

# Nathalie Just

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

883  
citations

623574

14  
h-index

501076

28  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1512  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving tumour heterogeneity MRI assessment with histograms. British Journal of Cancer, 2014, 111, 2205-2213.	2.9	386
2	Compartmentalised energy metabolism supporting glutamatergic neurotransmission in response to increased activity in the rat cerebral cortex: A <sup>13</sup> C MRS study <i>in Vivo</i> at 14.1 T. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 928-940.	2.4	46
3	Astrocytic and neuronal oxidative metabolism are coupled to the rate of glutamate-glutamine cycle in the tree shrew visual cortex. Glia, 2018, 66, 477-491.	2.5	45
4	Anesthesia differentially modulates neuronal and vascular contributions to the BOLD signal. NeuroImage, 2019, 195, 89-103.	2.1	37
5	Ion beam modification of PES, PS and PVC polymers. Nuclear Instruments & Methods in Physics Research B, 1999, 148, 1141-1145.	0.6	33
6	Characterization of sustained BOLD activation in the rat barrel cortex and neurochemical consequences. NeuroImage, 2013, 74, 343-351.	2.1	33
7	Effects of paternal and peripubertal stress on aggression, anxiety, and metabolic alterations in the lateral septum. European Neuropsychopharmacology, 2016, 26, 357-367.	0.3	33
8	Minimization of Nyquist ghosting for echo-planar imaging at ultra-high fields based on a negative readout gradient strategy. Journal of Magnetic Resonance Imaging, 2009, 30, 1171-1178.	1.9	31
9	When pharmaceutical drugs become environmental pollutants: Potential neural effects and underlying mechanisms. Environmental Research, 2022, 205, 112495.	3.7	23
10	BOLD responses to trigeminal nerve stimulation. Magnetic Resonance Imaging, 2010, 28, 1143-1151.	1.0	21
11	Effect of Manganese Chloride on the Neurochemical Profile of the Rat Hypothalamus. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 2324-2333.	2.4	21
12	Investigating the Role of Glutamate and GABA in the Modulation of Transthalamic Activity: A Combined fMRI-fMRS Study. Frontiers in Physiology, 2017, 8, 30.	1.3	21
13	Assessment of the effect of haematocrit-dependent arterial input functions on the accuracy of pharmacokinetic parameters in dynamic contrast-enhanced MRI. NMR in Biomedicine, 2011, 24, 902-915.	1.6	19
14	Probing activation-induced neurochemical changes using optogenetics combined with functional magnetic resonance spectroscopy: a feasibility study in the rat primary somatosensory cortex. Journal of Neurochemistry, 2019, 150, 402-419.	2.1	19
15	Lactate and glutamate dynamics during prolonged stimulation of the rat barrel cortex suggest adaptation of cerebral glucose and oxygen metabolism. Neuroscience, 2017, 346, 337-348.	1.1	16
16	Detection of neuronal activity and metabolism in a model of dehydration-induced anorexia in rats at 14.1 T using manganese-enhanced MRI and <sup>1</sup> H MRS. NMR in Biomedicine, 2011, 24, 1326-1336.	1.6	15
17	Imaging of prolonged BOLD response in the somatosensory cortex of the rat. NMR in Biomedicine, 2015, 28, 414-421.	1.6	15
18	Energy metabolism in the rat cortex under thiopental anaesthesia measured <i>In Vivo</i> by <sup>13</sup> C MRS. Journal of Neuroscience Research, 2017, 95, 2297-2306.	1.3	14

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19	Histogram analysis of the microvasculature of intracerebral human and murine glioma xenografts. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 778-789.	1.9	11
20	Proton functional magnetic resonance spectroscopy in rodents. <i>NMR in Biomedicine</i> , 2021, 34, e4254.	1.6	10
21	T1 mapping of the mouse brain following fractionated manganese administration using MP2RAGE. <i>Brain Structure and Function</i> , 2017, 222, 201-214.	1.2	7
22	Snapshot gradient-recalled echo-planar images of rat brains at long echo time at 9.4 T. <i>Magnetic Resonance Imaging</i> , 2008, 26, 954-960.	1.0	5
23	Thymidine Metabolism as a Confounding Factor for $^{18}\text{F}$ -Fluorothymidine Uptake After Therapy in a Colorectal Cancer Model. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1063-1069.	2.8	5
24	Performance of MRS in metabolic profiling of the lumbar spinal cord in rat and mice. <i>Magnetic Resonance Imaging</i> , 2016, 34, 1155-1160.	1.0	4
25	Blood oxygen level dependent fMRI and perfusion MRI in the sheep brain. <i>Brain Research</i> , 2021, 1760, 147390.	1.1	4
26	Seasonal vascular plasticity in the mediobasal hypothalamus of the adult ewe. <i>Histochemistry and Cell Biology</i> , 2022, , 1.	0.8	4
27	Development of a Stimulator for the Characterization of Mechanical-Evoked Pain-Related Supra-Spinal Processing Using BOLD-fMRI in Rodents. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 1349-1356.	2.5	3
28	Quantitative activity-induced manganese-dependent MRI for characterizing cortical layers in the primary somatosensory cortex of the rat. <i>Brain Structure and Function</i> , 2016, 221, 695-707.	1.2	2