Cristina Cudalbu

List of Publications by Year
in descending order

58 papers	2,759 citations	236925 25 h-index	197818 49 g-index
63 all docs	63 docs citations	63 times ranked	3509 citing authors

#	Article	IF	Citations
1	PET CMRglc mapping and 1H-MRS show altered glucose uptake and neurometabolic profiles in BDL rats. Analytical Biochemistry, 2022, 647, 114606.	2.4	9
2	Creatine transporterâ€“deficient rat model shows motor dysfunction, cerebellar alterations, and muscle creatine deficiency without muscle atrophy. Journal of Inherited Metabolic Disease, 2022, 45, 278-291.	3.6	7
3	Abnormal brain oxygen homeostasis in an animal model of liver disease. JHEP Reports, 2022, , 100509.	4.9	13
4	B₀ shimming for in vivo magnetic resonance spectroscopy: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4350.	2.8	60
5	Contribution of macromolecules to brain ¹H MR spectra: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4393.	2.8	92
6	Terminology and concepts for the characterization of in vivo MR spectroscopy methods and MR spectra: Background and experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4347.	2.8	69
7	Magnetic resonance spectroscopy in the rodent brain: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4325.	2.8	9
8	Probiotics improve the neurometabolic profile of rats with chronic cholestatic liver disease. Scientific Reports, 2021, 11, 2269.	3.3	19
9	A new rat model of creatine transporter deficiency reveals behavioral disorder and altered brain metabolism. Scientific Reports, 2021, 11, 1636.	3.3	18
10	Methods | Magnetic Resonance Spectroscopy for the Measurement of In Vivo Brain Metabolism. , 2021, , 701-711.		0
11	Minimum Reporting Standards for in vivo Magnetic Resonance Spectroscopy (MRSinMRS): Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4484.	2.8	144
12	Hyperpolarized 13C-glucose magnetic resonance highlights reduced aerobic glycolysis in vivo in infiltrative glioblastoma. Scientific Reports, 2021, 11, 5771.	3.3	13
13	2021 ISHEN guidelines on animal models of hepatic encephalopathy. Liver International, 2021, 41, 1474-1488.	3.9	34
14	The first knock-in rat model for glutaric aciduria type I allows further insights into pathophysiology in brain and periphery. Molecular Genetics and Metabolism, 2021, 133, 157-181.	1.1	22
15	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
16	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
17	Probiotics combined with rifaximin influence the neurometabolic changes in a rat model of type C HE. Scientific Reports, 2021, 11, 17988.	3.3	10
18	Late postâ€natal neurometabolic development in healthy male rats using 1 H and 31 P magnetic resonance spectroscopy. Journal of Neurochemistry, 2021, 157, 508-519.	3.9	4

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19	Longitudinal osmotic and neurometabolic changes in young rats with chronic cholestatic liver disease. Scientific Reports, 2020, 10, 7536.	3.3	13
20	Reply to: â€œMagnetic resonance spectroscopy: A surrogate marker of hepatic encephalopathy?â€• Journal of Hepatology, 2019, 71, 1057.	3.7	2
21	Longitudinal neurometabolic changes in the hippocampus of a rat model of chronic hepatic encephalopathy. Journal of Hepatology, 2019, 71, 505-515.	3.7	55
22	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. Magnetic Resonance in Medicine, 2019, 82, 527-550.	3.0	280
23	Brain Edema in Chronic Hepatic Encephalopathy. Journal of Clinical and Experimental Hepatology, 2019, 9, 362-382.	0.9	38
24	P: 37â€ƒProbiotics Combined With Rifaximin for the Treatment of Chronic Hepatic Encephalopathy: A Longitudinal In Vivo 1H-MRS Study of Brain Metabolism Using BDL Rats. American Journal of Gastroenterology, 2019, 114, S19-S19.	0.4	1
25	P: 33â€ƒIn Vivo Longitudinal 1H MRS Study of Hippocampal, Cereberal and Striatal Metabolic Changes in the Adult Brain Using an Animal Model of Chronic Hepatic Encephalopathy. American Journal of Gastroenterology, 2019, 114, S17-S17.	0.4	5
26	<i>In vivo</i> characterization of brain metabolism by ¹H MRS, ¹³C MRS and ¹⁸FDG PET reveals significant glucose oxidation of invasively growing glioma cells. International Journal of Cancer, 2018, 143, 127-138.	5.1	16
27	InÂvivo ¹³C MRS in the mouse brain at 14.1 Tesla and metabolic flux quantification under infusion of [1,6-¹³C₂]glucose. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 1701-1714.	4.3	16
28	Editorial for the special issue on introduction to in vivo Magnetic Resonance Spectroscopy (MRS): A method to non-invasively study metabolism. Analytical Biochemistry, 2017, 529, 1-3.	2.4	2
29	MRS studies of neuroenergetics and glutamate/glutamine exchange in rats: Extensions to hyperammonemic models. Analytical Biochemistry, 2017, 529, 245-269.	2.4	20
30	Creatine in the central nervous system: From magnetic resonance spectroscopy to creatine deficiencies. Analytical Biochemistry, 2017, 529, 144-157.	2.4	88
31	Brain edema: a valid endpoint for measuring hepatic encephalopathy?. Metabolic Brain Disease, 2016, 31, 1249-1258.	2.9	25
32	1H and 31P magnetic resonance spectroscopy in a rat model of chronic hepatic encephalopathy: in vivo longitudinal measurements of brain energy metabolism. Metabolic Brain Disease, 2016, 31, 1303-1314.	2.9	42
33	In Vivo Longitudinal 1H MRS Study of Transgenic Mouse Models of Prion Disease in the Hippocampus and Cerebellum at 14.1ÂT. Neurochemical Research, 2015, 40, 2639-2646.	3.3	6
34	Optimized MEGAâ€SPECIAL for <i>in vivo</i> glutamine detection in the rat brain at 14.1â€‰T. NMR in Biomedicine, 2014, 27, 1151-1158.	2.8	2
35	<i>In vivo</i> brain macromolecule signals in healthy and glioblastoma mouse models: ¹H magnetic resonance spectroscopy, postâ€processing and metabolite quantification at 14.1 T. Journal of Neurochemistry, 2014, 129, 806-815.	3.9	17
36	Clinical Proton MR Spectroscopy in Central Nervous System Disorders. Radiology, 2014, 270, 658-679.	7.3	524

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37	In vivo studies of brain metabolism in animal models of Hepatic Encephalopathy using 1H Magnetic Resonance Spectroscopy. Metabolic Brain Disease, 2013, 28, 167-174.	2.9	22
38	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
39	Ammonia toxicity to the brain. Journal of Inherited Metabolic Disease, 2013, 36, 595-612.	3.6	224
40	Which prior knowledge? Quantification of in vivo brain ¹³C MR spectra following ¹³C glucose infusion using AMARES. Magnetic Resonance in Medicine, 2013, 69, 1512-1522.	3.0	12
41	Quantification of the neurochemical profile using simulated macromolecule resonances at 3 T. NMR in Biomedicine, 2013, 26, 593-599.	2.8	41
42	The C57BL/6J Mouse Exhibits Sporadic Congenital Portosystemic Shunts. PLoS ONE, 2013, 8, e69782.	2.5	51
43	Cerebral Glutamine Metabolism under Hyperammonemia Determined <i>in vivo</i> by Localized ¹H and ¹⁵N NMR Spectroscopy. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 696-708.	4.3	40
44	Handling Macromolecule Signals in the Quantification of the Neurochemical Profile. Journal of Alzheimer's Disease, 2012, 31, S101-S115.	2.6	78
45	Proton and Phosphorus Magnetic Resonance Spectroscopy of a Mouse Model of Alzheimer's Disease. Journal of Alzheimer's Disease, 2012, 31, S87-S99.	2.6	40
46	<i>In vivo</i> metabolic profiling of gliomaâ€initiating cells using proton magnetic resonance spectroscopy at 14.1 Tesla. NMR in Biomedicine, 2012, 25, 506-513.	2.8	17
47	Effect of Manganese Chloride on the Neurochemical Profile of the Rat Hypothalamus. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 2324-2333.	4.3	21
48	Diffusionâ€weighted spectroscopy: A novel approach to determine macromolecule resonances in shortâ€echo time ¹Hâ€MRS. Magnetic Resonance in Medicine, 2010, 64, 939-946.	3.0	36
49	Feasibility of in vivo15N MRS detection of hyperpolarized 15N labeled choline in rats. Physical Chemistry Chemical Physics, 2010, 12, 5818.	2.8	96
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.	2.6	35
51	Hyperpolarized lithiumâ€6 as a sensor of nanomolar contrast agents. Magnetic Resonance in Medicine, 2009, 61, 1489-1493.	3.0	53
52	Comparison of <i>T</i>₁ 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
53	Influence of measured and simulated basis sets on metabolite concentration estimates. NMR in Biomedicine, 2008, 21, 627-636.	2.8	36
54	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

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55	Rat brain metabolite relaxation time estimates using magnetic resonance spectroscopy at two different field strengths. Comptes Rendus Chimie, 2008, 11, 442-447.	0.5	5
56	Brain metabolite concentration estimates using Magnetic Resonance Spectroscopy in a chronic model of temporal lobe epilepsy. Comptes Rendus Chimie, 2008, 11, 434-441.	0.5	1
57	Comparison of two approaches to model the macromolecule spectrum for the quantification of short TE ¹H MRS spectra. , 2008, , .		3
58	Estimation of metabolite concentrations of healthy mouse brain by magnetic resonance spectroscopy at 7ÂT. Comptes Rendus Chimie, 2006, 9, 534-538.	0.5	11