

# Bruno Maraviglia

## List of Publications by Year in descending order

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96  
papers

2,923  
citations

168829

31  
h-index

223390

49  
g-index

100  
all docs

100  
docs citations

100  
times ranked

3824  
citing authors

#	ARTICLE	IF	CITATIONS
1	Disruption of Semantic Network in Mild Alzheimer's Disease Revealed by Resting-State fMRI. <i>Neuroscience</i> , 2018, 371, 38-48.	1.1	31
2	Computational Flux Balance Analysis Predicts that Stimulation of Energy Metabolism in Astrocytes and their Metabolic Interactions with Neurons Depend on Uptake of K <sup>+</sup> Rather than Glutamate. <i>Neurochemical Research</i> , 2017, 42, 202-216.	1.6	39
3	Temporal Information Entropy of the Blood-Oxygenation Level-Dependent Signals Increases in the Activated Human Primary Visual Cortex. <i>Frontiers in Physics</i> , 2017, 5, .	1.0	3
4	Intrinsic Patterns of Coupling between Correlation and Amplitude of Low-Frequency fMRI Fluctuations Are Disrupted in Degenerative Dementia Mainly due to Functional Disconnection. <i>PLoS ONE</i> , 2015, 10, e0120988.	1.1	43
5	Monoaminergic Control of Cellular Glucose Utilization by Glycogenolysis in Neocortex and Hippocampus. <i>Neurochemical Research</i> , 2015, 40, 2493-2504.	1.6	18
6	Does abnormal glycogen structure contribute to increased susceptibility to seizures in epilepsy?. <i>Metabolic Brain Disease</i> , 2015, 30, 307-316.	1.4	34
7	On the impact of physiological noise in spinal cord functional MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 770-777.	1.9	20
8	Physiological bases of the K <sup>+</sup> and the glutamate/GABA hypotheses of epilepsy. <i>Epilepsy Research</i> , 2014, 108, 995-1012.	0.8	60
9	Energy metabolism and glutamate-glutamine cycle in the brain: a stoichiometric modeling perspective. <i>BMC Systems Biology</i> , 2013, 7, 103.	3.0	38
10	Regulatory mechanisms for glycogenolysis and K <sup>+</sup> uptake in brain astrocytes. <i>Neurochemistry International</i> , 2013, 63, 458-464.	1.9	34
11	Spatio-temporal anomalous diffusion imaging: results in controlled phantoms and in excised human meningiomas. <i>Magnetic Resonance Imaging</i> , 2013, 31, 359-365.	1.0	28
12	Glucose metabolism downregulates the uptake of 6-(N-(7-nitrobenzo[2,3-diazol-4-yl]amino)-2-deoxyglucose (6-NBDG) mediated by glucose transporter 1 isoform (GLUT1): theory and simulations using the symmetric four-state carrier model. <i>Journal of Neurochemistry</i> , 2013, 125, 236-246.	2.1	9
13	Ictal haemodynamic changes in a patient affected by 'subtle' Epilepsia Partialis Continua. Seizure: the <i>Journal of the British Epilepsy Association</i> , 2012, 21, 65-69.	0.9	7
14	Phase stability in fMRI time series: Effect of noise regression, off-resonance correction and spatial filtering techniques. <i>NeuroImage</i> , 2012, 59, 3748-3761.	2.1	23
15	The Role of Astrocytic Glycogen in Supporting the Energetics of Neuronal Activity. <i>Neurochemical Research</i> , 2012, 37, 2432-2438.	1.6	76
16	Modeling the contribution of neuron-astrocyte cross talk to slow blood oxygenation level-dependent signal oscillations. <i>Journal of Neurophysiology</i> , 2011, 106, 3010-3018.	0.9	17
17	Non-Gaussian diffusion imaging: a brief practical review. <i>Magnetic Resonance Imaging</i> , 2011, 29, 1410-1416.	1.0	85
18	Semiautomated segmentation of the human spine based on echoplanar images. <i>Magnetic Resonance Imaging</i> , 2011, 29, 1429-1436.	1.0	8

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19	Preface. Magnetic Resonance Imaging, 2011, 29, 1317-1318.	1.0	0
20	Anisotropic anomalous diffusion assessed in the human brain by scalar invariant indices. Magnetic Resonance in Medicine, 2011, 65, 1043-1052.	1.9	43
21	Why does the brain (not) have glycogen?. BioEssays, 2011, 33, 319-326.	1.2	49
22	Metabolic correlates of brain activity in a FOS epilepsy patient. NMR in Biomedicine, 2010, 23, 170-178.	1.6	14
23	Smoothing that does not blur: Effects of the anisotropic approach for evaluating diffusion tensor imaging data in the clinic. Journal of Magnetic Resonance Imaging, 2010, 31, 690-697.	1.9	15
24	fMRI study of motor cortex activity modulation in early Parkinson's disease. Magnetic Resonance Imaging, 2010, 28, 1152-1158.	1.0	15
25	Preface. Magnetic Resonance Imaging, 2010, 28, 1049-1050.	1.0	0
26	Changes in Glucose Uptake Rather than Lactate Shuttle Take Center Stage in Subserving Neuroenergetics: Evidence from Mathematical Modeling. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 586-602.	2.4	79
27	Glycogenolysis in Astrocytes Supports Blood-Borne Glucose Channeling Not Glycogen-Derived Lactate Shuttling to Neurons: Evidence from Mathematical Modeling. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 1895-1904.	2.4	93
28	White Matter Microstructure and Apathy Level in Amnesic Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2010, 20, 501-507.	1.2	38
29	Neuronal current detection with low-field magnetic resonance: simulations and methods. Magnetic Resonance Imaging, 2009, 27, 1131-1139.	1.0	33
30	Metabolic and Hemodynamic Events after Changes in Neuronal Activity: Current Hypotheses, Theoretical Predictions and <i>in vivo</i> NMR Experimental Findings. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 441-463.	2.4	143
31	Diffusion-weighted magnetic resonance imaging in patients with partial status epilepticus. Epilepsia, 2009, 50, 45-52.	2.6	64
32	Drug resistant ADLTE and recurrent partial status epilepticus with dysphasic features in a family with a novel <i>LGI1</i> mutation: electroclinical, genetic, and EEG/fMRI findings. Epilepsia, 2009, 50, 2481-2486.	2.6	35
33	Images-based suppression of unwanted global signals in resting-state functional connectivity studies. Magnetic Resonance Imaging, 2009, 27, 1058-1064.	1.0	50
34	Preface. Magnetic Resonance Imaging, 2009, 27, 1009-1010.	1.0	0
35	Boronophenylalanine uptake in C6 glioma model is dramatically increased by L-DOPA preloading. Applied Radiation and Isotopes, 2009, 67, S34-S36.	0.7	18
36	In vivo <sup>19</sup> F MR imaging and spectroscopy for the BNCT optimization. Applied Radiation and Isotopes, 2009, 67, S365-S368.	0.7	17

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37	10B-editing 1H-detection and 19F MRI strategies to optimize boron neutron capture therapy. Magnetic Resonance Imaging, 2008, 26, 987-993.	1.0	9
38	NMR and XRD Study on Calcium Sulfoaluminate Cement. Applied Magnetic Resonance, 2008, 35, 33-41.	0.6	15
39	Water diffusion anisotropy in white and gray matter of the human spinal cord. Journal of Magnetic Resonance Imaging, 2008, 27, 476-482.	1.9	35
40	L-DOPA Preloading Increases the Uptake of Borophenylalanine in C6 Glioma Rat Model: A New Strategy to Improve BNCT Efficacy. International Journal of Radiation Oncology Biology Physics, 2008, 72, 562-567.	0.4	28
41	The effect of physiological noise in phase functional magnetic resonance imaging: from blood oxygen level-dependent effects to direct detection of neuronal currents. Magnetic Resonance Imaging, 2008, 26, 1026-1040.	1.0	31
42	Influence of steady background gradients on the accuracy of molecular diffusion anisotropy measurements. Magnetic Resonance Imaging, 2008, 26, 1250-1258.	1.0	8
43	Preface. Magnetic Resonance Imaging, 2008, 26, 851-852.	1.0	0
44	Realistic simulations of neuronal activity: A contribution to the debate on direct detection of neuronal currents by MRI. NeuroImage, 2008, 39, 87-106.	2.1	55
45	Microscopic investigation of the resonant mechanism for the implementation of nc-MRI at ultra-low field MRI. NeuroImage, 2008, 41, 1228-1241.	2.1	13
46	Characterization of the functional response in the human spinal cord: Impulse-response function and linearity. NeuroImage, 2008, 42, 626-634.	2.1	27
47	<i>In vivo</i> <sup>19</sup> F MRI and <sup>19</sup> F MRS of <sup>19</sup> F-labelled boronophenylalanine- $\alpha$ -fructose complex on a C6 rat glioma model to optimize boron neutron capture therapy (BNCT). Physics in Medicine and Biology, 2008, 53, 6979-6989.	1.6	33
48	Optimization of a single-shot EPI sequence for diffusion imaging of the human spinal cord. , 2007, , .		0
49	Quantitative evaluation for brain CT/MRI coregistration based on maximization of mutual information in patients with focal epilepsy investigated with subdural electrodes. Magnetic Resonance Imaging, 2007, 25, 883-888.	1.0	25
50	How the NPX data format handles EEG data acquired simultaneously with fMRI. Magnetic Resonance Imaging, 2007, 25, 1011-1014.	1.0	14
51	Sustained Neuronal Activation Raises Oxidative Metabolism to a New Steady-State Level: Evidence from 1H NMR Spectroscopy in the Human Visual Cortex. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1055-1063.	2.4	253
52	Factors Affecting Early-Age Hydration of Ordinary Portland Cement Studied by NMR: Fineness, Water-to-Cement Ratio and Curing Temperature. Applied Magnetic Resonance, 2007, 32, 385-394.	0.6	26
53	Identification of activated regions during a language task. Magnetic Resonance Imaging, 2007, 25, 933-938.	1.0	35
54	Multi-nuclear MRS and <sup>19</sup> F MRI of <sup>19</sup> F-labelled and <sup>10</sup> B-enriched p-boronophenylalanine-fructose complex to optimize boron neutron capture therapy: phantom studies at high magnetic fields. Physics in Medicine and Biology, 2006, 51, 3141-3154.	1.6	21

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55	EEG/fMRI Study of Ictal and Interictal Epileptic Activity: Methodological Issues and Future Perspectives in Clinical Practice. <i>Epilepsia</i> , 2006, 47, 52-58.	2.6	32
56	A chemical shift imaging study on regional metabolite distribution in a CADASIL family. <i>Magnetic Resonance Imaging</i> , 2006, 24, 443-447.	1.0	8
57	BOLD signal and vessel dynamics: a hierarchical cluster analysis. <i>Magnetic Resonance Imaging</i> , 2006, 24, 411-418.	1.0	3
58	Sensitivity of single-voxel 1H-MRS in investigating the metabolism of the activated human visual cortex at 7 T. <i>Magnetic Resonance Imaging</i> , 2006, 24, 343-348.	1.0	115
59	Challenges for detection of neuronal currents by MRI. <i>Magnetic Resonance Imaging</i> , 2006, 24, 483-493.	1.0	54
60	A cluster-based quantitative procedure in an fMRI study of Parkinson's disease. <i>Magnetic Resonance Imaging</i> , 2006, 24, 419-424.	1.0	5
61	Metabolic alteration transients during paroxysmal activity in an epileptic patient with fixation-off sensitivity: a case study. <i>Magnetic Resonance Imaging</i> , 2006, 24, 373-379.	1.0	4
62	An independent component analysis-based approach on ballistocardiogram artifact removing. <i>Magnetic Resonance Imaging</i> , 2006, 24, 393-400.	1.0	50
63	Ictal hemodynamic changes in late-onset rasmussen encephalitis. <i>Annals of Neurology</i> , 2006, 59, 432-433.	2.8	18
64	DTI of trabecular bone marrow. <i>Magnetic Resonance Imaging</i> , 2005, 23, 245-248.	1.0	12
65	Long-term Reproducibility of fMRI Activation in Epilepsy Patients with Fixation Off Sensitivity. <i>Epilepsia</i> , 2005, 46, 1149-1151.	2.6	12
66	The influence of superplasticizers on the first steps of tricalcium silicate hydration studied by NMR techniques. <i>Magnetic Resonance Imaging</i> , 2005, 23, 277-284.	1.0	13
67	Diffusion tensor imaging to study anisotropy in a particular porous system: The trabecular bone network. <i>Solid State Nuclear Magnetic Resonance</i> , 2005, 28, 266-272.	1.5	24
68	New openings for porous systems research from intermolecular double-quantum NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2004, 25, 153-159.	1.5	8
69	Issues about the fMRI of the human spinal cord. <i>Magnetic Resonance Imaging</i> , 2004, 22, 1505-1516.	1.0	72
70	About the CRAZED sequence. <i>Concepts in Magnetic Resonance</i> , 2004, 21A, 22-36.	1.3	15
71	Combination of BOLD-fMRI and VEP recordings for spin-echo MRI detection of primary magnetic effects caused by neuronal currents. <i>Magnetic Resonance Imaging</i> , 2004, 22, 1429-1440.	1.0	40
72	Simultaneous EEG-fMRI acquisition: how far is it from being a standardized technique?. <i>Magnetic Resonance Imaging</i> , 2004, 22, 1445-1455.	1.0	32

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73	Hemodynamic response (BOLD/fMRI) in focal epilepsy with reference to benzodiazepine effect. <i>Magnetic Resonance Imaging</i> , 2004, 22, 1487-1492.	1.0	6
74	In vivo quantitative <sup>1</sup> H MRS of cerebellum and evaluation of quantitation reproducibility by simulation of different levels of noise and spectral resolution. <i>Magnetic Resonance Imaging</i> , 2004, 22, 1385-1393.	1.0	24
75	Influence of Cellulosic Additives on Tricalcium Silicate Hydration: Nuclear Magnetic Resonance Relaxation Time Analysis. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4869-4874.	1.2	17
76	New NMR strategies for brain investigation. <i>Magnetic Resonance Imaging</i> , 2003, 21, 1111-1112.	1.0	0
77	Intermolecular double quantum coherences (iDQc) and diffusion-weighted imaging (DWI) imaging of the human brain at 1.5 T. <i>Magnetic Resonance Imaging</i> , 2003, 21, 1151-1157.	1.0	12
78	Cerebellar metabolite alterations detected in vivo by proton MR spectroscopy. <i>Magnetic Resonance Imaging</i> , 2003, 21, 1201-1206.	1.0	16
79	Issues concerning the construction of a metabolic model for neuronal activation. <i>Journal of Neuroscience Research</i> , 2003, 71, 463-467.	1.3	26
80	The physiology and metabolism of neuronal activation: in vivo studies by NMR and other methods. <i>Magnetic Resonance Imaging</i> , 2003, 21, 1283-1293.	1.0	34
81	Real-time MR artifacts filtering during continuous EEG/fMRI acquisition. <i>Magnetic Resonance Imaging</i> , 2003, 21, 1175-1189.	1.0	83
82	NMR applications to low porosity carbonate stones. <i>Magnetic Resonance Imaging</i> , 2003, 21, 799-804.	1.0	12
83	The aerobic brain: lactate decrease at the onset of neural activity. <i>Neuroscience</i> , 2003, 118, 7-10.	1.1	91
84	Multiple spin echoes for the evaluation of trabecular bone quality. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2002, 14, 3-9.	1.1	7
85	In vivo multiple spin echoes imaging of trabecular bone on a clinical 1.5 T MR scanner. <i>Magnetic Resonance Imaging</i> , 2002, 20, 623-629.	1.0	17
86	Characterization of porous media structure by non linear NMR methods. <i>Magnetic Resonance Imaging</i> , 2001, 19, 319-323.	1.0	15
87	Characterization of trabecular bone by dipolar demagnetizing field MRI. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 683-689.	1.9	41
88	In vivo <sup>31</sup> P spectroscopy study of treated and untreated recovery of rat partial brain ischemia. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 542-547.	1.9	3
89	Low-Sensitivity-Nuclei Localization by Twin Spin-Echo Double-Resonance Excitation. <i>Journal of Magnetic Resonance Series A</i> , 1994, 107, 243-245.	1.6	12
90	Double resonance spectra of coupled I=1/2 and S=3 nuclear spins. <i>Journal of Chemical Physics</i> , 1994, 101, 4521-4525.	1.2	4

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91	Solid state nuclear spin mapping by rotary saturation. Solid State Communications, 1992, 82, 151-156.	0.9	13
92	Immiscible fluids permeability by T1 imaging. Magnetic Resonance Imaging, 1992, 10, 837-841.	1.0	2
93	Double resonance mapping of liquids in porous materials. Magnetic Resonance Imaging, 1991, 9, 757-759.	1.0	2
94	Direct excitation and detection of NMR narrowed rotating frame spin echo in solids. Solid State Communications, 1989, 70, 797-799.	0.9	16
95	Human erythrocyte membranes are fluid down to $\sim 5^{\circ}\text{C}$ . Biochimica Et Biophysica Acta - Biomembranes, 1982, 686, 137-140.	1.4	31
96	Orientalional disordering of the $\text{CH}_4\text{-Kr}$ mixture induced by spin conversion at $T < 1\text{ K}$ . Physics Letters, Section A: General, Atomic and Solid State Physics, 1981, 86, 490-492.	0.9	14