

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
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77
all docs

77
docs citations

77
times ranked

3318
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	Hyperpolarized ¹³ C Lactate, Pyruvate, and Alanine: Noninvasive Biomarkers for Prostate Cancer Detection and Grading. <i>Cancer Research</i> , 2008, 68, 8607-8615.	0.9	527
3	Hyperpolarized ¹³ C Metabolic MRI of the Human Heart. <i>Circulation Research</i> , 2016, 119, 1177-1182.	4.5	296
4	Hyperpolarized ¹³ C spectroscopic imaging of the TRAMP mouse at 3T—Initial experience. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 1099-1106.	3.0	190
5	Metabolic Imaging of the Human Brain with Hyperpolarized ¹³ C Pyruvate Demonstrates ¹³ C Lactate Production in Brain Tumor Patients. <i>Cancer Research</i> , 2018, 78, 3755-3760.	0.9	179
6	Kinetic modeling of hyperpolarized ¹³ C1-pyruvate metabolism in normal rats and TRAMP mice. <i>Journal of Magnetic Resonance</i> , 2010, 202, 85-92.	2.1	160
7	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
8	Rapid multislice imaging of hyperpolarized ¹³ C pyruvate and bicarbonate in the heart. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1323-1331.	3.0	144
9	Double spin-echo sequence for rapid spectroscopic imaging of hyperpolarized ¹³ C. <i>Journal of Magnetic Resonance</i> , 2007, 187, 357-362.	2.1	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	Hyperpolarized ¹³ 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
12	Metabolic imaging in the anesthetized rat brain using hyperpolarized [¹³ C] pyruvate and [¹³ C] ethyl pyruvate. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 1137-1143.	3.0	117
13	Pulse sequence for dynamic volumetric imaging of hyperpolarized metabolic products. <i>Journal of Magnetic Resonance</i> , 2008, 193, 139-146.	2.1	116
14	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
15	Feasibility of using hyperpolarized [1- ¹³ C]lactate as a substrate for in vivo metabolic ¹³ C MRSI studies. <i>Magnetic Resonance Imaging</i> , 2008, 26, 721-726.	1.8	104
16	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
17	Hyperpolarized ¹³ C metabolic imaging using dissolution dynamic nuclear polarization. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 36, 1314-1328.	3.4	98
18	Design of flyback echo-planar readout gradients for magnetic resonance spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1286-1289.	3.0	91

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19	Investigation of tumor hyperpolarized [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	Spectral-spatial excitation for rapid imaging of DNP compounds. <i>NMR in Biomedicine</i> , 2011, 24, 988-996.	2.8	70
21	TE-Averaged two-dimensional proton spectroscopic imaging of glutamate at 3 T. <i>NeuroImage</i> , 2006, 30, 1171-1178.	4.2	67
22	Simultaneous investigation of cardiac pyruvate dehydrogenase flux, Krebs cycle metabolism and pH, using hyperpolarized [1,2- ¹³ C] ₂ pyruvate <i>in vivo</i> . <i>NMR in Biomedicine</i> , 2012, 25, 305-311.	2.8	65
23	Lactate topography of the human brain using hyperpolarized ¹³ C-MRI. <i>NeuroImage</i> , 2020, 204, 116202.	4.2	65
24	In Vivo Carbon-13 Dynamic MRS and MRSI of Normal and Fasted Rat Liver with Hyperpolarized ¹³ C-Pyruvate. <i>Molecular Imaging and Biology</i> , 2009, 11, 399-407.	2.6	64
25	High-resolution 3D MR spectroscopic imaging of the prostate at 3 T with the MLEV-PRESS sequence. <i>Magnetic Resonance Imaging</i> , 2006, 24, 825-832.	1.8	52
26	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
27	Analysis of hyperpolarized dynamic ¹³ C lactate imaging in a transgenic mouse model of prostate cancer. <i>Magnetic Resonance Imaging</i> , 2010, 28, 153-162.	1.8	48
28	Generation of hyperpolarized substrates by secondary labeling with [1,1- ¹³ 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
29	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
30	Implementation of 3 ^Å T Lactate-Edited 3D 1H MR Spectroscopic Imaging with Flyback Echo-Planar Readout for Gliomas Patients. <i>Annals of Biomedical Engineering</i> , 2011, 39, 193-204.	2.5	35
31	Considerations in applying 3D PRESS H-1 brain MRSI with an eight-channel phased-array coil at 3 T. <i>Magnetic Resonance Imaging</i> , 2006, 24, 1295-1302.	1.8	33
32	In vivo hyperpolarized ¹³ C MR spectroscopic imaging with 1H decoupling. <i>Journal of Magnetic Resonance</i> , 2009, 197, 100-106.	2.1	32
33	¹³ C MR reporter probe system using dynamic nuclear polarization. <i>NMR in Biomedicine</i> , 2011, 24, 514-520.	2.8	32
34	Probing Early Tumor Response to Radiation Therapy Using Hyperpolarized [1- ¹³ C]pyruvate in MDA-MB-231 Xenografts. <i>PLoS ONE</i> , 2013, 8, e56551.	2.5	32
35	Mapping metabolic changes associated with early Radiation Induced Lung Injury post conformal radiotherapy using hyperpolarized ¹³ C-pyruvate <i>Magnetic Resonance Spectroscopic Imaging. Radiotherapy and Oncology</i> , 2014, 110, 317-322.	0.6	31
36	Dual-Echo EPI sequence for integrated distortion correction in 3D time-resolved hyperpolarized ¹³ C MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 643-653.	3.0	31

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37	Integrated Bloch-Siegert B_1 mapping and multislice imaging of hyperpolarized ^{13}C pyruvate and bicarbonate in the heart. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 62-71.	3.0	28
38	Design of spectral-spatial outer volume suppression RF pulses for tissue specific metabolic characterization with hyperpolarized ^{13}C pyruvate. <i>Journal of Magnetic Resonance</i> , 2009, 200, 344-348.	2.1	27
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.	3.0	27
40	Optimisation of dynamic nuclear polarisation of $[1-^{13}\text{C}]$ pyruvate by addition of gadolinium-based contrast agents. <i>Journal of Magnetic Resonance</i> , 2012, 223, 85-89.	2.1	26
41	Reproducibility study for free-breathing measurements of pyruvate metabolism using hyperpolarized ^{13}C in the heart. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1063-1071.	3.0	24
42	A multisample 7 T dynamic nuclear polarization polarizer for preclinical hyperpolarized MR. <i>NMR in Biomedicine</i> , 2020, 33, e4264.	2.8	24
43	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
44	Using $[1-^{13}\text{C}]$ lactic acid for hyperpolarized ^{13}C MR cardiac studies. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2087-2093.	3.0	22
45	Intensity correction for multichannel hyperpolarized ^{13}C imaging of the heart. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 859-865.	3.0	22
46	Accelerated 3D echo-planar imaging with compressed sensing for time-resolved hyperpolarized ^{13}C studies. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 538-546.	3.0	22
47	3D sensitivity encoded ellipsoidal MR spectroscopic imaging of gliomas at 3T. <i>Magnetic Resonance Imaging</i> , 2009, 27, 1249-1257.	1.8	21
48	Phased array 3D MR spectroscopic imaging of the brain at 7 T. <i>Magnetic Resonance Imaging</i> , 2008, 26, 1201-1206.	1.8	20
49	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
50	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
51	Frequency correction method for improved spatial correlation of hyperpolarized ^{13}C metabolites and anatomy. <i>NMR in Biomedicine</i> , 2014, 27, 212-218.	2.8	17
52	Hyperpolarized $[1-^{13}\text{C}]$ 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
53	Predicting response to radiotherapy of intracranial metastases with hyperpolarized ^{13}C MRI. <i>Journal of Neuro-Oncology</i> , 2021, 152, 551-557.	2.9	15
54	Voxel-by-voxel correlations of perfusion, substrate, and metabolite signals in dynamic hyperpolarized ^{13}C imaging. <i>NMR in Biomedicine</i> , 2016, 29, 1038-1047.	2.8	14

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55	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
56	Multichannel receiver coils for improved coverage in cardiac metabolic imaging using prepolarized ¹³ C substrates. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 295-300.	3.0	12
57	Spin tagging for hyperpolarized ¹³ C metabolic studies. <i>Journal of Magnetic Resonance</i> , 2012, 214, 319-323.	2.1	11
58	A calibration-based approach to real-time in vivo monitoring of pyruvate C ₁ and C ₂ polarization using the ¹³ C _{CC} spectral asymmetry. <i>NMR in Biomedicine</i> , 2013, 26, 1233-1241.	2.8	11
59	Simultaneous multislice acquisition without trajectory modification for hyperpolarized ¹³ C experiments. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1588-1594.	3.0	11
60	¹⁵ N-carnitine, a novel endogenous hyperpolarized MRI probe with long signal lifetime. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1814-1820.	3.0	11
61	Single voxel localization for dynamic hyperpolarized ¹³ C MR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2015, 258, 81-85.	2.1	10
62	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
63	Improved tolerance to off-resonance in spectral-spatial EPI of hyperpolarized [¹³ C]pyruvate and metabolites. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 925-934.	3.0	10
64	Diffusion-weighted J-resolved spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1235-1245.	3.0	9
65	Sensitivity enhancement for detection of hyperpolarized ¹³ C MRI probes with ¹ H spin coupling introduced by enzymatic transformation in vivo. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 36-41.	3.0	9
66	Characterization and compensation of inhomogeneity artifact in spiral hyperpolarized ¹³ C imaging of the human heart. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 157-166.	3.0	8
67	In vivo hyperpolarization transfer in a clinical MRI scanner. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 480-487.	3.0	7
68	Probing the cardiac malate-aspartate shuttle non-invasively using hyperpolarized [1,2- ¹³ C ₂]pyruvate. <i>NMR in Biomedicine</i> , 2018, 31, e3845.	2.8	6
69	Monitoring Early Changes in Tumor Metabolism in Response to Therapy Using Hyperpolarized ¹³ C MRSI in a Preclinical Model of Glioma. <i>Tomography</i> , 2020, 6, 290-300.	1.8	5
70	¹ T ₁ nuclear magnetic relaxation dispersion of hyperpolarized sodium and cesium hydrogencarbonate ¹³ C. <i>NMR in Biomedicine</i> , 2017, 30, e3749.	2.8	4
71	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
72	Correlation of hyperpolarized ¹³ C MRI data with tissue extract measurements. <i>NMR in Biomedicine</i> , 2020, 33, e4269.	2.8	3

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73	Cardiac metabolic imaging using hyperpolarized [¹³ C]lactate as a substrate. NMR in Biomedicine, 2021, 34, e4532.	2.8	3
74	Partial Fourier reconstruction for improved resolution in 3D hyperpolarized 13 C EPI. Magnetic Resonance in Medicine, 2020, 83, 2150-2159.	3.0	2
75	Hyperpolarized Nuclear Magnetic Resonance Spectroscopy: A New Method for Metabolomic Research. , 0, , 446-471.		0
76	Sampling Strategies in Dynamic Hyperpolarized NMR. , 2021, , 77-102.		0