

# Giorgio Bonmassar

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

1,730  
citations

567144

15  
h-index

526166

27  
g-index

36  
all docs

36  
docs citations

36  
times ranked

2072  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupled electrophysiological, hemodynamic, and cerebrospinal fluid oscillations in human sleep. <i>Science</i> , 2019, 366, 628-631.	6.0	584
2	Motion and Ballistocardiogram Artifact Removal for Interleaved Recording of EEG and EPs during MRI. <i>NeuroImage</i> , 2002, 16, 1127-1141.	2.1	205
3	Microscopic magnetic stimulation of neural tissue. <i>Nature Communications</i> , 2012, 3, 921.	5.8	149
4	Variability and anatomical specificity of the orbitofrontothalamic fibers of passage in the ventral capsule/ventral striatum (VC/VS): precision care for patient-specific tractography-guided targeting of deep brain stimulation (DBS) in obsessive compulsive disorder (OCD). <i>Brain Imaging and Behavior</i> , 2016, 10, 1054-1067.	1.1	115
5	RF-induced heating in tissue near bilateral DBS implants during MRI at 1.5T and 3T: The role of surgical lead management. <i>NeuroImage</i> , 2019, 184, 566-576.	2.1	92
6	Local SAR near deep brain stimulation (DBS) electrodes at 64 and 127 MHz: A simulation study of the effect of extracranial loops. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1558-1565.	1.9	81
7	Feasibility of using linearly polarized rotating birdcage transmitters and close-fitting receive arrays in MRI to reduce SAR in the vicinity of deep brain stimulation implants. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1701-1712.	1.9	70
8	A Novel Brain Stimulation Technology Provides Compatibility with MRI. <i>Scientific Reports</i> , 2015, 5, 9805.	1.6	61
9	Construction and modeling of a reconfigurable MRI coil for lowering SAR in patients with deep brain stimulation implants. <i>NeuroImage</i> , 2017, 147, 577-588.	2.1	58
10	Intracortical depth analyses of frequency-sensitive regions of human auditory cortex using 7T fMRI. <i>NeuroImage</i> , 2016, 143, 116-127.	2.1	46
11	Changes in the specific absorption rate (SAR) of radiofrequency energy in patients with retained cardiac leads during MRI at 1.5T and 3T. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 653-669.	1.9	42
12	Solenoidal Micromagnetic Stimulation Enables Activation of Axons With Specific Orientation. <i>Frontiers in Physiology</i> , 2018, 9, 724.	1.3	29
13	Reference-free removal of EEG-fMRI ballistocardiogram artifacts with harmonic regression. <i>NeuroImage</i> , 2016, 128, 398-412.	2.1	28
14	MRI-Induced Heating of Coils for Microscopic Magnetic Stimulation at 1.5 Tesla: An Initial Study. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 53.	1.0	17
15	On the Measurement of Electrical Impedance Spectroscopy (EIS) of the Human Head. <i>International Journal of Bioelectromagnetism</i> , 2010, 12, 32-46.	0.0	17
16	Polymer thick film technology for improved simultaneous dEEG/MRI recording: Safety and MRI data quality. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 895-903.	1.9	16
17	PTFOS: Flexible and Absorbable Intracranial Electrodes for Magnetic Resonance Imaging. <i>PLoS ONE</i> , 2012, 7, e41187.	1.1	15
18	The Shape of Electrical Impedance Spectroscopy (EIS) is altered in Stroke Patients. , 2004, 2004, 3443-6.		12

#	ARTICLE	IF	CITATIONS
19	Numerical and Experimental Analysis of Radiofrequency-Induced Heating Versus Lead Conductivity During EEG-MRI at 3 T. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 852-859.	1.4	12
20	Development, validation, and pilot MRI safety study of a high-resolution, open source, whole body pediatric numerical simulation model. PLoS ONE, 2021, 16, e0241682.	1.1	12
21	An Electrocardiography Grid with Conductive Nanoparticles in a Polymer Thick Film on an Organic Substrate Improves CT and MR Imaging. Radiology, 2016, 280, 595-601.	3.6	11
22	A Study on the Feasibility of the Deep Brain Stimulation (DBS) Electrode Localization Based on Scalp Electric Potential Recordings. Frontiers in Physiology, 2019, 9, 1788.	1.3	10
23	Enhancing Coil Design for Micromagnetic Brain Stimulation. MRS Advances, 2018, 3, 1635-1640.	0.5	9
24	Specific absorption rate in a standard phantom containing a Deep Brain Stimulation lead at 3 Tesla MRI. , 2013, , .		8
25	Intracranial hemorrhage alters scalp potential distribution in bioimpedance cerebral monitoring: Preliminary results from FEM simulation on a realistic head model and human subjects. Medical Physics, 2016, 43, 675-686.	1.6	6
26	A Virtual Patient Simulator Based on Human Connectome and 7 T MRI for Deep Brain Stimulation. International Journal on Advances in Life Sciences, 2014, 6, 364-372.	1.0	6
27	Planar figure-8 coils for ultra-focal and directional micromagnetic brain stimulation. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2021, 39, 063202.	0.6	5
28	Numerical Simulation of the Radiofrequency Safety of 128-Channel hd-EEG Nets on a 29-Month-Old Whole-Body Model in a 3 Tesla MRI. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 1748-1756.	1.4	4
29	Numerical estimation of the B1 transmit field distortion in a copper EEG trace comparison with the thin-film based resistive trace "NeoNet". , 2021, 2021, 4099-4103.		2
30	Neural dynamics of 3-D object perception assessed by combined MEG/fMRI imaging technique. , 2009, , .		1
31	Dual energy pulses for Electrical Impedance Spectroscopy with the stochastic Gabor function. , 2012, 2012, 138-41.		1
32	Miniaturized coils for noninvasive magnetic stimulation: a numerical comparison in terms of focality and penetration depth. , 2021, , .		1
33	Brain Activities during 3-D Structure Perception from 2-D Motion as Assessed by Combined MEG/fMRI Techniques. , 2007, , .		0
34	Direct electromagnetic source tomographic imaging neurotechnology (DESTIN). , 2017, , .		0