Jeremy W Gordon

List of Publications by Year
in descending order

		236612	301761
67 papers	1,822 citations	25 h-index	39 g-index
68 all docs	68 docs citations	68 times ranked	1327 citing authors

#	Article	IF	Citations
1	Hyperpolarized ¹³C MRI: State of the Art and Future Directions. Radiology, 2019, 291, 273-284.	3.6	210
2	Development of methods and feasibility of using hyperpolarized carbon€13 imaging data for evaluating brain metabolism in patient studies. Magnetic Resonance in Medicine, 2018, 80, 864-873.	1.9	134
3	Investigation of analysis methods for hyperpolarized 13C€pyruvate metabolic MRI in prostate cancer patients. NMR in Biomedicine, 2018, 31, e3997.	1.6	77
4	Hyperpolarized 13C-pyruvate MRI detects real-time metabolic flux in prostate cancer metastases to bone and liver: a clinical feasibility study. Prostate Cancer and Prostatic Diseases, 2020, 23, 269-276.	2.0	68
5	Translation of Carbon€13 EPI for hyperpolarized MR molecular imaging of prostate and brain cancer patients. Magnetic Resonance in Medicine, 2019, 81, 2702-2709.	1.9	65
6	First hyperpolarized [2-13C]pyruvate MR studies of human brain metabolism. Journal of Magnetic Resonance, 2019, 309, 106617.	1.2	63
7	Assessing Prostate Cancer Aggressiveness with Hyperpolarized Dual-Agent 3D Dynamic Imaging of Metabolism and Perfusion. Cancer Research, 2017, 77, 3207-3216.	0.4	60
8	Development of a symmetric echo planar imaging framework for clinical translation of rapid dynamic hyperpolarized ¹³C imaging. Magnetic Resonance in Medicine, 2017, 77, 826-832.	1.9	55
9	Instrumentation for Hydrogenative Parahydrogen-Based Hyperpolarization Techniques. Analytical Chemistry, 2022, 94, 479-502.	3.2	52
10	¹⁹F-MRI for monitoring human NK cells *in vivo*. OncoImmunology, 2016, 5, e1143996.	2.1	48
11	Technique development of 3D dynamic CS€EPSI for hyperpolarized ¹³C pyruvate MR molecular imaging of human prostate cancer. Magnetic Resonance in Medicine, 2018, 80, 2062-2072.	1.9	47
12	Characterization of serial hyperpolarized 13C metabolic imaging in patients with glioma. NeuroImage: Clinical, 2020, 27, 102323.	1.4	42
13	Application of Good's buffers to pH imaging using hyperpolarized ¹³C MRI. Chemical Communications, 2015, 51, 14119-14122.	2.2	35
14	3D hyperpolarized C-13 EPI with calibrationless parallel imaging. Journal of Magnetic Resonance, 2018, 289, 92-99.	1.2	32
15	Kinetic Modeling of Hyperpolarized Carbon-13 Pyruvate Metabolism in the Human Brain. IEEE Transactions on Medical Imaging, 2020, 39, 320-327.	5.4	32
16	Effect of lanthanide ions on dynamic nuclear polarization enhancement and liquid€state T_1 relaxation. Magnetic Resonance in Medicine, 2012, 68, 1949-1954.	1.9	31
17	A regional bolus tracking and real€time B_1 calibration method for hyperpolarized ¹³C MRI. Magnetic Resonance in Medicine, 2019, 81, 839-851.	1.9	30
18	A variable resolution approach for improved acquisition of hyperpolarized ¹³C metabolic MRI. Magnetic Resonance in Medicine, 2020, 84, 2943-2952.	1.9	30

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19	Hyperpolarized ^{13}C MRI data acquisition and analysis in prostate and brain at University of California, San Francisco. NMR in Biomedicine, 2021, 34, e4280.	1.6	30
20	In Vivo Imaging and Spectroscopy of Dynamic Metabolism Using Simultaneous ^{13}C and ^{1}H MRI. IEEE Transactions on Biomedical Engineering, 2012, 59, 45-49.	2.5	28
21	Optimizing Flip Angles for Metabolic Rate Estimation in Hyperpolarized Carbon-13 MRI. IEEE Transactions on Medical Imaging, 2016, 35, 2403-2412.	5.4	28
22	Comparison between 8‑and 32‑channel phased‑array receive coils for in vivo hyperpolarized ^{13}C imaging of the human brain. Magnetic Resonance in Medicine, 2019, 82, 833-841.	1.9	28
23	Hyperpolarized ^{13}C magnetic resonance evaluation of renal ischemia reperfusion injury in a murine model. NMR in Biomedicine, 2017, 30, e3765.	1.6	27
24	Coil combination methods for multi-channel hyperpolarized 13C imaging data from human studies. Journal of Magnetic Resonance, 2019, 301, 73-79.	1.2	27
25	Tensor image enhancement and optimal multichannel receiver combination analyses for human hyperpolarized ^{13}C MRSI. Magnetic Resonance in Medicine, 2020, 84, 3351-3365.	1.9	27
26	Metabolic imaging with hyperpolarized ^{13}C pyruvate magnetic resonance imaging in patients with renal tumors—Initial experience. Cancer, 2021, 127, 2693-2704.	2.0	27
27	Joint spatial‑spectral reconstruction and k‑t spirals for accelerated 2D spatial/1D spectral imaging of ^{13}C dynamics. Magnetic Resonance in Medicine, 2014, 71, 1435-1445.	1.9	26
28	Detection of inflammatory cell function using 13C magnetic resonance spectroscopy of hyperpolarized [6-13C]-arginine. Scientific Reports, 2016, 6, 31397.	1.6	24
29	Clinical translation of hyperpolarized ^{13}C pyruvate and urea MRI for simultaneous metabolic and perfusion imaging. Magnetic Resonance in Medicine, 2022, 87, 138-149.	1.9	23
30	Non-Invasive Assessment of Lactate Production and Compartmentalization in Renal Cell Carcinomas Using Hyperpolarized 13C Pyruvate MRI. Cancers, 2018, 10, 313.	1.7	22
31	Application of flow sensitive gradients for improved measures of metabolism using hyperpolarized ^{13}c MRI. Magnetic Resonance in Medicine, 2016, 75, 1242-1248.	1.9	20
32	Fast Imaging for Hyperpolarized MR Metabolic Imaging. Journal of Magnetic Resonance Imaging, 2021, 53, 686-702.	1.9	20
33	High spatiotemporal resolution bSSFP imaging of hyperpolarized [1‑^{13}C]pyruvate and [1‑^{13}C]lactate with spectral suppression of alanine and pyruvate‑hydrate. Magnetic Resonance in Medicine, 2018, 80, 1048-1060.	1.9	19
34	Whole‑Abdomen Metabolic Imaging of Healthy Volunteers Using Hyperpolarized [1‑^{13}C]pyruvate MRI. Journal of Magnetic Resonance Imaging, 2022, 56, 1792-1806.	1.9	19
35	Denoising 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.	1.9	18
36	Pilot Study of Hyperpolarized ^{13}C Metabolic Imaging in Pediatric Patients with Diffuse Intrinsic Pontine Glioma and Other CNS Cancers. American Journal of Neuroradiology, 2021, 42, 178-184.	1.2	18

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37	Development and testing of hyperpolarized 13C MR calibrationless parallel imaging. Journal of Magnetic Resonance, 2016, 262, 1-7.	1.2	17
38	Hyperpolarized 1-[13C]-Pyruvate Magnetic Resonance Imaging Detects an Early Metabolic Response to Immune Checkpoint Inhibitor Therapy in Prostate Cancer. European Urology, 2022, 81, 219-221.	0.9	17
39	Evaluation of renal metabolic response to partial ureteral obstruction with hyperpolarized ^{13}C MRI. NMR in Biomedicine, 2018, 31, e3846.	1.6	16
40	Simultaneous imaging of ^{13}C metabolism and ^{1}H structure: technical considerations and potential applications. NMR in Biomedicine, 2015, 28, 576-582.	1.6	13
41	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.	1.9	13
42	Pulse sequence considerations for quantification of pyruvate‐to‐lactate conversion k_{PL} in hyperpolarized ^{13}C imaging. NMR in Biomedicine, 2019, 32, e4052.	1.6	13
43	A metabolite‐specific 3D stack‐of‐spiral bSSFP sequence for improved lactate imaging in hyperpolarized [1‐^{13}C]pyruvate studies on a 3T clinical scanner. Magnetic Resonance in Medicine, 2020, 84, 1113-1125.	1.9	13
44	Deuterium Metabolic Imaging—Rediscovery of a Spectroscopic Tool. Metabolites, 2021, 11, 570.	1.3	12
45	Hyperpolarized 13Carbon MR. Current Pharmaceutical Biotechnology, 2010, 11, 709-719.	0.9	11
46	Effect of anesthesia on renal R_2* measured by blood oxygen level‐dependent MRI. NMR in Biomedicine, 2015, 28, 811-817.	1.6	11
47	Mis‐estimation and bias of hyperpolarized apparent diffusion coefficient measurements due to slice profile effects. Magnetic Resonance in Medicine, 2017, 78, 1087-1092.	1.9	11
48	High‐resolution echo‐planar spectroscopic imaging at ultra‐high field. NMR in Biomedicine, 2018, 31, e3950.	1.6	11
49	Development of specialized magnetic resonance acquisition techniques for human hyperpolarized [^{13}C,^{15}N$_2$]urea + [1‐^{13}C]pyruvate simultaneous perfusion and metabolic imaging. Magnetic Resonance in Medicine, 2022, 88, 1039-1054.	1.9	11
50	Multiband RF pulses with improved performance via convex optimization. Journal of Magnetic Resonance, 2016, 262, 81-90.	1.2	10
51	Slice profile effects on quantitative analysis of hyperpolarized pyruvate. NMR in Biomedicine, 2020, 33, e4373.	1.6	10
52	Metabolic MRI with hyperpolarized [1-^{13}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
53	Hyperpolarized Metabolic MRI—Acquisition, Reconstruction, and Analysis Methods. Metabolites, 2021, 11, 386.	1.3	10
54	Dynamic nuclear polarization system output volume reduction using inert fluids. Journal of Magnetic Resonance Imaging, 2011, 33, 1003-1008.	1.9	9

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55	Spatio-Temporally Constrained Reconstruction for Hyperpolarized Carbon-13 MRI Using Kinetic Models. IEEE Transactions on Medical Imaging, 2018, 37, 2603-2612.	5.4	8
56	Using bidirectional chemical exchange for improved hyperpolarized [13C]bicarbonate pH imaging. Magnetic Resonance in Medicine, 2019, 82, 959-972.	1.9	8
57	Initial Experience on Hyperpolarized [1-13C]Pyruvate MRI Multicenter Reproducibility—Are Multicenter Trials Feasible?. Tomography, 2022, 8, 585-595.	0.8	8
58	Specialized computational methods for denoising, B 1 correction, and kinetic modeling in hyperpolarized 13 C MR EPSI studies of liver tumors. Magnetic Resonance in Medicine, 2021, 86, 2402-2411.	1.9	6
59	Simultaneous T1 and T2 mapping of hyperpolarized 13C compounds using the bSSFP sequence. Journal of Magnetic Resonance, 2020, 312, 106691.	1.2	5
60	Kinetic analysis of multi‐resolution hyperpolarized 13C human brain MRI to study cerebral metabolism. Magnetic Resonance in Medicine, 2022, 88, 2190-2197.	1.9	5
61	Diffusion‐weighted imaging of hyperpolarized [13C]urea in mouse liver. Journal of Magnetic Resonance Imaging, 2018, 47, 141-151.	1.9	4
62	Dynamic diffusion‐weighted hyperpolarized 13 C imaging based on a slice‐selective double spin echo sequence for measurements of cellular transport. Magnetic Resonance in Medicine, 2019, 81, 2001-2010.	1.9	4
63	55 Mn‐based fiducial markers for rapid and automated RF coil localization for hyperpolarized 13 C MRI. Magnetic Resonance in Medicine, 2021, 85, 518-530.	1.9	3
64	Di-chromatic interpolation of magnetic resonance metabolic images. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 57-72.	1.1	3
65	Investigating the Feasibility of In Vivo Perfusion Imaging Methods for Spinal Cord Using Hyperpolarized [13C]t-Butanol and [13C,15N2]Urea. Molecular Imaging and Biology, 2022, 24, 371-376.	1.3	1
66	Deuterium Metabolic Imaging-Rediscovery of a Spectroscopic Tool. Metabolites, 2021, 11, .	1.3	0
67	HP acquisition methods: pulse sequences, reconstruction, and RF coils. Advances in Magnetic Resonance Technology and Applications, 2021, 3, 49-74.	0.0	0