Kevin L Behar

List of Publications by Year
in descending order

160	17,268	10986	14208
papers	citations	71 h-index	128 g-index

162	162	162	11164
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Glucose sparing by glycogenolysis (GSG) determines the relationship between brain metabolism and neurotransmission. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 844-860.	4.3	24
2	Rates of pyruvate carboxylase, glutamate and GABA neurotransmitter cycling, and glucose oxidation in multiple brain regions of the awake rat using a combination of [2-¹³C]/[1-¹³C]glucose infusion and¹H-[¹³C]NMRex vivo. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 1507-1523.	4.3	11
3	Human brain functional MRS reveals interplay of metabolites implicated in neurotransmission and neuroenergetics. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 911-934.	4.3	16
4	Cell-type specific modulation of NMDA receptors triggers antidepressant actions. Molecular Psychiatry, 2021, 26, 5097-5111.	7.9	48
5	Contribution of macromolecules to brain ¹H MR spectra: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4393.	2.8	92
6	Characterization of Kinetic Isotope Effects and Label Loss in Deuterium-Based Isotopic Labeling Studies. ACS Chemical Neuroscience, 2021, 12, 234-243.	3.5	25
7	Magnetic resonance spectroscopy in the rodent brain: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4325.	2.8	9
8	Methods | 13C MRS Measurements of in Vivo Rates of the Glutamate/Glutamine and GABA/Glutamine Neurotransmitter Cycles. , 2021, , 688-700.		2
9	NMR visibility of deuteriumâ€labeled liver glycogen in vivo. Magnetic Resonance in Medicine, 2021, 86, 62-68.	3.0	22
10	Altered hippocampal astroglial metabolism is associated with aging and preserved spatial learning and memory. Neurobiology of Aging, 2021, 102, 188-199.	3.1	3
11	Metabolic underpinnings of activated and deactivated cortical areas in human brain. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 986-1000.	4.3	16
12	Glutaminase activity in GLS1 Het mouse brain compared to putative pharmacological inhibition by ebselen using ex vivo MRS. Neurochemistry International, 2019, 129, 104508.	3.8	4
13	In vivo ¹³C and ¹Hâ€[¹³C] MRS studies of neuroenergetics and neurotransmitter cycling, applications to neurological and psychiatric disease and brain cancer. NMR in Biomedicine, 2019, 32, e4172.	2.8	34
14	Cellular Origin of [¹⁸F]FDG-PET Imaging Signals During Ceftriaxone-Stimulated Glutamate Uptake: Astrocytes and Neurons. Neuroscientist, 2018, 24, 316-328.	3.5	13
15	2235 15N-Leucine transport across the blood brain barrier is significantly impaired in the glutamine synthetase-inhibited brain. Journal of Clinical and Translational Science, 2018, 2, 1-1.	0.6	0
16	Subanesthetic ketamine reverses neuronal and astroglial metabolic activity deficits in a social defeat model of depression. Journal of Neurochemistry, 2018, 146, 722-734.	3.9	24
17	Deuterium metabolic imaging (DMI) for MRI-based 3D mapping of metabolism in vivo. Science Advances, 2018, 4, eaat7314.	10.3	194
18	Transiently increased glutamate cycling in rat PFC is associated with rapid onset of antidepressant-like effects. Molecular Psychiatry, 2017, 22, 120-126.	7.9	158

#	Article	IF	Citations
19	Impaired Glutamatergic Neurotransmission in the Ventromedial Hypothalamus May Contribute to Defective Counterregulation in Recurrently Hypoglycemic Rats. Diabetes, 2017, 66, 1979-1989.	0.6	21
20	Comparison of Glutamate Turnover in Nerve Terminals and Brain Tissue During [1,6-13C2]Glucose Metabolism in Anesthetized Rats. Neurochemical Research, 2017, 42, 173-190.	3.3	7
21	Detection of cerebral NAD⁺ in humans at 7T. Magnetic Resonance in Medicine, 2017, 78, 828-835.	3.0	38
22	â€œWhat to eat or what not to eatâ€”that is still the questionâ€• Reply. Neuro-Oncology, 2017, 19, 596-597.	1.2	1
23	A ketogenic diet increases transport and oxidation of ketone bodies in RG2 and 9L gliomas without affecting tumor growth. Neuro-Oncology, 2016, 18, 1079-1087.	1.2	72
24	Distribution of temperature changes and neurovascular coupling in rat brain following 3,4-methylenedioxymethamphetamine (MDMA, â€œecstasyâ€) exposure. NMR in Biomedicine, 2015, 28, 1257-1266.	2.8	14
25	Effects of Î³â€Aminobutyric acid transporter 1 inhibition by tiagabine on brain glutamate and Î³â€Aminobutyric acid metabolism in the anesthetized rat In vivo. Journal of Neuroscience Research, 2015, 93, 1101-1108.	2.9	16
26	Magnetic Resonance Spectroscopy in Neuroenergetics and Neurotransmission. , 2014, , 274-288.		0
27	Detection of cerebral NAD⁺ by in vivo¹H NMR spectroscopy. NMR in Biomedicine, 2014, 27, 802-809.	2.8	47
28	Characterization of Cerebral Glutamine Uptake from Blood in the Mouse Brain: Implications for Metabolic Modeling of ¹³C NMR Data. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1666-1672.	4.3	31
29	Direct evidence for activity-dependent glucose phosphorylation in neurons with implications for the astrocyte-to-neuron lactate shuttle. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5385-5390.	7.1	160
30	The Contribution of Ketone Bodies to Basal and Activity-Dependent Neuronal Oxidation in Vivo. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1233-1242.	4.3	75
31	Quantification of High-Resolution ¹H-[¹³C] NMR Spectra from Rat Brain Extracts. Analytical Chemistry, 2014, 86, 5032-5038.	6.5	24
32	Compartmental Analysis of Metabolism by 13C Magnetic Resonance Spectroscopy. Neuromethods, 2014, , 293-339.	0.3	1
33	In vivo MRS and histochemistry of status epilepticusâ€induced hippocampal pathology in a juvenile model of temporal lobe epilepsy. NMR in Biomedicine, 2013, 26, 132-140.	2.8	12
34	Functional MRI and neural responses in a rat model of Alzheimer's disease. NeuroImage, 2013, 79, 404-411.	4.2	29
35	Metabolic products of [2â€¹³C]ethanol in the rat brain after chronic ethanol exposure. Journal of Neurochemistry, 2013, 127, 353-364.	3.9	14
36	Oxidation of ethanol in the rat brain and effects associated with chronic ethanol exposure. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14444-14449.	7.1	41

#	Article	IF	Citations
37	Lactate preserves neuronal metabolism and function following antecedent recurrent hypoglycemia. Journal of Clinical Investigation, 2013, 123, 1988-1998.	8.2	80
38	Roles of Glutamine Synthetase Inhibition in Epilepsy. Neurochemical Research, 2012, 37, 2339-2350.	3.3	57
39	Intravenous Ethanol Infusion Decreases Human Cortical Î³-Aminobutyric Acid and N-Acetylaspartate as Measured with Proton Magnetic Resonance Spectroscopy at 4 Tesla. Biological Psychiatry, 2012, 71, 239-246.	1.3	74
40	1H-[13C]-Nuclear Magnetic Resonance Spectroscopy Measures of Ketamine's Effect on Amino Acid Neurotransmitter Metabolism. Biological Psychiatry, 2012, 71, 1022-1025.	1.3	114
41	Is there In Vivo Evidence for Amino Acid Shuttles Carrying Ammonia from Neurons to Astrocytes?. Neurochemical Research, 2012, 37, 2597-2612.	3.3	53
42	Glioblastoma: Current Chemotherapeutic Status and Need for New Targets and Approaches. , 2011, , .		2
43	Quantification of High-Resolution¹H NMR Spectra from Rat Brain Extracts. Analytical Chemistry, 2011, 83, 216-224.	6.5	49
44	State of the art direct ¹³C and indirect ¹Hâ€[¹³C] NMR spectroscopy in vivo. A practical guide. NMR in Biomedicine, 2011, 24, 958-972.	2.8	101
45	¹³C MRS studies of neuroenergetics and neurotransmitter cycling in humans. NMR in Biomedicine, 2011, 24, 943-957.	2.8	249
46	Cortical Substrate Oxidation during Hyperketonemia in the Fasted Anesthetized Rat in Vivo. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 2313-2323.	4.3	28
47	In vivo neurochemical profiling of rat brain by ¹Hâ€[¹³C] NMR spectroscopy: cerebral energetics and glutamatergic/GABAergic neurotransmission. Journal of Neurochemistry, 2010, 112, 24-33.	3.9	41
48	Altered Brain Mitochondrial Metabolism in Healthy Aging as Assessed by in vivo Magnetic Resonance Spectroscopy. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 211-221.	4.3	223
49	Evaluation of Cerebral Acetate Transport and Metabolic Rates in the Rat Brain in vivo Using ¹H-[¹³C]-NMR. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 1200-1213.	4.3	78
50	Glial pathology in an animal model of depression: reversal of stress-induced cellular, metabolic and behavioral deficits by the glutamate-modulating drug riluzole. Molecular Psychiatry, 2010, 15, 501-511.	7.9	384
51	Neurovascular and neurometabolic couplings in dynamic calibrated fMRI: transient oxidative neuroenergetics for block-design and event-related paradigms. Frontiers in Neuroenergetics, 2010, 2, .	5.3	31
52	The Contribution of Blood Lactate to Brain Energy Metabolism in Humans Measured by Dynamic¹³C Nuclear Magnetic Resonance Spectroscopy. Journal of Neuroscience, 2010, 30, 13983-13991.	3.6	279
53	Recurrent Antecedent Hypoglycemia Alters Neuronal Oxidative Metabolism In Vivo. Diabetes, 2009, 58, 1266-1274.	0.6	38
54	Concentration-Dependent Effects on Intracellular and Surface pH of Exposing Xenopus oocytes to Solutions Containing NH3/NH4 +. Journal of Membrane Biology, 2009, 228, 15-31.	2.1	32

#	Article	IF	Citations
55	Determination of the Glutamateâ€"Glutamine Cycling Flux Using Two-Compartment Dynamic Metabolic Modeling is Sensitive to Astroglial Dilution. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 108-118.	4.3	29
56	In situ 3D magnetic resonance metabolic imaging of microwaveâ€irradiated rodent brain: a new tool for metabolomics research. Journal of Neurochemistry, 2009, 109, 494-501.	3.9	40
57	Natural abundance 17O NMR spectroscopy of rat brain in vivo. Journal of Magnetic Resonance, 2008, 193, 63-67.	2.1	20
58	Chronic Riluzole Treatment Increases Glucose Metabolism in Rat Prefrontal Cortex and Hippocampus. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 1892-1897.	4.3	42
59	Effects of continuous hypoxia on energy metabolism in cultured cerebro-cortical neurons. Brain Research, 2008, 1229, 147-154.	2.2	29
60	High resolution NMR spectroscopy of rat brain in vivo through indirect zero-quantum-coherence detection. Journal of Magnetic Resonance, 2007, 187, 320-326.	2.1	30
61	Glutamatergic and GABAergic Neurotransmitter Cycling and Energy Metabolism in Rat Cerebral Cortex during Postnatal Development. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1895-1907.	4.3	75
62	Altered cerebral glucose and acetate metabolism in succinic semialdehyde dehydrogenaseâ€deficient mice: evidence for glial dysfunction and reduced glutamate/glutamine cycling. Journal of Neurochemistry, 2007, 103, 2077-2091.	3.9	52
63	Lamotrigine suppresses neurophysiological responses to somatosensory stimulation in the rodent. NeuroImage, 2006, 29, 216-224.	4.2	45
64	Acute regulation of steady-state GABA levels following GABA-transaminase inhibition in rat cerebral cortex. Neurochemistry International, 2006, 48, 508-514.	3.8	40
65	Evidence that GAD65mediates increased GABA synthesis during intense neuronal activityinâ€ƒvivo. Journal of Neurochemistry, 2006, 97, 385-396.	3.9	107
66	Differential Glutamate Dehydrogenase (GDH) Activity Profile in Patients with Temporal Lobe Epilepsy. Epilepsia, 2006, 47, 1292-1299.	5.1	46
67	Neuronalâ€"Glial Glucose Oxidation and Glutamatergicâ€"GABAergic Function. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 865-877.	4.3	365
68	High magnetic field water and metabolite protonT1 andT2 relaxation in rat brain in vivo. Magnetic Resonance in Medicine, 2006, 56, 386-394.	3.0	271
69	NMR Studies of the Metabolism and Energetics of GABA Neurotransmitter Pathways. , 2005, , 99-110.		0
70	Cerebral pyruvate carboxylase flux is unaltered during bicuculline-seizures. Journal of Neuroscience Research, 2005, 79, 128-138.	2.9	41
71	The contribution of GABA to glutamate/glutamine cycling and energy metabolism in the rat cortex in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5588-5593.	7.1	308
72	Regional Whole Body Fat Quantification in Mice. Lecture Notes in Computer Science, 2005, 19, 369-380.	1.3	12

#	Article	IF	Citations
73	Impaired GABA Neuronal Response to Acute Benzodiazepine Administration in Panic Disorder. American Journal of Psychiatry, 2004, 161, 2186-2193.	7.2	105
74	Regional glucose metabolism and glutamatergic neurotransmission in rat brain in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12700-12705.	7.1	88
75	Family Psychopathology and Magnitude of Reductions in Occipital Cortex GABA Levels in Panic Disorder. Neuropsychopharmacology, 2004, 29, 639-640.	5.4	14
76	Glutamatergic Neurotransmission and Neuronal Glucose Oxidation are Coupled during Intense Neuronal Activation. Journal of Cerebral Blood Flow and Metabolism, 2004, 24, 972-985.	4.3	141
77	Determination of liposomal encapsulation efficiency using proton NMR spectroscopy. Chemistry and Physics of Lipids, 2004, 127, 113-120.	3.2	45
78	Comparing adiposity profiles in three mouse models with altered GH signaling. Growth Hormone and IGF Research, 2004, 14, 309-318.	1.1	244
79	Energetic basis of brain activity: implications for neuroimaging. Trends in Neurosciences, 2004, 27, 489-495.	8.6	511
80	Chronic hypoxia in development selectively alters the activities of key enzymes of glucose oxidative metabolism in brain regions. Neurochemical Research, 2003, 28, 933-940.	3.3	38
81	Coupling of Glutamatergic Neurotransmission and Neuronal Glucose Oxidation over the Entire Range of Cerebral Cortex Activity. Annals of the New York Academy of Sciences, 2003, 1003, 452-453.	3.8	10
82	Detection of [1,6-13C2]-glucose metabolism in rat brain by in vivo1H-[13C]-NMR spectroscopy. Magnetic Resonance in Medicine, 2003, 49, 37-46.	3.0	86
83	Adiabatic RARE imaging. NMR in Biomedicine, 2003, 16, 29-35.	2.8	15
84	In vivo1H-[13C]-NMR spectroscopy of cerebral metabolism. NMR in Biomedicine, 2003, 16, 339-357.	2.8	134
85	In vivo13Câ€ƒNMR measurement of neurotransmitter glutamate cycling, anaplerosis and TCA cycle flux in rat brain during [2-13C]glucose infusion. Journal of Neurochemistry, 2003, 76, 975-989.	3.9	229
86	Quantitative ¹H NMR Spectroscopy of Blood Plasma Metabolites. Analytical Chemistry, 2003, 75, 2100-2104.	6.5	84
87	In vivo NMR Studies of the Glutamate Neurotransmitter Flux and Neuroenergetics: Implications for Brain Function. Annual Review of Physiology, 2003, 65, 401-427.	13.1	310
88	Expression of Drosophila Trehalose-Phosphate Synthase in HEK-293 Cells Increases Hypoxia Tolerance. Journal of Biological Chemistry, 2003, 278, 49113-49118.	3.4	52
89	Dominant Events That Modulate Mass Transfer Coefficient of Oxygen in Cerebral Cortex. Advances in Experimental Medicine and Biology, 2003, 530, 401-411.	1.6	1
90	Mapping Cerebral Glutamate 13C Turnover and Oxygen Consumption by in Vivo NMR. Advances in Experimental Medicine and Biology, 2003, 530, 29-39.	1.6	6

#	Article	IF	Citations
91	Cerebral energetics and spiking frequency: The neurophysiological basis of fMRI. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10765-10770.	7.1	322
92	Continuous-wave near-infrared spectroscopy using pathlength-independent hypoxia normalization. Journal of Biomedical Optics, 2002, 7, 228.	2.6	7
93	Role of Trehalose Phosphate Synthase in Anoxia Tolerance and Development in Drosophila melanogaster. Journal of Biological Chemistry, 2002, 277, 3274-3279.	3.4	152
94	A Neuronal Glutamate Transporter Contributes to Neurotransmitter GABA Synthesis and Epilepsy. Journal of Neuroscience, 2002, 22, 6372-6379.	3.6	237
95	Astroglial Contribution to Brain Energy Metabolism in Humans Revealed by¹³C Nuclear Magnetic Resonance Spectroscopy: Elucidation of the Dominant Pathway for Neurotransmitter Glutamate Repletion and Measurement of Astrocytic Oxidative Metabolism. Journal of Neuroscience, 2002, 22, 1523-1531.	3.6	351
96	In Vivo Nuclear Magnetic Resonance Studies of Glutamate-Î³-Aminobutyric Acid-Glutamine Cycling in Rodent and Human Cortex: the Central Role of Glutamine. Journal of Nutrition, 2001, 131, 2498S-2504S.	2.9	54
97	Reductions in Occipital Cortex GABA Levels in Panic Disorder Detected With 1H-Magnetic Resonance Spectroscopy. Archives of General Psychiatry, 2001, 58, 556.	12.3	222
98	Quantitative functional imaging of the brain: towards mapping neuronal activity by BOLD fMRI. NMR in Biomedicine, 2001, 14, 413-431.	2.8	188
99	Inhibition of Voltage-Dependent Sodium Channels Suppresses the Functional Magnetic Resonance Imaging Response to Forepaw Somatosensory Activation in the Rodent. Journal of Cerebral Blood Flow and Metabolism, 2001, 21, 585-591.	4.3	44
100	Differential increase in cerebral cortical glucose oxidative metabolism during rat postnatal development is greater in vivo than in vitro. Brain Research, 2001, 888, 193-202.	2.2	16
101	Decrease in GABA synthesis rate in rat cortex following GABA-transaminase inhibition correlates with the decrease in GAD67 protein. Brain Research, 2001, 914, 81-91.	2.2	81
102	Glutamine is the major precursor for GABA synthesis in rat neocortex in vivo following acute GABA-transaminase inhibition. Brain Research, 2001, 919, 207-220.	2.2	99
103	AplicaÃ§Ãµes da ressonÃ¢ncia magnÃ©tica para medidas espectroscÃ³picas da neurotransmissÃ£o. Revista Brasileira De Psiquiatria, 2001, 23, 6-10.	1.7	1
104	Dependence of Oxygen Delivery on Blood Flow in Rat Brain: A 7 Tesla Nuclear Magnetic Resonance Study. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 485-498.	4.3	92
105	High-Resolution CMRO2 Mapping in Rat Cortex: A Multiparametric Approach to Calibration of BOLD Image Contrast at 7 Tesla. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 847-860.	4.3	104
106	Human Brain Î²-Hydroxybutyrate and Lactate Increase in Fasting-Induced Ketosis. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 1502-1507.	4.3	128
107	Brain regional development of the activity of Î±-ketoglutarate dehydrogenase complex in the rat. Developmental Brain Research, 2000, 125, 139-145.	1.7	17
108	Reduced Cortical Î³-Aminobutyric Acid Levels in Depressed Patients Determined by Proton Magnetic Resonance Spectroscopy. Archives of General Psychiatry, 1999, 56, 1043.	12.3	547

#	Article	IF	Citations
109	Determination of the rate of the glutamate/glutamine cycle in the human brain by in vivo ¹³ C NMR. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 8235-8240.	7.1	432
110	Hexokinase in astrocytes: kinetic and regulatory properties. Metabolic Brain Disease, 1999, 14, 125-133.	2.9	17
111	Effects of valproate and other antiepileptic drugs on brain glutamate, glutamine, and GABA in patients with refractory complex partial seizures. Seizure: the Journal of the British Epilepsy Association, 1999, 8, 120-127.	2.0	68
112	In vivo nuclear magnetic resonance spectroscopy studies of the relationship between the glutamate–glutamine neurotransmitter cycle and functional neuroenergetics. Philosophical Transactions of the Royal Society B: Biological Sciences, 1999, 354, 1165-1177.	4.0	201
113	Preliminary Evidence of Low Cortical GABA Levels in Localized¹H-MR Spectra of Alcohol-Dependent and Hepatic Encephalopathy Patients. American Journal of Psychiatry, 1999, 156, 952-954.	7.2	146
114	Toward Absolute Quantitation of Bold Functional MRI. Advances in Experimental Medicine and Biology, 1999, 471, 681-689.	1.6	17
115	Vigabatrin increases human brain homocarnosine and improves seizure control. Annals of Neurology, 1998, 44, 948-952.	5.3	60
116	Changes in N-acetylaspartate and myo-inositol detected in the cerebral cortex of hamsters with Creutzfeldt-Jakob disease. Magnetic Resonance Imaging, 1998, 16, 963-968.	1.8	23
117	Functional Energy Metabolism:In vivo ¹³C-NMR Spectroscopy Evidence for Coupling of Cerebral Glucose Consumption and Gl utamatergic Neuronal Activity. Developmental Neuroscience, 1998, 20, 321-330.	2.0	86
118	¹⁵N-NMR Spectroscopy Studies of Ammonia Transport and Glutamine Synthesis in the Hyperammonemic Rat Brain. Developmental Neuroscience, 1998, 20, 434-443.	2.0	63
119	Stoichiometric coupling of brain glucose metabolism and glutamatergic neuronalâ€‰activity. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 316-321.	7.1	798
120	Mapping Glutamatergic Activity: Stoichiometric Coupling of Brain Glucose Metabolism and Neurotransmitter Glutamate Cycling. NeuroImage, 1998, 7, S287.	4.2	3
121	In vivo 13C NMR measurements of cerebral glutamine synthesis as evidence for glutamate-glutamine cycling. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 2699-2704.	7.1	323
122	Oxidative Glucose Metabolism in Rat Brain during Single Forepaw Stimulation: A Spatially Localized 1H[13C] Nuclear Magnetic Resonance Study. Journal of Cerebral Blood Flow and Metabolism, 1997, 17, 1040-1047.	4.3	122
123	Homocarnosine and the measurement of neuronal pH in patients with epilepsy. Magnetic Resonance in Medicine, 1997, 38, 924-929.	3.0	100
124	Increased tricarboxylic acid cycle flux in rat brain during forepaw stimulation detected with 1H[13C]NMR.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 7612-7617.	7.1	185
125	The13C isotope and nuclear magnetic resonance: unique tools for the study of brain metabolism. Metabolic Brain Disease, 1996, 11, 283-313.	2.9	11
126	The rate of turnover of cortical GABA from [1-13C]glucose is reduced in rats treated with the GABA-transaminase inhibitor vigabatrin (Î³-vinyl GABA). Neurochemical Research, 1996, 21, 1031-1041.	3.3	61

#	Article	IF	Citations
127	Short echo time proton magnetic resonance spectroscopic imaging of macromolecule and metabolite signal intensities in the human brain. Magnetic Resonance in Medicine, 1996, 35, 633-639.	3.0	92
128	The effect of gabapentin on brain gammaâ€aminobutyric acid in patients with epilepsy. Annals of Neurology, 1996, 39, 95-99.	5.3	289
129	Low brain GABA level is associated with poor seizure control. Annals of Neurology, 1996, 40, 908-911.	5.3	138
130	Human Brain Î³â€Aminobutyric Acid Levels and Seizure Control Following Initiation of Vigabatrin Therapy. Journal of Neurochemistry, 1996, 67, 2399-2404.	3.9	76
131	Initial Observations on Effect of Vigabatrin on In Vivo 1H Spectroscopic Measurements of gamma-Aminobutyric Acid, Glutamate, and Glutamine in Human Brain. Epilepsia, 1995, 36, 457-464.	5.1	111
132	Simultaneous Determination of the Rates of the TCA Cycle, Glucose Utilization, Î±-Ketoglutarate/Glutamate Exchange, and Glutamine Synthesis in Human Brain by NMR. Journal of Cerebral Blood Flow and Metabolism, 1995, 15, 12-25.	4.3	307
133	Measurement of GABA following GABA-transaminase inhibition by gabaculine: A1H and31P NMR spectroscopic study of rat brainin vivo. Magnetic Resonance in Medicine, 1994, 31, 660-667.	3.0	40
134	Analysis of macromolecule resonances in1H NMR spectra of human brain. Magnetic Resonance in Medicine, 1994, 32, 294-302.	3.0	468
135	Dynamic Magnetic Resonance Imaging of the Rat Brain during Forepaw Stimulation. Journal of Cerebral Blood Flow and Metabolism, 1994, 14, 649-655.	4.3	156
136	Vigabatrin: Effects on Human Brain GABA Levels by Nuclear Magnetic Resonance Spectroscopy. Epilepsia, 1994, 35, S29-32.	5.1	65
137	Characterization of macromolecule resonances in the1H NMR spectrum of rat brain. Magnetic Resonance in Medicine, 1993, 30, 38-44.	3.0	204
138	Localized 1H NMR measurements of gamma-aminobutyric acid in human brain in vivo.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 5662-5666.	7.1	495
139	Glycolysis-Citric Acid Cycle Interrelation: A New Approach and Some Insights in Cellular and Subcellular Compartmentation. Developmental Neuroscience, 1993, 15, 181-193.	2.0	10
140	Rat Brain Glucose Concentration and Transport Kinetics Determined with 13C Nuclear Magnetic Resonance Spectroscopy. Advances in Experimental Medicine and Biology, 1993, 331, 29-34.	1.6	4
141	Cerebral Metabolic Studies in vivo by Combined 1H/31P and 1H/13C NMR Spectroscopic Methods. , 1993, 57, 9-20.		1
142	NMR Determination of the TCA Cycle Rate and Î±-Ketoglutarate/Glutamate Exchange Rate in Rat Brain. Journal of Cerebral Blood Flow and Metabolism, 1992, 12, 434-447.	4.3	249
143	NMR Determination of Intracerebral Glucose Concentration and Transport Kinetics in Rat Brain. Journal of Cerebral Blood Flow and Metabolism, 1992, 12, 448-455.	4.3	106
144	Assignment of resonances in the1H spectrum of rat brain by two-dimensional shift correlated andj-resolved NMR spectroscopy. Magnetic Resonance in Medicine, 1991, 17, 285-303.	3.0	168

#	Article	IF	Citations
145	The Flux from Glucose to Glutamate in the Rat Brain in vivo as Determined by ¹-Observed, ¹³C-Edited NMR Spectroscopy. Journal of Cerebral Blood Flow and Metabolism, 1990, 10, 170-179.	4.3	259
146	Effects of Acute Hyperammonemia on Cerebral Amino Acid Metabolism and pHiln Vivo, Measured by1H and31P Nuclear Magnetic Resonance. Journal of Neurochemistry, 1989, 52, 741-749.	3.9	98
147	NMR Spectroscopic Investigation of the Recovery of Energy and Acidâ€"Base Homeostasis in the Cat Brain after Prolonged Ischemia. Journal of Cerebral Blood Flow and Metabolism, 1989, 9, 655-665.	4.3	65
148	In Vivo NMR Spectroscopy Studies of Cerebral Metabolism in Rats after Portal-Caval Shunting.. , 1989, , 177-187.		5
149	Combined H and31P NMR Studies of the Rat Brain in Vivo: Effects of Altered Intracellular pH on Metabolisma. Annals of the New York Academy of Sciences, 1987, 508, 81-88.	3.8	8
150	Detection of metabolites in rabbit brain by13C NMR spectroscopy following administration of [1-13C]glucose. Magnetic Resonance in Medicine, 1986, 3, 911-920.	3.0	104
151	1H-Observe/13C-decouple spectroscopic measurements of lactate and glutamate in the rat brain in vivo.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 1633-1637.	7.1	221
152	Effect of Hypoglycemic Encephalopathy upon Amino Acids, High-Energy Phosphates, and pHiin the Rat Brain In Vivo: Detection by Sequential1H and31P NMR Spectroscopy. Journal of Neurochemistry, 1985, 44, 1045-1055.	3.9	165
153	Application of multipulse NMR to observe13C-labeled metabolites in biological systems. Magnetic Resonance in Medicine, 1985, 2, 56-64.	3.0	18
154	In vivo phosphorus nuclear magnetic resonance spectroscopy in status epilepticus. Annals of Neurology, 1984, 16, 169-177.	5.3	119
155	Homonuclear 1H double-resonance difference spectroscopy of the rat brain in vivo.. Proceedings of the National Academy of Sciences of the United States of America, 1984, 81, 6330-6334.	7.1	212
156	Detection of cerebral lactate in vivo during hypoxemia by 1H NMR at relatively low field strengths (1.9) Tj ETQq0 0 0 rgBT /Overlock 10 T	7.1	71
157	High-resolution 1H nuclear magnetic resonance study of cerebral hypoxia in vivo.. Proceedings of the National Academy of Sciences of the United States of America, 1983, 80, 4945-4948.	7.1	282
158	Cerebral metabolic studies in vivo by 31P NMR.. Proceedings of the National Academy of Sciences of the United States of America, 1983, 80, 2748-2751.	7.1	172
159	In vivo carbon-13 nuclear magnetic resonance studies of mammals. Science, 1981, 214, 660-662.	12.6	177
160	13C NMR study of transamination during acetate utilization by Saccharomyces cerevisiae.. Proceedings of the National Academy of Sciences of the United States of America, 1981, 78, 2693-2697.	7.1	57