

# Albert P Chen

## List of Publications by Year in descending order

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76  
papers

5,287  
citations

147801

31  
h-index

82547

72  
g-index

77  
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77  
docs citations

77  
times ranked

3318  
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical translation of hyperpolarized <sup>13</sup> C pyruvate and urea MRI for simultaneous metabolic and perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 138-149.	3.0	23
2	<sup>15</sup> N-ε-carnitine, a novel endogenous hyperpolarized MRI probe with long signal lifetime. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1814-1820.	3.0	11
3	Characterization and compensation of inhomogeneity artifact in spiral hyperpolarized <sup>13</sup> C imaging of the human heart. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 157-166.	3.0	8
4	Predicting response to radiotherapy of intracranial metastases with hyperpolarized <sup>13</sup> C MRI. <i>Journal of Neuro-Oncology</i> , 2021, 152, 551-557.	2.9	15
5	Cardiac metabolic imaging using hyperpolarized [ <sup>13</sup> C]lactate as a substrate. <i>NMR in Biomedicine</i> , 2021, 34, e4532.	2.8	3
6	Monitoring Early Glycolytic Flux Alterations Following Radiotherapy in Cancer and Immune Cells: Hyperpolarized Carbon-13 Magnetic Resonance Imaging Study. <i>Metabolites</i> , 2021, 11, 518.	2.9	4
7	Sampling Strategies in Dynamic Hyperpolarized NMR. , 2021, , 77-102.		0
8	Lactate topography of the human brain using hyperpolarized <sup>13</sup> C-MRI. <i>NeuroImage</i> , 2020, 204, 116202.	4.2	65
9	Partial Fourier reconstruction for improved resolution in 3D hyperpolarized <sup>13</sup> C EPI. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2150-2159.	3.0	2
10	Tensor image enhancement and optimal multichannel receiver combination analyses for human hyperpolarized <sup>13</sup> C MRSI. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 3351-3365.	3.0	27
11	Correlation of hyperpolarized <sup>13</sup> C MRI data with tissue extract measurements. <i>NMR in Biomedicine</i> , 2020, 33, e4269.	2.8	3
12	A multisample 7 T dynamic nuclear polarization polarizer for preclinical hyperpolarized MR. <i>NMR in Biomedicine</i> , 2020, 33, e4264.	2.8	24
13	Monitoring Early Changes in Tumor Metabolism in Response to Therapy Using Hyperpolarized <sup>13</sup> C MRSI in a Preclinical Model of Glioma. <i>Tomography</i> , 2020, 6, 290-300.	1.8	5
14	In vivo hyperpolarization transfer in a clinical MRI scanner. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 480-487.	3.0	7
15	Simultaneous multislice acquisition without trajectory modification for hyperpolarized <sup>13</sup> C experiments. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1588-1594.	3.0	11
16	Dual-echo EPI sequence for integrated distortion correction in 3D time-resolved hyperpolarized <sup>13</sup> C MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 643-653.	3.0	31
17	Sensitivity enhancement for detection of hyperpolarized <sup>13</sup> C MRI probes with <sup>1</sup> H spin coupling introduced by enzymatic transformation in vivo. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 36-41.	3.0	9
18	Probing the cardiac malate-aspartate shuttle non-invasively using hyperpolarized [1,2- <sup>13</sup> C <sub>2</sub> ]pyruvate. <i>NMR in Biomedicine</i> , 2018, 31, e3845.	2.8	6

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19	Metabolic Imaging of the Human Brain with Hyperpolarized <sup>13</sup> C Pyruvate Demonstrates <sup>13</sup> C Lactate Production in Brain Tumor Patients. <i>Cancer Research</i> , 2018, 78, 3755-3760.	0.9	179
20	Improved tolerance to off-resonance in spectral-spatial EPI of hyperpolarized [ <sup>13</sup> C]pyruvate and metabolites. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 925-934.	3.0	10
21	Exposure to a PBDE/OH-BDE mixture alters juvenile zebrafish ( <i>Danio rerio</i> ) development. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 36-48.	4.3	20
22	Accelerated 3D echo-planar imaging with compressed sensing for time-resolved hyperpolarized <sup>13</sup> C studies. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 538-546.	3.0	22
23	Diffusion-weighted <sup>1</sup> H-resolved spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1235-1245.	3.0	9
24	<i>T</i> <sub>1</sub> nuclear magnetic relaxation dispersion of hyperpolarized sodium and cesium hydrogencarbonate <sup>13</sup> C. <i>NMR in Biomedicine</i> , 2017, 30, e3749.	2.8	4
25	Voxel-by-voxel correlations of perfusion, substrate, and metabolite signals in dynamic hyperpolarized <sup>13</sup> C imaging. <i>NMR in Biomedicine</i> , 2016, 29, 1038-1047.	2.8	14
26	Hyperpolarized [ <sup>13</sup> C]pyruvate MRI for noninvasive examination of placental metabolism and nutrient transport: A feasibility study in pregnant guinea pigs. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 750-755.	3.4	15
27	A rapid inversion technique for the measurement of longitudinal relaxation times of brain metabolites: application to lactate in high-grade gliomas at 3 T. <i>NMR in Biomedicine</i> , 2016, 29, 1381-1390.	2.8	10
28	Hyperpolarized <sup>13</sup> C Metabolic MRI of the Human Heart. <i>Circulation Research</i> , 2016, 119, 1177-1182.	4.5	296
29	Intensity correction for multichannel hyperpolarized <sup>13</sup> C imaging of the heart. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 859-865.	3.0	22
30	Using [ <sup>13</sup> C]lactic acid for hyperpolarized <sup>13</sup> C MR cardiac studies. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2087-2093.	3.0	22
31	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.	3.4	44
32	Hyperpolarized choline as an MR imaging molecular probe: Feasibility of in vivo imaging in a rat model. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 917-923.	3.4	13
33	Single voxel localization for dynamic hyperpolarized <sup>13</sup> C MR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2015, 258, 81-85.	2.1	10
34	Frequency correction method for improved spatial correlation of hyperpolarized <sup>13</sup> C metabolites and anatomy. <i>NMR in Biomedicine</i> , 2014, 27, 212-218.	2.8	17
35	Mapping metabolic changes associated with early Radiation Induced Lung Injury post conformal radiotherapy using hyperpolarized <sup>13</sup> C-pyruvate. <i>Magnetic Resonance Spectroscopic Imaging. Radiotherapy and Oncology</i> , 2014, 110, 317-322.	0.6	31
36	Reproducibility study for free-breathing measurements of pyruvate metabolism using hyperpolarized <sup>13</sup> C in the heart. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1063-1071.	3.0	24

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37	Multichannel receiver coils for improved coverage in cardiac metabolic imaging using prepolarized <sup>13</sup> C substrates. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 295-300.	3.0	12
38	Metabolic Imaging of Patients with Prostate Cancer Using Hyperpolarized [1- <sup>13</sup> C]Pyruvate. <i>Science Translational Medicine</i> , 2013, 5, 198ra108.	12.4	1,061
39	Hyperpolarized <sup>13</sup> C magnetic resonance reveals early and late onset changes to <i>in vivo</i> pyruvate metabolism in the failing heart. <i>European Journal of Heart Failure</i> , 2013, 15, 130-140.	7.1	133
40	A calibration-based approach to real-time <i>in vivo</i> monitoring of pyruvate C <sub>1</sub> and C <sub>2</sub> polarization using the <sup>13</sup> C <sub>CC</sub> spectral asymmetry. <i>NMR in Biomedicine</i> , 2013, 26, 1233-1241.	2.8	11
41	Probing Early Tumor Response to Radiation Therapy Using Hyperpolarized [1- <sup>13</sup> C]pyruvate in MDA-MB-231 Xenografts. <i>PLoS ONE</i> , 2013, 8, e56551.	2.5	32
42	Hyperpolarized <sup>13</sup> C metabolic imaging using dissolution dynamic nuclear polarization. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 36, 1314-1328.	3.4	98
43	Optimisation of dynamic nuclear polarisation of [1- <sup>13</sup> C] pyruvate by addition of gadolinium-based contrast agents. <i>Journal of Magnetic Resonance</i> , 2012, 223, 85-89.	2.1	26
44	Spin tagging for hyperpolarized <sup>13</sup> C metabolic studies. <i>Journal of Magnetic Resonance</i> , 2012, 214, 319-323.	2.1	11
45	Simultaneous investigation of cardiac pyruvate dehydrogenase flux, Krebs cycle metabolism and pH, using hyperpolarized [1,2- <sup>13</sup> C <sub>2</sub> ]pyruvate <i>in vivo</i> . <i>NMR in Biomedicine</i> , 2012, 25, 305-311.	2.8	65
46	Integrated Bloch-Siegert <sup>1</sup> mapping and multislice imaging of hyperpolarized <sup>13</sup> C pyruvate and bicarbonate in the heart. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 62-71.	3.0	28
47	Implementation of 3D Lactate-Edited 3D <sup>1</sup> H MR Spectroscopic Imaging with Flyback Echo-Planar Readout for Gliomas Patients. <i>Annals of Biomedical Engineering</i> , 2011, 39, 193-204.	2.5	35
48	<sup>13</sup> C MR reporter probe system using dynamic nuclear polarization. <i>NMR in Biomedicine</i> , 2011, 24, 514-520.	2.8	32
49	Spectral-spatial excitation for rapid imaging of DNP compounds. <i>NMR in Biomedicine</i> , 2011, 24, 988-996.	2.8	70
50	Investigation of tumor hyperpolarized [1- <sup>13</sup> 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
51	Metabolic imaging in the anesthetized rat brain using hyperpolarized [1- <sup>13</sup> C] pyruvate and [1- <sup>13</sup> C] ethyl pyruvate. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 1137-1143.	3.0	117
52	Rapid multislice imaging of hyperpolarized <sup>13</sup> C pyruvate and bicarbonate in the heart. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1323-1331.	3.0	144
53	Analysis of hyperpolarized dynamic <sup>13</sup> C lactate imaging in a transgenic mouse model of prostate cancer. <i>Magnetic Resonance Imaging</i> , 2010, 28, 153-162.	1.8	48
54	Kinetic modeling of hyperpolarized <sup>13</sup> C <sub>1</sub> -pyruvate metabolism in normal rats and TRAMP mice. <i>Journal of Magnetic Resonance</i> , 2010, 202, 85-92.	2.1	160

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55	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
56	Generation of hyperpolarized substrates by secondary labeling with [1,1- <sup>13</sup> C] acetic anhydride. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5503-5507.	7.1	46
57	In vivo hyperpolarized <sup>13</sup> C MR spectroscopic imaging with <sup>1</sup> H decoupling. <i>Journal of Magnetic Resonance</i> , 2009, 197, 100-106.	2.1	32
58	In Vivo Carbon-13 Dynamic MRS and MRSI of Normal and Fasted Rat Liver with Hyperpolarized <sup>13</sup> C-Pyruvate. <i>Molecular Imaging and Biology</i> , 2009, 11, 399-407.	2.6	64
59	3D sensitivity encoded ellipsoidal MR spectroscopic imaging of gliomas at 3T. <i>Magnetic Resonance Imaging</i> , 2009, 27, 1249-1257.	1.8	21
60	Design of spectral-spatial outer volume suppression RF pulses for tissue specific metabolic characterization with hyperpolarized <sup>13</sup> C pyruvate. <i>Journal of Magnetic Resonance</i> , 2009, 200, 344-348.	2.1	27
61	Hyperpolarized [ <sup>13</sup> 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
62	Feasibility of using hyperpolarized [1- <sup>13</sup> C]lactate as a substrate for in vivo metabolic <sup>13</sup> C MRSI studies. <i>Magnetic Resonance Imaging</i> , 2008, 26, 721-726.	1.8	104
63	Dynamic contrast-enhanced MRI and MR diffusion imaging to distinguish between glandular and stromal prostatic tissues. <i>Magnetic Resonance Imaging</i> , 2008, 26, 1071-1080.	1.8	100
64	Pulse sequence for dynamic volumetric imaging of hyperpolarized metabolic products. <i>Journal of Magnetic Resonance</i> , 2008, 193, 139-146.	2.1	116
65	Multiband excitation pulses for hyperpolarized <sup>13</sup> C dynamic chemical-shift imaging. <i>Journal of Magnetic Resonance</i> , 2008, 194, 121-127.	2.1	141
66	Phased array 3D MR spectroscopic imaging of the brain at 7 T. <i>Magnetic Resonance Imaging</i> , 2008, 26, 1201-1206.	1.8	20
67	Hyperpolarized <sup>13</sup> C Lactate, Pyruvate, and Alanine: Noninvasive Biomarkers for Prostate Cancer Detection and Grading. <i>Cancer Research</i> , 2008, 68, 8607-8615.	0.9	527
68	Hyperpolarized <sup>13</sup> C spectroscopic imaging of the TRAMP mouse at 3T—Initial experience. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 1099-1106.	3.0	190
69	High-speed 3T MR spectroscopic imaging of prostate with flyback echo-planar encoding. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 25, 1288-1292.	3.4	50
70	Double spin-echo sequence for rapid spectroscopic imaging of hyperpolarized <sup>13</sup> C. <i>Journal of Magnetic Resonance</i> , 2007, 187, 357-362.	2.1	143
71	TE-Averaged two-dimensional proton spectroscopic imaging of glutamate at 3 T. <i>NeuroImage</i> , 2006, 30, 1171-1178.	4.2	67
72	Spectroscopic imaging of the brain with phased-array coils at 3.0 T. <i>Magnetic Resonance Imaging</i> , 2006, 24, 69-74.	1.8	17

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73	Considerations in applying 3D PRESS H-1 brain MRSI with an eight-channel phased-array coil at 3 T. Magnetic Resonance Imaging, 2006, 24, 1295-1302.	1.8	33
74	High-resolution 3D MR spectroscopic imaging of the prostate at 3 T with the MLEV-PRESS sequence. Magnetic Resonance Imaging, 2006, 24, 825-832.	1.8	52
75	Design of flyback echo-planar readout gradients for magnetic resonance spectroscopic imaging. Magnetic Resonance in Medicine, 2005, 54, 1286-1289.	3.0	91
76	Hyperpolarized Nuclear Magnetic Resonance Spectroscopy: A New Method for Metabolomic Research. , 0, , 446-471.		0