

Hongxia Lei

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.

46
papers

1,299
citations

19
h-index

35
g-index

46
ext. papers

1,503
ext. citations

5.1
avg, IF

4.32
L-index

#	Paper	IF	Citations
46	Excitatory/inhibitory neuronal metabolic balance in mouse hippocampus upon infusion of [U-C]glucose. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 41, 282-297	7.3	2
45	Contribution of macromolecules to brain H MR spectra: Experts consensus recommendations. <i>NMR in Biomedicine</i> , 2021 , 34, e4393	4.4	39
44	In Vivo Metabolism of [1,6-C]Glucose Reveals Distinct Neuroenergetic Functionality between Mouse Hippocampus and Hypothalamus. <i>Metabolites</i> , 2021 , 11,	5.6	1
43	Extended preclinical investigation of lactate for neuroprotection after ischemic stroke. <i>Clinical and Translational Neuroscience</i> , 2020 , 4, 2514183X2090457	0.9	5
42	Diffusion behavior of cerebral metabolites of congenital portal systemic shunt mice assessed noninvasively by diffusion-weighted H magnetic resonance spectroscopy. <i>NMR in Biomedicine</i> , 2020 , 33, e4198	4.4	
41	Metabolic fingerprints discriminating severity of acute ischemia using in vivo high-field H magnetic resonance spectroscopy. <i>Journal of Neurochemistry</i> , 2020 , 152, 252-262	6	
40	Metabolic and perfusion responses to acute hypoglycemia in the rat cortex: A non-invasive magnetic resonance approach. <i>Journal of Neurochemistry</i> , 2020 , 154, 71-83	6	0
39	Feasibility of neurochemically profiling mouse embryonic brain and its development in utero using H MRS at 14.1T. <i>NMR in Biomedicine</i> , 2019 , 32, e4163	4.4	
38	Mild Neonatal Brain Hypoxia-Ischemia in Very Immature Rats Causes Long-Term Behavioral and Cerebellar Abnormalities at Adulthood. <i>Frontiers in Physiology</i> , 2019 , 10, 634	4.6	8
37	Glucose transporter 2 mediates the hypoglycemia-induced increase in cerebral blood flow. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019 , 39, 1725-1736	7.3	2
36	Evolution of the neurochemical profiles in the G93A-SOD1 mouse model of amyotrophic lateral sclerosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019 , 39, 1283-1298	7.3	14
35	Feasibility of in vivo measurement of glucose metabolism in the mouse hypothalamus by H- [C] MRS at 14.1T. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 874-884	4.4	8
34	Non-invasive diagnosis and metabolic consequences of congenital portosystemic shunts in C57BL/6 mice. <i>NMR in Biomedicine</i> , 2018 , 31, e3873	4.4	5
33	Technical and experimental features of Magnetic Resonance Spectroscopy of brain glycogen metabolism. <i>Analytical Biochemistry</i> , 2017 , 529, 117-126	3.1	5
32	Hierarchical Status Predicts Behavioral Vulnerability and Nucleus Accumbens Metabolic Profile Following Chronic Social Defeat Stress. <i>Current Biology</i> , 2017 , 27, 2202-2210.e4	6.3	104
31	Sexual dimorphism in hepatic lipids is associated with the evolution of metabolic status in mice. <i>NMR in Biomedicine</i> , 2017 , 30, e3761	4.4	5
30	Early detection of human glioma sphere xenografts in mouse brain using diffusion MRI at 14.1 T. <i>NMR in Biomedicine</i> , 2016 , 29, 1577-1589	4.4	7

29	Assessment of metabolic fluxes in the mouse brain in vivo using ^1H - ^{13}C NMR spectroscopy at 14.1 Tesla. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 759-65	7.3	21
28	Direct noninvasive estimation of myocardial tricarboxylic acid cycle flux in vivo using hyperpolarized ^{13}C magnetic resonance. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 87, 129-37	5.8	26
27	Characterization of hepatic fatty acids in mice with reduced liver fat by ultra-short echo time (1)H-MRS at 14.1 T in vivo. <i>NMR in Biomedicine</i> , 2015 , 28, 1009-20	4.4	8
26	MRS glucose mapping and PET joining forces: re-evaluation of the lumped constant in the rat brain under isoflurane anaesthesia. <i>Journal of Neurochemistry</i> , 2014 , 129, 672-82	6	8
25	Non-invasive diagnostic biomarkers for estimating the onset time of permanent cerebral ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 1848-55	7.3	14
24	Ultra-high field birdcage coils: a comparison study at 14.1T. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 2360-3	0.9	4
23	Localized Single-Voxel Magnetic Resonance Spectroscopy, Water Suppression, and Novel Approaches for Ultrashort Echo-Time Measurements 2014 , 15-30		2
22	The C57BL/6J mouse exhibits sporadic congenital portosystemic shunts. <i>PLoS ONE</i> , 2013 , 8, e69782	3.7	32
21	High-resolution spatial mapping of changes in the neurochemical profile after focal ischemia in mice. <i>NMR in Biomedicine</i> , 2012 , 25, 247-54	4.4	18
20	The neurochemical profile quantified by in vivo ^1H NMR spectroscopy. <i>NeuroImage</i> , 2012 , 61, 342-62	7.9	157
19	Proton and phosphorus magnetic resonance spectroscopy of a mouse model of Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2012 , 31 Suppl 3, S87-99	4.3	31
18	Early predictive biomarkers for lesion after transient cerebral ischemia. <i>Stroke</i> , 2011 , 42, 799-805	6.7	33
17	Continuous arterial spin labeling of mouse cerebral blood flow using an actively-detuned two-coil system at 9.4T. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 6993-6	0.9	4
16	Effect of manganese chloride on the neurochemical profile of the rat hypothalamus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 2324-33	7.3	15
15	Neurochemical profile of the mouse hypothalamus using in vivo ^1H MRS at 14.1T. <i>NMR in Biomedicine</i> , 2010 , 23, 578-83	4.4	27
14	Deep thiopental anesthesia alters steady-state glucose homeostasis but not the neurochemical profile of rat cortex. <i>Journal of Neuroscience Research</i> , 2010 , 88, 413-9	4.4	19
13	Steady-state brain glucose transport kinetics re-evaluated with a four-state conformational model. <i>Frontiers in Neuroenergetics</i> , 2009 , 1, 6		22
12	Minimization of Nyquist ghosting for echo-planar imaging at ultra-high fields based on a "negative readout gradient" strategy. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 30, 1171-8	5.6	28

11	Evolution of the neurochemical profile after transient focal cerebral ischemia in the mouse brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009 , 29, 811-9	7-3	75
10	Neuroprotective role of lactate after cerebral ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009 , 29, 1780-9	7-3	159
9	The rate-limiting step for glucose transport into the hypothalamus is across the blood-hypothalamus interface. <i>Journal of Neurochemistry</i> , 2009 , 109 Suppl 1, 38-45	6	19
8	Non-invasive quantification of brain glycogen absolute concentration. <i>Journal of Neurochemistry</i> , 2008 , 107, 1414-23	6	22
7	Snapshot gradient-recalled echo-planar images of rat brains at long echo time at 9.4 T. <i>Magnetic Resonance Imaging</i> , 2008 , 26, 954-60	3-3	5
6	Direct validation of in vivo localized ¹³ C MRS measurements of brain glycogen. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 243-8	4-4	16
5	Effect of chronic hypoglycaemia on glucose concentration and glycogen content in rat brain: A localized ¹³ C NMR study. <i>Journal of Neurochemistry</i> , 2006 , 99, 260-8	6	34
4	In-Vivo NMR Spectroscopy of the Brain at High Fields 2006 , 373-409		1
3	Localized in vivo ¹³ C NMR spectroscopy of the brain. <i>NMR in Biomedicine</i> , 2003 , 16, 313-38	4-4	143
2	Effect of deep pentobarbital anesthesia on neurotransmitter metabolism in vivo: on the correlation of total glucose consumption with glutamatergic action. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002 , 22, 1343-51	7-3	114
1	Effect of Deep Pentobarbital Anesthesia on Neurotransmitter Metabolism In Vivo: On the Correlation of Total Glucose Consumption With Glutamatergic Action. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002 , 1343-1351	7-3	37