

Craig R Malloy

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

268
papers

13,817
citations

61
h-index

110
g-index

279
ext. papers

15,501
ext. citations

7
avg, IF

6
L-index

#	Paper	IF	Citations
268	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	2.8	0
267	Dual-phase imaging of cardiac metabolism using hyperpolarized pyruvate. <i>Magnetic Resonance in Medicine</i> , 2022 , 87, 302-311	4.4	1
266	Co-Polarized [1-C]Pyruvate and [1,3-C]Acetoacetate Provide a Simultaneous View of Cytosolic and Mitochondrial Redox in a Single Experiment. <i>ACS Sensors</i> , 2021 , 6, 3967-3977	9.2	1
265	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	2.8	1
264	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	4.4	2
263	Cardiac measurement of hyperpolarized C metabolites using metabolite-selective multi-echo spiral imaging. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 1494-1504	4.4	3
262	C NMR of glutamate for monitoring the pentose phosphate pathway in myocardium. <i>NMR in Biomedicine</i> , 2021 , 34, e4533	4.4	3
261	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	4.4	4
260	A 16-Channel C Array Coil for Magnetic Resonance Spectroscopy of the Breast at 7T. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 2036-2046	5	0
259	Analysis of steady-state carbon tracer experiments using akaike information criteria. <i>Metabolomics</i> , 2021 , 17, 61	4.7	0
258	N-carnitine, a novel endogenous hyperpolarized MRI probe with long signal lifetime. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 1814-1820	4.4	3
257	Assessment of hepatic pyruvate carboxylase activity using hyperpolarized [1- C]-l-lactate. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 1175-1182	4.4	6
256	A 32-channel receive array coil for bilateral breast imaging and spectroscopy at 7T. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 551-559	4.4	0
255	New Insights into Metabolic Regulation from Hyperpolarized 13C MRS/MRI Studies 2021 , 181-203		
254	Characterization and compensation of inhomogeneity artifact in spiral hyperpolarized C imaging of the human heart. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 157-166	4.4	2
253	PKM1 Exerts Critical Roles in Cardiac Remodeling Under Pressure Overload in the Heart. <i>Circulation</i> , 2021 , 144, 712-727	16.7	3
252	Hyperpolarized C MR Spectroscopy Depicts in Vivo Effect of Exercise on Pyruvate Metabolism in Human Skeletal Muscle. <i>Radiology</i> , 2021 , 300, 626-632	20.5	3

251	Preoperative imaging of glioblastoma patients using hyperpolarized C pyruvate: Potential role in clinical decision making. <i>Neuro-Oncology Advances</i> , 2021 , 3, vdab092	0.9	3
250	Quantitative measurement of redox state in human brain by 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	4.4	9
249	Effects of Empagliflozin Treatment on Glycerol-Derived Hepatic Gluconeogenesis in Adults with Obesity: A Randomized Clinical Trial. <i>Obesity</i> , 2020 , 28, 1254-1262	8	9
248	Assessment of Rapid Hepatic Glycogen Synthesis in Humans Using Dynamic C Magnetic Resonance Spectroscopy. <i>Hepatology Communications</i> , 2020 , 4, 425-433	6	5
247	Glycine by MR spectroscopy is an imaging biomarker of glioma aggressiveness. <i>Neuro-Oncology</i> , 2020 , 22, 1018-1029	1	13
246	Mitochondrial substrate utilization regulates cardiomyocyte cell-cycle progression. <i>Nature Metabolism</i> , 2020 , 2, 167-178	14.6	50
245	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	2.9	1
244	Mitochondrial Substrate Utilization Regulates Cardiomyocyte Cell Cycle Progression. <i>Nature Metabolism</i> , 2020 , 2, 167-178	14.6	29
243	Imaging Acute Metabolic Changes in Patients with Mild Traumatic Brain Injury Using Hyperpolarized [1-C]Pyruvate. <i>iScience</i> , 2020 , 23, 101885	6.1	5
242	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	2.7	9
241	Lactate Dehydrogenase A Governs Cardiac Hypertrophic Growth in Response to Hemodynamic Stress. <i>Cell Reports</i> , 2020 , 32, 108087	10.6	16
240	Effect of Doxorubicin on Myocardial Bicarbonate Production From Pyruvate Dehydrogenase in Women With Breast Cancer. <i>Circulation Research</i> , 2020 , 127, 1568-1570	15.7	10
239	Divergent effects of glutathione depletion on isocitrate dehydrogenase 1 and the pentose phosphate pathway in hamster liver. <i>Physiological Reports</i> , 2020 , 8, e14554	2.6	3
238	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	3.2	3
237	Modular P wideband inversion transfer for integrative analysis of adenosine triphosphate metabolism, T relaxation and molecular dynamics in skeletal muscle at 7T. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 3440-3452	4.4	1
236	Metabolism of hyperpolarized C-acetoacetate to Ehydroxybutyrate detects real-time mitochondrial redox state and dysfunction in heart tissue. <i>NMR in Biomedicine</i> , 2019 , 32, e4091	4.4	8
235	Assessing the pentose phosphate pathway using [2, 3- C]glucose. <i>NMR in Biomedicine</i> , 2019 , 32, e4096	4.4	11
234	Effects of deuteration on transamination and oxidation of hyperpolarized C-Pyruvate in the isolated heart. <i>Journal of Magnetic Resonance</i> , 2019 , 301, 102-108	3	7

233	Remodeling of substrate consumption in the murine sTAC model of heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 134, 144-153	5.8	9
232	Active pyruvate dehydrogenase and impaired gluconeogenesis in orthotopic hepatomas of rats. <i>Metabolism: Clinical and Experimental</i> , 2019 , 101, 153993	12.7	6
231	Brain metabolism modulates neuronal excitability in a mouse model of pyruvate dehydrogenase deficiency. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	21
230	Real-time hyperpolarized C magnetic resonance detects increased pyruvate oxidation in pyruvate dehydrogenase kinase 2/4-double knockout mouse livers. <i>Scientific Reports</i> , 2019 , 9, 16480	4.9	6
229	Hyperpolarized C MRI: Path to Clinical Translation in Oncology. <i>Neoplasia</i> , 2019 , 21, 1-16	6.4	210
228	Unveiling a hidden P signal coresonating with extracellular inorganic phosphate by outer-volume-suppression and localized P MRS in the human brain at 7T. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 1289-1297	4.4	15
227	Fatty liver disrupts glycerol metabolism in gluconeogenic and lipogenic pathways in humans. <i>Journal of Lipid Research</i> , 2018 , 59, 1685-1694	6.3	9
226	An Adjustable-Length Dipole Using Forced-Current Excitation for 7T MR. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 2259-2266	5	1
225	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	5.4	11
224	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	6	18
223	Isotope Tracing of Human Clear Cell Renal Cell Carcinomas Demonstrates Suppressed Glucose Oxidation In Vivo. <i>Cell Metabolism</i> , 2018 , 28, 793-800.e2	24.6	118
222	tcaSIM: A Simulation Program for Optimal Design of C Tracer Experiments for Analysis of Metabolic Flux by NMR and Mass Spectroscopy. <i>Current Metabolomics</i> , 2018 , 6, 176-187	1	6
221	Imaging Myocardial Metabolism 2018 , 243-279		1
220	Esterase-Catalyzed Production of Hyperpolarized C-Enriched Carbon Dioxide in Tissues for Measuring pH. <i>ACS Sensors</i> , 2018 , 3, 2232-2236	9.2	8
219	MOXI Is a Mitochondrial Micropeptide That Enhances Fatty Acid Oxidation. <i>Cell Reports</i> , 2018 , 23, 3701-3709	37.09	70
218	Band inversion amplifies P- P nuclear overhauser effects: Relaxation mechanism and dynamic behavior of ATP in the human brain by P MRS at 7 T. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1409-1418	4.4	8
217	Hyperpolarized [1- C]gluconolactone as a probe of the pentose phosphate pathway. <i>NMR in Biomedicine</i> , 2017 , 30, e3713	4.4	16
216	Efficient P band inversion transfer approach for measuring creatine kinase activity, ATP synthesis, and molecular dynamics in the human brain at 7 T. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1657-1666	4.4	11

215	Intramyocellular lipid excess in the mitochondrial disorder MELAS: MRS determination at 7T. <i>Neurology: Genetics</i> , 2017 , 3, e160	3.8	6
214	Oxidation of [U- ¹³ C]glucose in the human brain at 7T under steady state conditions. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 2065-2071	4.4	20
213	Effects of visceral adiposity on glycerol pathways in gluconeogenesis. <i>Metabolism: Clinical and Experimental</i> , 2017 , 67, 80-89	12.7	29
212	Measurement of ¹³ C turnover into glutamate and glutamine pools in brain tumor patients. <i>FEBS Letters</i> , 2017 , 591, 3548-3554	3.8	6
211	Lactate Metabolism in Human Lung Tumors. <i>Cell</i> , 2017 , 171, 358-371.e9	56.2	568
210	Automated modification and fusion of voxel models to construct body phantoms with heterogeneous breast tissue: Application to MRI simulations. <i>Journal of Biomedical Graphics and Computing</i> , 2017 , 7, 1-7		7
209	The rate of lactate production from glucose in hearts is not altered by per-deuteration of glucose. <i>Journal of Magnetic Resonance</i> , 2017 , 284, 86-93	3	8
208	Accelerated chemical shift imaging of hyperpolarized (¹³ C) metabolites. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 1033-8	4.4	12
207	An Oral Load of [¹³ C]Glycerol and Blood NMR Analysis Detect Fatty Acid Esterification, Pentose Phosphate Pathway, and Glycerol Metabolism through the Tricarboxylic Acid Cycle in Human Liver. <i>Journal of Biological Chemistry</i> , 2016 , 291, 19031-41	5.4	14
206	Novel application of complementary imaging techniques to examine in vivo glucose metabolism in the kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2016 , 310, F717-F725	4.3	19
205	Metabolic Heterogeneity in Human Lung Tumors. <i>Cell</i> , 2016 , 164, 681-94	56.2	593
204	A general chemical shift decomposition method for hyperpolarized (¹³ C) metabolite magnetic resonance imaging. <i>Magnetic Resonance in Chemistry</i> , 2016 , 54, 665-73	2.1	6
203	A simple approach to evaluate the kinetic rate constant for ATP synthesis in resting human skeletal muscle at 7 T. <i>NMR in Biomedicine</i> , 2016 , 29, 1240-8	4.4	8
202	Trap Design and Construction for High-Power Multinuclear Magnetic Resonance Experiments 2016 , 46B, 162-168		7
201	Hepatic gluconeogenesis influences (¹³ C) enrichment in lactate in human brain tumors during metabolism of [1,2-(¹³ C)]acetate. <i>Neurochemistry International</i> , 2016 , 97, 133-6	4.4	6
200	Assessing Cardiac Metabolism: A Scientific Statement From the American Heart Association. <i>Circulation Research</i> , 2016 , 118, 1659-701	15.7	142
199	Integration of ¹³ C Isotopomer Methods and Hyperpolarization Provides a Comprehensive Picture of Metabolism 2016 , 885-900		2
198	Prospective Longitudinal Analysis of 2-Hydroxyglutarate Magnetic Resonance Spectroscopy Identifies Broad Clinical Utility for the Management of Patients With IDH-Mutant Glioma. <i>Journal of Clinical Oncology</i> , 2016 , 34, 4030-4039	2.2	124

197	Metabolism of hyperpolarized [1-(13)C]pyruvate through alternate pathways in rat liver. <i>NMR in Biomedicine</i> , 2016 , 29, 466-74	4.4	33
196	A roadmap for interpreting (13)C metabolite labeling patterns from cells. <i>Current Opinion in Biotechnology</i> , 2015 , 34, 189-201	11.4	368
195	Production of hyperpolarized CO from [1-C]pyruvate in perfused liver does reflect total anaplerosis but is not a reliable biomarker of glucose production. <i>Metabolomics</i> , 2015 , 11, 1144-1156	4.7	15
194	Conditions for (13)C NMR detection of 2-hydroxyglutarate in tissue extracts from isocitrate dehydrogenase-mutated gliomas. <i>Analytical Biochemistry</i> , 2015 , 481, 4-6	3.1	8
193	A Switched-Mode Breast Coil for 7 T MRI Using Forced-Current Excitation. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 1777-83	5	9
192	Limitations of detection of anaplerosis and pyruvate cycling from metabolism of [1-(13)C] acetate. <i>Nature Medicine</i> , 2015 , 21, 108-9	50.5	13
191	Kinetic Modeling and Constrained Reconstruction of Hyperpolarized [1-13C]-Pyruvate Offers Improved Metabolic Imaging of Tumors. <i>Cancer Research</i> , 2015 , 75, 4708-17	10.1	51
190	Influence of liver triglycerides on suppression of glucose production by insulin in men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015 , 100, 235-43	5.6	20
189	(31)P-MRS of healthy human brain: ATP synthesis, metabolite concentrations, pH, and T1 relaxation times. <i>NMR in Biomedicine</i> , 2015 , 28, 1455-62	4.4	59
188	Exchange kinetics by inversion transfer: integrated analysis of the phosphorus metabolite kinetic exchanges in resting human skeletal muscle at 7 T. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1359-69	4.4	18
187	Hyperpolarized 13C NMR detects rapid drug-induced changes in cardiac metabolism. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 312-9	4.4	29
186	Amplification of the effects of magnetization exchange by (31) P band inversion for measuring adenosine triphosphate synthesis rates in human skeletal muscle. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 1505-14	4.4	11
185	Lactate Contributes to Glyceroneogenesis and Glyconeogenesis in Skeletal Muscle by Reversal of Pyruvate Kinase. <i>Journal of Biological Chemistry</i> , 2015 , 290, 30486-97	5.4	7
184	The ratio of acetate-to-glucose oxidation in astrocytes from a single 13C NMR spectrum of cerebral cortex. <i>Journal of Neurochemistry</i> , 2015 , 132, 99-109	6	7
183	Mitochondrial metabolism mediates oxidative stress and inflammation in fatty liver. <i>Journal of Clinical Investigation</i> , 2015 , 125, 4447-62	15.9	234
182	Propionate stimulates pyruvate oxidation in the presence of acetate. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 307, H1134-41	5.2	16
181	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, 6212-24	5.4	44
180	A 16-channel receive, forced current excitation dual-transmit coil for breast imaging at 7T. <i>PLoS ONE</i> , 2014 , 9, e113969	3.7	13

179	Real-time detection of hepatic gluconeogenic and glycogenolytic states using hyperpolarized [2-13C]dihydroxyacetone. <i>Journal of Biological Chemistry</i> , 2014 , 289, 35859-67	5.4	45
178	MED13-dependent signaling from the heart confers leanness by enhancing metabolism in adipose tissue and liver. <i>EMBO Molecular Medicine</i> , 2014 , 6, 1610-21	12	59
177	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, 1165-73	5.6	20
176	Interaction between the pentose phosphate pathway and gluconeogenesis from glycerol in the liver. <i>Journal of Biological Chemistry</i> , 2014 , 289, 32593-603	5.4	21
175	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	3.7	14
174	Dynamic monitoring of carnitine and acetylcarnitine in the trimethylamine signal after exercise in human skeletal muscle by 7T 1H-MRS. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 7-17	4.4	27
173	Modeling of brain metabolism and pyruvate compartmentation using (13)C NMR in vivo: caution required. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 1160-7	7.3	19
172	Hepatic glucose production pathways after three days of a high-fat diet. <i>Metabolism: Clinical and Experimental</i> , 2013 , 62, 152-62	12.7	18
171	Dissolution DNP-NMR spectroscopy using galvinoxyl as a polarizing agent. <i>Journal of Magnetic Resonance</i> , 2013 , 227, 14-9	3	28
170	A comparative study of short- and long-TE 1H MRS at 3 T for in vivo detection of 2-hydroxyglutarate in brain tumors. <i>NMR in Biomedicine</i> , 2013 , 26, 1242-50	4.4	63
169	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, 175-82	7.3	60
168	Electron spin resonance studies of trityl OX063 at a concentration optimal for DNP. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9800-7	3.6	70
167	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	5.4	17
166	Evidence for transaldolase activity in the isolated heart supplied with [U-13C3]glycerol. <i>Journal of Biological Chemistry</i> , 2013 , 288, 2914-22	5.4	4
165	Noninvasive monitoring of lactate dynamics in human forearm muscle after exhaustive exercise by (1)H-magnetic resonance spectroscopy at 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 610-9	4.4	12
164	High-resolution detection of 13C multiplets from the conscious mouse brain by ex vivo NMR spectroscopy. <i>Journal of Neuroscience Methods</i> , 2012 , 203, 50-5	3	11
163	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, 1177-86	4.4	57
162	Metabolism of [U-13 C]glucose in human brain tumors in vivo. <i>NMR in Biomedicine</i> , 2012 , 25, 1234-44	4.4	229

161	In vivo determination of human breast fat composition by ^1H magnetic resonance spectroscopy at 7 T. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 20-6	4.4	47
160	Reply to: Intramyocellular lipids vs. intramyocellular triglycerides. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 299-299	4.4	1
159	Cortical metabolism in pyruvate dehydrogenase deficiency revealed by ex vivo multiplet (^{13}C) NMR of the adult mouse brain. <i>Neurochemistry International</i> , 2012 , 61, 1036-43	4.4	10
158	Impact of Gd^{3+} on DNP of [^{1-13}C]pyruvate doped with trityl OX063, BDPA, or 4-oxo-TEMPO. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 5129-38	2.8	84
157	Analysis of tumor metabolism reveals mitochondrial glucose oxidation in genetically diverse human glioblastomas in the mouse brain in vivo. <i>Cell Metabolism</i> , 2012 , 15, 827-37	24.6	389
156	2-hydroxyglutarate detection by magnetic resonance spectroscopy in IDH-mutated patients with gliomas. <i>Nature Medicine</i> , 2012 , 18, 624-9	50.5	584
155	Comparison of kinetic models for analysis of pyruvate-to-lactate exchange by hyperpolarized ^{13}C NMR. <i>NMR in Biomedicine</i> , 2012 , 25, 1286-94	4.4	89
154	Fast Dissolution Dynamic Nuclear Polarization NMR of ^{13}C -Enriched 89Y-DOTA Complex: Experimental and Theoretical Considerations. <i>Applied Magnetic Resonance</i> , 2012 , 43, 69-79	0.8	29
153	Absolute quantification of muscle glycogen content in patients with glycogen storage disease by ^{13}C NMR spectroscopy at 7 Tesla. <i>FASEB Journal</i> , 2012 , 26, 1078.39	0.9	
152	Analysis of cancer metabolism by imaging hyperpolarized nuclei: prospects for translation to clinical research. <i>Neoplasia</i> , 2011 , 13, 81-97	6.4	570
151	Transfer of hyperpolarization from long T1 storage nuclei to short T1 neighbors using FLOPSY-8. <i>Journal of Magnetic Resonance</i> , 2011 , 213, 187-91	3	3
150	Measurement of glycine in the human brain in vivo by ^1H -MRS at 3 T: application in brain tumors. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 609-18	4.4	39
149	Could ^{13}C MRI assist clinical decision-making for patients with heart disease?. <i>NMR in Biomedicine</i> , 2011 , 24, 973-9	4.4	38
148	BDPA: an efficient polarizing agent for fast dissolution dynamic nuclear polarization NMR spectroscopy. <i>Chemistry - A European Journal</i> , 2011 , 17, 10825-7	4.8	68
147	DNP by thermal mixing under optimized conditions yields >60,000-fold enhancement of 89Y NMR signal. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8673-80	16.4	82
146	The effect of ^{13}C enrichment in the glassing matrix on dynamic nuclear polarization of [^{1-13}C]pyruvate. <i>Physics in Medicine and Biology</i> , 2011 , 56, N85-92	3.8	33
145	Flux through hepatic pyruvate carboxylase and phosphoenolpyruvate carboxykinase detected by hyperpolarized ^{13}C magnetic resonance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 19084-9	11.5	108
144	Competition of pyruvate with physiological substrates for oxidation by the heart: implications for studies with hyperpolarized [^{1-13}C]pyruvate. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 298, H1556-64	5.2	54

143	Hyperpolarized 89Y complexes as pH sensitive NMR probes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1784-5	16.4	60
142	Energetics and metabolism in the failing heart: important but poorly understood. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2010 , 13, 458-65	3.8	40
141	Ultra-short echo time (UTE) MR imaging of the lung: comparison between normal and emphysematous lungs in mutant mice. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 326-33	5.6	79
140	¹ H MRS of intramyocellular lipids in soleus muscle at 7 T: spectral simplification by using long echo times without water suppression. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 662-71	4.4	34
139	Evidence for reverse flux through pyruvate kinase in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 296, E748-57	6	9
138	Orientation of lipid strands in the extracellular compartment of muscle: effect on quantitation of intramyocellular lipids. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 16-21	4.4	21
137	Responsive MRI agents for sensing metabolism in vivo. <i>Accounts of Chemical Research</i> , 2009 , 42, 948-57	24.3	229
136	Composition of adipose tissue and marrow fat in humans by ¹ H NMR at 7 Tesla. <i>Journal of Lipid Research</i> , 2008 , 49, 2055-62	6.3	281
135	Imaging the tissue distribution of glucose in livers using a PARACEST sensor. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 1047-55	4.4	71
134	Inhibition of carbohydrate oxidation during the first minute of reperfusion after brief ischemia: NMR detection of hyperpolarized ¹³ CO ₂ and H ¹³ CO ₃ ⁻ . <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 1029-36	4.4	81
133	Alterations in hepatic glucose and energy metabolism as a result of calorie and carbohydrate restriction. <i>Hepatology</i> , 2008 , 48, 1487-96	11.2	26
132	Hyperpolarized (89)Y offers the potential of direct imaging of metal ions in biological systems by magnetic resonance. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12942-3	16.4	45
131	Dipolar cross-relaxation modulates signal amplitudes in the (1)H NMR spectrum of hyperpolarized [(13)C]formate. <i>Journal of Magnetic Resonance</i> , 2007 , 189, 280-5	3	25
130	Hyperpolarized ¹³ C allows a direct measure of flux through a single enzyme-catalyzed step by NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19773-7	11.5	237
129	Intramyocyte lipids may impair insulin signaling. <i>American Journal of Psychiatry</i> , 2007 , 164, 1475	11.9	4
128	Role of excess glycogenolysis in fasting hyperglycemia among pre-diabetic and diabetic Zucker (fa/fa) rats. <i>Diabetes</i> , 2007 , 56, 777-85	0.9	13
127	MRI detection of glycogen in vivo by using chemical exchange saturation transfer imaging (glycoCEST). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 4359-64	11.5	329
126	Cytosolic phosphoenolpyruvate carboxykinase does not solely control the rate of hepatic gluconeogenesis in the intact mouse liver. <i>Cell Metabolism</i> , 2007 , 5, 313-20	24.6	203

125	Diminished hepatic gluconeogenesis via defects in tricarboxylic acid cycle flux in peroxisome proliferator-activated receptor gamma coactivator-1alpha (PGC-1alpha)-deficient mice. <i>Journal of Biological Chemistry</i> , 2006 , 281, 19000-8	5.4	95
124	The greater contribution of gluconeogenesis to glucose production in obesity is related to increased whole-body protein catabolism. <i>Diabetes</i> , 2006 , 55, 675-81	0.9	88
123	Storage and oxidation of long-chain fatty acids in the C57/BL6 mouse heart as measured by NMR spectroscopy. <i>FEBS Letters</i> , 2006 , 580, 4282-7	3.8	33
122	Effects of insulin and cytosolic redox state on glucose production pathways in the isolated perfused mouse liver measured by integrated 2H and 13C NMR. <i>Biochemical Journal</i> , 2006 , 394, 465-73	3.8	35
121	A new class of macrocyclic lanthanide complexes for cell labeling and magnetic resonance imaging applications. <i>Journal of the American Chemical Society</i> , 2005 , 127, 16178-88	16.4	58
120	MRI thermometry based on PARACEST agents. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17572-3	16.4	160
119	Metabolic Networks in the Liver by 2H and 13C NMR 2005 , 159-174		1
118	Comparison of [3,4-13C2]glucose to [6,6-2H2]glucose as a tracer for glucose turnover by nuclear magnetic resonance. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 1479-83	4.4	20
117	Differing mechanisms of hepatic glucose overproduction in triiodothyronine-treated rats vs. Zucker diabetic fatty rats by NMR analysis of plasma glucose. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 288, E654-62	6	34
116	Effect of murine strain on metabolic pathways of glucose production after brief or prolonged fasting. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 289, E53-61	6	50
115	Inhibition of cardiac lipoprotein utilization by transgenic overexpression of Angptl4 in the heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 1767-72	11.5	86
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