

# Craig R Malloy

## List of Publications by Year in descending order

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273  
papers

16,949  
citations

15466

65  
h-index

18075

120  
g-index

279  
all docs

279  
docs citations

279  
times ranked

17121  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-phase imaging of cardiac metabolism using hyperpolarized pyruvate. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 302-311.	1.9	4
2	Dynamic <sup>13</sup> C MR spectroscopy as an alternative to imaging for assessing cerebral metabolism using hyperpolarized pyruvate in humans. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1136-1149.	1.9	4
3	A randomized clinical trial evaluating the effect of empagliflozin on triglycerides in obese adults: Role of visceral fat. <i>Metabolism Open</i> , 2022, 13, 100161.	1.4	10
4	<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.	1.9	11
5	Assessment of hepatic pyruvate carboxylase activity using hyperpolarized [ <sup>13</sup> C]-lactate. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1175-1182.	1.9	13
6	A 32-channel receive array coil for bilateral breast imaging and spectroscopy at 7T. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 551-559.	1.9	3
7	New Insights into Metabolic Regulation from Hyperpolarized <sup>13</sup> C MRS/MRI Studies. , 2021, , 181-203.		0
8	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.	1.9	8
9	The presence of 3-hydroxypropionate and 1,3-propanediol suggests an alternative path for conversion of glycerol to Acetyl-CoA. <i>Metabolism Open</i> , 2021, 9, 100086.	1.4	1
10	<sup>31</sup> P MRS of the healthy human brain at 7 T detects multiple hexose derivatives of uridine diphosphate glucose. <i>NMR in Biomedicine</i> , 2021, 34, e4511.	1.6	6
11	Cardiac measurement of hyperpolarized <sup>13</sup> C metabolites using metabolite-selective multi-echo spiral imaging. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1494-1504.	1.9	13
12	<sup>13</sup> C NMR of glutamate for monitoring the pentose phosphate pathway in myocardium. <i>NMR in Biomedicine</i> , 2021, 34, e4533.	1.6	4
13	Detrimental Role of High Dietary Phosphate Intake on Skeletal Muscle ATP Synthesis in Healthy Humans. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
14	Spectral fitting strategy to overcome the overlap between 2-hydroxyglutarate and lipid resonances at 2.25 ppm. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1818-1828.	1.9	7
15	A 16-Channel <sup>13</sup> C Array Coil for Magnetic Resonance Spectroscopy of the Breast at 7T. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 2036-2046.	2.5	3
16	Analysis of steady-state carbon tracer experiments using akaike information criteria. <i>Metabolomics</i> , 2021, 17, 61.	1.4	3
17	<sup>13</sup> C-Labeled Diethyl Ketoglutarate Derivatives as Hyperpolarized Probes of 2-Ketoglutarate Dehydrogenase Activity. <i>Analysis &amp; Sensing</i> , 2021, 1, 156-160.	1.1	3
18	PKM1 Exerts Critical Roles in Cardiac Remodeling Under Pressure Overload in the Heart. <i>Circulation</i> , 2021, 144, 712-727.	1.6	23

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19	Hyperpolarized <sup>13</sup> C MR Spectroscopy Depicts in Vivo Effect of Exercise on Pyruvate Metabolism in Human Skeletal Muscle. <i>Radiology</i> , 2021, 300, 626-632.	3.6	10
20	Preoperative imaging of glioblastoma patients using hyperpolarized <sup>13</sup> C pyruvate: Potential role in clinical decision making. <i>Neuro-Oncology Advances</i> , 2021, 3, vtab092.	0.4	9
21	Co-Polarized [1- <sup>13</sup> C]Pyruvate and [1,3- <sup>13</sup> C <sub>2</sub> ]Acetoacetate Provide a Simultaneous View of Cytosolic and Mitochondrial Redox in a Single Experiment. <i>ACS Sensors</i> , 2021, 6, 3967-3977.	4.0	5
22	Does Tumor FDG-PET Avidity Represent Enhanced Glycolytic Metabolism in Non-Small Cell Lung Cancer?. <i>Annals of Thoracic Surgery</i> , 2020, 109, 1019-1025.	0.7	21
23	Lactate Dehydrogenase A Governs Cardiac Hypertrophic Growth in Response to Hemodynamic Stress. <i>Cell Reports</i> , 2020, 32, 108087.	2.9	43
24	Effect of Doxorubicin on Myocardial Bicarbonate Production From Pyruvate Dehydrogenase in Women With Breast Cancer. <i>Circulation Research</i> , 2020, 127, 1568-1570.	2.0	21
25	Divergent effects of glutathione depletion on isocitrate dehydrogenase 1 and the pentose phosphate pathway in hamster liver. <i>Physiological Reports</i> , 2020, 8, e14554.	0.7	4
26	Quantitative measurement of redox state in human brain by <sup>31</sup> P MRS at 7T with spectral simplification and inclusion of multiple nucleotide sugar components in data analysis. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2338-2351.	1.9	17
27	Effects of Empagliflozin Treatment on Glycerolâ€Derived Hepatic Gluconeogenesis in Adults with Obesity: A Randomized Clinical Trial. <i>Obesity</i> , 2020, 28, 1254-1262.	1.5	19
28	Assessment of Rapid Hepatic Glycogen Synthesis in Humans Using Dynamic <sup>13</sup> C Magnetic Resonance Spectroscopy. <i>Hepatology Communications</i> , 2020, 4, 425-433.	2.0	12
29	Glycine by MR spectroscopy is an imaging biomarker of glioma aggressiveness. <i>Neuro-Oncology</i> , 2020, 22, 1018-1029.	0.6	37
30	Mitochondrial substrate utilization regulates cardiomyocyte cell-cycle progression. <i>Nature Metabolism</i> , 2020, 2, 167-178.	5.1	131
31	Energetic Adaptations and Stress Reserve in the Obese Heart. <i>Circulation</i> , 2020, 141, 1164-1167.	1.6	0
32	Imaging Acute Metabolic Changes in Patients with Mild Traumatic Brain Injury Using Hyperpolarized [1- <sup>13</sup> C]Pyruvate. <i>IScience</i> , 2020, 23, 101885.	1.9	15
33	Advances in Stable Isotope Tracer Methodology Part 1: Hepatic Metabolism via Isotopomer Analysis and Postprandial Lipolysis Modeling. <i>Journal of Investigative Medicine</i> , 2020, 68, 3-10.	0.7	5
34	Abstract 535: Mathematical Modeling of Hyperpolarized Pyruvate Metabolism in Human Heart. <i>Circulation Research</i> , 2020, 127, .	2.0	0
35	Mitochondrial Substrate Utilization Regulates Cardiomyocyte Cell Cycle Progression. <i>Nature Metabolism</i> , 2020, 2, 167-178.	5.1	49
36	Remodeling of substrate consumption in the murine sTAC model of heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 134, 144-153.	0.9	16

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37	Active pyruvate dehydrogenase and impaired gluconeogenesis in orthotopic hepatomas of rats. <i>Metabolism: Clinical and Experimental</i> , 2019, 101, 153993.	1.5	10
38	A simple method to monitor hepatic gluconeogenesis and triglyceride synthesis following oral sugar tolerance test in obese adolescents. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 317, R134-R142.	0.9	12
39	Modular <sup>31</sup> P wideband inversion transfer for integrative analysis of adenosine triphosphate metabolism, T <sub>1</sub> relaxation and molecular dynamics in skeletal muscle at 7T. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3440-3452.	1.9	6
40	Metabolism of hyperpolarized <sup>13</sup> C-acetoacetate to <sup>12</sup> C-hydroxybutyrate detects real-time mitochondrial redox state and dysfunction in heart tissue. <i>NMR in Biomedicine</i> , 2019, 32, e4091.	1.6	16
41	Assessing the pentose phosphate pathway using [2, 3- <sup>13</sup> C <sub>2</sub> ]glucose. <i>NMR in Biomedicine</i> , 2019, 32, e4096.	1.6	24
42	Effects of deuteration on transamination and oxidation of hyperpolarized <sup>13</sup> C-Pyruvate in the isolated heart. <i>Journal of Magnetic Resonance</i> , 2019, 301, 102-108.	1.2	14
43	Brain metabolism modulates neuronal excitability in a mouse model of pyruvate dehydrogenase deficiency. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	53
44	Real-time hyperpolarized <sup>13</sup> C magnetic resonance detects increased pyruvate oxidation in pyruvate dehydrogenase kinase 2/4 double knockout mouse livers. <i>Scientific Reports</i> , 2019, 9, 16480.	1.6	15
45	Hyperpolarized <sup>13</sup> C MRI: Path to Clinical Translation in Oncology. <i>Neoplasia</i> , 2019, 21, 1-16.	2.3	316
46	tcaSIM: A Simulation Program for Optimal Design of <sup>13</sup> C Tracer Experiments for Analysis of Metabolic Flux by NMR and Mass Spectroscopy. <i>Current Metabolomics</i> , 2019, 6, 176-187.	0.5	9
47	Unveiling a hidden <sup>31</sup> P signal coresonating with extracellular inorganic phosphate by outer-volume suppression and localized <sup>31</sup> P MRS in the human brain at 7T. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1289-1297.	1.9	23
48	Esterase-Catalyzed Production of Hyperpolarized <sup>13</sup> C-Enriched Carbon Dioxide in Tissues for Measuring pH. <i>ACS Sensors</i> , 2018, 3, 2232-2236.	4.0	10
49	MOXI Is a Mitochondrial Micropeptide That Enhances Fatty Acid <sup>12</sup> Oxidation. <i>Cell Reports</i> , 2018, 23, 3701-3709.	2.9	118
50	Fatty liver disrupts glycerol metabolism in gluconeogenic and lipogenic pathways in humans. <i>Journal of Lipid Research</i> , 2018, 59, 1685-1694.	2.0	18
51	An Adjustable-Length Dipole Using Forced-Current Excitation for 7T MR. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 2259-2266.	2.5	4
52	A novel inhibitor of pyruvate dehydrogenase kinase stimulates myocardial carbohydrate oxidation in diet-induced obesity. <i>Journal of Biological Chemistry</i> , 2018, 293, 9604-9613.	1.6	24
53	Pentose phosphate pathway activity parallels lipogenesis but not antioxidant processes in rat liver. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 314, E543-E551.	1.8	33
54	Isotope Tracing of Human Clear Cell Renal Cell Carcinomas Demonstrates Suppressed Glucose Oxidation In Vivo. <i>Cell Metabolism</i> , 2018, 28, 793-800.e2.	7.2	193

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55	Imaging Myocardial Metabolism. , 2018, , 243-279.		1
56	Band inversion amplifies <sup>31</sup> P- <sup>31</sup> P nuclear overhauser effects: Relaxation mechanism and dynamic behavior of ATP in the human brain by <sup>31</sup> P MRS at 7 T. Magnetic Resonance in Medicine, 2017, 77, 1409-1418.	1.9	12
57	Hyperpolarized <sup>13</sup> C]gluconolactone as a probe of the pentose phosphate pathway. NMR in Biomedicine, 2017, 30, e3713.	1.6	21
58	Efficient <sup>31</sup> P band inversion transfer approach for measuring creatine kinase activity, ATP synthesis, and molecular dynamics in the human brain at 7 T. Magnetic Resonance in Medicine, 2017, 78, 1657-1666.	1.9	19
59	Intramyocellular lipid excess in the mitochondrial disorder MELAS. Neurology: Genetics, 2017, 3, e160.	0.9	9
60	Oxidation of [ <sup>13</sup> C]glucose in the human brain at 7T under steady state conditions. Magnetic Resonance in Medicine, 2017, 78, 2065-2071.	1.9	25
61	Effects of visceral adiposity on glycerol pathways in gluconeogenesis. Metabolism: Clinical and Experimental, 2017, 67, 80-89.	1.5	43
62	Measurement of <sup>13</sup> C turnover into glutamate and glutamine pools in brain tumor patients. FEBS Letters, 2017, 591, 3548-3554.	1.3	8
63	Lactate Metabolism in Human Lung Tumors. Cell, 2017, 171, 358-371.e9.	13.5	899
64	Automated modification and fusion of voxel models to construct body phantoms with heterogeneous breast tissue: Application to MRI simulations. Journal of Biomedical Graphics and Computing, 2017, 7, 1.	0.2	7
65	The rate of lactate production from glucose in hearts is not altered by per-deuteration of glucose. Journal of Magnetic Resonance, 2017, 284, 86-93.	1.2	12
66	A general chemical shift decomposition method for hyperpolarized <sup>13</sup> C metabolite magnetic resonance imaging. Magnetic Resonance in Chemistry, 2016, 54, 665-673.	1.1	7
67	A simple approach to evaluate the kinetic rate constant for ATP synthesis in resting human skeletal muscle at 7 T. NMR in Biomedicine, 2016, 29, 1240-1248.	1.6	8
68	Trap design and construction for high-power multinuclear magnetic resonance experiments. Concepts in Magnetic Resonance Part B, 2016, 46B, 162-168.	0.3	9
69	Biochemical Specificity in Human Cardiac Imaging by <sup>13</sup> C Magnetic Resonance Imaging. Circulation Research, 2016, 119, 1146-1148.	2.0	2
70	Hepatic gluconeogenesis influences <sup>13</sup> C enrichment in lactate in human brain tumors during metabolism of [1,2- <sup>13</sup> C]acetate. Neurochemistry International, 2016, 97, 133-136.	1.9	7
71	Assessing Cardiac Metabolism. Circulation Research, 2016, 118, 1659-1701.	2.0	211
72	Prospective Longitudinal Analysis of 2-Hydroxyglutarate Magnetic Resonance Spectroscopy Identifies Broad Clinical Utility for the Management of Patients With <i>IDH1</i> -Mutant Glioma. Journal of Clinical Oncology, 2016, 34, 4030-4039.	0.8	157

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73	Metabolism of hyperpolarized [ <sup>13</sup> C]pyruvate through alternate pathways in rat liver. NMR in Biomedicine, 2016, 29, 466-474.	1.6	41
74	Accelerated chemical shift imaging of hyperpolarized <sup>13</sup> C metabolites. Magnetic Resonance in Medicine, 2016, 76, 1033-1038.	1.9	14
75	An Oral Load of [13C3]Glycerol and Blood NMR Analysis Detect Fatty Acid Esterification, Pentose Phosphate Pathway, and Glycerol Metabolism through the Tricarboxylic Acid Cycle in Human Liver. Journal of Biological Chemistry, 2016, 291, 19031-19041.	1.6	19
76	Novel application of complementary imaging techniques to examine in vivo glucose metabolism in the kidney. American Journal of Physiology - Renal Physiology, 2016, 310, F717-F725.	1.3	23
77	Metabolic Heterogeneity in Human Lung Tumors. Cell, 2016, 164, 681-694.	13.5	830
78	<sup>31</sup> Pâ€MRS of healthy human brain: ATP synthesis, metabolite concentrations, pH, and <i>T</i> <sub>1</sub> relaxation times. NMR in Biomedicine, 2015, 28, 1455-1462.	1.6	83
79	Exchange kinetics by inversion transfer: Integrated analysis of the phosphorus metabolite kinetic exchanges in resting human skeletal muscle at 7 T. Magnetic Resonance in Medicine, 2015, 73, 1359-1369.	1.9	24
80	Hyperpolarized <sup>13</sup> C NMR detects rapid drugâ€induced changes in cardiac metabolism. Magnetic Resonance in Medicine, 2015, 74, 312-319.	1.9	35
81	Amplification of the effects of magnetization exchange by <sup>31</sup> P band inversion for measuring adenosine triphosphate synthesis rates in human skeletal muscle. Magnetic Resonance in Medicine, 2015, 74, 1505-1514.	1.9	16
82	Lactate Contributes to Glyceroneogenesis and Glyconeogenesis in Skeletal Muscle by Reversal of Pyruvate Kinase. Journal of Biological Chemistry, 2015, 290, 30486-30497.	1.6	10
83	The ratio of acetateâ€toâ€glucose oxidation in astrocytes from a single <sup>13</sup> C <i>in vivo</i> NMR spectrum of cerebral cortex. Journal of Neurochemistry, 2015, 132, 99-109.	2.1	8
84	A roadmap for interpreting <sup>13</sup> C metabolite labeling patterns from cells. Current Opinion in Biotechnology, 2015, 34, 189-201.	3.3	513
85	Production of hyperpolarized <sup>13</sup> CO <sub>2</sub> from [1- <sup>13</sup> C]pyruvate in perfused liver does reflect total anaplerosis but is not a reliable biomarker of glucose production. Metabolomics, 2015, 11, 1144-1156.	1.4	20
86	Conditions for <sup>13</sup> C NMR detection of 2-hydroxyglutarate in tissue extracts from isocitrate dehydrogenase-mutated gliomas. Analytical Biochemistry, 2015, 481, 4-6.	1.1	10
87	A Switched-Mode Breast Coil for 7 T MRI Using Forced-Current Excitation. IEEE Transactions on Biomedical Engineering, 2015, 62, 1777-1783.	2.5	10
88	Limitations of detection of anaplerosis and pyruvate cycling from metabolism of [1- <sup>13</sup> C] acetate. Nature Medicine, 2015, 21, 108-109.	15.2	16
89	Kinetic Modeling and Constrained Reconstruction of Hyperpolarized [1- <sup>13</sup> C]-Pyruvate Offers Improved Metabolic Imaging of Tumors. Cancer Research, 2015, 75, 4708-4717.	0.4	69
90	Influence of Liver Triglycerides on Suppression of Glucose Production by Insulin in Men. Journal of Clinical Endocrinology and Metabolism, 2015, 100, 235-243.	1.8	26

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91	Mitochondrial metabolism mediates oxidative stress and inflammation in fatty liver. <i>Journal of Clinical Investigation</i> , 2015, 125, 4447-4462.	3.9	320
92	A 16-Channel Receive, Forced Current Excitation Dual-Transmit Coil for Breast Imaging at 7T. <i>PLoS ONE</i> , 2014, 9, e113969.	1.1	14
93	Real-time Detection of Hepatic Gluconeogenic and Glycogenolytic States Using Hyperpolarized [2-13C]Dihydroxyacetone. <i>Journal of Biological Chemistry</i> , 2014, 289, 35859-35867.	1.6	55
94	<sc>MED</sc> 13C-dependent signaling from the heart confers leanness by enhancing metabolism in adipose tissue and liver. <i>EMBO Molecular Medicine</i> , 2014, 6, 1610-1621.	3.3	77
95	Quadrature transmit coil for breast imaging at 7 tesla using forced current excitation for improved homogeneity. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 1165-1173.	1.9	21
96	Interaction between the Pentose Phosphate Pathway and Gluconeogenesis from Glycerol in the Liver. <i>Journal of Biological Chemistry</i> , 2014, 289, 32593-32603.	1.6	25
97	Propionate stimulates pyruvate oxidation in the presence of acetate. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H1134-H1141.	1.5	19
98	Simultaneous Steady-state and Dynamic 13C NMR Can Differentiate Alternative Routes of Pyruvate Metabolism in Living Cancer Cells. <i>Journal of Biological Chemistry</i> , 2014, 289, 6212-6224.	1.6	49
99	Reproducibility and Absolute Quantification of Muscle Glycogen in Patients with Glycogen Storage Disease by 13C NMR Spectroscopy at 7 Tesla. <i>PLoS ONE</i> , 2014, 9, e108706.	1.1	20
100	Carbon-13 Nuclear Magnetic Resonance for Analysis of Metabolic Pathways. , 2013, , 415-445.		3
101	Dynamic monitoring of carnitine and acetylcarnitine in the trimethylamine signal after exercise in human skeletal muscle by 7T <sup>1</sup> H-MRS. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 7-17.	1.9	34
102	Modeling of Brain Metabolism and Pyruvate Compartmentation Using <sup>13</sup> C NMR <i>in Vivo</i> : Caution Required. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1160-1167.	2.4	24
103	Hepatic glucose production pathways after three days of a high-fat diet. <i>Metabolism: Clinical and Experimental</i> , 2013, 62, 152-162.	1.5	32
104	Dissolution DNP-NMR spectroscopy using galvinoxyl as a polarizing agent. <i>Journal of Magnetic Resonance</i> , 2013, 227, 14-19.	1.2	28
105	A comparative study of short- and long-TE <sup>1</sup> H MRS at 3 T for <i>in vivo</i> detection of 2-hydroxyglutarate in brain tumors. <i>NMR in Biomedicine</i> , 2013, 26, 1242-1250.	1.6	73
106	Heptanoate as a Neural Fuel: Energetic and Neurotransmitter Precursors in Normal and Glucose Transporter I-Deficient (G1D) Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 175-182.	2.4	83
107	Electron spin resonance studies of trityl OX063 at a concentration optimal for DNP. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9800.	1.3	81
108	Metabolism of Glycerol, Glucose, and Lactate in the Citric Acid Cycle Prior to Incorporation into Hepatic Acylglycerols. <i>Journal of Biological Chemistry</i> , 2013, 288, 14488-14496.	1.6	22

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109	Evidence for Transaldolase Activity in the Isolated Heart Supplied with [U- <sup>13</sup> C]Glycerol. <i>Journal of Biological Chemistry</i> , 2013, 288, 2914-2922.	1.6	5
110	Noninvasive monitoring of lactate dynamics in human forearm muscle after exhaustive exercise by <sup>1</sup> H-magnetic resonance spectroscopy at 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 610-619.	1.9	15
111	Cortical metabolism in pyruvate dehydrogenase deficiency revealed by ex vivo multiplet <sup>13</sup> C NMR of the adult mouse brain. <i>Neurochemistry International</i> , 2012, 61, 1036-1043.	1.9	12
112	Impact of Gd <sup>3+</sup> on DNP of [1- <sup>13</sup> C]Pyruvate Doped with Trityl OX063, BDPA, or 4-Oxo-TEMPO. <i>Journal of Physical Chemistry A</i> , 2012, 116, 5129-5138.	1.1	96
113	Analysis of Tumor Metabolism Reveals Mitochondrial Glucose Oxidation in Genetically Diverse Human Glioblastomas in the Mouse Brain <i>In Vivo</i> . <i>Cell Metabolism</i> , 2012, 15, 827-837.	7.2	459
114	2-hydroxyglutarate detection by magnetic resonance spectroscopy in IDH-mutated patients with gliomas. <i>Nature Medicine</i> , 2012, 18, 624-629.	15.2	711
115	Comparison of kinetic models for analysis of pyruvate ↔ lactate exchange by hyperpolarized <sup>13</sup> C NMR. <i>NMR in Biomedicine</i> , 2012, 25, 1286-1294.	1.6	100
116	Fast Dissolution Dynamic Nuclear Polarization NMR of <sup>13</sup> C-Enriched 89Y-DOTA Complex: Experimental and Theoretical Considerations. <i>Applied Magnetic Resonance</i> , 2012, 43, 69-79.	0.6	30
117	High-resolution detection of <sup>13</sup> C multiplets from the conscious mouse brain by ex vivo NMR spectroscopy. <i>Journal of Neuroscience Methods</i> , 2012, 203, 50-55.	1.3	14
118	Glucose metabolism via the pentose phosphate pathway, glycolysis and Krebs cycle in an orthotopic mouse model of human brain tumors. <i>NMR in Biomedicine</i> , 2012, 25, 1177-1186.	1.6	66
119	Metabolism of [U- <sup>13</sup> C]glucose in human brain tumors <i>in vivo</i> . <i>NMR in Biomedicine</i> , 2012, 25, 1234-1244.	1.6	282
120	In vivo determination of human breast fat composition by <sup>1</sup> H magnetic resonance spectroscopy at 7 T. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 20-26.	1.9	49
121	Reply to: Intramyocellular lipids <i>vs.</i> intramyocellular triglycerides. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 299-299.	1.9	1
122	Absolute quantification of muscle glycogen content in patients with glycogen storage disease by <sup>13</sup> C NMR spectroscopy at 7 Tesla. <i>FASEB Journal</i> , 2012, 26, 1078.39.	0.2	0
123	DNP by Thermal Mixing under Optimized Conditions Yields >6000-fold Enhancement of <sup>89</sup> Y NMR Signal. <i>Journal of the American Chemical Society</i> , 2011, 133, 8673-8680.	6.6	86
124	Analysis of Cancer Metabolism by Imaging Hyperpolarized Nuclei: Prospects for Translation to Clinical Research. <i>Neoplasia</i> , 2011, 13, 81-97.	2.3	623
125	Transfer of hyperpolarization from long T1 storage nuclei to short T1 neighbors using FLOPSY-8. <i>Journal of Magnetic Resonance</i> , 2011, 213, 187-191.	1.2	3
126	Measurement of glycine in the human brain <i>in vivo</i> by <sup>1</sup> H MRS at 3 T: application in brain tumors. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 609-618.	1.9	44



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127	Could <sup>13</sup> C MRI assist clinical decision-making for patients with heart disease?. NMR in Biomedicine, 2011, 24, 973-979.	1.6	40
128	BDPA: An Efficient Polarizing Agent for Fast Dissolution Dynamic Nuclear Polarization NMR Spectroscopy. Chemistry - A European Journal, 2011, 17, 10825-10827.	1.7	72
129	The effect of <sup>13</sup> C enrichment in the glassing matrix on dynamic nuclear polarization of [1- <sup>13</sup> C]pyruvate. Physics in Medicine and Biology, 2011, 56, N85-N92.	1.6	36
130	Flux through hepatic pyruvate carboxylase and phosphoenolpyruvate carboxykinase detected by hyperpolarized <sup>13</sup> C magnetic resonance. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19084-19089.	3.3	129
131	Energetics and metabolism in the failing heart: important but poorly understood. Current Opinion in Clinical Nutrition and Metabolic Care, 2010, 13, 458-465.	1.3	41
132	Ultra-short echo time (UTE) MR imaging of the lung: Comparison between normal and emphysematous lungs in mutant mice. Journal of Magnetic Resonance Imaging, 2010, 32, 326-333.	1.9	87
133	<sup>1</sup> H MRS of intramyocellular lipids in soleus muscle at 7 T: Spectral simplification by using long echo times without water suppression. Magnetic Resonance in Medicine, 2010, 64, 662-671.	1.9	38
134	Competition of pyruvate with physiological substrates for oxidation by the heart: implications for studies with hyperpolarized [1- <sup>13</sup> C]pyruvate. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H1556-H1564.	1.5	56
135	Hyperpolarized <sup>89</sup> Y Complexes as pH Sensitive NMR Probes. Journal of the American Chemical Society, 2010, 132, 1784-1785.	6.6	64
136	Evidence for reverse flux through pyruvate kinase in skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E748-E757.	1.8	10
137	Orientation of lipid strands in the extracellular compartment of muscle: Effect on quantitation of intramyocellular lipids. Magnetic Resonance in Medicine, 2009, 61, 16-21.	1.9	24
138	Responsive MRI Agents for Sensing Metabolism <i>in Vivo</i> . Accounts of Chemical Research, 2009, 42, 948-957.	7.6	243
139	Imaging the tissue distribution of glucose in livers using a PARACEST sensor. Magnetic Resonance in Medicine, 2008, 60, 1047-1055.	1.9	76
140	Inhibition of carbohydrate oxidation during the first minute of reperfusion after brief ischemia: NMR detection of hyperpolarized <sup>13</sup> CO <sub>2</sub> and H <sup>13</sup> CO. Magnetic Resonance in Medicine, 2008, 60, 1029-1036.	1.9	85
141	Alterations in hepatic glucose and energy metabolism as a result of calorie and carbohydrate restriction. Hepatology, 2008, 48, 1487-1496.	3.6	30
142	Composition of adipose tissue and marrow fat in humans by <sup>1</sup> H NMR at 7 Tesla. Journal of Lipid Research, 2008, 49, 2055-2062.	2.0	320
143	Hyperpolarized <sup>13</sup> C allows a direct measure of flux through a single enzyme-catalyzed step by NMR. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19773-19777.	3.3	266
144	Intramyocyte Lipids May Impair Insulin Signaling. American Journal of Psychiatry, 2007, 164, 1475-1475.	4.0	4

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