List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Evaluation of renal oxygenation by BOLD–MRI in high-risk patients with type 2 diabetes and matched controls. Nephrology Dialysis Transplantation, 2023, 38, 691-699.	0.4	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.	1.9	22
3	Remodeling after myocardial infarction and effects of heart failure treatment investigated by hyperpolarized [1―13 C]pyruvate magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 2022, 87, 57-69.	1.9	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.	1.9	1
5	Concentrationâ€dependent effects of dichloroacetate in type 2 diabetic hearts assessed by hyperpolarized [1â€ <sup>13</sup> C]â€pyruvate magnetic resonance imaging. NMR in Biomedicine, 2022, 35, e4678.	1.6	1
6	Sodium MRI of the Renal Corticomedullary Gradient. Radiology, 2022, , 213007.	3.6	0
7	Hyperpolarized carbon 13 MRI in liver diseases: Recent advances and future opportunities. Liver International, 2022, 42, 973-983.	1.9	7
8	lmaging white matter microstructure with gradientâ€echo phase imaging: Is ex vivo imaging with formalinâ€fixed tissue a good approximation of the in vivo brain?. Magnetic Resonance in Medicine, 2022, 88, 380-390.	1.9	5
9	Initial Experience on Hyperpolarized [1-13C]Pyruvate MRI Multicenter Reproducibility—Are Multicenter Trials Feasible?. Tomography, 2022, 8, 585-595.	0.8	8
10	Hyperpolarized <scp><sup>13</sup>C</scp> MRI Reveals Large Changes in Pyruvate Metabolism During Digestion in Snakes. Magnetic Resonance in Medicine, 2022, 88, 890-900.	1.9	3
11	Lactate saturation limits bicarbonate detection in hyperpolarized <scp><sup>13</sup>C</scp> â€pyruvate <scp>MRI</scp> of the brain. Magnetic Resonance in Medicine, 2022, 88, 1170-1179.	1.9	8
12	SEPIA—Susceptibility mapping pipeline tool for phase images. NeuroImage, 2021, 227, 117611.	2.1	32
13	Hyperpolarized Carbon (13C) MRI of the Kidneys: Basic Concept. Methods in Molecular Biology, 2021, 2216, 267-278.	0.4	1
14	Di-chromatic interpolation of magnetic resonance metabolic images. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 57-72.	1.1	3
15	QSM reconstruction challenge 2.0: A realistic in silico head phantom for MRI data simulation and evaluation of susceptibility mapping procedures. Magnetic Resonance in Medicine, 2021, 86, 526-542.	1.9	34
16	Comprehensive Literature Review of Hyperpolarized Carbon-13 MRI: The Road to Clinical Application. Metabolites, 2021, 11, 219.	1.3	20
17	Variable flip angle echo planar time-resolved imaging (vFA-EPTI) for fast high-resolution gradient echo myelin water imaging. Neurolmage, 2021, 232, 117897.	2.1	22
18	Metabolic MRI with hyperpolarized [1- <sup>13</sup> C]pyruvate separates benign oligemia from infarcting penumbra in porcine stroke. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2916-2927.	2.4	10

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19	Hyperpolarized pyruvate to measure the influence of PKM2 activation on glucose metabolism in the healthy kidney. NMR in Biomedicine, 2021, 34, e4583.	1.6	2
20	Assessing cortical cerebral microinfarcts on iron-sensitive MRI in cerebral small vessel disease. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 3391-3399.	2.4	4
21	Decoding the microstructural properties of white matter using realistic models. Neurolmage, 2021, 237, 118138.	2.1	13
22	Renal MR Fingerprinting: A Novel Solution to a Complex Problem. Radiology, 2021, 300, 388-389.	3.6	0
23	Sodium (23Na) MRI of the Kidney: Basic Concept. Methods in Molecular Biology, 2021, 2216, 257-266.	0.4	5
24	Analysis Protocol for Renal Sodium (23Na) MR Imaging. Methods in Molecular Biology, 2021, 2216, 689-696.	0.4	3
25	Hyperpolarized Carbon (13C) MRI of the Kidney: Experimental Protocol. Methods in Molecular Biology, 2021, 2216, 481-493.	0.4	Ο
26	Analysis Methods for Hyperpolarized Carbon (13C) MRI of the Kidney. Methods in Molecular Biology, 2021, 2216, 697-710.	0.4	0
27	Sodium (23Na) MRI of the Kidney: Experimental Protocol. Methods in Molecular Biology, 2021, 2216, 473-480.	0.4	2
28	Hyperpolarized [1â€ <sup>13</sup> C]pyruvate combined with the hyperinsulinaemic euglycaemic and hypoglycaemic clamp technique in skeletal muscle in a large animal model. Experimental Physiology, 2021, 106, 2412-2422.	0.9	1
29	Development of a human heartâ€sized perfusion system for metabolic imaging studies using hyperpolarized [1―13 C]pyruvate MRI. Magnetic Resonance in Medicine, 2021, 85, 3510-3521.	1.9	3
30	Pilot Study Experiences With Hyperpolarized [1â€ <sup>13</sup> C]pyruvate MRI in Pancreatic Cancer Patients. Journal of Magnetic Resonance Imaging, 2020, 51, 961-963.	1.9	45
31	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.	1.1	44
32	Consensus-based technical recommendations for clinical translation of renal diffusion-weighted MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 177-195.	1.1	61
33	Detection of acute kidney injury with hyperpolarized [ <sup>13</sup> C, <sup>15</sup> N]Urea and multiexponential relaxation modeling. Magnetic Resonance in Medicine, 2020, 84, 943-949.	1.9	9
34	Special issue on magnetic resonance imaging biomarkers of renal disease. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 1-2.	1.1	1
35	Consensus-based technical recommendations for clinical translation of renal ASL MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 141-161.	1.1	80
36	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.	1.1	9

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37	Consensus-based technical recommendations for clinical translation of renal BOLD MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 199-215.	1.1	68
38	Autonomous cryogenic RF receive coil for <sup>13</sup> C imaging of rodents at 3 T. Magnetic Resonance in Medicine, 2020, 84, 497-508.	1.9	9
39	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.	1.1	52
40	Multi-site benchmarking of clinical 13C RF coils at 3T. Journal of Magnetic Resonance, 2020, 318, 106798.	1.2	10
41	Multi-compartment relaxometry and diffusion informed myelin water imaging – Promises and challenges of new gradient echo myelin water imaging methods. NeuroImage, 2020, 221, 117159.	2.1	22
42	The hemodynamic and metabolic effects of spironolactone treatment in acute kidney injury assessed by hyperpolarized MRI. NMR in Biomedicine, 2020, 33, e4371.	1.6	5
43	Noninvasive Assessment of Fibrosis Following Ischemia/Reperfusion Injury in Rodents Utilizing Na Magnetic Resonance Imaging. Pharmaceutics, 2020, 12, 775.	2.0	5
44	Increasing carbohydrate oxidation improves contractile reserves and prevents hypertrophy in porcine right heart failure. Scientific Reports, 2020, 10, 8158.	1.6	24
45	Hyperpolarized [1â€ <sup>13</sup> C] alanine production: A novel imaging biomarker of renal fibrosis. Magnetic Resonance in Medicine, 2020, 84, 2063-2073.	1.9	7
46	Metabolic reprogramming associated with progression of renal ischemia reperfusion injury assessed with hyperpolarized [1-13C]pyruvate. Scientific Reports, 2020, 10, 8915.	1.6	8
47	Hyperpolarized [1,4-13C]fumarate imaging detects microvascular complications and hypoxia mediated cell death in diabetic nephropathy. Scientific Reports, 2020, 10, 9650.	1.6	11
48	Graft assessment of the ex vivo perfused porcine kidney using hyperpolarized [1â€ <sup>13</sup> C]pyruvate. Magnetic Resonance in Medicine, 2020, 84, 2645-2655.	1.9	9
49	Creating a clinical platform for carbonâ€13 studies using the sodiumâ€23 and proton resonances. Magnetic Resonance in Medicine, 2020, 84, 1817-1827.	1.9	24
50	Visualization of sodium dynamics in the kidney by magnetic resonance imaging in a multi-site study. Kidney International, 2020, 98, 1174-1178.	2.6	17
51	Glucose metabolism in brown adipose tissue determined by deuterium metabolic imaging in rats. International Journal of Obesity, 2020, 44, 1417-1427.	1.6	23
52	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.	2.6	12
53	Sex Differences in Kidney Function and Metabolism Assessed Using Hyperpolarized [1-13C]Pyruvate Interleaved Spectroscopy and Nonspecific Imaging. Tomography, 2020, 6, 5-13.	0.8	8
54	Cardiac pH-Imaging With Hyperpolarized MRI. Frontiers in Cardiovascular Medicine, 2020, 7, 603674.	1.1	4

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55	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.	1.6	13
56	Metabolic consequences of lactate dehydrogenase inhibition by oxamate in hyperglycemic proximal tubular cells. Experimental Cell Research, 2019, 378, 51-56.	1.2	13
57	Glucagon infusion alters the hyperpolarized <sup>13</sup> Câ€urea renal hemodynamic signature. NMR in Biomedicine, 2019, 32, e4028.	1.6	7
58	Hyperpolarized 13C MRI: Path to Clinical Translation in Oncology. Neoplasia, 2019, 21, 1-16.	2.3	316
59	Metabolic and Structural Skeletal Muscle Health in Systemic Lupus Erythematosus–Related Fatigue: AÂMultimodal Magnetic Resonance Imaging Study. Arthritis Care and Research, 2019, 71, 1640-1646.	1.5	8
60	Hyperpolarized [1―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.	1.9	9
61	Assessment of mouse liver [1-13C]pyruvate metabolism by dynamic hyperpolarized MRS. Journal of Endocrinology, 2019, 242, 251-260.	1.2	7
62	High Intrarenal Lactate Production Inhibits the Renal Pseudohypoxic Response to Acutely Induced Hypoxia in Diabetes. Tomography, 2019, 5, 239-247.	0.8	4
63	Ex Vivo Human Placenta Perfusion, Metabolic and Functional Imaging for Obstetric Research—A Feasibility Study. Tomography, 2019, 5, 333-338.	0.8	11
64	Magnetic resonance hyperpolarisation imaging detects early myocardial dysfunction in a porcine model of right ventricular heart failure. FASEB Journal, 2019, 33, 831.4.	0.2	0
65	Hyperpolarized [1,4-13C2]Fumarate Enables Magnetic Resonance-Based Imaging of Myocardial Necrosis. JACC: Cardiovascular Imaging, 2018, 11, 1594-1606.	2.3	46
66	Dynamic coronary MR angiography in a pig model with hyperpolarized water. Magnetic Resonance in Medicine, 2018, 80, 1165-1169.	1.9	12
67	Hyperpolarized <sup>13</sup> C, <sup>15</sup> N <sub>2</sub> â€urea T <sub>2</sub> relaxation changes in acute kidney injury. Magnetic Resonance in Medicine, 2018, 80, 696-702.	1.9	20
68	Acute hypertensive stress imaged by cardiac hyperpolarized [1―13 C]pyruvate magnetic resonance. Magnetic Resonance in Medicine, 2018, 80, 2053-2061.	1.9	9
69	Effects of anesthesia on renal function and metabolism in rats assessed by hyperpolarized <scp>MRI</scp> . Magnetic Resonance in Medicine, 2018, 80, 2073-2080.	1.9	14
70	Acute renal metabolic effect of metformin assessed with hyperpolarised MRI in rats. Diabetologia, 2018, 61, 445-454.	2.9	25
71	FP213NON-INVASIVE ASSESSMENT OF THE FIBROGENIC RESPONSE FOLLOWING ISCHEMIA/REPERFUSION INJURY IN RODENTS. Nephrology Dialysis Transplantation, 2018, 33, i102-i103.	0.4	0
72	Hyperpolarized [1― <sup>13</sup> C] pyruvate as a possible diagnostic tool in liver disease. Physiological Reports, 2018, 6, e13943.	0.7	11

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73	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.	1.8	11
74	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.	1.7	11
75	13C Pyruvate Transport Across the Blood-Brain Barrier in Preclinical Hyperpolarised MRI. Scientific Reports, 2018, 8, 15082.	1.6	43
76	Structure tensor informed fibre tractography at 3T. Human Brain Mapping, 2018, 39, 4440-4451.	1.9	4
77	A Combination of Coffee Compounds Shows Insulin-Sensitizing and Hepatoprotective Effects in a Rat Model of Diet-Induced Metabolic Syndrome. Nutrients, 2018, 10, 6.	1.7	37
78	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.	0.8	0
79	Diabetes induced renal urea transport alterations assessed with 3D hyperpolarized <sup>13</sup> C, <sup>15</sup> N-Urea. Magnetic Resonance in Medicine, 2017, 77, 1650-1655.	1.9	25
80	Fumarase activity: an in vivo and in vitro biomarker for acute kidney injury. Scientific Reports, 2017, 7, 40812.	1.6	38
81	Antioxidant treatment attenuates lactate production in diabetic nephropathy. American Journal of Physiology - Renal Physiology, 2017, 312, F192-F199.	1.3	28
82	In situ lactate dehydrogenase activity: a novel renal cortical imaging biomarker of tubular injury?. American Journal of Physiology - Renal Physiology, 2017, 312, F465-F473.	1.3	36
83	The chinchilla as a novel animal model of pregnancy. Royal Society Open Science, 2017, 4, 161098.	1.1	19
84	Imaging oxygen metabolism with hyperpolarized magnetic resonance: a novel approach for the examination of cardiac and renal function. Bioscience Reports, 2017, 37, .	1.1	13
85	Hyperbaric oxygen therapy reduces renal lactate production. Physiological Reports, 2017, 5, e13217.	0.7	14
86	Cafestol, a Bioactive Substance in Coffee, Has Antidiabetic Properties in KKAy Mice. Journal of Natural Products, 2017, 80, 2353-2359.	1.5	29
87	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.	1.6	16
88	Hyperpolarized [1-13C]-acetate Renal Metabolic Clearance Rate Mapping. Scientific Reports, 2017, 7, 16002.	1.6	30
89	The potential of hyperpolarized <sup>13</sup> C magnetic resonance spectroscopy to monitor the effect of combretastatin based vascular disrupting agents. Acta Oncológica, 2017, 56, 1626-1633.	0.8	9
90	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.	1.9	5

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91	Renal <scp>MR</scp> angiography and perfusion in the pig using hyperpolarized water. Magnetic Resonance in Medicine, 2017, 78, 1131-1135.	1.9	18
92	Low-Noise Active Decoupling Circuit and its Application to 13C Cryogenic RF Coils at 3 T. Tomography, 2017, 3, 60-66.	0.8	14
93	Can Hyperpolarized 13C-Urea Be Used to Assess Glomerular Filtration Rate? A Retrospective Study. Tomography, 2017, 3, 146-152.	0.8	20
94	Hyperpolarized 13C Magnetic Resonance Imaging Can Detect Metabolic Changes Characteristic of Penumbra in Ischemic Stroke. Tomography, 2017, 3, 67-73.	0.8	26
95	Hyperpolarized Renal Magnetic Resonance Imaging: Potential and Pitfalls. Frontiers in Physiology, 2016, 7, 72.	1.3	29
96	Early diabetic kidney maintains the corticomedullary urea and sodium gradient. Physiological Reports, 2016, 4, e12714.	0.7	26
97	Hyperpolarized <sup>13</sup> C, <sup>15</sup> N <sub>2</sub> â€ <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.	1.9	28
98	13C dynamic nuclear polarization for measuring metabolic flux in endothelial progenitor cells. Experimental Cell Research, 2016, 349, 95-100.	1.2	2
99	Hyperpolarized 13C Magnetic Resonance Treatment Response Monitoring: A New Paradigm for Multiorgan Metabolic Assessment of Pharmacological Interventions?. Diabetes, 2016, 65, 3529-3531.	0.3	3
100	Renal ischemia and reperfusion assessment with threeâ€dimensional hyperpolarized <sup>13</sup> C, <sup>15</sup> N2â€urea. Magnetic Resonance in Medicine, 2016, 76, 1524-1530.	1.9	36
101	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. Physiological Reports, 2016, 4, e12975.	0.7	3
102	Hyperpolarized 13 C urea relaxation mechanism reveals renal changes in diabetic nephropathy. Magnetic Resonance in Medicine, 2016, 75, 515-518.	1.9	34
103	The myocardial architecture changes in persistent pulmonary hypertension of the newborn in an ovine animal model. Pediatric Research, 2016, 79, 565-574.	1.1	26
104	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.	1.6	26
105	Fast Padé Transform Accelerated CSI for Hyperpolarized MRS. Tomography, 2016, 2, 117-124.	0.8	8
106	Acute porcine renal metabolic effect of endogastric soft drink administration assessed with hyperpolarized [1â€13c]pyruvate. Magnetic Resonance in Medicine, 2015, 74, 558-563.	1.9	26
107	Investigation of metabolic changes in STZ-induced diabetic rats with hyperpolarized [1-13C]acetate. Physiological Reports, 2015, 3, e12474.	0.7	18
108	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.	2.6	64

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109	In vivo single-shot 13C spectroscopic imaging of hyperpolarized metabolites by spatiotemporal encoding. Journal of Magnetic Resonance, 2014, 240, 8-15.	1.2	38
110	A new RF tagging pulse based on the Frank poly-phase perfect sequence. Journal of Magnetic Resonance, 2014, 247, 50-53.	1.2	1
111	Storage of magnetization as singlet order by optimal control designed pulses. Magnetic Resonance in Medicine, 2014, 71, 921-926.	1.9	9
112	Insufficient insulin administration to diabetic rats increases substrate utilization and maintains lactate production in the kidney. Physiological Reports, 2014, 2, e12233.	0.7	39
113	Assessment of early diabetic renal changes with hyperpolarized [1â€ <sup>13</sup> C]pyruvate. Diabetes/Metabolism Research and Reviews, 2013, 29, 125-129.	1.7	83
114	Quadrupolar-coupling-specific binomial pulse sequences for in vivo 23Na NMR and MRI. Journal of Magnetic Resonance, 2010, 206, 139-146.	1.2	7
115	<scp>RF</scp> coil design for accurate parallel imaging on <scp> <sup>13</sup> C MRSI </scp> using <scp> <sup>23</sup> Na </scp> sensitivity profiles. Magnetic Resonance in Medicine, 0, , .	1.9	5