Lijing Xin

List of Publications by Year
in descending order

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		218677	243625
58	2,209	26	44
papers	citations	h-index	g-index

64	64	64	2511
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigating the Metabolic Changes due to Visual Stimulation using Functional Proton Magnetic Resonance Spectroscopy at 7â€‰T. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1484-1495.	4.3	146
2	N-acetylcysteine in a Double-Blind Randomized Placebo-Controlled Trial: Toward Biomarker-Guided Treatment in Early Psychosis. Schizophrenia Bulletin, 2018, 44, 317-327.	4.3	121
3	Net increase of lactate and glutamate concentration in activated human visual cortex detected with magnetic resonance spectroscopy at 7 tesla. Journal of Neuroscience Research, 2013, 91, 1076-1083.	2.9	118
4	1H NMR spectroscopy of rat brain in vivo at 14.1Tesla: Improvements in quantification of the neurochemical profile. Journal of Magnetic Resonance, 2008, 194, 163-168.	2.1	105
5	Advanced single voxel ¹H magnetic resonance spectroscopy techniques in humans: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4236.	2.8	98
6	Glutathione deficit impairs myelin maturation: relevance for white matter integrity in schizophrenia patients. Molecular Psychiatry, 2015, 20, 827-838.	7.9	95
7	Contribution of macromolecules to brain ¹H MR spectra: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4393.	2.8	92
8	Are glutamate and lactate increases ubiquitous to physiological activation? A 1H functional MR spectroscopy study during motor activation in human brain at 7Tesla. NeuroImage, 2014, 93, 138-145.	4.2	90
9	Genetic Polymorphism Associated Prefrontal Glutathione and Its Coupling With Brain Glutamate and Peripheral Redox Status in Early Psychosis. Schizophrenia Bulletin, 2016, 42, 1185-1196.	4.3	83
10	Proton T₁ relaxation times of metabolites in human occipital white and gray matter at 7 T. Magnetic Resonance in Medicine, 2013, 69, 931-936.	3.0	82
11	MMP9/RAGE pathway overactivation mediates redox dysregulation and neuroinflammation, leading to inhibitory/excitatory imbalance: a reverse translation study in schizophrenia patients. Molecular Psychiatry, 2020, 25, 2889-2904.	7.9	76
12	Association of Age, Antipsychotic Medication, and Symptom Severity in Schizophrenia With Proton Magnetic Resonance Spectroscopy Brain Glutamate Level. JAMA Psychiatry, 2021, 78, 667.	11.0	72
13	Proton T₂ relaxation time of Jâ€coupled cerebral metabolites in rat brain at 9.4â€‰T. NMR in Biomedicine, 2008, 21, 396-401.	2.8	69
14	Nutritional Ketosis Increases NAD+/NADH Ratio in Healthy Human Brain: An in Vivo Study by 31P-MRS. Frontiers in Nutrition, 2018, 5, 62.	3.7	62
15	Is the macromolecule signal tissue-specific in healthy human brain? A ¹ H MRS study at 7 tesla in the occipital lobe. Magnetic Resonance in Medicine, 2014, 72, 934-940.	3.0	51
16	N-acetylcysteine add-on treatment leads to an improvement of fornix white matter integrity in early psychosis: a double-blind randomized placebo-controlled trial. Translational Psychiatry, 2018, 8, 220.	4.8	44
17	Magnetic Resonance Spectroscopy in Schizophrenia: Evidence for Glutamatergic Dysfunction and Impaired Energy Metabolism. Neurochemical Research, 2019, 44, 102-116.	3.3	44
18	Comparison of T₁ relaxation times of the neurochemical profile in rat brain at 9.4 tesla and 14.1 tesla. Magnetic Resonance in Medicine, 2009, 62, 862-867.	3.0	42

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19	In vivo measurement of glycine with short echo-time 1H MRS in human brain at 7 T. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2009, 22, 1-4.	2.0	42
20	Quantification of the neurochemical profile using simulated macromolecule resonances at 3 T. NMR in Biomedicine, 2013, 26, 593-599.	2.8	41
21	Metabolite concentration changes associated with positive and negative BOLD responses in the human visual cortex: A functional MRS study at 7 Tesla. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 488-500.	4.3	40
22	In vivo quantification of neuroâ€glial metabolism and glial glutamate concentration using ¹Hâ€[¹³C] <scp>MRS</scp> at 14.1T. Journal of Neurochemistry, 2014, 128, 125-139.	3.9	38
23	Quantification ofin vivoshort echo-time proton magnetic resonance spectra at 14.1 T using two different approaches of modelling the macromolecule spectrum. Measurement Science and Technology, 2009, 20, 104034.	2.6	35
24	Characterization of sustained BOLD activation in the rat barrel cortex and neurochemical consequences. NeuroImage, 2013, 74, 343-351.	4.2	33
25	Nucleus accumbens neurochemistry in human anxiety: A 7 T 1H-MRS study. European Neuropsychopharmacology, 2019, 29, 365-375.	0.7	32
26	MP2RAGE and Susceptibilityâ€Weighted Imaging in Lesional Epilepsy at 7T. Journal of Neuroimaging, 2018, 28, 365-369.	2.0	29
27	Cannabis use in early psychosis is associated with reduced glutamate levels in the prefrontal cortex. Psychopharmacology, 2018, 235, 13-22.	3.1	27
28	1 Hâ€[13 C] NMR spectroscopy of the rat brain during infusion of [2â€•13 C] acetate at 14.1 T. Magnetic Resonance in Medicine, 2010, 64, 334-340.	3.0	26
29	N-Acetyl-Cysteine Supplementation Improves Functional Connectivity Within the Cingulate Cortex in Early Psychosis: A Pilot Study. International Journal of Neuropsychopharmacology, 2019, 22, 478-487.	2.1	25
30	Nonâ€invasive quantification of brain glycogen absolute concentration. Journal of Neurochemistry, 2008, 107, 1414-1423.	3.9	24
31	Clinical Neuroimaging Using 7 T MRI: Challenges and Prospects. Journal of Neuroimaging, 2018, 28, 5-13.	2.0	24
32	Brain NAD Is Associated With ATP Energy Production and Membrane Phospholipid Turnover in Humans. Frontiers in Aging Neuroscience, 2020, 12, 609517.	3.4	23
33	Assessment of Metabolic Fluxes in the Mouse Brain in Vivo Using ¹H-[¹³C] NMR Spectroscopy at 14.1 Tesla. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 759-765.	4.3	22
34	A practical guide to inÂvivo proton magnetic resonance spectroscopy at high magnetic fields. Analytical Biochemistry, 2017, 529, 30-39.	2.4	22
35	Association between Brain and Plasma Glutamine Levels in Healthy Young Subjects Investigated by MRS and LC/MS. Nutrients, 2019, 11, 1649.	4.1	21
36	Timely N-Acetyl-Cysteine and Environmental Enrichment Rescue Oxidative Stress-Induced Parvalbumin Interneuron Impairments via MMP9/RAGE Pathway: A Translational Approach for Early Intervention in Psychosis. Schizophrenia Bulletin, 2021, 47, 1782-1794.	4.3	21

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37	Non-Invasive Diagnostic Biomarkers for Estimating the Onset Time of Permanent Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1848-1855.	4.3	20
38	Quantification of brain glycogen concentration and turnover through localized ¹³C NMR of both the C1 and C6 resonances. NMR in Biomedicine, 2010, 23, 270-276.	2.8	19
39	Direct in vivo measurement of glycine and the neurochemical profile in the rat medulla oblongata. NMR in Biomedicine, 2010, 23, 1097-1102.	2.8	18
40	A doubleâ€quadrature radiofrequency coil design for protonâ€decoupled carbonâ€13 magnetic resonance spectroscopy in humans at 7T. Magnetic Resonance in Medicine, 2015, 73, 894-900.	3.0	18
41	In vivo macromolecule signals in rat brain ¹Hâ€MR spectra at 9.4T: Parametrization, spline baseline estimation, and T₂ relaxation times. Magnetic Resonance in Medicine, 2021, 86, 2384-2401.	3.0	17
42	In vivo ¹H NMR measurement of glycine in rat brain at 9.4 T at short echo time. Magnetic Resonance in Medicine, 2008, 60, 727-731.	3.0	16
43	Glutamine-to-glutamate ratio in the nucleus accumbens predicts effort-based motivated performance in humans. Neuropsychopharmacology, 2020, 45, 2048-2057.	5.4	16
44	Single spin-echo T 2 relaxation times of cerebral metabolites at 14.1 T in the in vivo rat brain. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 549-554.	2.0	11
45	Lactate measurement by neurochemical profiling in the dorsolateral prefrontal cortex at 7T: accuracy, precision, and relaxation times. Magnetic Resonance in Medicine, 2020, 83, 1895-1908.	3.0	10
46	Magnetic resonance spectroscopy in the rodent brain: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4325.	2.8	9
47	In vivo 31P magnetic resonance spectroscopy study of mouse cerebral NAD content and redox state during neurodevelopment. Scientific Reports, 2020, 10, 15623.	3.3	7
48	Metabolic and transcriptomic profiles of glioblastoma invasion revealed by comparisons between patients and corresponding orthotopic xenografts in mice. Acta Neuropathologica Communications, 2021, 9, 133.	5.2	7
49	Î³â€aminobutyric acid measurement in the human brain at 7ÂT: Short echoâ€time or Mescherâ€“Garwood editing. NMR in Biomedicine, 2022, 35, e4706.	2.8	7
50	Localized Single-Voxel Magnetic Resonance Spectroscopy, Water Suppression, and Novel Approaches for Ultrashort Echo-Time Measurements. , 2014, , 15-30.		5
51	Selective resonance suppression ¹Hâ€[¹³C] NMR spectroscopy with asymmetric adiabatic RF pulses. Magnetic Resonance in Medicine, 2009, 61, 260-266.	3.0	4
52	Comparison of two approaches to model the macromolecule spectrum for the quantification of short TE ¹H MRS spectra. , 2008, , .		3
53	T52. N-ACETYL-CYSTEINE ADD-ON TREATMENT LEADS TO AN IMPROVEMENT OF FORNIX WHITE MATTER INTEGRITY IN EARLY PSYCHOSIS. Schizophrenia Bulletin, 2018, 44, S133-S134.	4.3	1
54	Improved offâ€resonance phase behavior using a phaseâ€inverted adiabatic halfâ€passage pulse for ¹³C MRS in humans at 7 T. NMR in Biomedicine, 2019, 32, e4171.	2.8	1

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55	P: 62â€ƒNeurometabolism in Grey Matter of Children With Chronic Liver Disease or Portosystemic Shunting: A 1H-MRS Study at 7T. American Journal of Gastroenterology, 2019, 114, S31-S32.	0.4	1
56	10.2 REDOX DYSREGULATION, OLIGODENDROCYTES AND WHITE MATTER ALTERATIONS IN SCHIZOPHRENIA. Schizophrenia Bulletin, 2018, 44, S15-S16.	4.3	0
57	Redox Dysregulation, Myelination Deficit and Dysconnectivity in Schizophrenia: A Translational Study in First Episode Patients and Experimental Models. Biological Psychiatry, 2020, 87, S100.	1.3	0
58	Redox Dysregulation, Myelination Deficit and Dysconnectivity in Schizophrenia: A Translational Study in First Episode Patients and Experimental Models. Biological Psychiatry, 2021, 89, S56.	1.3	0