

Peder E Z Larson

List of Publications by Year in descending order

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161
papers

6,974
citations

71102

41
h-index

69250

77
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163
all docs

163
docs citations

163
times ranked

5131
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic Imaging of Patients with Prostate Cancer Using Hyperpolarized [¹³ C]Pyruvate. <i>Science Translational Medicine</i> , 2013, 5, 198ra108.	12.4	1,061
2	Calibrationless parallel imaging reconstruction based on structured low-rank matrix completion. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 959-970.	3.0	286
3	¹³ C-Pyruvate Imaging Reveals Alterations in Glycolysis that Precede c-Myc-Induced Tumor Formation and Regression. <i>Cell Metabolism</i> , 2011, 14, 131-142.	16.2	210
4	Hyperpolarized ¹³ C MRI: State of the Art and Future Directions. <i>Radiology</i> , 2019, 291, 273-284.	7.3	210
5	Zero-Echo-Time and Dixon Deep Pseudo-CT (ZeDD CT): Direct Generation of Pseudo-CT Images for Pelvic PET/MRI Attenuation Correction Using Deep Convolutional Neural Networks with Multiparametric MRI. <i>Journal of Nuclear Medicine</i> , 2018, 59, 852-858.	5.0	206
6	Fast dynamic 3D MR spectroscopic imaging with compressed sensing and multiband excitation pulses for hyperpolarized ¹³ C studies. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 610-619.	3.0	181
7	Hyperpolarized ¹³ C magnetic resonance metabolic imaging: application to brain tumors. <i>Neuro-Oncology</i> , 2010, 12, 133-144.	1.2	166
8	Multi-compound polarization by DNP allows simultaneous assessment of multiple enzymatic activities in vivo. <i>Journal of Magnetic Resonance</i> , 2010, 205, 141-147.	2.1	154
9	Hyperpolarized ¹³ C dehydroascorbate as an endogenous redox sensor for in vivo metabolic imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18606-18611.	7.1	143
10	Multiband excitation pulses for hyperpolarized ¹³ C dynamic chemical-shift imaging. <i>Journal of Magnetic Resonance</i> , 2008, 194, 121-127.	2.1	141
11	Development of methods and feasibility of using hyperpolarized carbon-13 imaging data for evaluating brain metabolism in patient studies. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 864-873.	3.0	134
12	3D compressed sensing for highly accelerated hyperpolarized ¹³ C MRSI with in vivo applications to transgenic mouse models of cancer. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 312-321.	3.0	126
13	Detection of Small Pulmonary Nodules with Ultrashort Echo Time Sequences in Oncology Patients by Using a PET/MR System. <i>Radiology</i> , 2016, 278, 239-246.	7.3	124
14	Non-invasive in vivo assessment of IDH1 mutational status in glioma. <i>Nature Communications</i> , 2013, 4, 2429.	12.8	118
15	Hyperpolarized [2- ¹³ C]-Fructose: A Hemiketal DNP Substrate for In Vivo Metabolic Imaging. <i>Journal of the American Chemical Society</i> , 2009, 131, 17591-17596.	13.7	106
16	Imaging of blood flow using hyperpolarized [¹³ C]Urea in preclinical cancer models. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 692-697.	3.4	105
17	Using adiabatic inversion pulses for long-T ₂ suppression in ultrashort echo time (UTE) imaging. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 952-961.	3.0	93
18	Designing long-T ₂ suppression pulses for ultrashort echo time imaging. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 94-103.	3.0	85

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19	Investigation of tumor hyperpolarized [1- ¹³ C]-pyruvate dynamics using time-resolved multiband RF excitation echo-planar MRSI. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 582-591.	3.0	85
20	Zero TE _{eff} -based pseudo- ¹⁸ F PET image conversion in the head and its application in PET/MR attenuation correction and MR-guided radiation therapy planning. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1440-1451.	3.0	80
21	Hyperpolarized [1- ¹³ C] Glutamate: A Metabolic Imaging Biomarker of IDH1 Mutational Status in Glioma. <i>Cancer Research</i> , 2014, 74, 4247-4257.	0.9	77
22	High Resolution ¹³ C MRI With Hyperpolarized Urea: In Vivo Mapping and ¹⁵ N Labeling Effects. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 362-371.	8.9	77
23	Investigation of analysis methods for hyperpolarized ¹³ C-pyruvate metabolic MRI in prostate cancer patients. <i>NMR in Biomedicine</i> , 2018, 31, e3997.	2.8	77
24	Hybrid ZTE/Dixon MR-based attenuation correction for quantitative uptake estimation of pelvic lesions in PET/MRI. <i>Medical Physics</i> , 2017, 44, 902-913.	3.0	73
25	Investigating tumor perfusion and metabolism using multiple hyperpolarized ¹³ C compounds: HP001, pyruvate and urea. <i>Magnetic Resonance Imaging</i> , 2012, 30, 305-311.	1.8	69
26	Hyperpolarized ¹³ C-pyruvate MRI detects real-time metabolic flux in prostate cancer metastases to bone and liver: a clinical feasibility study. <i>Prostate Cancer and Prostatic Diseases</i> , 2020, 23, 269-276.	3.9	68
27	Hyperpolarized ¹³ C Spectroscopic Imaging Informs on Hypoxia-Inducible Factor-1 and Myc Activity Downstream of Platelet-Derived Growth Factor Receptor. <i>Cancer Research</i> , 2010, 70, 7400-7410.	0.9	67
28	Translation of Carbon- ¹³ EPI for hyperpolarized MR molecular imaging of prostate and brain cancer patients. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2702-2709.	3.0	65
29	First hyperpolarized [2- ¹³ C]pyruvate MR studies of human brain metabolism. <i>Journal of Magnetic Resonance</i> , 2019, 309, 106617.	2.1	63
30	Assessing Prostate Cancer Aggressiveness with Hyperpolarized Dual-Agent 3D Dynamic Imaging of Metabolism and Perfusion. <i>Cancer Research</i> , 2017, 77, 3207-3216.	0.9	60
31	Noninvasive In Vivo Imaging of Diabetes-Induced Renal Oxidative Stress and Response to Therapy Using Hyperpolarized ¹³ C Dehydroascorbate Magnetic Resonance. <i>Diabetes</i> , 2015, 64, 344-352.	0.6	59
32	Ultrashort echo time and zero echo time MRI at 7T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016, 29, 359-370.	2.0	59
33	Anisotropic Field-of-Views in Radial Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 47-57.	8.9	56
34	Development of a symmetric echo planar imaging framework for clinical translation of rapid dynamic hyperpolarized ¹³ C imaging. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 826-832.	3.0	55
35	Motion robust high resolution 3D free-breathing pulmonary MRI using dynamic 3D image self-navigator. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2954-2967.	3.0	53
36	Iterative motion-compensation reconstruction ultra-short TE (iMoCo UTE) for high-resolution free-breathing pulmonary MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1208-1221.	3.0	52

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37	Multi-channel metabolic imaging, with SENSE reconstruction, of hyperpolarized [1-13C] pyruvate in a live rat at 3.0tesla on a clinical MR scanner. Journal of Magnetic Resonance, 2011, 208, 171-177.	2.1	51
38	Optimal variable flip angle schemes for dynamic acquisition of exchanging hyperpolarized substrates. Journal of Magnetic Resonance, 2013, 234, 75-81.	2.1	51
39	Technique development of 3D dynamic CS-EPSI for hyperpolarized ¹³ C pyruvate MR molecular imaging of human prostate cancer. Magnetic Resonance in Medicine, 2018, 80, 2062-2072.	3.0	47
40	Cartilage Endplate Thickness Variation Measured by Ultrashort Echo-Time MRI Is Associated With Adjacent Disc Degeneration. Spine, 2018, 43, E592-E600.	2.0	46
41	Short-echo three-dimensional H-1 MR spectroscopic imaging of patients with glioma at 7 tesla for characterization of differences in metabolite levels. Journal of Magnetic Resonance Imaging, 2015, 41, 1332-1341.	3.4	44
42	Characterization of serial hyperpolarized 13C metabolic imaging in patients with glioma. NeuroImage: Clinical, 2020, 27, 102323.	2.7	42
43	Evaluation of Sinus/Edge-Corrected Zero-Echo-Time-Based Attenuation Correction in Brain PET/MRI. Journal of Nuclear Medicine, 2017, 58, 1873-1879.	5.0	40
44	Rapid sequential injections of hyperpolarized [1-13C]pyruvate in vivo using a sub-kelvin, multi-sample DNP polarizer. Magnetic Resonance Imaging, 2013, 31, 490-496.	1.8	38
45	Density-weighted concentric rings k-space trajectory for ¹ H magnetic resonance spectroscopic imaging at 7T. NMR in Biomedicine, 2018, 31, e3838.	2.8	37
46	Application of Good's buffers to pH imaging using hyperpolarized ¹³ C MRI. Chemical Communications, 2015, 51, 14119-14122.	4.1	35
47	Detection of localized changes in the metabolism of hyperpolarized gluconeogenic precursors ¹³ C-lactate and ¹³ C-pyruvate in kidney and liver. Magnetic Resonance in Medicine, 2017, 77, 1429-1437.	3.0	35
48	In vivo measurement of normal rat intracellular pyruvate and lactate levels after injection of hyperpolarized [1-13C]alanine. Magnetic Resonance Imaging, 2011, 29, 1035-1040.	1.8	34
49	Combined parallel and partial fourier MR reconstruction for accelerated 8-channel hyperpolarized carbon-13 in vivo magnetic resonance Spectroscopic imaging (MRSI). Journal of Magnetic Resonance Imaging, 2013, 38, 701-713.	3.4	34
50	3D hyperpolarized C-13 EPI with calibrationless parallel imaging. Journal of Magnetic Resonance, 2018, 289, 92-99.	2.1	32
51	Kinetic Modeling of Hyperpolarized Carbon-13 Pyruvate Metabolism in the Human Brain. IEEE Transactions on Medical Imaging, 2020, 39, 320-327.	8.9	32
52	Diffusion MR of hyperpolarized 13C molecules in solution. Analyst, The, 2013, 138, 1011.	3.5	31
53	Frequency-specific SSFP for hyperpolarized 13C metabolic imaging at 14.1 T. Magnetic Resonance Imaging, 2013, 31, 163-170.	1.8	31
54	Dynamic hyperpolarized carbon-13 MR metabolic imaging of nonhuman primate brain. Magnetic Resonance in Medicine, 2014, 71, 19-25.	3.0	31

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55	Extreme MRI: Large-scale volumetric dynamic imaging from continuous non-gated acquisitions. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1763-1780.	3.0	31
56	Imaging Renal Urea Handling in Rats at Millimeter Resolution Using Hyperpolarized Magnetic Resonance Relaxometry. <i>Tomography</i> , 2016, 2, 125-137.	1.8	31
57	Kinetic and perfusion modeling of hyperpolarized (¹³ C) pyruvate and urea in cancer with arbitrary RF flip angles. <i>Quantitative Imaging in Medicine and Surgery</i> , 2014, 4, 24-32.	2.0	31
58	Concentric rings k-space trajectory for hyperpolarized ¹³ C MR spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 19-31.	3.0	30
59	A regional bolus tracking and real-time B ₁ calibration method for hyperpolarized ¹³ C MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 839-851.	3.0	30
60	A variable resolution approach for improved acquisition of hyperpolarized ¹³ C metabolic MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2943-2952.	3.0	30
61	Hyperpolarized ¹³ C MRI data acquisition and analysis in prostate and brain at University of California, San Francisco. <i>NMR in Biomedicine</i> , 2021, 34, e4280.	2.8	30
62	Ultrashort echo time MRI of cortical bone at 7 tesla field strength: A feasibility study. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 691-695.	3.4	29
63	In vivo characterization of brain ultrashort T ₂ components. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 726-735.	3.0	29
64	Multi-band frequency encoding method for metabolic imaging with hyperpolarized [1- ¹³ C]pyruvate. <i>Journal of Magnetic Resonance</i> , 2011, 211, 109-113.	2.1	28
65	Depiction of Achilles Tendon Microstructure In Vivo Using High-Resolution 3-Dimensional Ultrashort Echo-Time Magnetic Resonance Imaging at 7 T. <i>Investigative Radiology</i> , 2014, 49, 339-345.	6.2	28
66	Optimizing Flip Angles for Metabolic Rate Estimation in Hyperpolarized Carbon-13 MRI. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 2403-2412.	8.9	28
67	Monitoring acute metabolic changes in the liver and kidneys induced by fructose and glucose using hyperpolarized [¹³ C]dihydroxyacetone. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 65-73.	3.0	28
68	Quantitative measurement of cancer metabolism using stimulated echo hyperpolarized carbon- ¹³ MRS. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1-11.	3.0	27
69	Rapid in vivo apparent diffusion coefficient mapping of hyperpolarized ¹³ C metabolites. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 622-633.	3.0	27
70	Coil combination methods for multi-channel hyperpolarized ¹³ C imaging data from human studies. <i>Journal of Magnetic Resonance</i> , 2019, 301, 73-79.	2.1	27
71	Tensor image enhancement and optimal multichannel receiver combination analyses for human hyperpolarized ¹³ C MRSI. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 3351-3365.	3.0	27
72	Metabolic imaging with hyperpolarized ¹³ C pyruvate magnetic resonance imaging in patients with renal tumors: Initial experience. <i>Cancer</i> , 2021, 127, 2693-2704.	4.1	27

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73	Spectrally selective three-dimensional dynamic balanced steady-state free precession for hyperpolarized ^{13}C metabolic imaging with spectrally selective radiofrequency pulses. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 963-975.	3.0	26
74	A method for simultaneous echo planar imaging of hyperpolarized ^{13}C pyruvate and ^{13}C lactate. <i>Journal of Magnetic Resonance</i> , 2012, 217, 41-47.	2.1	23
75	Clinical translation of hyperpolarized ^{13}C pyruvate and urea MRI for simultaneous metabolic and perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 138-149.	3.0	23
76	Generating Super Stimulated-Echoes in MRI and Their Application to Hyperpolarized C-13 Diffusion Metabolic Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 265-275.	8.9	22
77	Quantifying temperature-dependent T_1 changes in cortical bone using ultrashort echo-time MRI. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1548-1555.	3.0	22
78	Accelerated high-bandwidth MR spectroscopic imaging using compressed sensing. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 369-379.	3.0	22
79	Non-Invasive Assessment of Lactate Production and Compartmentalization in Renal Cell Carcinomas Using Hyperpolarized ^{13}C Pyruvate MRI. <i>Cancers</i> , 2018, 10, 313.	3.7	22
80	MR-Based Attenuation Correction for Brain PET Using 3-D Cycle-Consistent Adversarial Network. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 185-192.	3.7	22
81	Non-invasive assessment of telomere maintenance mechanisms in brain tumors. <i>Nature Communications</i> , 2021, 12, 92.	12.8	21
82	Magnetic resonance imaging for lung cancer screen. <i>Journal of Thoracic Disease</i> , 2014, 6, 1340-8.	1.4	21
83	Development of high resolution 3D hyperpolarized carbon-13 MR molecular imaging techniques. <i>Magnetic Resonance Imaging</i> , 2017, 38, 152-162.	1.8	20
84	Fast Imaging for Hyperpolarized MR Metabolic Imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 686-702.	3.4	20
85	Simultaneous imaging of radiation-induced cerebral microbleeds, arteries and veins, using a multiple gradient echo sequence at 7 Tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 269-279.	3.4	19
86	Separation of extra- and intracellular metabolites using hyperpolarized ^{13}C diffusion weighted MR. <i>Journal of Magnetic Resonance</i> , 2016, 270, 115-123.	2.1	19
87	Quantitative Evaluation of Atlas-based Attenuation Correction for Brain PET in an Integrated Time-of-Flight PET/MR Imaging System. <i>Radiology</i> , 2017, 284, 169-179.	7.3	19
88	High spatiotemporal resolution bSSFP imaging of hyperpolarized ^{13}C pyruvate and ^{13}C lactate with spectral suppression of alanine and pyruvate hydrate. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1048-1060.	3.0	19
89	Whole-Abdomen Metabolic Imaging of Healthy Volunteers Using Hyperpolarized ^{13}C pyruvate MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 56, 1792-1806.	3.4	19
90	A rapid method for direct detection of metabolic conversion and magnetization exchange with application to hyperpolarized substrates. <i>Journal of Magnetic Resonance</i> , 2012, 225, 71-80.	2.1	18

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91	Simultaneous Metabolic and Perfusion Imaging Using Hyperpolarized ¹³ C MRI Can Evaluate Early and Dose-Dependent Response to Radiation Therapy in a Prostate Cancer Mouse Model. International Journal of Radiation Oncology Biology Physics, 2020, 107, 887-896.	0.8	18
92	Denosing of hyperpolarized ¹³ C MR images of the human brain using patch-based higher-order singular value decomposition. Magnetic Resonance in Medicine, 2021, 86, 2497-2511.	3.0	18
93	Handheld electromagnet carrier for transfer of hyperpolarized carbon-13 samples. Magnetic Resonance in Medicine, 2016, 75, 917-922.	3.0	17
94	Development and testing of hyperpolarized ¹³ C MR calibrationless parallel imaging. Journal of Magnetic Resonance, 2016, 262, 1-7.	2.1	17
95	Hyperpolarized 1-[¹³ C]-Pyruvate Magnetic Resonance Imaging Detects an Early Metabolic Response to Immune Checkpoint Inhibitor Therapy in Prostate Cancer. European Urology, 2022, 81, 219-221.	1.9	17
96	Metabolic imaging detects elevated glucose flux through the pentose phosphate pathway associated with TERT expression in low-grade gliomas. Neuro-Oncology, 2021, 23, 1509-1522.	1.2	15
97	Multiband spectral-spatial RF excitation for hyperpolarized [2- ¹³ C]dihydroxyacetone ¹³ C-MR metabolism studies. Magnetic Resonance in Medicine, 2017, 77, 1419-1428.	3.0	14
98	MRI gradient-echo phase contrast of the brain at ultra-short TE with off-resonance saturation. NeuroImage, 2018, 175, 1-11.	4.2	14
99	Combining hyperpolarized ¹³ C MRI with a liver-specific gadolinium contrast agent for selective assessment of hepatocyte metabolism. Magnetic Resonance in Medicine, 2017, 77, 2356-2363.	3.0	13
100	Simultaneous auto-calibration and gradient delays estimation (SAGE) in non-Cartesian parallel MRI using low-rank constraints. Magnetic Resonance in Medicine, 2018, 80, 2006-2016.	3.0	13
101	Effects of excitation angle strategy on quantitative analysis of hyperpolarized pyruvate. Magnetic Resonance in Medicine, 2019, 81, 3754-3762.	3.0	13
102	Pulse sequence considerations for quantification of pyruvate-to-lactate conversion <i>in vivo</i> in hyperpolarized ¹³ C imaging. NMR in Biomedicine, 2019, 32, e4052.	2.8	13
103	A metabolite-specific 3D stack-of-spiral bSSFP sequence for improved lactate imaging in hyperpolarized [¹³ C]pyruvate studies on a 3T clinical scanner. Magnetic Resonance in Medicine, 2020, 84, 1113-1125.	3.0	13
104	Measuring Tumor Metabolism in Pediatric Diffuse Intrinsic Pontine Glioma Using Hyperpolarized Carbon-13 MR Metabolic Imaging. Contrast Media and Molecular Imaging, 2018, 2018, 1-6.	0.8	12
105	Longitudinal evaluation of demyelinated lesions in a multiple sclerosis model using ultrashort echo time magnetization transfer (UTE-MT) imaging. NeuroImage, 2020, 208, 116415.	4.2	12
106	In vivo detection of ¹³ glutamyl-transferase up-regulation in glioma using hyperpolarized ¹³ glutamyl-[1- ¹³ C]glycine. Scientific Reports, 2020, 10, 6244.	3.3	12
107	Chemical shift separation with controlled aliasing for hyperpolarized ¹³ C metabolic imaging. Magnetic Resonance in Medicine, 2015, 74, 978-989.	3.0	11
108	¹ H- ¹³ C independently tuned radiofrequency surface coil applied for in vivo hyperpolarized MRI. Magnetic Resonance in Medicine, 2016, 76, 1612-1620.	3.0	11

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109	Misestimation and bias of hyperpolarized apparent diffusion coefficient measurements due to slice profile effects. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1087-1092.	3.0	11
110	High-resolution echo-planar spectroscopic imaging at ultra-high field. <i>NMR in Biomedicine</i> , 2018, 31, e3950.	2.8	11
111	Fast variable density Poisson-disc sample generation with directional variation for compressed sensing in MRI. <i>Magnetic Resonance Imaging</i> , 2021, 77, 186-193.	1.8	11
112	Development of specialized magnetic resonance acquisition techniques for human hyperpolarized [¹³ C], [¹⁵ N] ₂ urea + [¹³ C] pyruvate simultaneous perfusion and metabolic imaging. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 1039-1054.	3.0	11
113	Multiband RF pulses with improved performance via convex optimization. <i>Journal of Magnetic Resonance</i> , 2016, 262, 81-90.	2.1	10
114	A comparison of coil combination strategies in 3D multi-channel MRSI reconstruction for patients with brain tumors. <i>NMR in Biomedicine</i> , 2018, 31, e3929.	2.8	10
115	Slice profile effects on quantitative analysis of hyperpolarized pyruvate. <i>NMR in Biomedicine</i> , 2020, 33, e4373.	2.8	10
116	Hyperpolarized Metabolic MRI Acquisition, Reconstruction, and Analysis Methods. <i>Metabolites</i> , 2021, 11, 386.	2.9	10
117	Perfusion and diffusion sensitive ¹³ C stimulated-echo MRSI for metabolic imaging of cancer. <i>Magnetic Resonance Imaging</i> , 2013, 31, 635-642.	1.8	9
118	Dynamic UltraFast 2D EXchange Spectroscopy (UF-EXSY) of hyperpolarized substrates. <i>Journal of Magnetic Resonance</i> , 2015, 257, 102-109.	2.1	9
119	Imaging 6-Phosphogluconolactonase Activity in Brain Tumors In Vivo Using Hyperpolarized [¹³ C]gluconolactone. <i>Frontiers in Oncology</i> , 2021, 11, 589570.	2.8	9
120	A 2DRF pulse sequence for bolus tracking in hyperpolarized ¹³ C imaging. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 506-512.	3.0	8
121	Optimal experiment design for physiological parameter estimation using hyperpolarized carbon-13 magnetic resonance imaging. , 2015, , .		8
122	Using a local low rank plus sparse reconstruction to accelerate dynamic hyperpolarized ¹³ C imaging using the bSSFP sequence. <i>Journal of Magnetic Resonance</i> , 2018, 290, 46-59.	2.1	8
123	Spatio-Temporally Constrained Reconstruction for Hyperpolarized Carbon-13 MRI Using Kinetic Models. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 2603-2612.	8.9	8
124	Using bidirectional chemical exchange for improved hyperpolarized [¹³ C]bicarbonate pH imaging. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 959-972.	3.0	8
125	3D Magnetic Resonance Spirometry. <i>Scientific Reports</i> , 2020, 10, 9649.	3.3	8
126	Bone material analogues for PET/MRI phantoms. <i>Medical Physics</i> , 2020, 47, 2161-2170.	3.0	8

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127	Initial Experience on Hyperpolarized [1-13C]Pyruvate MRI Multicenter Reproducibility—Are Multicenter Trials Feasible?. <i>Tomography</i> , 2022, 8, 585-595.	1.8	8
128	Anisotropic field-of-view shapes for improved PROPELLER imaging. <i>Magnetic Resonance Imaging</i> , 2009, 27, 470-479.	1.8	7
129	In vivo hyperpolarization transfer in a clinical MRI scanner. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 480-487.	3.0	7
130	Synthetic CT Generation Using MRI with Deep Learning: How Does the Selection of Input Images Affect the Resulting Synthetic CT?. , 2018, , .		6
131	Specialized computational methods for denoising, B1 correction, and kinetic modeling in hyperpolarized 13 C MR EPSI studies of liver tumors. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2402-2411.	3.0	6
132	Imaging of the rabbit supraspinatus enthesis at 7 Tesla: a 4-week time course after repair surgery and effect of channeling. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 461-467.	3.4	5
133	Reliable and Reproducible GABA Measurements Using Automated Spectral Prescription at Ultra-High Field. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 506.	2.0	5
134	Developing an efficient phase-matched attenuation correction method for quiescent period PET in abdominal PET/MRI. <i>Physics in Medicine and Biology</i> , 2018, 63, 185002.	3.0	5
135	Simultaneous T1 and T2 mapping of hyperpolarized 13C compounds using the bSSFP sequence. <i>Journal of Magnetic Resonance</i> , 2020, 312, 106691.	2.1	5
136	Modeling hyperpolarized lactate signal dynamics in cells, patient-derived tissue slice cultures and murine models. <i>NMR in Biomedicine</i> , 2021, 34, e4467.	2.8	5
137	Kinetic analysis of multi-resolution hyperpolarized ¹³ C human brain MRI to study cerebral metabolism. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 2190-2197.	3.0	5
138	Science to Practice: Can Inflammatory Arthritis Be Monitored by Using MR Imaging with Injected Hyperpolarized ¹³ C-Pyruvate?. <i>Radiology</i> , 2011, 259, 309-310.	7.3	4
139	Diffusion-weighted imaging of hyperpolarized [¹³ C]urea in mouse liver. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 141-151.	3.4	4
140	Dynamic diffusion-weighted hyperpolarized 13 C imaging based on a slice-selective double spin echo sequence for measurements of cellular transport. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2001-2010.	3.0	4
141	Attenuation Coefficient Estimation for PET/MRI With Bayesian Deep Learning Pseudo-CT and Maximum-Likelihood Estimation of Activity and Attenuation. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022, 6, 678-689.	3.7	4
142	Signal scaling improves the signal-to-noise ratio of measurements with segmented 2D-selective radiofrequency excitations. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1491-1499.	3.0	3
143	High spatiotemporal resolution hyperpolarized 13C angiography. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, Q30.	3.3	3
144	Shuffled magnetization-prepared multicontrast rapid gradient-echo imaging. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 62-70.	3.0	3

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145	55 Mn-based fiducial markers for rapid and automated RF coil localization for hyperpolarized ¹³ C MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 518-530.	3.0	3
146	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
147	Utilizing the wavelet transform's structure in compressed sensing. <i>Signal, Image and Video Processing</i> , 2021, 15, 1407-1414.	2.7	3
148	Evaluation of attenuation correction in PET/MRI with synthetic lesion insertion. <i>Journal of Medical Imaging</i> , 2021, 8, 056001.	1.5	3
149	⁶⁸ Ga-PSMA-11 PET/MRI: determining ideal acquisition times to reduce noise and increase image quality. <i>EJNMMI Physics</i> , 2020, 7, 54.	2.7	3
150	Improved accuracy of relative electron density and proton stopping power ratio through CycleGAN machine learning. <i>Physics in Medicine and Biology</i> , 2022, 67, 105001.	3.0	3
151	Assessing temperature changes in cortical bone using variable flip-angle ultrashort echo-time MRI. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	2
152	Quantification of ⁸⁹ Zr-iron oxide nanoparticle biodistribution using PET-MR and ultrashort TE sequences. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1717-1720.	3.4	2
153	Technical Note: Simultaneous segmentation and relaxometry for MRI through multitask learning. <i>Medical Physics</i> , 2019, 46, 4610-4621.	3.0	2
154	Harmonization of PET image reconstruction parameters in simultaneous PET/MRI. <i>EJNMMI Physics</i> , 2021, 8, 75.	2.7	2
155	Quantitative analysis of repaired rabbit supraspinatus tendons (± channeling) using magnetic resonance imaging at 7 Tesla. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 3460-3471.	2.0	1
156	Acquisition and quantification pipeline for in vivo hyperpolarized ¹³ C MR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1673-1687.	3.0	1
157	MR Pulse Sequences for PET/MRI. , 2018, , 27-39.		0
158	CBMT-08. IN VIVO EVALUATION OF PENTOSE PHOSPHATE PATHWAY ACTIVITY IN ORTHOTOPIC GLIOMA USING HYPERPOLARIZED ¹³ C-GLUCONOLACTONE. <i>Neuro-Oncology</i> , 2019, 21, vi34-vi34.	1.2	0
159	Optimizing trajectory ordering for fast radial ultra-short TE (UTE) acquisitions. <i>Journal of Magnetic Resonance</i> , 2021, 327, 106977.	2.1	0
160	Analysis and visualization of hyperpolarized ¹³ C MR data. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2021, , 129-155.	0.1	0
161	US lesion visibility predicts clinically significant upgrade of prostate cancer by systematic biopsy. <i>Abdominal Radiology</i> , 2022, 47, 1133.	2.1	0