Lijing Xin

List of Publications by Year
in descending order

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58 papers	2,209 citations	249298 26 h-index	274796 44 g-index
64 all docs	64 docs citations	64 times ranked	2767 citing authors

#	Article	IF	Citations
1	Î³â€aminobutyric acid measurement in the human brain at 7ÂT: Short echoâ€time or Mescherâ€“Garwood editing. NMR in Biomedicine, 2022, 35, e4706.	1.6	7
2	Contribution of macromolecules to brain ¹H MR spectra: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4393.	1.6	92
3	Magnetic resonance spectroscopy in the rodent brain: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4325.	1.6	9
4	Advanced single voxel ¹H magnetic resonance spectroscopy techniques in humans: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4236.	1.6	98
5	Redox Dysregulation, Myelination Deficit and Dysconnectivity in Schizophrenia: A Translational Study in First Episode Patients and Experimental Models. Biological Psychiatry, 2021, 89, S56.	0.7	0
6	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.	2.3	21
7	Association of Age, Antipsychotic Medication, and Symptom Severity in Schizophrenia With Proton Magnetic Resonance Spectroscopy Brain Glutamate Level. JAMA Psychiatry, 2021, 78, 667.	6.0	72
8	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.	1.9	17
9	Metabolic and transcriptomic profiles of glioblastoma invasion revealed by comparisons between patients and corresponding orthotopic xenografts in mice. Acta Neuropathologica Communications, 2021, 9, 133.	2.4	7
10	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.	2.4	40
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.	4.1	76
12	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.	1.9	10
13	Glutamine-to-glutamate ratio in the nucleus accumbens predicts effort-based motivated performance in humans. Neuropsychopharmacology, 2020, 45, 2048-2057.	2.8	16
14	In vivo 31P magnetic resonance spectroscopy study of mouse cerebral NAD content and redox state during neurodevelopment. Scientific Reports, 2020, 10, 15623.	1.6	7
15	Redox Dysregulation, Myelination Deficit and Dysconnectivity in Schizophrenia: A Translational Study in First Episode Patients and Experimental Models. Biological Psychiatry, 2020, 87, S100.	0.7	0
16	Brain NAD Is Associated With ATP Energy Production and Membrane Phospholipid Turnover in Humans. Frontiers in Aging Neuroscience, 2020, 12, 609517.	1.7	23
17	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.	1.0	25
18	Association between Brain and Plasma Glutamine Levels in Healthy Young Subjects Investigated by MRS and LC/MS. Nutrients, 2019, 11, 1649.	1.7	21

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19	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.	1.6	1
20	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.	0.2	1
21	Nucleus accumbens neurochemistry in human anxiety: A 7 T 1H-MRS study. European Neuropsychopharmacology, 2019, 29, 365-375.	0.3	32
22	Magnetic Resonance Spectroscopy in Schizophrenia: Evidence for Glutamatergic Dysfunction and Impaired Energy Metabolism. Neurochemical Research, 2019, 44, 102-116.	1.6	44
23	N-acetylcysteine in a Double-Blind Randomized Placebo-Controlled Trial: Toward Biomarker-Guided Treatment in Early Psychosis. Schizophrenia Bulletin, 2018, 44, 317-327.	2.3	121
24	Cannabis use in early psychosis is associated with reduced glutamate levels in the prefrontal cortex. Psychopharmacology, 2018, 235, 13-22.	1.5	27
25	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.	2.4	44
26	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.	2.3	1
27	10.2 REDOX DYSREGULATION, OLIGODENDROCYTES AND WHITE MATTER ALTERATIONS IN SCHIZOPHRENIA. Schizophrenia Bulletin, 2018, 44, S15-S16.	2.3	0
28	MP2RAGE and Susceptibilityâ€Weighted Imaging in Lesional Epilepsy at 7T. Journal of Neuroimaging, 2018, 28, 365-369.	1.0	29
29	Nutritional Ketosis Increases NAD+/NADH Ratio in Healthy Human Brain: An in Vivo Study by 31P-MRS. Frontiers in Nutrition, 2018, 5, 62.	1.6	62
30	Clinical Neuroimaging Using 7 T MRI: Challenges and Prospects. Journal of Neuroimaging, 2018, 28, 5-13.	1.0	24
31	A practical guide to inÂvivo proton magnetic resonance spectroscopy at high magnetic fields. Analytical Biochemistry, 2017, 529, 30-39.	1.1	22
32	Genetic Polymorphism Associated Prefrontal Glutathione and Its Coupling With Brain Glutamate and Peripheral Redox Status in Early Psychosis. Schizophrenia Bulletin, 2016, 42, 1185-1196.	2.3	83
33	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.	1.9	18
34	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.	2.4	22
35	Glutathione deficit impairs myelin maturation: relevance for white matter integrity in schizophrenia patients. Molecular Psychiatry, 2015, 20, 827-838.	4.1	95
36	Non-Invasive Diagnostic Biomarkers for Estimating the Onset Time of Permanent Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1848-1855.	2.4	20

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37	Localized Single-Voxel Magnetic Resonance Spectroscopy, Water Suppression, and Novel Approaches for Ultrashort Echo-Time Measurements. , 2014, , 15-30.		5
38	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.	2.1	38
39	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.	2.1	90
40	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.	1.9	51
41	Proton T₁ relaxation times of metabolites in human occipital white and gray matter at 7 T. Magnetic Resonance in Medicine, 2013, 69, 931-936.	1.9	82
42	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.	1.1	11
43	Characterization of sustained BOLD activation in the rat barrel cortex and neurochemical consequences. NeuroImage, 2013, 74, 343-351.	2.1	33
44	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.	1.3	118
45	Quantification of the neurochemical profile using simulated macromolecule resonances at 3 T. NMR in Biomedicine, 2013, 26, 593-599.	1.6	41
46	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.	2.4	146
47	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.	1.6	19
48	Direct in vivo measurement of glycine and the neurochemical profile in the rat medulla oblongata. NMR in Biomedicine, 2010, 23, 1097-1102.	1.6	18
49	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.	1.9	26
50	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.	1.4	35
51	Selective resonance suppression ¹Hâ€[¹³C] NMR spectroscopy with asymmetric adiabatic RF pulses. Magnetic Resonance in Medicine, 2009, 61, 260-266.	1.9	4
52	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.	1.9	42
53	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.	1.1	42
54	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.	1.9	16

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55	Proton T₂ relaxation time of Jâ€coupled cerebral metabolites in rat brain at 9.4â€‰T. NMR in Biomedicine, 2008, 21, 396-401.	1.6	69
56	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.	1.2	105
57	Nonâ€invasive quantification of brain glycogen absolute concentration. Journal of Neurochemistry, 2008, 107, 1414-1423.	2.1	24
58	Comparison of two approaches to model the macromolecule spectrum for the quantification of short TE ¹H MRS spectra. , 2008, , .		3