Kevin M Brindle

List of Publications by Year
in descending order

151 papers	14,914 citations	30070 54 h-index	19190 118 g-index
156 all docs	156 docs citations	156 times ranked	16170 citing authors

#	Article	IF	Citations
1	Hyperpolarised 13C-MRI identifies the emergence of a glycolytic cell population within intermediate-risk human prostate cancer. Nature Communications, 2022, 13, 466.	12.8	27
2	Hyperpolarized 13C-Pyruvate Metabolism as a Surrogate for Tumor Grade and Poor Outcome in Renal Cell Carcinomaâ€"A Proof of Principle Study. Cancers, 2022, 14, 335.	3.7	18
3	Early detection of cancer. Science, 2022, 375, eaay9040.	12.6	291
4	Genetic algorithmâ€based optimization of pulse sequences. Magnetic Resonance in Medicine, 2022, 87, 2130-2144.	3.0	4
5	Expanding Theranostic Radiopharmaceuticals for Tumor Diagnosis and Therapy. Pharmaceuticals, 2022, 15, 13.	3.8	22
6	Gene reporters for magnetic resonance imaging. Trends in Genetics, 2022, 38, 996-998.	6.7	3
7	Deuterium MRSI of tumor cell death in vivo following oralÂdelivery of <scp>²H</scp>â€labeled fumarate. Magnetic Resonance in Medicine, 2022, 88, 2014-2020.	3.0	8
8	Imaging Glioblastoma Metabolism by Using Hyperpolarized [1-¹³C]Pyruvate Demonstrates Heterogeneity in Lactate Labeling: A Proof of Principle Study. Radiology Imaging Cancer, 2022, 4, .	1.6	17
9	Probing hepatic metabolism of [2-13C]dihydroxyacetone in vivo with 1H-decoupled hyperpolarized 13C-MR. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 49-56.	2.0	10
10	Innovating Metabolic Biomarkers for Hyperpolarized NMR. , 2021, , 151-179.		0
11	Comparison of 13 C MRI of hyperpolarized [1â€•13 C]pyruvate and lactate with the corresponding mass spectrometry images in a murine lymphoma model. Magnetic Resonance in Medicine, 2021, 85, 3027-3035.	3.0	9
12	Multi-modal imaging of high-risk ductal carcinoma in situ of the breast using C2Am: a targeted cell death imaging agent. Breast Cancer Research, 2021, 23, 25.	5.0	3
13	Editorial commentary for the special issue: technological developments in hyperpolarized 13C imagingâ€"toward a deeper understanding of tumor metabolism in vivo. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 1-3.	2.0	3
14	Monitoring tumor cell death in murine tumor models using deuterium magnetic resonance spectroscopy and spectroscopic imaging. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	33
15	Fragmentation patterns and personalized sequencing of cellâ€free DNA in urine and plasma of glioma patients. EMBO Molecular Medicine, 2021, 13, e12881.	6.9	61
16	Hyperpolarized MRI, functional MRI, MR spectroscopy and CEST to provide metabolic information inÂvivo. Current Opinion in Chemical Biology, 2021, 63, 209-218.	6.1	17
17	Metabolic imaging with hyperpolarized [1-13C] pyruvate in patient-derived preclinical mouse models of breast cancer. STAR Protocols, 2021, 2, 100608.	1.2	2
18	Hyperpolarized Carbon-13 MRI for Early Response Assessment of Neoadjuvant Chemotherapy in Breast Cancer Patients. Cancer Research, 2021, 81, 6004-6017.	0.9	25

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19	Measuring Tumor Glycolytic Flux in Vivo by Using Fast Deuterium MRI. Radiology, 2020, 294, 289-296.	7.3	73
20	Breast cancerâ€“associated macrophages promote tumorigenesis by suppressing succinate dehydrogenase in tumor cells. Science Signaling, 2020, 13, .	3.6	34
21	Metabolic Imaging Detects Resistance to PI3KÎ± Inhibition Mediated by Persistent FOXM1 Expression in ER+ Breast Cancer. Cancer Cell, 2020, 38, 516-533.e9.	16.8	38
22	Hyperpolarized ¹³C MRI of Tumor Metabolism Demonstrates Early Metabolic Response to Neoadjuvant Chemotherapy in Breast Cancer. Radiology Imaging Cancer, 2020, 2, e200017.	1.6	40
23	ctDNA monitoring using patient-specific sequencing and integration of variant reads. Science Translational Medicine, 2020, 12, .	12.4	116
24	A multi spin echo pulse sequence with optimized excitation pulses and a 3D cone readout for hyperpolarized 13 C imaging. Magnetic Resonance in Medicine, 2020, 84, 1895-1908.	3.0	5
25	Increasing the sensitivity of hyperpolarized [15 N 2]urea detection by serial transfer of polarization to spinâ€coupled protons. Magnetic Resonance in Medicine, 2020, 84, 1844-1856.	3.0	5
26	Spectroscopic measurements of metabolic fluxes. Nature Biomedical Engineering, 2020, 4, 254-256.	22.5	3
27	Noninvasive In Vivo Assessment of Cardiac Metabolism in the Healthy and Diabetic Human Heart Using Hyperpolarized ¹³ C MRI. Circulation Research, 2020, 126, 725-736.	4.5	105
28	Imaging breast cancer using hyperpolarized carbon-13 MRI. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2092-2098.	7.1	138
29	18F-C2Am: a targeted imaging agent for detecting tumor cell death in vivo using positron emission tomography. EJNMMI Research, 2020, 10, 151.	2.5	7
30	Quantifying normal human brain metabolism using hyperpolarized [1â€“13C]pyruvate and magnetic resonance imaging. NeuroImage, 2019, 189, 171-179.	4.2	144
31	Magnetic Resonance Imaging Is More Sensitive Than PET for Detecting Treatment-Induced Cell Deathâ€“Dependent Changes in Glycolysis. Cancer Research, 2019, 79, 3557-3569.	0.9	36
32	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. Magnetic Resonance in Medicine, 2019, 82, 527-550.	3.0	280
33	Challenges to curing primary brain tumours. Nature Reviews Clinical Oncology, 2019, 16, 509-520.	27.6	540
34	Measurement of Plasma Cell-Free Mitochondrial Tumor DNA Improves Detection of Glioblastoma in Patient-Derived Orthotopic Xenograft Models. Cancer Research, 2019, 79, 220-230.	0.9	67
35	Hyperpolarized 13C MRI: Path to Clinical Translation in Oncology. Neoplasia, 2019, 21, 1-16.	5.3	316
36	Emerging Technologies to Image Tissue Metabolism. Cell Metabolism, 2019, 29, 518-538.	16.2	47

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37	Analysis of ¹³C and ¹⁴C labeling in pyruvate and lactate in tumor and blood of lymphomaâ€bearing mice injected with ¹³Câ€•and ¹⁴Câ€labeled pyruvate. NMR in Biomedicine, 2018, 31, e3901.	2.8	23
38	Increased hyperpolarized [1â€¹³C] lactate production in a model of joint inflammation is not accompanied by tissue acidosis as assessed using hyperpolarized ¹³Câ€labelled bicarbonate. NMR in Biomedicine, 2018, 31, e3892.	2.8	21
39	Subâ€minute kinetics of human red cell fumarase: ¹H spinâ€echo NMR spectroscopy and ¹³C rapidâ€dissolution dynamic nuclear polarization. NMR in Biomedicine, 2018, 31, e3870.	2.8	8
40	Dynamic ¹H imaging of hyperpolarized [1â€¹³C]lactate in vivo using a reverse INEPT experiment. Magnetic Resonance in Medicine, 2018, 79, 741-747.	3.0	37
41	A referenceless Nyquist ghost correction workflow for echo planar imaging of hyperpolarized [1â€¹³C]pyruvate and [1â€¹³C]lactate. NMR in Biomedicine, 2018, 31, e3866.	2.8	12
42	Glyoxalase activity in human erythrocytes and mouse lymphoma, liver and brain probed with hyperpolarized 13C-methylglyoxal. Communications Biology, 2018, 1, 232.	4.4	8
43	Hyperpolarized ¹³C spectroscopic imaging using singleâ€shot 3D sequences with unpaired adiabatic refocusing pulses. NMR in Biomedicine, 2018, 31, e4004.	2.8	11
44	Detection of cellâ€free <scp>DNA</scp> fragmentation and copy number alterations in cerebrospinal fluid from glioma patients. EMBO Molecular Medicine, 2018, 10, .	6.9	123
45	Enhanced detection of circulating tumor DNA by fragment size analysis. Science Translational Medicine, 2018, 10, .	12.4	670
46	Photogenerated Radical in Phenylglyoxylic Acid for in Vivo Hyperpolarized ¹³C MR with Photosensitive Metabolic Substrates. Journal of the American Chemical Society, 2018, 140, 14455-14463.	13.7	21
47	Metabolic Imaging Detects Low Levels of Glycolytic Activity That Vary with Levels of c-Myc Expression in Patient-Derived Xenograft Models of Glioblastoma. Cancer Research, 2018, 78, 5408-5418.	0.9	34
48	Magnetic resonance imaging of cancer metabolism with hyperpolarized 13C-labeled cell metabolites. Current Opinion in Chemical Biology, 2018, 45, 187-194.	6.1	40
49	[¹⁸F]fluoroethyltyrosine-induced Cerenkov Luminescence Improves Image-Guided Surgical Resection of Glioma. Theranostics, 2018, 8, 3991-4002.	10.0	19
50	Single shot threeâ€dimensional pulse sequence for hyperpolarized ¹³C MRI. Magnetic Resonance in Medicine, 2017, 77, 740-752.	3.0	30
51	Rapid Imaging of Tumor Cell Death In Vivo Using the C2A Domain of Synaptotagmin-I. Journal of Nuclear Medicine, 2017, 58, 881-887.	5.0	24
52	Frontispiece: Siteâ€Selective Modification of Proteins with Oxetanes. Chemistry - A European Journal, 2017, 23, .	3.3	0
53	Dynamic nuclear polarisation: The future of imaging in oncology?. Porto Biomedical Journal, 2017, 2, 71-75.	1.0	5
54	MRI measurements of reporter-mediated increases in transmembrane water exchange enable detection of a gene reporter. Nature Biotechnology, 2017, 35, 75-80.	17.5	63

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55	Assessing Oxidative Stress in Tumors by Measuring the Rate of Hyperpolarized [1-13C]Dehydroascorbic Acid Reduction Using 13C Magnetic Resonance Spectroscopy. Journal of Biological Chemistry, 2017, 292, 1737-1748.	3.4	32
56	Optoacoustic Detection of Early Therapy-Induced Tumor Cell Death Using a Targeted Imaging Agent. Clinical Cancer Research, 2017, 23, 6893-6903.	7.0	25
57	Analysis of heterogeneity in T2-weighted MR images can differentiate pseudoprogression from progression in glioblastoma. PLoS ONE, 2017, 12, e0176528.	2.5	34
58	Brain Tumor Imaging. Journal of Clinical Oncology, 2017, 35, 2432-2438.	1.6	53
59	Potential Clinical Roles for Metabolic Imaging with Hyperpolarized [1-13C]Pyruvate. Frontiers in Oncology, 2016, 6, 59.	2.8	49
60	Imaging Glycosylation In Vivo by Metabolic Labeling and Magnetic Resonance Imaging. Angewandte Chemie - International Edition, 2016, 55, 1286-1290.	13.8	26
61	Imaging Glycosylation In Vivo by Metabolic Labeling and Magnetic Resonance Imaging. Angewandte Chemie, 2016, 128, 1308-1312.	2.0	8
62	³¹P magnetization transfer measurements of P_iâ†'ATP flux in exercising human muscle. Journal of Applied Physiology, 2016, 120, 649-656.	2.5	12
63	RÃ¼cktitelbild: Imaging Glycosylation In Vivo by Metabolic Labeling and Magnetic Resonance Imaging (Angew. Chem. 4/2016). Angewandte Chemie, 2016, 128, 1592-1592.	2.0	0
64	Imaging Tumor Metabolism to Assess Disease Progression and Treatment Response. Clinical Cancer Research, 2016, 22, 5196-5203.	7.0	15
65	Design and validation of a near-infrared fluorescence endoscope for detection of early esophageal malignancy. Journal of Biomedical Optics, 2016, 21, 084001.	2.6	23
66	¹³ C magnetic resonance spectroscopy measurements with hyperpolarized [1â€•¹³ C] pyruvate can be used to detect the expression of transgenic pyruvate decarboxylase activity in vivo. Magnetic Resonance in Medicine, 2016, 76, 391-401.	3.0	8
67	A comparison of quantitative methods for clinical imaging with hyperpolarized ¹³Câ€pyruvate. NMR in Biomedicine, 2016, 29, 387-399.	2.8	83
68	Following Metabolism in Living Microorganisms by Hyperpolarized ¹H NMR. Journal of the American Chemical Society, 2016, 138, 12278-12286.	13.7	18
69	Effects of fasting on serial measurements of hyperpolarized [1â€•¹³ C]pyruvate metabolism in tumors. NMR in Biomedicine, 2016, 29, 1048-1055.	2.8	18
70	Development of Timd2 as a reporter gene for MRI. Magnetic Resonance in Medicine, 2016, 75, 1697-1707.	3.0	26
71	MRI with hyperpolarised [1-¹³C]pyruvate detects advanced pancreatic preneoplasia prior to invasive disease in a mouse model. Gut, 2016, 65, 465-475.	12.1	71
72	¹³ C magnetic resonance spectroscopic imaging of hyperpolarized [1â€•¹³ C, Uâ€•² H ₅] ethanol oxidation can be used to assess aldehyde dehydrogenase activity in vivo. Magnetic Resonance in Medicine, 2015, 73, 1733-1740.	3.0	21

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73	Detection of transgene expression using hyperpolarized ¹³C urea and diffusionâ€weighted magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 2015, 73, 1401-1406.	3.0	31
74	Carbonic Anhydrase Activity Monitored In Vivo by Hyperpolarized 13C-Magnetic Resonance Spectroscopy Demonstrates Its Importance for pH Regulation in Tumors. Cancer Research, 2015, 75, 4109-4118.	0.9	40
75	Imaging Metabolism with Hyperpolarized ¹³C-Labeled Cell Substrates. Journal of the American Chemical Society, 2015, 137, 6418-6427.	13.7	171
76	Imaging Tumor Metabolism Using Positron Emission Tomography. Cancer Journal (Sudbury, Mass), 2015, 21, 129-136.	2.0	41
77	Hyperpolarized [U-²H, U-¹³C]Glucose reports on glycolytic and pentose phosphate pathway activity in EL4 tumors and glycolytic activity in yeast cells. Magnetic Resonance in Medicine, 2015, 74, 1543-1547.	3.0	38
78	The return of metabolism: biochemistry and physiology of the pentose phosphate pathway. Biological Reviews, 2015, 90, 927-963.	10.4	908
79	Amplification of TRIM44: Pairing a Prognostic Target With Potential Therapeutic Strategy. Journal of the National Cancer Institute, 2014, 106, .	6.3	38
80	Versatile and enhanced tumour modelling in mice via somatic cell transduction. Journal of Pathology, 2014, 232, 449-457.	4.5	21
81	Quantitation of a spin polarizationâ€induced nuclear Overhauser effect (SPINOE) between a hyperpolarized 13 Câ€labeled cell metabolite and water protons. Contrast Media and Molecular Imaging, 2014, 9, 182-186.	0.8	13
82	Analysis of image heterogeneity using 2D Minkowski functionals detects tumor responses to treatment. Magnetic Resonance in Medicine, 2014, 71, 402-410.	3.0	46
83	In vivo single-shot 13C spectroscopic imaging of hyperpolarized metabolites by spatiotemporal encoding. Journal of Magnetic Resonance, 2014, 240, 8-15.	2.1	38
84	Dual-modality gene reporter for in vivo imaging. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 415-420.	7.1	91
85	Oatp1 Enhances Bioluminescence by Acting as a Plasma Membrane Transporter for d-luciferin. Molecular Imaging and Biology, 2014, 16, 626-634.	2.6	27
86	Magnetic resonance imaging of tumor glycolysis using hyperpolarized 13C-labeled glucose. Nature Medicine, 2014, 20, 93-97.	30.7	298
87	Late Imaging with [1-¹¹C]Acetate Improves Detection of Tumor Fatty Acid Synthesis with PET. Journal of Nuclear Medicine, 2014, 55, 1144-1149.	5.0	24
88	Imaging Cell Death. Journal of Nuclear Medicine, 2014, 55, 1-4.	5.0	224
89	Clinical Proton MR Spectroscopy in Central Nervous System Disorders. Radiology, 2014, 270, 658-679.	7.3	524
90	Dual-sugar imaging using isonitrile and azido-based click chemistries. Organic and Biomolecular Chemistry, 2013, 11, 7297.	2.8	49

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91	Imaging Cell Surface Glycosylation in Vivo Using â€œDouble Clickâ€•Chemistry. Bioconjugate Chemistry, 2013, 24, 934-941.	3.6	66
92	Metabolic Glycan Imaging by Isonitrileâ€“Tetrazine Click Chemistry. ChemBioChem, 2013, 14, 1063-1067.	2.6	79
93	Imaging Mouse Cancer Models In Vivo Using Reporter Transgenes. Cold Spring Harbor Protocols, 2013, 2013, pdb.top069864.	0.3	29
94	Hyperpolarized singlet lifetimes of pyruvate in human blood and in the mouse. NMR in Biomedicine, 2013, 26, 1696-1704.	2.8	54
95	Spin echo measurements of the extravasation and tumor cell uptake of hyperpolarized [1â€•13 C]lactate and [1â€•13 C]pyruvate. Magnetic Resonance in Medicine, 2013, 70, 1200-1209.	3.0	45
96	Magnetic resonance imaging with hyperpolarized [1,4- ¹³ C ₂]fumarate allows detection of early renal acute tubular necrosis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13374-13379.	7.1	99
97	Hyperpolarized 13C Spectroscopy Detects Early Changes in Tumor Vasculature and Metabolism after VEGF Neutralization. Cancer Research, 2012, 72, 854-864.	0.9	73
98	Molecular imaging using fluorescent lectins permits rapid endoscopic identification of dysplasia in Barrett's esophagus. Nature Medicine, 2012, 18, 315-321.	30.7	285
99	Direct Enhancement of Nuclear Singlet Order by Dynamic Nuclear Polarization. Journal of the American Chemical Society, 2012, 134, 7668-7671.	13.7	94
100	Probing Lactate Dehydrogenase Activity in Tumors by Measuring Hydrogen/Deuterium Exchange in Hyperpolarized <scp>l</scp>-[1-¹³C,U-²H]Lactate. Journal of the American Chemical Society, 2012, 134, 4969-4977.	13.7	49
101	Analysis of Cancer Metabolism by Imaging Hyperpolarized Nuclei: Prospects for Translation to Clinical Research. Neoplasia, 2011, 13, 81-97.	5.3	623
102	Hyperpolarized [1-¹³C]-Ascorbic and Dehydroascorbic Acid: Vitamin C as a Probe for Imaging Redox Status in Vivo. Journal of the American Chemical Society, 2011, 133, 11795-11801.	13.7	177
103	Development and evaluation of new cyclooctynes for cell surface glycan imaging in cancer cells. Chemical Science, 2011, 2, 932.	7.4	71
104	Detecting response of rat C6 glioma tumors to radiotherapy using hyperpolarized [1â€‹¹³C]pyruvate and ¹³C magnetic resonance spectroscopic imaging. Magnetic Resonance in Medicine, 2011, 65, 557-563.	3.0	152
105	Detection of tumor glutamate metabolism in vivo using ¹³C magnetic resonance spectroscopy and hyperpolarized [1â€‹¹³C]glutamate. Magnetic Resonance in Medicine, 2011, 66, 18-23.	3.0	55
106	Tumor imaging using hyperpolarized ¹³C magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 2011, 66, 505-519.	3.0	229
107	Imaging <scp>pH</scp> with hyperpolarized ¹³C. NMR in Biomedicine, 2011, 24, 1006-1015.	2.8	93
108	Kinetic Modeling of Hyperpolarized 13C Label Exchange between Pyruvate and Lactate in Tumor Cells. Journal of Biological Chemistry, 2011, 286, 24572-24580.	3.4	133

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109	Hyperpolarized ¹³C MRI and PET: In Vivo Tumor Biochemistry. Journal of Nuclear Medicine, 2011, 52, 1333-1336.	5.0	52
110	Imaging sialylated tumor cell glycans in vivo. FASEB Journal, 2011, 25, 2528-2537.	0.5	80
111	Magnetization transfer measurements of exchange between hyperpolarized [1-¹³C]pyruvate and [1-¹³C]lactate in a murine lymphoma. Magnetic Resonance in Medicine, 2010, 63, 872-880.	3.0	107
112	Detection of Tumor Response to a Vascular Disrupting Agent by Hyperpolarized 13C Magnetic Resonance Spectroscopy. Molecular Cancer Therapeutics, 2010, 9, 3278-3288.	4.1	66
113	Imaging tumour cell metabolism using hyperpolarized 13C magnetic resonance spectroscopy. Biochemical Society Transactions, 2010, 38, 1220-1224.	3.4	40
114	Comparison of the C2A Domain of Synaptotagmin-I and Annexin-V As Probes for Detecting Cell Death. Bioconjugate Chemistry, 2010, 21, 884-891.	3.6	57
115	Imaging and â€˜omicâ€™ methods for the molecular diagnosis of cancer. Expert Review of Molecular Diagnostics, 2010, 10, 417-434.	3.1	22
116	Production of hyperpolarized [1,4- ¹³ C ₂]malate from [1,4- ¹³ C ₂]fumarate is a marker of cell necrosis and treatment response in tumors. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19801-19806.	7.1	328
117	Characterization of image heterogeneity using 2D Minkowski functionals increases the sensitivity of detection of a targeted MRI contrast agent. Magnetic Resonance in Medicine, 2009, 61, 1218-1224.	3.0	21
118	Biomedical applications of hyperpolarized 13C magnetic resonance imaging. Progress in Nuclear Magnetic Resonance Spectroscopy, 2009, 55, 285-295.	7.5	121
119	A Comparison between Radiolabeled Fluorodeoxyglucose Uptake and Hyperpolarized 13C-Labeled Pyruvate Utilization as Methods for Detecting Tumor Response to Treatment. Neoplasia, 2009, 11, 574-IN11.	5.3	104
120	¹³C MR spectroscopy measurements of glutaminase activity in human hepatocellular carcinoma cells using hyperpolarized ¹³Câ€labeled glutamine. Magnetic Resonance in Medicine, 2008, 60, 253-257.	3.0	148
121	Magnetic resonance imaging of pH in vivo using hyperpolarized 13C-labelled bicarbonate. Nature, 2008, 453, 940-943.	27.8	796
122	New approaches for imaging tumour responses to treatment. Nature Reviews Cancer, 2008, 8, 94-107.	28.4	413
123	Detection of Cell Death in Tumors by Using MR Imaging and a Gadolinium-based Targeted Contrast Agent. Radiology, 2008, 246, 854-862.	7.3	78
124	SPECT imaging of myocardial infarction using 99mTc-labeled C2A domain of synaptotagmin I in a porcine ischemiaâ€“reperfusion model. Nuclear Medicine and Biology, 2007, 34, 917-923.	0.6	23
125	A Paramagnetic Nanoprobe To Detect Tumor Cell Death Using Magnetic Resonance Imaging. Nano Letters, 2007, 7, 1419-1423.	9.1	29
126	Detecting tumor response to treatment using hyperpolarized 13C magnetic resonance imaging and spectroscopy. Nature Medicine, 2007, 13, 1382-1387.	30.7	825

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127	Assessing responses to cancer therapy using molecular imaging. Biochimica Et Biophysica Acta: Reviews on Cancer, 2006, 1766, 242-261.	7.4	61
128	Apoptosis detection using magnetic resonance imaging and spectroscopy. Progress in Nuclear Magnetic Resonance Spectroscopy, 2005, 47, 175-185.	7.5	31
129	1H MRS-visible lipids accumulate during apoptosis of lymphoma cells in vitro and in vivo. Magnetic Resonance in Medicine, 2005, 54, 43-50.	3.0	65
130	Tumor Cell-Derived Nitric Oxide Is Involved in the Immune-Rejection of an Immunogenic Murine Lymphoma. Cancer Research, 2004, 64, 152-161.	0.9	23
131	Detection of Apoptosis Using the C2A Domain of Synaptotagmin I. Bioconjugate Chemistry, 2004, 15, 983-987.	3.6	72
132	Metabolomics: Pandora's Box or Aladdin's Cave?. Biochemist, 2003, 25, 15-17.	0.5	12
133	Artifactual uncoupling by uncoupling protein 3 in yeast mitochondria at the concentrations found in mouse and rat skeletal-muscle mitochondria. Biochemical Journal, 2002, 361, 49-56.	3.7	107
134	Detection of apoptosis in tumors using magnetic resonance imaging and spectroscopy. Advances in Enzyme Regulation, 2002, 42, 101-112.	2.6	25
135	A functional genomics strategy that uses metabolome data to reveal the phenotype of silent mutations. Nature Biotechnology, 2001, 19, 45-50.	17.5	948
136	Measurement of bioreactor perfusion using dynamic contrast agent-enhanced magnetic resonance imaging. Biotechnology and Bioengineering, 2001, 75, 682-690.	3.3	24
137	Non-invasive detection of apoptosis using magnetic resonance imaging and a targeted contrast agent. Nature Medicine, 2001, 7, 1241-1244.	30.7	513
138	The significance and mechanism of mitochondrial proton conductance. International Journal of Obesity, 1999, 23, S4-S11.	3.4	127
139	Mitochondrial proton leak and the uncoupling proteins. Journal of Bioenergetics and Biomembranes, 1999, 31, 517-524.	2.3	68
140	Analysis of CHO-K1 cell growth in a fixed bed bioreactor using magnetic resonance spectroscopy and imaging. , 1999, 30, 121-132.		12
141	Induction of apoptosis in two mammalian cell lines results in increased levels of fructose-1,6-Bisphosphate and CDP-choline as determined by31P MRS. Magnetic Resonance in Medicine, 1998, 40, 411-420.	3.0	69
142	Investigating the Performance of Intensive Mammalian Cell Bioreactor Systems Using Magnetic Resonance Imaging and Spectroscopy. Biotechnology and Genetic Engineering Reviews, 1998, 15, 499-520.	6.2	11
143	Studies of metabolic control using NMR and molecular genetics. Journal of Molecular Recognition, 1997, 10, 182-187.	2.1	7
144	Mapping of oxygen tension and cell distribution in a hollow-fiber bioreactor using magnetic resonance imaging. , 1997, 56, 56-61.		26

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145	Mapping of oxygen tension and cell distribution in a hollowâ€fiber bioreactor using magnetic resonance imaging. Biotechnology and Bioengineering, 1997, 56, 56-61.	3.3	1
146	³¹P NMR measurements of the effects of unsaturated fatty acids on cellular phospholipid metabolism. Magnetic Resonance in Medicine, 1996, 35, 481-488.	3.0	10
147	Analysis of metabolic controlIn Vivousing molecular genetics. Cell Biochemistry and Function, 1996, 14, 269-276.	2.9	0
148	Enzymologyin vivo using NMR and molecular genetics. Journal of Molecular Recognition, 1993, 6, 159-165.	2.1	4
149	Phosphorus-31 NMR measurements of the ADP concentration in yeast cells genetically modified to express creatine kinase. Biochemistry, 1990, 29, 3295-3302.	2.5	27
150	NMR methods for measuring enzyme kinetics in vivo. Progress in Nuclear Magnetic Resonance Spectroscopy, 1988, 20, 257-293.	7.5	89
151	Spin echo proton NMR studies of the metabolism of malate and fumarate in human erythrocytes. Biochimica Et Biophysica Acta - Molecular Cell Research, 1982, 721, 191-200.	4.1	21