Craig R Malloy

List of Publications by Year
in descending order

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273 papers	16,949 citations	15504 65 h-index	18130 120 g-index
279 all docs	279 docs citations	279 times ranked	17121 citing authors

#	Article	IF	Citations
1	Dualâ€phase imaging of cardiac metabolism using hyperpolarized pyruvate. Magnetic Resonance in Medicine, 2022, 87, 302-311.	3.0	4
2	Dynamic ¹³C MR spectroscopy as an alternative to imaging for assessing cerebral metabolism using hyperpolarized pyruvate in humans. Magnetic Resonance in Medicine, 2022, 87, 1136-1149.	3.0	4
3	A randomized clinical trial evaluating the effect of empagliflozin on triglycerides in obese adults: Role of visceral fat. Metabolism Open, 2022, 13, 100161.	2.9	10
4	¹⁵Nâ€carnitine, a novel endogenous hyperpolarized MRI probe with long signal lifetime. Magnetic Resonance in Medicine, 2021, 85, 1814-1820.	3.0	11
5	Assessment of hepatic pyruvate carboxylase activity using hyperpolarized [1â€¹³C]â€<scp>l</scp>â€lactate. Magnetic Resonance in Medicine, 2021, 85, 1175-1182.	3.0	13
6	A 32â€channel receive array coil for bilateral breast imaging and spectroscopy at 7T. Magnetic Resonance in Medicine, 2021, 85, 551-559.	3.0	3
7	New Insights into Metabolic Regulation from Hyperpolarized 13C MRS/MRI Studies. , 2021, , 181-203.		0
8	Characterization and compensation of inhomogeneity artifact in spiral hyperpolarized ¹³C imaging of the human heart. Magnetic Resonance in Medicine, 2021, 86, 157-166.	3.0	8
9	The presence of 3-hydroxypropionate and 1,3-propanediol suggests an alternative path for conversion of glycerol to Acetyl-CoA. Metabolism Open, 2021, 9, 100086.	2.9	1
10	31 Pâ€MRS of the healthy human brain at 7 T detects multiple hexose derivatives of uridine diphosphate glucose. NMR in Biomedicine, 2021, 34, e4511.	2.8	6
11	Cardiac measurement of hyperpolarized ¹³C metabolites using metaboliteâ€selective multiâ€echo spiral imaging. Magnetic Resonance in Medicine, 2021, 86, 1494-1504.	3.0	13
12	13 C NMR of glutamate for monitoring the pentose phosphate pathway in myocardium. NMR in Biomedicine, 2021, 34, e4533.	2.8	4
13	Detrimental Role of High Dietary Phosphate Intake on Skeletal Muscle ATP Synthesis in Healthy Humans. FASEB Journal, 2021, 35, .	0.5	0
14	Spectral fitting strategy to overcome the overlap between 2â€hydroxyglutarate and lipid resonances at 2.25 ppm. Magnetic Resonance in Medicine, 2021, 86, 1818-1828.	3.0	7
15	A 16-Channel ¹³C Array Coil for Magnetic Resonance Spectroscopy of the Breast at 7T. IEEE Transactions on Biomedical Engineering, 2021, 68, 2036-2046.	4.2	3
16	Analysis of steady-state carbon tracer experiments using akaike information criteria. Metabolomics, 2021, 17, 61.	3.0	3
17	¹³Câ€labeled Diethyl Ketoglutarate Derivatives as Hyperpolarized Probes of 2â€Ketoglutarate Dehydrogenase Activity. Analysis & Sensing, 2021, 1, 156-160.	2.0	3
18	PKM1 Exerts Critical Roles in Cardiac Remodeling Under Pressure Overload in the Heart. Circulation, 2021, 144, 712-727.	1.6	23

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19	Hyperpolarized ¹³C MR Spectroscopy Depicts in Vivo Effect of Exercise on Pyruvate Metabolism in Human Skeletal Muscle. Radiology, 2021, 300, 626-632.	7.3	10
20	Preoperative imaging of glioblastoma patients using hyperpolarized 13C pyruvate: Potential role in clinical decision making. Neuro-Oncology Advances, 2021, 3, vdab092.	0.7	9
21	Co-Polarized [1-¹³C]Pyruvate and [1,3-¹³C₂]Acetoacetate Provide a Simultaneous View of Cytosolic and Mitochondrial Redox in a Single Experiment. ACS Sensors, 2021, 6, 3967-3977.	7.8	5
22	Does Tumor FDG-PET Avidity Represent Enhanced Glycolytic Metabolism in Non-Small Cell Lung Cancer?. Annals of Thoracic Surgery, 2020, 109, 1019-1025.	1.3	21
23	Lactate Dehydrogenase A Governs Cardiac Hypertrophic Growth in Response to Hemodynamic Stress. Cell Reports, 2020, 32, 108087.	6.4	43
24	Effect of Doxorubicin on Myocardial Bicarbonate Production From Pyruvate Dehydrogenase in Women With Breast Cancer. Circulation Research, 2020, 127, 1568-1570.	4.5	21
25	Divergent effects of glutathione depletion on isocitrate dehydrogenase 1 and the pentose phosphate pathway in hamster liver. Physiological Reports, 2020, 8, e14554.	1.7	4
26	Quantitative measurement of redox state in human brain by ³¹P MRS at 7T with spectral simplification and inclusion of multiple nucleotide sugar components in data analysis. Magnetic Resonance in Medicine, 2020, 84, 2338-2351.	3.0	17
27	Effects of Empagliflozin Treatment on Glycerolâ€Derived Hepatic Gluconeogenesis in Adults with Obesity: A Randomized Clinical Trial. Obesity, 2020, 28, 1254-1262.	3.0	19
28	Assessment of Rapid Hepatic Glycogen Synthesis in Humans Using Dynamic 13C Magnetic Resonance Spectroscopy. Hepatology Communications, 2020, 4, 425-433.	4.3	12
29	Glycine by MR spectroscopy is an imaging biomarker of glioma aggressiveness. Neuro-Oncology, 2020, 22, 1018-1029.	1.2	37
30	Mitochondrial substrate utilization regulates cardiomyocyte cell-cycle progression. Nature Metabolism, 2020, 2, 167-178.	11.9	131
31	Energetic Adaptations and Stress Reserve in the Obese Heart. Circulation, 2020, 141, 1164-1167.	1.6	0
32	Imaging Acute Metabolic Changes in Patients with Mild Traumatic Brain Injury Using Hyperpolarized [1-13C]Pyruvate. IScience, 2020, 23, 101885.	4.1	15
33	Advances in Stable Isotope Tracer Methodology Part 1: Hepatic Metabolism via Isotopomer Analysis and Postprandial Lipolysis Modeling. Journal of Investigative Medicine, 2020, 68, 3-10.	1.6	5
34	Abstract 535: Mathematical Modeling of Hyperpolarized Pyruvate Metabolism in Human Heart. Circulation Research, 2020, 127, .	4.5	0
35	Mitochondrial Substrate Utilization Regulates Cardiomyocyte Cell Cycle Progression. Nature Metabolism, 2020, 2, 167-178.	11.9	49
36	Remodeling of substrate consumption in the murine sTAC model of heart failure. Journal of Molecular and Cellular Cardiology, 2019, 134, 144-153.	1.9	16

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37	Active pyruvate dehydrogenase and impaired gluconeogenesis in orthotopic hepatomas of rats. Metabolism: Clinical and Experimental, 2019, 101, 153993.	3.4	10
38	A simple method to monitor hepatic gluconeogenesis and triglyceride synthesis following oral sugar tolerance test in obese adolescents. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 317, R134-R142.	1.8	12
39	Modular ³¹P wideband inversion transfer for integrative analysis of adenosine triphosphate metabolism, T₁ relaxation and molecular dynamics in skeletal muscle at 7T. Magnetic Resonance in Medicine, 2019, 81, 3440-3452.	3.0	6
40	Metabolism of hyperpolarized ¹³Câ€acetoacetate to Î²â€hydroxybutyrate detects realâ€time mitochondrial redox state and dysfunction in heart tissue. NMR in Biomedicine, 2019, 32, e4091.	2.8	16
41	Assessing the pentose phosphate pathway using [2, 3â€¹³C₂]glucose. NMR in Biomedicine, 2019, 32, e4096.	2.8	24
42	Effects of deuteration on transamination and oxidation of hyperpolarized 13C-Pyruvate in the isolated heart. Journal of Magnetic Resonance, 2019, 301, 102-108.	2.1	14
43	Brain metabolism modulates neuronal excitability in a mouse model of pyruvate dehydrogenase deficiency. Science Translational Medicine, 2019, 11, .	12.4	53
44	Real-time hyperpolarized 13C magnetic resonance detects increased pyruvate oxidation in pyruvate dehydrogenase kinase 2/4â€“double knockout mouse livers. Scientific Reports, 2019, 9, 16480.	3.3	15
45	Hyperpolarized 13C MRI: Path to Clinical Translation in Oncology. Neoplasia, 2019, 21, 1-16.	5.3	316
46	tcaSIM: A Simulation Program for Optimal Design of 13C Tracer Experiments for Analysis of Metabolic Flux by NMR and Mass Spectroscopy. Current Metabolomics, 2019, 6, 176-187.	0.5	9
47	Unveiling a hidden ³¹P signal coresonating with extracellular inorganic phosphate by outerâ€volumeâ€suppression and localized ³¹P MRS in the human brain at 7T. Magnetic Resonance in Medicine, 2018, 80, 1289-1297.	3.0	23
48	Esterase-Catalyzed Production of Hyperpolarized ¹³C-Enriched Carbon Dioxide in Tissues for Measuring pH. ACS Sensors, 2018, 3, 2232-2236.	7.8	10
49	MOXI Is a Mitochondrial Micropeptide That Enhances Fatty Acid Î²-Oxidation. Cell Reports, 2018, 23, 3701-3709.	6.4	118
50	Fatty liver disrupts glycerol metabolism in gluconeogenic and lipogenic pathways in humans. Journal of Lipid Research, 2018, 59, 1685-1694.	4.2	18
51	An Adjustable-Length Dipole Using Forced-Current Excitation for 7T MR. IEEE Transactions on Biomedical Engineering, 2018, 65, 2259-2266.	4.2	4
52	A novel inhibitor of pyruvate dehydrogenase kinase stimulates myocardial carbohydrate oxidation in diet-induced obesity. Journal of Biological Chemistry, 2018, 293, 9604-9613.	3.4	24
53	Pentose phosphate pathway activity parallels lipogenesis but not antioxidant processes in rat liver. American Journal of Physiology - Endocrinology and Metabolism, 2018, 314, E543-E551.	3.5	33
54	Isotope Tracing of Human Clear Cell Renal Cell Carcinomas Demonstrates Suppressed Glucose Oxidation InÂVivo. Cell Metabolism, 2018, 28, 793-800.e2.	16.2	193

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55	Imaging Myocardial Metabolism. , 2018, , 243-279.		1
56	Band inversion amplifies³¹P-³¹P nuclear overhauser effects: Relaxation mechanism and dynamic behavior of ATP in the human brain by³¹P MRS at 7 T. Magnetic Resonance in Medicine, 2017, 77, 1409-1418.	3.0	12
57	Hyperpolarized Î²â€[1â€¹³C]gluconolactone as a probe of the pentose phosphate pathway. NMR in Biomedicine, 2017, 30, e3713.	2.8	21
58	Efficient ³¹P 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.	3.0	19
59	Intramyocellular lipid excess in the mitochondrial disorder MELAS. Neurology: Genetics, 2017, 3, e160.	1.9	9
60	Oxidation of [Uâ€¹³C]glucose in the human brain at 7T under steady state conditions. Magnetic Resonance in Medicine, 2017, 78, 2065-2071.	3.0	25
61	Effects of visceral adiposity on glycerol pathways in gluconeogenesis. Metabolism: Clinical and Experimental, 2017, 67, 80-89.	3.4	43
62	Measurement of ¹³C turnover into glutamate and glutamine pools in brain tumor patients. FEBS Letters, 2017, 591, 3548-3554.	2.8	8
63	Lactate Metabolism in Human Lung Tumors. Cell, 2017, 171, 358-371.e9.	28.9	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.	2.1	12
66	A general chemical shift decomposition method for hyperpolarized ¹³C metabolite magnetic resonance imaging. Magnetic Resonance in Chemistry, 2016, 54, 665-673.	1.9	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.	2.8	8
68	Trap design and construction for highâ€power multinuclear magnetic resonance experiments. Concepts in Magnetic Resonance Part B, 2016, 46B, 162-168.	0.7	9
69	Biochemical Specificity in Human Cardiac Imaging by ¹³ C Magnetic Resonance Imaging. Circulation Research, 2016, 119, 1146-1148.	4.5	2
70	Hepatic gluconeogenesis influences 13C enrichment in lactate in human brain tumors during metabolism of [1,2-13C]acetate. Neurochemistry International, 2016, 97, 133-136.	3.8	7
71	Assessing Cardiac Metabolism. Circulation Research, 2016, 118, 1659-1701.	4.5	211
72	Prospective Longitudinal Analysis of 2-Hydroxyglutarate Magnetic Resonance Spectroscopy Identifies Broad Clinical Utility for the Management of Patients With IDH-Mutant Glioma. Journal of Clinical Oncology, 2016, 34, 4030-4039.	1.6	157

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73	Metabolism of hyperpolarized [1â€¹³C]pyruvate through alternate pathways in rat liver. NMR in Biomedicine, 2016, 29, 466-474.	2.8	41
74	Accelerated chemical shift imaging of hyperpolarized ¹³C metabolites. Magnetic Resonance in Medicine, 2016, 76, 1033-1038.	3.0	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.	3.4	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.	2.7	23
77	Metabolic Heterogeneity in Human Lung Tumors. Cell, 2016, 164, 681-694.	28.9	830
78	³¹Pâ€MRS of healthy human brain: ATP synthesis, metabolite concentrations, pH, and T₁ relaxation times. NMR in Biomedicine, 2015, 28, 1455-1462.	2.8	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.	3.0	24
80	Hyperpolarized ¹³C NMR detects rapid drugâ€induced changes in cardiac metabolism. Magnetic Resonance in Medicine, 2015, 74, 312-319.	3.0	35
81	Amplification of the effects of magnetization exchange by31P band inversion for measuring adenosine triphosphate synthesis rates in human skeletal muscle. Magnetic Resonance in Medicine, 2015, 74, 1505-1514.	3.0	16
82	Lactate Contributes to Glyceroneogenesis and Glyconeogenesis in Skeletal Muscle by Reversal of Pyruvate Kinase. Journal of Biological Chemistry, 2015, 290, 30486-30497.	3.4	10
83	The ratio of acetateâ€toâ€glucose oxidation in astrocytes from a single ¹³C <scp>NMR</scp> spectrum of cerebral cortex. Journal of Neurochemistry, 2015, 132, 99-109.	3.9	8
84	A roadmap for interpreting 13 C metabolite labeling patterns from cells. Current Opinion in Biotechnology, 2015, 34, 189-201.	6.6	513
85	Production of hyperpolarized 13CO2 from [1-13C]pyruvate in perfused liver does reflect total anaplerosis but is not a reliable biomarker of glucose production. Metabolomics, 2015, 11, 1144-1156.	3.0	20
86	Conditions for 13C NMR detection of 2-hydroxyglutarate in tissue extracts from isocitrate dehydrogenase-mutated gliomas. Analytical Biochemistry, 2015, 481, 4-6.	2.4	10
87	A Switched-Mode Breast Coil for 7 T MRI Using Forced-Current Excitation. IEEE Transactions on Biomedical Engineering, 2015, 62, 1777-1783.	4.2	10
88	Limitations of detection of anaplerosis and pyruvate cycling from metabolism of [1-13C] acetate. Nature Medicine, 2015, 21, 108-109.	30.7	16
89	Kinetic Modeling and Constrained Reconstruction of Hyperpolarized [1-13C]-Pyruvate Offers Improved Metabolic Imaging of Tumors. Cancer Research, 2015, 75, 4708-4717.	0.9	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.	3.6	26

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91	Mitochondrial metabolism mediates oxidative stress and inflammation in fatty liver. Journal of Clinical Investigation, 2015, 125, 4447-4462.	8.2	320
92	A 16-Channel Receive, Forced Current Excitation Dual-Transmit Coil for Breast Imaging at 7T. PLoS ONE, 2014, 9, e113969.	2.5	14
93	Real-time Detection of Hepatic Gluconeogenic and Glycogenolytic States Using Hyperpolarized [2-13C]Dihydroxyacetone. Journal of Biological Chemistry, 2014, 289, 35859-35867.	3.4	55
94	<scp>MED</scp>13â€dependent signaling from the heart confers leanness by enhancing metabolism in adipose tissue and liver. EMBO Molecular Medicine, 2014, 6, 1610-1621.	6.9	77
95	Quadrature transmit coil for breast imaging at 7 tesla using forced current excitation for improved homogeneity. Journal of Magnetic Resonance Imaging, 2014, 40, 1165-1173.	3.4	21
96	Interaction between the Pentose Phosphate Pathway and Gluconeogenesis from Glycerol in the Liver. Journal of Biological Chemistry, 2014, 289, 32593-32603.	3.4	25
97	Propionate stimulates pyruvate oxidation in the presence of acetate. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1134-H1141.	3.2	19
98	Simultaneous Steady-state and Dynamic 13C NMR Can Differentiate Alternative Routes of Pyruvate Metabolism in Living Cancer Cells. Journal of Biological Chemistry, 2014, 289, 6212-6224.	3.4	49
99	Reproducibility and Absolute Quantification of Muscle Glycogen in Patients with Glycogen Storage Disease by 13C NMR Spectroscopy at 7 Tesla. PLoS ONE, 2014, 9, e108706.	2.5	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 ¹Hâ€MRS. Magnetic Resonance in Medicine, 2013, 69, 7-17.	3.0	34
102	Modeling of Brain Metabolism and Pyruvate Compartmentation Using ¹³C NMR in Vivo: Caution Required. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1160-1167.	4.3	24
103	Hepatic glucose production pathways after three days of a high-fat diet. Metabolism: Clinical and Experimental, 2013, 62, 152-162.	3.4	32
104	Dissolution DNP-NMR spectroscopy using galvinoxyl as a polarizing agent. Journal of Magnetic Resonance, 2013, 227, 14-19.	2.1	28
105	A comparative study of shortâ€and longâ€TE ¹H MRS at 3 T for in vivo detection of 2â€hydroxyglutarate in brain tumors. NMR in Biomedicine, 2013, 26, 1242-1250.	2.8	73
106	Heptanoate as a Neural Fuel: Energetic and Neurotransmitter Precursors in Normal and Glucose Transporter I-Deficient (G1D) Brain. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 175-182.	4.3	83
107	Electron spin resonance studies of trityl OX063 at a concentration optimal for DNP. Physical Chemistry Chemical Physics, 2013, 15, 9800.	2.8	81
108	Metabolism of Glycerol, Glucose, and Lactate in the Citric Acid Cycle Prior to Incorporation into Hepatic Acylglycerols. Journal of Biological Chemistry, 2013, 288, 14488-14496.	3.4	22

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109	Evidence for Transaldolase Activity in the Isolated Heart Supplied with [U-13C3]Glycerol. Journal of Biological Chemistry, 2013, 288, 2914-2922.	3.4	5
110	Noninvasive monitoring of lactate dynamics in human forearm muscle after exhaustive exercise by¹H-magnetic resonance spectroscopy at 7 tesla. Magnetic Resonance in Medicine, 2013, 70, 610-619.	3.0	15
111	Cortical metabolism in pyruvate dehydrogenase deficiency revealed by ex vivo multiplet 13C NMR of the adult mouse brain. Neurochemistry International, 2012, 61, 1036-1043.	3.8	12
112	Impact of Gd³⁺ on DNP of [1-¹³C]Pyruvate Doped with Trityl OX063, BDPA, or 4-Oxo-TEMPO. Journal of Physical Chemistry A, 2012, 116, 5129-5138.	2.5	96
113	Analysis of Tumor Metabolism Reveals Mitochondrial Glucose Oxidation in Genetically Diverse Human Glioblastomas in the Mouse Brain InÂVivo. Cell Metabolism, 2012, 15, 827-837.	16.2	459
114	2-hydroxyglutarate detection by magnetic resonance spectroscopy in IDH-mutated patients with gliomas. Nature Medicine, 2012, 18, 624-629.	30.7	711
115	Comparison of kinetic models for analysis of pyruvateâ€toâ€lactate exchange by hyperpolarized ¹³C NMR. NMR in Biomedicine, 2012, 25, 1286-1294.	2.8	100
116	Fast Dissolution Dynamic Nuclear Polarization NMR of 13C-Enriched 89Y-DOTA Complex: Experimental and Theoretical Considerations. Applied Magnetic Resonance, 2012, 43, 69-79.	1.2	30
117	High-resolution detection of 13C multiplets from the conscious mouse brain by ex vivo NMR spectroscopy. Journal of Neuroscience Methods, 2012, 203, 50-55.	2.5	14
118	Glucose metabolism via the pentose phosphate pathway, glycolysis and Krebs cycle in an orthotopic mouse model of human brain tumors. NMR in Biomedicine, 2012, 25, 1177-1186.	2.8	66
119	Metabolism of [Uâ€¹³C]glucose in human brain tumors in vivo. NMR in Biomedicine, 2012, 25, 1234-1244.	2.8	282
120	In vivo determination of human breast fat composition by ¹H magnetic resonance spectroscopy at 7 T. Magnetic Resonance in Medicine, 2012, 67, 20-26.	3.0	49
121	Reply to: Intramyocellular lipids vs. intramyocellular triglycerides. Magnetic Resonance in Medicine, 2012, 67, 299-299.	3.0	1
122	Absolute quantification of muscle glycogen content in patients with glycogen storage disease by 13C NMR spectroscopy at 7 Tesla. FASEB Journal, 2012, 26, 1078.39.	0.5	0
123	DNP by Thermal Mixing under Optimized Conditions Yields >60â€‰000-fold Enhancement of ⁸⁹Y NMR Signal. Journal of the American Chemical Society, 2011, 133, 8673-8680.	13.7	86
124	Analysis of Cancer Metabolism by Imaging Hyperpolarized Nuclei: Prospects for Translation to Clinical Research. Neoplasia, 2011, 13, 81-97.	5.3	623
125	Transfer of hyperpolarization from long T1 storage nuclei to short T1 neighbors using FLOPSY-8. Journal of Magnetic Resonance, 2011, 213, 187-191.	2.1	3
126	Measurement of glycine in the human brain in vivo by ¹Hâ€MRS at 3 T: application in brain tumors. Magnetic Resonance in Medicine, 2011, 66, 609-618.	3.0	44

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127	Could ¹³C MRI assist clinical decisionâ€making for patients with heart disease?. NMR in Biomedicine, 2011, 24, 973-979.	2.8	40
128	BDPA: An Efficient Polarizing Agent for Fast Dissolution Dynamic Nuclear Polarization NMR Spectroscopy. Chemistry - A European Journal, 2011, 17, 10825-10827.	3.3	72
129	The effect of¹³C enrichment in the glassing matrix on dynamic nuclear polarization of [1-¹³C]pyruvate. Physics in Medicine and Biology, 2011, 56, N85-N92.	3.0	36
130	Flux through hepatic pyruvate carboxylase and phosphoenolpyruvate carboxykinase detected by hyperpolarized ¹³ C magnetic resonance. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19084-19089.	7.1	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.	2.5	41
132	Ultraâ€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.	3.4	87
133	¹H 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.	3.0	38
134	Competition of pyruvate with physiological substrates for oxidation by the heart: implications for studies with hyperpolarized [1-¹³C]pyruvate. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H1556-H1564.	3.2	56
135	Hyperpolarized ⁸⁹Y Complexes as pH Sensitive NMR Probes. Journal of the American Chemical Society, 2010, 132, 1784-1785.	13.7	64
136	Evidence for reverse flux through pyruvate kinase in skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E748-E757.	3.5	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.	3.0	24
138	Responsive MRI Agents for Sensing Metabolism in Vivo. Accounts of Chemical Research, 2009, 42, 948-957.	15.6	243
139	Imaging the tissue distribution of glucose in livers using a PARACEST sensor. Magnetic Resonance in Medicine, 2008, 60, 1047-1055.	3.0	76
140	Inhibition of carbohydrate oxidation during the first minute of reperfusion after brief ischemia: NMR detection of hyperpolarized ¹³CO₂ and H¹³CO. Magnetic Resonance in Medicine, 2008, 60, 1029-1036.	3.0	85
141	Alterations in hepatic glucose and energy metabolism as a result of calorie and carbohydrate restriction. Hepatology, 2008, 48, 1487-1496.	7.3	30
142	Composition of adipose tissue and marrow fat in humans by 1H NMR at 7 Tesla. Journal of Lipid Research, 2008, 49, 2055-2062.	4.2	320
143	Hyperpolarized ¹³ 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.	7.1	266
144	Intramyocyte Lipids May Impair Insulin Signaling. American Journal of Psychiatry, 2007, 164, 1475-1475.	7.2	4

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145	Role of Excess Glycogenolysis in Fasting Hyperglycemia Among Pre-Diabetic and Diabetic Zucker (fa/fa) Rats. Diabetes, 2007, 56, 777-785.	0.6	14
146	MRI detection of glycogen in vivo by using chemical exchange saturation transfer imaging (glycoCEST). Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4359-4364.	7.1	370
147	Cytosolic Phosphoenolpyruvate Carboxykinase Does Not Solely Control the Rate of Hepatic Gluconeogenesis in the Intact Mouse Liver. Cell Metabolism, 2007, 5, 313-320.	16.2	232
148	Hyperpolarized89Y Offers the Potential of Direct Imaging of Metal Ions in Biological Systems by Magnetic Resonance. Journal of the American Chemical Society, 2007, 129, 12942-12943.	13.7	50
149	Dipolar cross-relaxation modulates signal amplitudes in the 1H NMR spectrum of hyperpolarized [13C]formate. Journal of Magnetic Resonance, 2007, 189, 280-285.	2.1	26
150	Storage and oxidation of long-chain fatty acids in the C57/BL6 mouse heart as measured by NMR spectroscopy. FEBS Letters, 2006, 580, 4282-4287.	2.8	36
151	Effects of insulin and cytosolic redox state on glucose production pathways in the isolated perfused mouse liver measured by integrated 2H and 13C NMR. Biochemical Journal, 2006, 394, 465-473.	3.7	35
152	Diminished Hepatic Gluconeogenesis via Defects in Tricarboxylic Acid Cycle Flux in Peroxisome Proliferator-activated Receptor Î³ Coactivator-1Î± (PGC-1Î±)-deficient Mice*. Journal of Biological Chemistry, 2006, 281, 19000-19008.	3.4	99
153	The Greater Contribution of Gluconeogenesis to Glucose Production in Obesity Is Related to Increased Whole-Body Protein Catabolism. Diabetes, 2006, 55, 675-681.	0.6	105
154	Metabolic Networks in the Liver by 2H and 13C NMR. , 2005, , 159-174.		2
155	Comparison of [3,4-13C2]glucose to [6,6-2H2]glucose as a tracer for glucose turnover by nuclear magnetic resonance. Magnetic Resonance in Medicine, 2005, 53, 1479-1483.	3.0	22
156	Differing mechanisms of hepatic glucose overproduction in triiodothyronine-treated rats vs. Zucker diabetic fatty rats by NMR analysis of plasma glucose. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E654-E662.	3.5	37
157	Effect of murine strain on metabolic pathways of glucose production after brief or prolonged fasting. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E53-E61.	3.5	57
158	Inhibition of cardiac lipoprotein utilization by transgenic overexpression of Angptl4 in the heart. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1767-1772.	7.1	96
159	A New Class of Macrocyclic Lanthanide Complexes for Cell Labeling and Magnetic Resonance Imaging Applications. Journal of the American Chemical Society, 2005, 127, 16178-16188.	13.7	64
160	MRI Thermometry Based on PARACEST Agents. Journal of the American Chemical Society, 2005, 127, 17572-17573.	13.7	168
161	TCA Cycle Turnover And Serum Glucose Sources By Automated Bayesian Analysis Of NMR Spectra. AIP Conference Proceedings, 2004, , .	0.4	0
162	Impaired Tricarboxylic Acid Cycle Activity in Mouse Livers Lacking Cytosolic Phosphoenolpyruvate Carboxykinase. Journal of Biological Chemistry, 2004, 279, 48941-48949.	3.4	141

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