F192-F199.	2.7	28
90	In situ lactate dehydrogenase activity: a novel renal cortical imaging biomarker of tubular injury?. American Journal of Physiology - Renal Physiology, 2017, 312, F465-F473.	2.7	36

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91	The chinchilla as a novel animal model of pregnancy. Royal Society Open Science, 2017, 4, 161098.	2.4	19
92	Imaging oxygen metabolism with hyperpolarized magnetic resonance: a novel approach for the examination of cardiac and renal function. Bioscience Reports, 2017, 37, .	2.4	13
93	PV-0369: The potential of hyperpolarized 13 C MRS to monitor the effect of vascular disrupting agents. Radiotherapy and Oncology, 2017, 123, S199.	0.6	0
94	Hyperbaric oxygen therapy reduces renal lactate production. Physiological Reports, 2017, 5, e13217.	1.7	14
95	Cafestol, a Bioactive Substance in Coffee, Has Antidiabetic Properties in KKAy Mice. Journal of Natural Products, 2017, 80, 2353-2359.	3.0	29
96	Imaging porcine cardiac substrate selection modulations by glucose, insulin and potassium intervention: A hyperpolarized [1â€‹sup›13‹/sup›C]pyruvate study. NMR in Biomedicine, 2017, 30, e3702.	2.8	16
97	Hyperpolarized [1-13C]-acetate Renal Metabolic Clearance Rate Mapping. Scientific Reports, 2017, 7, 16002.	3.3	30
98	The potential of hyperpolarized ‹sup›13‹/sup›C magnetic resonance spectroscopy to monitor the effect of combretastatin based vascular disrupting agents. Acta OncolÃ³gica, 2017, 56, 1626-1633.	1.8	9
99	Ex vivo hyperpolarized MR spectroscopy on isolated renal tubular cells: A novel technique for cell energy phenotyping. Magnetic Resonance in Medicine, 2017, 78, 457-461.	3.0	5
100	Renal ‹scp›MR‹/scp› angiography and perfusion in the pig using hyperpolarized water. Magnetic Resonance in Medicine, 2017, 78, 1131-1135.	3.0	18
101	Unilateral nephrectomy diminishes ischemic acute kidney injury through enhanced perfusion and reduced pro-inflammatory and pro-fibrotic responses. PLoS ONE, 2017, 12, e0190009.	2.5	19
102	Low-Noise Active Decoupling Circuit and its Application to 13C Cryogenic RF Coils at 3 T. Tomography, 2017, 3, 60-66.	1.8	14
103	Imaging Regional Metabolic Changes in the Ischemic Rat Heart In Vivo Using Hyperpolarized [1-13C]Pyruvate. Tomography, 2017, 3, 123-130.	1.8	3
104	Can Hyperpolarized 13C-Urea Be Used to Assess Glomerular Filtration Rate? A Retrospective Study. Tomography, 2017, 3, 146-152.	1.8	20
105	Hyperpolarized 13C Magnetic Resonance Imaging Can Detect Metabolic Changes Characteristic of Penumbra in Ischemic Stroke. Tomography, 2017, 3, 67-73.	1.8	26
106	Abstract 2854: The potential of hyperpolarized 13-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. Frontiers in Physiology, 2016, 7, 72.	2.8	29
108	Early diabetic kidney maintains the corticomedullary urea and sodium gradient. Physiological Reports, 2016, 4, e12714.	1.7	26

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109	Hyperpolarized ¹³C,¹⁵N₂â€<scp>U</scp>rea <scp>MRI</scp> for assessment of the urea gradient in the porcine kidney. Magnetic Resonance in Medicine, 2016, 76, 1895-1899.	3.0	28
110	13C dynamic nuclear polarization for measuring metabolic flux in endothelial progenitor cells. Experimental Cell Research, 2016, 349, 95-100.	2.6	2
111	Hyperpolarized 13C Magnetic Resonance Treatment Response Monitoring: A New Paradigm for Multiorgan Metabolic Assessment of Pharmacological Interventions?. Diabetes, 2016, 65, 3529-3531.	0.6	3
112	Renal ischemia and reperfusion assessment with threeâ€dimensional hyperpolarized ¹³C,¹⁵N2â€urea. Magnetic Resonance in Medicine, 2016, 76, 1524-1530.	3.0	36
113	Current state-of-the-art hyperpolarized ¹³ C-acetate-to-acetylcarnitine imaging is not indicative of the altered balance between glucose and fatty acid utilization associated with diabetes. Physiological Reports, 2016, 4, e12975.	1.7	3
114	Hyperpolarized 13 C urea relaxation mechanism reveals renal changes in diabetic nephropathy. Magnetic Resonance in Medicine, 2016, 75, 515-518.	3.0	34
115	The myocardial architecture changes in persistent pulmonary hypertension of the newborn in an ovine animal model. Pediatric Research, 2016, 79, 565-574.	2.3	26
116	Changes in overall ventricular myocardial architecture in the setting of a porcine animal model of right ventricular dilation. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 93.	3.3	26
117	Fast PadÃ© Transform Accelerated CSI for Hyperpolarized MRS. Tomography, 2016, 2, 117-124.	1.8	8
118	Acute porcine renal metabolic effect of endogastric soft drink administration assessed with hyperpolarized [1â€13c]pyruvate. Magnetic Resonance in Medicine, 2015, 74, 558-563.	3.0	26
119	Bioreactor for quantification of cell metabolism by MR-hyperpolarization. Biomedical Physics and Engineering Express, 2015, 1, 047003.	1.2	3
120	Sa1112 Three-Dimensional Myoarchitecture of Porcine Gastro-Esophageal Junction With Diffusion Tensor Imaging. Gastroenterology, 2015, 148, S-229.	1.3	0
121	Investigation of metabolic changes in STZ-induced diabetic rats with hyperpolarized [1-13C]acetate. Physiological Reports, 2015, 3, e12474.	1.7	18
122	Hyperpolarized magnetic resonance spectroscopy for assessing tumor hypoxia. Acta OncolÃ³gica, 2015, 54, 1393-1398.	1.8	8
123	High altitude may alter oxygen availability and renal metabolism in diabetics as measured by hyperpolarized [1-13C]pyruvate magnetic resonance imaging. Kidney International, 2014, 86, 67-74.	5.2	64
124	In vivo single-shot 13C spectroscopic imaging of hyperpolarized metabolites by spatiotemporal encoding. Journal of Magnetic Resonance, 2014, 240, 8-15.	2.1	38
125	A new RF tagging pulse based on the Frank poly-phase perfect sequence. Journal of Magnetic Resonance, 2014, 247, 50-53.	2.1	1
126	Storage of magnetization as singlet order by optimal control designed pulses. Magnetic Resonance in Medicine, 2014, 71, 921-926.	3.0	9

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127	Hyperpolarized H₂O MR angiography. Magnetic Resonance in Medicine, 2014, 71, 50-56.	3.0	26
128	Insufficient insulin administration to diabetic rats increases substrate utilization and maintains lactate production in the kidney. Physiological Reports, 2014, 2, e12233.	1.7	39
129	Hyperpolarized 13 C MRS reveals hypoxia accelerates pseudo hypoxia in the diabetic kidney (890.8). FASEB Journal, 2014, 28, 890.8.	0.5	0
130	Assessment of early diabetic renal changes with hyperpolarized [1â€¹³C]pyruvate. Diabetes/Metabolism Research and Reviews, 2013, 29, 125-129.	4.0	83
131	Dynamic nuclear polarization and optimal control spatial-selective 13C MRI and MRS. Journal of Magnetic Resonance, 2013, 227, 57-61.	2.1	21
132	Superparamagnetic iron oxide polyacrylic acid coated Î³-Fe2O3 nanoparticles do not affect kidney function but cause acute effect on the cardiovascular function in healthy mice. Toxicology and Applied Pharmacology, 2013, 266, 276-288.	2.8	60
133	Recycling and Imaging of Nuclear Singlet Hyperpolarization. Journal of the American Chemical Society, 2013, 135, 5084-5088.	13.7	94
134	Enhancing the [¹³C]bicarbonate signal in cardiac hyperpolarized [1â€¹³C]pyruvate MRS studies by infusion of glucose, insulin and potassium. NMR in Biomedicine, 2013, 26, 1496-1500.	2.8	21
135	Imaging Cerebral 2-Ketoisocaproate Metabolism with Hyperpolarized ¹³C Magnetic Resonance Spectroscopic Imaging. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1508-1514.	4.3	33
136	Hyperpolarized singlet NMR on a small animal imaging system. Magnetic Resonance in Medicine, 2012, 68, 1262-1265.	3.0	37
137	Quadrupolar-coupling-specific binomial pulse sequences for in vivo 23Na NMR and MRI. Journal of Magnetic Resonance, 2010, 206, 139-146.	2.1	7
138	High-resolution ex vivo magnetic resonance angiography: a feasibility study on biological and medical tissues. BMC Physiology, 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. Zeitschrift Fur Medizinische Physik, 2010, 20, 134-142.	1.5	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. SSRN Electronic Journal, 0, , .	0.4	0
141	<scp>RF</scp> coil design for accurate parallel imaging on <scp> ¹³ C MRSI </scp> using <scp> ²³ Na </scp> sensitivity profiles. Magnetic Resonance in Medicine, 0, , .	3.0	5