

Leonardo M Angelone

List of Publications by Year in descending order

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57
papers

1,614
citations

304701

22
h-index

315719

38
g-index

60
all docs

60
docs citations

60
times ranked

1369
citing authors

#	ARTICLE	IF	CITATIONS
1	MIDA: A Multimodal Imaging-Based Detailed Anatomical Model of the Human Head and Neck. PLoS ONE, 2015, 10, e0124126.	2.5	220
2	Multimodal integration of high-resolution EEG and functional magnetic resonance imaging data: a simulation study. NeuroImage, 2003, 19, 1-15.	4.2	126
3	RF-induced heating in tissue near bilateral DBS implants during MRI at 1.5T and 3T: The role of surgical lead management. NeuroImage, 2019, 184, 566-576.	4.2	92
4	Local SAR near deep brain stimulation (DBS) electrodes at 64 and 127 MHz: A simulation study of the effect of extracranial loops. Magnetic Resonance in Medicine, 2017, 78, 1558-1565.	3.0	81
5	Metallic electrodes and leads in simultaneous EEG-MRI: Specific absorption rate (SAR) simulation studies. Bioelectromagnetics, 2004, 25, 285-295.	1.6	74
6	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. Magnetic Resonance in Medicine, 2017, 77, 1701-1712.	3.0	70
7	MRI-based anatomical model of the human head for specific absorption rate mapping. Medical and Biological Engineering and Computing, 2008, 46, 1239-1251.	2.8	69
8	Specific absorption rate studies of the parallel transmission of inner volume excitations at 7T. Journal of Magnetic Resonance Imaging, 2008, 28, 1005-1018.	3.4	67
9	A Novel Brain Stimulation Technology Provides Compatibility with MRI. Scientific Reports, 2015, 5, 9805.	3.3	61
10	EEG/(f)MRI measurements at 7T using a new EEG cap (Cap). NeuroImage, 2006, 33, 1082-1092.	4.2	59
11	Construction and modeling of a reconfigurable MRI coil for lowering SAR in patients with deep brain stimulation implants. NeuroImage, 2017, 147, 577-588.	4.2	58
12	Multimodal integration of EEG and MEG data: A simulation study with variable signal-to-noise ratio and number of sensors. Human Brain Mapping, 2004, 22, 52-62.	3.6	51
13	On the effect of resistive EEG electrodes and leads during 7 T MRI: simulation and temperature measurement studies. Magnetic Resonance Imaging, 2006, 24, 801-812.	1.8	51
14	Analysis of the Role of Lead Resistivity in Specific Absorption Rate for Deep Brain Stimulator Leads at 3T MRI. IEEE Transactions on Medical Imaging, 2010, 29, 1029-1038.	8.9	46
15	Reducing RF-Induced Heating Near Implanted Leads Through High-Dielectric Capacitive Bleeding of Current (CBLOC). IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1265-1273.	4.6	46
16	Changes in the specific absorption rate (SAR) of radiofrequency energy in patients with retained cardiac leads during MRI at 1.5T and 3T. Magnetic Resonance in Medicine, 2019, 81, 653-669.	3.0	42
17	Retrospective analysis of RF heating measurements of passive medical implants. Magnetic Resonance in Medicine, 2018, 80, 2726-2730.	3.0	37
18	Assessing the Electromagnetic Fields Generated by a Radiofrequency MRI Body Coil at 64 MHz: Defeaturing Versus Accuracy. IEEE Transactions on Biomedical Engineering, 2016, 63, 1591-1601.	4.2	35

#	ARTICLE	IF	CITATIONS
19	The Role of Computational Modeling and Simulation in the Total Product Life Cycle of Peripheral Vascular Devices. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2017, 11, .	0.7	35
20	Realistic modeling of deep brain stimulation implants for electromagnetic MRI safety studies. <i>Physics in Medicine and Biology</i> , 2018, 63, 095015.	3.0	27
21	Radio-Frequency Safety Assessment of Stents in Blood Vessels During Magnetic Resonance Imaging. <i>Frontiers in Physiology</i> , 2018, 9, 1439.	2.8	26
22	Parallel transmission to reduce absorbed power around deep brain stimulation devices in MRI: Impact of number and arrangement of transmit channels. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 299-311.	3.0	25
23	MRI-Based Multiscale Model for Electromagnetic Analysis in the Human Head with Implanted DBS. <i>Computational and Mathematical Methods in Medicine</i> , 2013, 2013, 1-12.	1.3	22
24	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
25	Computational Electromagnetic Analysis in a Human Head Model with EEG Electrodes and Leads Exposed to RF-Field Sources at 915 MHz and 1748 MHz. <i>Radiation Research</i> , 2010, 174, 91-100.	1.5	15
26	A numerical investigation on the effect of <sc>RF</sc> coil feed variability on global and local electromagnetic field exposure in human body models at 64 <sc>MHz</sc>. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1135-1144.	3.0	15
27	Investigation of assumptions underlying current safety guidelines on EM-induced nerve stimulation. <i>Physics in Medicine and Biology</i> , 2016, 61, 4466-4478.	3.0	14
28	A Novel Method to Decrease Electric Field and SAR Using an External High Dielectric Sleeve at 3 T Head MRI: Numerical and Experimental Results. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1063-1069.	4.2	13
29	Numerical and Experimental Analysis of Radiofrequency-Induced Heating Versus Lead Conductivity During EEG-MRI at 3 T. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019, 61, 852-859.	2.2	12
30	Investigation of RF-Induced Heating Near Interventional Catheters at 1.5 T MRI: A Combined Modeling and Experimental Study. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019, 61, 1423-1431.	2.2	11
31	The "virtual DBS population": five realistic computational models of deep brain stimulation patients for electromagnetic MR safety studies. <i>Physics in Medicine and Biology</i> , 2019, 64, 035021.	3.0	11
32	A Study on the Feasibility of the Deep Brain Stimulation (DBS) Electrode Localization Based on Scalp Electric Potential Recordings. <i>Frontiers in Physiology</i> , 2019, 9, 1788.	2.8	10
33	Specific absorption rate in a standard phantom containing a Deep Brain Stimulation lead at 3 Tesla MRI. , 2013, , .		8
34	fMRI Priors for the Linear Inverse Estimation of EEG Cortical Sources. <i>Electromagnetics</i> , 2001, 21, 579-592.	0.7	7
35	High dielectric material in MRI: Numerical assessment of the reduction of the induced local power on implanted cardiac leads. , 2016, 2016, 2361-2364.		7
36	A computational model for bipolar deep brain stimulation of the subthalamic nucleus. , 2014, 2014, 6258-61.		6

#	ARTICLE	IF	CITATIONS
37	Effects of tuning conditions on near field of MRI transmit birdcage coil at 64 MHz. , 2016, 2016, 6242-6245.		6
38	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
39	RF Safety Evaluation of a Breast Tissue Expander Device for MRI: Numerical Simulation and Experiment. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1390-1399.	2.2	5
40	Improvement of Electromagnetic Field Distributions Using High Dielectric Constant (HDC) Materials for CTL-Spine MRI: Numerical Simulations and Experiments. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1382-1389.	2.2	5
41	Computational platform combining detailed and precise functionalized anatomical phantoms with EM-Neuron interaction modeling. , 2014, , .		4
42	Analysis of Conservative and Magnetically Induced Electric Fields in a Low-Frequency Birdcage Coil. Journal of Electromagnetic Analysis and Applications, 2013, 05, 271-280.	0.2	4
43	Effect of Multiple Scattering on Heating Induced by Radio Frequency Energy. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2311-2316.	2.2	3
44	Real Time MR Thermometry Using Tm-DOTMA. Journal of Electromagnetic Analysis and Applications, 2015, 07, 115-125.	0.2	3
45	Assessment of MRI Issues at 7 T. American Journal of Roentgenology, 2014, 203, W560-W560.	2.2	2
46	RF induced energy for partially implanted catheters: A computational study. , 2016, 2016, 1256-1259.		2
47	Investigating the effect of coil model losses on computational electromagnetic exposure of an ASTM phantom at 64 MHz MRI. , 2017, 2017, 1481-1484.		2
48	Multimodal integration of high resolution EEG and functional magnetic resonance: a simulation study. NeuroImage, 2001, 13, 66.	4.2	1
49	Evaluation of unintended electrical stimulation from MR gradient fields. Frontiers in Bioscience - Elite, 2012, E4, 1731.	1.8	1
50	A New Method to Concentrate Electromagnetic Field Within ROI Using a High Dielectric Material in 3T Body MRI. , 2013, , .		1
51	Simulation platform for coupled modeling of EM-induced neuronal dynamics and functionalized anatomical models. , 2015, , .		1
52	Computational assessment of radiofrequency energy absorption of fetus during an MRI scan. Biomedical Physics and Engineering Express, 2018, 4, 045032.	1.2	1
53	Multimodal integration of high resolution EEG and functional magnetic resonance: a simulation study. , 0, , .		0
54	A Novel Method to Decrease Electric Field and SAR Using an External High Dielectric Sleeve at 3T Head MRI: Numerical and Experimental Results. , 2013, , .		0

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55	The electromagnetic fields of a 64 MHz quadrature driven birdcage coil in ASTM phantom. , 2017, , .		0
56	Effect Of Incident Field Magnitude And Phase Distribution On Rfinduced Heating Due To Hip Implants. , 2018, 2018, 1360-1363.		0
57	Coupled modeling and experimental investigation of RF-induced heating near ablation catheters under 1.5T MRI. , 2018, , .		0