

Peder E Z Larson

List of Publications by Year in descending order

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161
papers

6,974
citations

81434

41
h-index

78623

77
g-index

163
all docs

163
docs citations

163
times ranked

5732
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.9	23
2	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.	2.7	4
3	Hyperpolarized 1-[13C]-Pyruvate Magnetic Resonance Imaging Detects an Early Metabolic Response to Immune Checkpoint Inhibitor Therapy in Prostate Cancer. <i>European Urology</i> , 2022, 81, 219-221.	0.9	17
4	Acquisition and quantification pipeline for in vivo hyperpolarized ¹³ C MR spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1673-1687.	1.9	1
5	US lesion visibility predicts clinically significant upgrade of prostate cancer by systematic biopsy. <i>Abdominal Radiology</i> , 2022, 47, 1133.	1.0	0
6	Initial Experience on Hyperpolarized [1-13C]Pyruvate MRI Multicenter Reproducibility—Are Multicenter Trials Feasible?. <i>Tomography</i> , 2022, 8, 585-595.	0.8	8
7	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.	1.6	3
8	Whole-Abdomen Metabolic Imaging of Healthy Volunteers Using Hyperpolarized [¹³ C]pyruvate MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 56, 1792-1806.	1.9	19
9	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.	1.9	11
10	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.	1.9	5
11	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.	1.6	30
12	Fast Imaging for Hyperpolarized MR Metabolic Imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 686-702.	1.9	20
13	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.	1.9	3
14	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.	2.7	22
15	Fast variable density Poisson-disc sample generation with directional variation for compressed sensing in MRI. <i>Magnetic Resonance Imaging</i> , 2021, 77, 186-193.	1.0	11
16	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
17	Modeling hyperpolarized lactate signal dynamics in cells, patient-derived tissue slice cultures and murine models. <i>NMR in Biomedicine</i> , 2021, 34, e4467.	1.6	5
18	Utilizing the wavelet transform's structure in compressed sensing. <i>Signal, Image and Video Processing</i> , 2021, 15, 1407-1414.	1.7	3

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19	Metabolic imaging with hyperpolarized ¹³ C pyruvate magnetic resonance imaging in patients with renal tumors—Initial experience. <i>Cancer</i> , 2021, 127, 2693-2704.	2.0	27
20	Metabolic imaging detects elevated glucose flux through the pentose phosphate pathway associated with TERT expression in low-grade gliomas. <i>Neuro-Oncology</i> , 2021, 23, 1509-1522.	0.6	15
21	Imaging 6-Phosphogluconolactonase Activity in Brain Tumors In Vivo Using Hyperpolarized ¹³ C-gluconolactone. <i>Frontiers in Oncology</i> , 2021, 11, 589570.	1.3	9
22	Hyperpolarized Metabolic MRI—Acquisition, Reconstruction, and Analysis Methods. <i>Metabolites</i> , 2021, 11, 386.	1.3	10
23	Denosing of hyperpolarized ¹³ C MR images of the human brain using patch-based higher-order singular value decomposition. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2497-2511.	1.9	18
24	Optimizing trajectory ordering for fast radial ultra-short TE (UTE) acquisitions. <i>Journal of Magnetic Resonance</i> , 2021, 327, 106977.	1.2	0
25	Specialized computational methods for denoising, B1 correction, and kinetic modeling in hyperpolarized ¹³ C MR EPI studies of liver tumors. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2402-2411.	1.9	6
26	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.	1.1	1
27	Evaluation of attenuation correction in PET/MRI with synthetic lesion insertion. <i>Journal of Medical Imaging</i> , 2021, 8, 056001.	0.8	3
28	Non-invasive assessment of telomere maintenance mechanisms in brain tumors. <i>Nature Communications</i> , 2021, 12, 92.	5.8	21
29	Harmonization of PET image reconstruction parameters in simultaneous PET/MRI. <i>EJNMMI Physics</i> , 2021, 8, 75.	1.3	2
30	Analysis and visualization of hyperpolarized ¹³ C MR data. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2021, , 129-155.	0.0	0
31	Kinetic Modeling of Hyperpolarized Carbon-13 Pyruvate Metabolism in the Human Brain. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 320-327.	5.4	32
32	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.	2.0	68
33	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.	1.9	52
34	Longitudinal evaluation of demyelinated lesions in a multiple sclerosis model using ultrashort echo time magnetization transfer (UTE-MT) imaging. <i>NeuroImage</i> , 2020, 208, 116415.	2.1	12
35	Simultaneous T1 and T2 mapping of hyperpolarized ¹³ C compounds using the bSSFP sequence. <i>Journal of Magnetic Resonance</i> , 2020, 312, 106691.	1.2	5
36	A variable resolution approach for improved acquisition of hyperpolarized ¹³ C metabolic MRI. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2943-2952.	1.9	30

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37	Slice profile effects on quantitative analysis of hyperpolarized pyruvate. <i>NMR in Biomedicine</i> , 2020, 33, e4373.	1.6	10
38	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. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 107, 887-896.	0.4	18
39	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.	1.9	27
40	3D Magnetic Resonance Spirometry. <i>Scientific Reports</i> , 2020, 10, 9649.	1.6	8
41	Characterization of serial hyperpolarized ¹³ C metabolic imaging in patients with glioma. <i>NeuroImage: Clinical</i> , 2020, 27, 102323.	1.4	42
42	A metabolite-specific 3D stack-of-spiral bSSFP sequence for improved lactate imaging in hyperpolarized [¹³ C]pyruvate studies on a 3T clinical scanner. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1113-1125.	1.9	13
43	Bone material analogues for PET/MRI phantoms. <i>Medical Physics</i> , 2020, 47, 2161-2170.	1.6	8
44	Extreme MRI: Large-scale volumetric dynamic imaging from continuous non-gated acquisitions. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1763-1780.	1.9	31
45	In vivo detection of ¹³ -glutamyl-transferase up-regulation in glioma using hyperpolarized ¹³ -glutamyl-[1- ¹³ C]glycine. <i>Scientific Reports</i> , 2020, 10, 6244.	1.6	12
46	⁶⁸ Ga-PSMA-11 PET/MRI: determining ideal acquisition times to reduce noise and increase image quality. <i>EJNMMI Physics</i> , 2020, 7, 54.	1.3	3
47	First hyperpolarized [2- ¹³ C]pyruvate MR studies of human brain metabolism. <i>Journal of Magnetic Resonance</i> , 2019, 309, 106617.	1.2	63
48	Technical Note: Simultaneous segmentation and relaxometry for MRI through multitask learning. <i>Medical Physics</i> , 2019, 46, 4610-4621.	1.6	2
49	Coil combination methods for multi-channel hyperpolarized ¹³ C imaging data from human studies. <i>Journal of Magnetic Resonance</i> , 2019, 301, 73-79.	1.2	27
50	Using bidirectional chemical exchange for improved hyperpolarized [¹³ C]bicarbonate pH imaging. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 959-972.	1.9	8
51	Hyperpolarized ¹³ C MRI: State of the Art and Future Directions. <i>Radiology</i> , 2019, 291, 273-284.	3.6	210
52	Effects of excitation angle strategy on quantitative analysis of hyperpolarized pyruvate. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3754-3762.	1.9	13
53	Pulse sequence considerations for quantification of pyruvate-to-lactate conversion in hyperpolarized ¹³ C imaging. <i>NMR in Biomedicine</i> , 2019, 32, e4052.	1.6	13
54	CBMT-08. IN VIVO EVALUATION OF PENTOSE PHOSPHATE PATHWAY ACTIVITY IN ORTHOTOPIC GLIOMA USING HYPERPOLARIZED ¹³ -[1- ¹³ C]GLUCONOLACTONE. <i>Neuro-Oncology</i> , 2019, 21, vi34-vi34.	0.6	0

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55	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.	1.9	30
56	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.	1.9	4
57	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.	1.9	65
58	3D hyperpolarized C-13 EPI with calibrationless parallel imaging. <i>Journal of Magnetic Resonance</i> , 2018, 289, 92-99.	1.2	32
59	Zero TE-based pseudo-CT 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.	1.9	80
60	In vivo hyperpolarization transfer in a clinical MRI scanner. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 480-487.	1.9	7
61	Technique development of 3D dynamic CS-EPSI for hyperpolarized ^{13}C pyruvate MR molecular imaging of human prostate cancer. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2062-2072.	1.9	47
62	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.	1.9	134
63	MR Pulse Sequences for PET/MRI. , 2018, , 27-39.		0
64	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.	1.9	19
65	Simultaneous auto-calibration and gradient delays estimation (SAGE) in non-Cartesian parallel MRI using low-rank constraints. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2006-2016.	1.9	13
66	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.	1.2	8
67	MRI gradient-echo phase contrast of the brain at ultra-short TE with off-resonance saturation. <i>NeuroImage</i> , 2018, 175, 1-11.	2.1	14
68	Diffusion-weighted imaging of hyperpolarized [^{13}C]urea in mouse liver. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 141-151.	1.9	4
69	Density-weighted concentric rings k -space trajectory for ^1H magnetic resonance spectroscopic imaging at 7T. <i>NMR in Biomedicine</i> , 2018, 31, e3838.	1.6	37
70	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.	2.8	206
71	Shuffled magnetization-prepared multicontrast rapid gradient-echo imaging. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 62-70.	1.9	3
72	Cartilage Endplate Thickness Variation Measured by Ultrashort Echo-Time MRI Is Associated With Adjacent Disc Degeneration. <i>Spine</i> , 2018, 43, E592-E600.	1.0	46

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73	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.	1.9	53
74	In vivo characterization of brain ultrashort T ₂ components. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 726-735.	1.9	29
75	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.	1.6	10
76	Spatio-Temporally Constrained Reconstruction for Hyperpolarized Carbon-13 MRI Using Kinetic Models. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 2603-2612.	5.4	8
77	Synthetic CT Generation Using MRI with Deep Learning: How Does the Selection of Input Images Affect the Resulting Synthetic CT?. , 2018, , .		6
78	Investigation of analysis methods for hyperpolarized ¹³ C-pyruvate metabolic MRI in prostate cancer patients. <i>NMR in Biomedicine</i> , 2018, 31, e3997.	1.6	77
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.	1.7	22
80	Measuring Tumor Metabolism in Pediatric Diffuse Intrinsic Pontine Glioma Using Hyperpolarized Carbon-13 MR Metabolic Imaging. <i>Contrast Media and Molecular Imaging</i> , 2018, 2018, 1-6.	0.4	12
81	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.	1.9	2
82	High-resolution echo-planar spectroscopic imaging at ultra-high field. <i>NMR in Biomedicine</i> , 2018, 31, e3950.	1.6	11
83	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.	1.6	5
84	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.	1.9	55
85	Multiband spectral-spatial RF excitation for hyperpolarized [¹³ C]dihydroxyacetone ¹³ C-MR metabolism studies. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1419-1428.	1.9	14
86	Combining hyperpolarized ¹³ C MRI with a liver-specific gadolinium contrast agent for selective assessment of hepatocyte metabolism. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2356-2363.	1.9	13
87	Detection of localized changes in the metabolism of hyperpolarized gluconeogenic precursors ¹³ C-lactate and ¹³ C-pyruvate in kidney and liver. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1429-1437.	1.9	35
88	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.	1.6	73
89	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.	1.9	5
90	Development of high resolution 3D hyperpolarized carbon-13 MR molecular imaging techniques. <i>Magnetic Resonance Imaging</i> , 2017, 38, 152-162.	1.0	20

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91	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.	3.6	19
92	Assessing Prostate Cancer Aggressiveness with Hyperpolarized Dual-Agent 3D Dynamic Imaging of Metabolism and Perfusion. <i>Cancer Research</i> , 2017, 77, 3207-3216.	0.4	60
93	Evaluation of Sinus/Edge-Corrected Zero-Echo-Time-Based Attenuation Correction in Brain PET/MRI. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1873-1879.	2.8	40
94	Assessing temperature changes in cortical bone using variable flip-angle ultrashort echo-time MRI. <i>AIP Conference Proceedings</i> , 2017, . .	0.3	2
95	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.	1.9	26
96	Misestimation and bias of hyperpolarized apparent diffusion coefficient measurements due to slice profile effects. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1087-1092.	1.9	11
97	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.	1.9	28
98	Reliable and Reproducible GABA Measurements Using Automated Spectral Prescription at Ultra-High Field. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 506.	1.0	5
99	Handheld electromagnet carrier for transfer of hyperpolarized carbon-13 samples. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 917-922.	1.9	17
100	¹ H- ¹³ C independently tuned radiofrequency surface coil applied for in vivo hyperpolarized MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1612-1620.	1.9	11
101	Development and testing of hyperpolarized ¹³ C MR calibrationless parallel imaging. <i>Journal of Magnetic Resonance</i> , 2016, 262, 1-7.	1.2	17
102	Ultrashort echo time and zero echo time MRI at 7T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016, 29, 359-370.	1.1	59
103	Separation of extra- and intracellular metabolites using hyperpolarized ¹³ C diffusion weighted MR. <i>Journal of Magnetic Resonance</i> , 2016, 270, 115-123.	1.2	19
104	Concentric rings K-space trajectory for hyperpolarized ¹³ C MR spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 19-31.	1.9	30
105	High spatiotemporal resolution hyperpolarized ¹³ C angiography. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, Q30.	1.6	3
106	Accelerated high-bandwidth MR spectroscopic imaging using compressed sensing. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 369-379.	1.9	22
107	Optimizing Flip Angles for Metabolic Rate Estimation in Hyperpolarized Carbon-13 MRI. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 2403-2412.	5.4	28
108	Multiband RF pulses with improved performance via convex optimization. <i>Journal of Magnetic Resonance</i> , 2016, 262, 81-90.	1.2	10

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109	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.	3.6	124
110	Imaging Renal Urea Handling in Rats at Millimeter Resolution Using Hyperpolarized Magnetic Resonance Relaxometry. <i>Tomography</i> , 2016, 2, 125-137.	0.8	31
111	A 2DRF pulse sequence for bolus tracking in hyperpolarized ¹³ C imaging. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 506-512.	1.9	8
112	Chemical shift separation with controlled aliasing for hyperpolarized ¹³ C metabolic imaging. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 978-989.	1.9	11
113	Quantifying temperature-dependent T ₁ changes in cortical bone using ultrashort echo-time MRI. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1548-1555.	1.9	22
114	Optimal experiment design for physiological parameter estimation using hyperpolarized carbon-13 magnetic resonance imaging. , 2015, , .		8
115	Short-echo three-dimensional H-1 MR spectroscopic imaging of patients with glioma at 7 tesla for characterization of differences in metabolite levels. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 1332-1341.	1.9	44
116	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.	1.9	19
117	Rapid in vivo apparent diffusion coefficient mapping of hyperpolarized ¹³ C metabolites. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 622-633.	1.9	27
118	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.	0.3	59
119	Dynamic UltraFast 2D EXchange Spectroscopy (UF-EXSY) of hyperpolarized substrates. <i>Journal of Magnetic Resonance</i> , 2015, 257, 102-109.	1.2	9
120	Application of Good's buffers to pH imaging using hyperpolarized ¹³ C MRI. <i>Chemical Communications</i> , 2015, 51, 14119-14122.	2.2	35
121	Hyperpolarized [1- ¹³ C] Glutamate: A Metabolic Imaging Biomarker of IDH1 Mutational Status in Glioma. <i>Cancer Research</i> , 2014, 74, 4247-4257.	0.4	77
122	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.	5.4	77
123	Calibrationless parallel imaging reconstruction based on structured low-rank matrix completion. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 959-970.	1.9	286
124	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.	3.5	28
125	Quantitative measurement of cancer metabolism using stimulated echo hyperpolarized carbon- ¹³ MRS. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 1-11.	1.9	27
126	Dynamic hyperpolarized carbon- ¹³ MR metabolic imaging of nonhuman primate brain. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 19-25.	1.9	31

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127	Magnetic resonance imaging for lung cancer screen. <i>Journal of Thoracic Disease</i> , 2014, 6, 1340-8.	0.6	21
128	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.	1.1	31
129	Rapid sequential injections of hyperpolarized [1-13C]pyruvate in vivo using a sub-kelvin, multi-sample DNP polarizer. <i>Magnetic Resonance Imaging</i> , 2013, 31, 490-496.	1.0	38
130	Non-invasive in vivo assessment of IDH1 mutational status in glioma. <i>Nature Communications</i> , 2013, 4, 2429.	5.8	118
131	Diffusion MR of hyperpolarized 13C molecules in solution. <i>Analyst, The</i> , 2013, 138, 1011.	1.7	31
132	Optimal variable flip angle schemes for dynamic acquisition of exchanging hyperpolarized substrates. <i>Journal of Magnetic Resonance</i> , 2013, 234, 75-81.	1.2	51
133	Perfusion and diffusion sensitive 13C stimulated-echo MRSI for metabolic imaging of cancer. <i>Magnetic Resonance Imaging</i> , 2013, 31, 635-642.	1.0	9
134	Frequency-specific SSFP for hyperpolarized 13C metabolic imaging at 14.1 T. <i>Magnetic Resonance Imaging</i> , 2013, 31, 163-170.	1.0	31
135	Metabolic Imaging of Patients with Prostate Cancer Using Hyperpolarized [1- ¹³ C]Pyruvate. <i>Science Translational Medicine</i> , 2013, 5, 198ra108.	5.8	1,061
136	Combined parallel and partial fourier MR reconstruction for accelerated 8-channel hyperpolarized carbon-13 in vivo magnetic resonance Spectroscopic imaging (MRSI). <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 701-713.	1.9	34
137	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.	1.9	3
138	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.	1.2	18
139	A method for simultaneous echo planar imaging of hyperpolarized 13C pyruvate and 13C lactate. <i>Journal of Magnetic Resonance</i> , 2012, 217, 41-47.	1.2	23
140	Investigating tumor perfusion and metabolism using multiple hyperpolarized 13C compounds: HP001, pyruvate and urea. <i>Magnetic Resonance Imaging</i> , 2012, 30, 305-311.	1.0	69
141	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.	5.4	22
142	13C-Pyruvate Imaging Reveals Alterations in Glycolysis that Precede c-Myc-Induced Tumor Formation and Regression. <i>Cell Metabolism</i> , 2011, 14, 131-142.	7.2	210
143	In vivo measurement of normal rat intracellular pyruvate and lactate levels after injection of hyperpolarized [1-13C]alanine. <i>Magnetic Resonance Imaging</i> , 2011, 29, 1035-1040.	1.0	34
144	Multi-band frequency encoding method for metabolic imaging with hyperpolarized [1-13C]pyruvate. <i>Journal of Magnetic Resonance</i> , 2011, 211, 109-113.	1.2	28

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145	Imaging of blood flow using hyperpolarized [¹³ C]Urea in preclinical cancer models. Journal of Magnetic Resonance Imaging, 2011, 33, 692-697.	1.9	105
146	Ultrashort echo time MRI of cortical bone at 7 tesla field strength: A feasibility study. Journal of Magnetic Resonance Imaging, 2011, 34, 691-695.	1.9	29
147	Fast dynamic 3D MR spectroscopic imaging with compressed sensing and multiband excitation pulses for hyperpolarized ¹³ C studies. Magnetic Resonance in Medicine, 2011, 65, 610-619.	1.9	181
148	Multi-channel metabolic imaging, with SENSE reconstruction, of hyperpolarized [1- ¹³ C] pyruvate in a live rat at 3.0tesla on a clinical MR scanner. Journal of Magnetic Resonance, 2011, 208, 171-177.	1.2	51
149	Science to Practice: Can Inflammatory Arthritis Be Monitored by Using MR Imaging with Injected Hyperpolarized ¹³ C-Pyruvate?. Radiology, 2011, 259, 309-310.	3.6	4
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