

# Hongxia Lei

## List of Publications by Citations

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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	Neuroprotective role of lactate after cerebral ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2009</b> , 29, 1780-9	7.3	159
45	The neurochemical profile quantified by in vivo 1H NMR spectroscopy. <i>NeuroImage</i> , <b>2012</b> , 61, 342-62	7.9	157
44	Localized in vivo 13C NMR spectroscopy of the brain. <i>NMR in Biomedicine</i> , <b>2003</b> , 16, 313-38	4.4	143
43	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> , <b>2002</b> , 22, 1343-51	7.3	114
42	Hierarchical Status Predicts Behavioral Vulnerability and Nucleus Accumbens Metabolic Profile Following Chronic Social Defeat Stress. <i>Current Biology</i> , <b>2017</b> , 27, 2202-2210.e4	6.3	104
41	Evolution of the neurochemical profile after transient focal cerebral ischemia in the mouse brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2009</b> , 29, 811-9	7.3	75
40	Contribution of macromolecules to brain H MR spectra: Experts&consensus recommendations. <i>NMR in Biomedicine</i> , <b>2021</b> , 34, e4393	4.4	39
39	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> , <b>2002</b> , 1343-1351	7.3	37
38	Effect of chronic hypoglycaemia on glucose concentration and glycogen content in rat brain: A localized 13C NMR study. <i>Journal of Neurochemistry</i> , <b>2006</b> , 99, 260-8	6	34
37	Early predictive biomarkers for lesion after transient cerebral ischemia. <i>Stroke</i> , <b>2011</b> , 42, 799-805	6.7	33
36	The C57BL/6J mouse exhibits sporadic congenital portosystemic shunts. <i>PLoS ONE</i> , <b>2013</b> , 8, e69782	3.7	32
35	Proton and phosphorus magnetic resonance spectroscopy of a mouse model of Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , <b>2012</b> , 31 Suppl 3, S87-99	4.3	31
34	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> , <b>2009</b> , 30, 1171-8	5.6	28
33	Neurochemical profile of the mouse hypothalamus using in vivo 1H MRS at 14.1T. <i>NMR in Biomedicine</i> , <b>2010</b> , 23, 578-83	4.4	27
32	Direct noninvasive estimation of myocardial tricarboxylic acid cycle flux in vivo using hyperpolarized 13C magnetic resonance. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2015</b> , 87, 129-37	5.8	26
31	Steady-state brain glucose transport kinetics re-evaluated with a four-state conformational model. <i>Frontiers in Neuroenergetics</i> , <b>2009</b> , 1, 6		22
30	Non-invasive quantification of brain glycogen absolute concentration. <i>Journal of Neurochemistry</i> , <b>2008</b> , 107, 1414-23	6	22

29	Assessment of metabolic fluxes in the mouse brain in vivo using $^1\text{H}$ - $^{13}\text{C}$ NMR spectroscopy at 14.1 Tesla. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2015</b> , 35, 759-65	7.3	21
28	The rate-limiting step for glucose transport into the hypothalamus is across the blood-hypothalamus interface. <i>Journal of Neurochemistry</i> , <b>2009</b> , 109 Suppl 1, 38-45	6	19
27	Deep thiopental anesthesia alters steady-state glucose homeostasis but not the neurochemical profile of rat cortex. <i>Journal of Neuroscience Research</i> , <b>2010</b> , 88, 413-9	4.4	19
26	High-resolution spatial mapping of changes in the neurochemical profile after focal ischemia in mice. <i>NMR in Biomedicine</i> , <b>2012</b> , 25, 247-54	4.4	18
25	Direct validation of in vivo localized $^{13}\text{C}$ MRS measurements of brain glycogen. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 57, 243-8	4.4	16
24	Effect of manganese chloride on the neurochemical profile of the rat hypothalamus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2011</b> , 31, 2324-33	7.3	15
23	Non-invasive diagnostic biomarkers for estimating the onset time of permanent cerebral ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2014</b> , 34, 1848-55	7.3	14
22	Evolution of the neurochemical profiles in the G93A-SOD1 mouse model of amyotrophic lateral sclerosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2019</b> , 39, 1283-1298	7.3	14
21	Mild Neonatal Brain Hypoxia-Ischemia in Very Immature Rats Causes Long-Term Behavioral and Cerebellar Abnormalities at Adulthood. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 634	4.6	8
20	Feasibility of in vivo measurement of glucose metabolism in the mouse hypothalamus by $^1\text{H}$ - $^{13}\text{C}$ MRS at 14.1T. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 80, 874-884	4.4	8
19	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> , <b>2014</b> , 129, 672-82	6	8
18	Characterization of hepatic fatty acids in mice with reduced liver fat by ultra-short echo time $(^1\text{H})$ -MRS at 14.1 T in vivo. <i>NMR in Biomedicine</i> , <b>2015</b> , 28, 1009-20	4.4	8
17	Early detection of human glioma sphere xenografts in mouse brain using diffusion MRI at 14.1 T. <i>NMR in Biomedicine</i> , <b>2016</b> , 29, 1577-1589	4.4	7
16	Technical and experimental features of Magnetic Resonance Spectroscopy of brain glycogen metabolism. <i>Analytical Biochemistry</i> , <b>2017</b> , 529, 117-126	3.1	5
15	Extended preclinical investigation of lactate for neuroprotection after ischemic stroke. <i>Clinical and Translational Neuroscience</i> , <b>2020</b> , 4, 2514183X2090457	0.9	5
14	Non-invasive diagnosis and metabolic consequences of congenital portosystemic shunts in C57BL/6J mice. <i>NMR in Biomedicine</i> , <b>2018</b> , 31, e3873	4.4	5
13	Sexual dimorphism in hepatic lipids is associated with the evolution of metabolic status in mice. <i>NMR in Biomedicine</i> , <b>2017</b> , 30, e3761	4.4	5
12	Snapshot gradient-recalled echo-planar images of rat brains at long echo time at 9.4 T. <i>Magnetic Resonance Imaging</i> , <b>2008</b> , 26, 954-60	3.3	5

11	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> , <b>2014</b> , 2014, 2360-3	0.9	4
10	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> , <b>2011</b> , 2011, 6993-6	0.9	4
9	Localized Single-Voxel Magnetic Resonance Spectroscopy, Water Suppression, and Novel Approaches for Ultrashort Echo-Time Measurements <b>2014</b> , 15-30		2
8	Glucose transporter 2 mediates the hypoglycemia-induced increase in cerebral blood flow. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2019</b> , 39, 1725-1736	7.3	2
7	Excitatory/inhibitory neuronal metabolic balance in mouse hippocampus upon infusion of [U-C]glucose. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2021</b> , 41, 282-297	7.3	2
6	In Vivo Metabolism of [1,6-C]Glucose Reveals Distinct Neuroenergetic Functionality between Mouse Hippocampus and Hypothalamus. <i>Metabolites</i> , <b>2021</b> , 11,	5.6	1
5	In-Vivo NMR Spectroscopy of the Brain at High Fields <b>2006</b> , 373-409		1
4	Metabolic and perfusion responses to acute hypoglycemia in the rat cortex: A non-invasive magnetic resonance approach. <i>Journal of Neurochemistry</i> , <b>2020</b> , 154, 71-83	6	0
3	Feasibility of neurochemically profiling mouse embryonic brain and its development in utero using H MRS at 14.1T. <i>NMR in Biomedicine</i> , <b>2019</b> , 32, e4163	4.4	
2	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> , <b>2020</b> , 33, e4198	4.4	
1	Metabolic fingerprints discriminating severity of acute ischemia using in vivo high-field H magnetic resonance spectroscopy. <i>Journal of Neurochemistry</i> , <b>2020</b> , 152, 252-262	6	