Marcello Alecci

List of Publications by Year
in descending order

62 papers	1,329 citations	430874 18 h-index	377865 34 g-index
63 all docs	63 docs citations	63 times ranked	1123 citing authors

#	Article	IF	Citations
1	A Practical Guide to Estimating Coil Inductance for Magnetic Resonance Applications. Electronics (Switzerland), 2022, 11, 1974.	3.1	0
2	Theory of spoof magnetic localized surface plasmons beyond effective medium approximations. Journal Physics D: Applied Physics, 2021, 54, 165108.	2.8	1
3	Mimicking Localized Surface Plasmons via Mie Resonances to Enhance Magnetic-Resonance-Imaging Applications. Physical Review Applied, 2020, 14, .	3.8	5
4	Design of Distributed Spiral Resonators for the Decoupling of MRI Double-Tuned RF Coils. IEEE Transactions on Biomedical Engineering, 2020, 67, 2806-2816.	4.2	14
5	Comparison between Tail Suspension Swing Test and Standard Rotation Test in Revealing Early Motor Behavioral Changes and Neurodegeneration in 6-OHDA Hemiparkinsonian Rats. International Journal of Molecular Sciences, 2020, 21, 2874.	4.1	11
6	Numerical and Workbench Design of 2.35 T Double-Tuned (Â¹H/Â²Â³Na) Nested RF Birdcage Coils Suitable for Animal Size MRI. IEEE Transactions on Medical Imaging, 2020, 39, 3175-3186.	8.9	13
7	Harnessing Surface Plasmons for Magnetic Resonance Imaging Applications. Physical Review Applied, 2019, 12, .	3.8	14
8	Effects of Substantia Nigra pars compacta lesion on the behavioral sequencing in the 6-OHDA model of Parkinsonâ€™s disease. Behavioural Brain Research, 2019, 362, 28-35.	2.2	22
9	Pulsed electric fields processing of apple tissue: Spatial distribution of electroporation by means of magnetic resonance imaging and computer vision system. Innovative Food Science and Emerging Technologies, 2018, 47, 120-126.	5.6	18
10	The Basal Ganglia: More than just a switching device. CNS Neuroscience and Therapeutics, 2018, 24, 677-684.	3.9	48
11	A 7T double-tuned (¹H/³¹P) microstrip surface RF coil for the IMAGO7 MR scanner. , 2015, , .		2
12	Non-invasive assessment of Neuromuscular Disorders by 7 tesla Magnetic Resonance Imaging and Spectroscopy: Dedicated radio-frequency coil development. , 2015, , .		1
13	PPARÎ²/Î´ and Î³ in a Rat Model of Parkinson's Disease: Possible Involvement in PD Symptoms. Journal of Cellular Biochemistry, 2015, 116, 844-855.	2.6	18
14	Targeting CXCR1 on breast cancer stem cells: signaling pathways and clinical application modelling. Oncotarget, 2015, 6, 43375-43394.	1.8	58
15	Switching ability of over trained movements in a Parkinsonâ€™s disease rat model. Behavioural Brain Research, 2013, 250, 326-333.	2.2	8
16	VALIDATION OF NUMERICAL APPROACHES FOR ELECTROMAGNETIC CHARACTERIZATION OF MAGNETIC RESONANCE RADIOFREQUENCY COILS. Progress in Electromagnetics Research M, 2013, 29, 121-136.	0.9	14
17	Mobile NMR for surface analysis. , 2011, , .		0
18	Hypoxia induces peroxisome proliferator-activated receptor Î± (PPARÎ±) and lipid metabolism peroxisomal enzymes in human glioblastoma cells. Journal of Cellular Biochemistry, 2011, 112, 3891-3901.	2.6	54

#	Article	IF	Citations
19	RF coil design for low and high field MRI: Numerical methods and measurements. , 2011, , .		4
20	A theoretical and experimental study on transverse field radio frequency surface coils. Measurement: Journal of the International Measurement Confederation, 2010, 43, 1503-1515.	5.0	7
21	Design and testing of a 1.5 Tesla double-tuned (1H/31P) RF surface coil with intrinsic geometric isolation. Measurement: Journal of the International Measurement Confederation, 2010, 43, 1266-1276.	5.0	12
22	Lipid Metabolism Impairment in Human Gliomas: Expression of Peroxisomal Proteins in Human Gliomas at Different Grades of Malignancy. International Journal of Immunopathology and Pharmacology, 2010, 23, 235-246.	2.1	27
23	Improved 1.5 T Magnetic Resonance Spectroscopy in the Human Calf with a Spatially Selective Radio Frequency Surface Coil. The Open Spectroscopy Journal, 2010, 4, 1-9.	1.0	1
24	Design of an elliptical permanent magnet for surface magnetic resonance imaging. Measurement Science and Technology, 2009, 20, 017002.	2.6	3
25	Practical design of a 4 Tesla double-tuned RF surface coil for interleaved 1H and 23Na MRI of rat brain. Journal of Magnetic Resonance, 2006, 181, 203-211.	2.1	83
26	Sequential, co-registered fluorine and proton field-cycled Overhauser imaging at a detection field of 59 mT. Physics in Medicine and Biology, 2006, 51, N39-N45.	3.0	4
27	Optimization of multi-element transverse field radio frequency surface coils. Measurement Science and Technology, 2006, 17, N53-N59.	2.6	5
28	Versatile coil design and positioning of transverse-field RF surface coils for clinical 1.5-T MRI applications. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2005, 18, 69-75.	2.0	17
29	An open volume, high isolation, radio frequency surface coil system for pulsed magnetic resonance. Journal of Magnetic Resonance, 2004, 171, 353-358.	2.1	4
30	Theoretical and experimental evaluation of detached endcaps for 3 T birdcage coils. Magnetic Resonance in Medicine, 2003, 49, 363-370.	3.0	28
31	Post-processing noise removal algorithm for magnetic resonance imaging based on edge detection and wavelet analysis. Physics in Medicine and Biology, 2003, 48, 1987-1995.	3.0	23
32	First imaging results obtained with a multimodal apparatus combining low-field (35.7 mT) MRI and pulsed EPRI. Physics in Medicine and Biology, 2002, 47, N127-N132.	3.0	9
33	Characterization and reduction of gradient-induced eddy currents in the RF shield of a TEM resonator. Magnetic Resonance in Medicine, 2002, 48, 404-407.	3.0	34
34	Compensating for B1 inhomogeneity using active transmit power modulation. Magnetic Resonance Imaging, 2001, 19, 1349-1352.	1.8	26
35	Radio frequency magnetic field mapping of a 3 Tesla birdcage coil: Experimental and theoretical dependence on sample properties. Magnetic Resonance in Medicine, 2001, 46, 379-385.	3.0	127
36	Ï‰-Space Adaptive Acquisition Technique for Magnetic Resonance Imaging from Projections. Journal of Magnetic Resonance, 2000, 143, 197-207.	2.1	14

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37	Pulsed EPR imaging: image reconstruction using selective acquisition sequences. Physics in Medicine and Biology, 1999, 44, N137-N144.	3.0	7
38	Optimization of axial RF field distribution in low-frequency EPR loop-gap resonators. Physics in Medicine and Biology, 1999, 44, N69-N75.	3.0	12
39	Low Field (10 mT) Pulsed Dynamic Nuclear Polarization. Journal of Magnetic Resonance, 1999, 138, 313-319.	2.1	18
40	A Radiofrequency (220-MHz) Fourier Transform EPR Spectrometer. Journal of Magnetic Resonance, 1998, 130, 272-280.	2.1	35
41	pH-sensitive imaging by low-frequency EPR: a model study for biological applications. Physics in Medicine and Biology, 1998, 43, 1921-1930.	3.0	43
42	A novel, cylindrical, transverse gradient coil design for magnetic resonance imaging of large samples. Measurement Science and Technology, 1998, 9, 1663-1671.	2.6	3
43	Two-dimensional 220 MHz Fourier transform EPR imaging. Physics in Medicine and Biology, 1998, 43, 1845-1850.	3.0	10
44	Resonant inductive coupling of RF EPR resonators in the presence of electrically conducting samples. Measurement Science and Technology, 1998, 9, 832-837.	2.6	8
45	Nitroxide free radical clearance in the live rat monitored by radio-frequency CW-EPR and PEDRI. Physics in Medicine and Biology, 1998, 43, 1899-1905.	3.0	30
46	Continuous-wave NMR imaging of solids. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1996, 4, 77-81.	2.0	10
47	Young investigator award presentation at the 13th annual meeting of the esmrmb, september 1996, prague. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1996, 4, 187-193.	2.0	9
48	Angular Space-Domain Interpolation for Filtered Back Projection Applied to Regular and Adaptively Measured Projections. Journal of Magnetic Resonance Series B, 1996, 110, 75-79.	1.6	13
49	Modification of a whole-body NMR imager into a radio frequency EPR spectrometer suitable forin vivomeasurements. Measurement Science and Technology, 1996, 7, 1012-1018.	2.6	11
50	Design and Optimization of an Automatic Frequency Control System for a Radiofrequency Electron Paramagnetic Resonance Spectrometer. Journal of Magnetic Resonance Series A, 1995, 117, 272-277.	1.6	19
51	Theory of Adaptive Acquisition Method for Image Reconstruction from Projections and Application to EPR Imaging. Journal of Magnetic Resonance Series B, 1995, 108, 50-57.	1.6	34
52	Splineâ€based deconvolution technique in electron paramagnetic resonance imaging. Review of Scientific Instruments, 1994, 65, 58-62.	1.3	8
53	In vivo electron paramagnetic resonance spectroscopy-imaging in experimental oncology: The hope and the reality. International Journal of Radiation Oncology Biology Physics, 1994, 29, 421-425.	0.8	7
54	Simultaneous 280 MHz EPR imaging of rat organs during nitroxide free radical clearance. Biophysical Journal, 1994, 67, 1274-1279.	0.5	67

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55	New experimental procedures for in vivo L-band and radio frequency EPR spectroscopy/imaging. Journal of the Chemical Society Perkin Transactions II, 1993, , 2077.	0.9	18
56	Electron paramagnetic resonance spectrometer for threeâ€dimensionalinvivoimaging at very low frequency. Review of Scientific Instruments, 1992, 63, 4263-4270.	1.3	53
57	R.F. (280 MHz) EPR imaging of extended samples: Apparatus and preliminary results. Applied Magnetic Resonance, 1992, 3, 909-915.	1.2	8
58	Automatic trimming technique for multipolar magnets. Journal of Applied Physics, 1992, 71, 3053-3055.	2.5	6
59	Whole rat electron paramagnetic resonance imaging of a nitroxide free radical by a radio frequency (280 MHz) spectrometer. Biochemical and Biophysical Research Communications, 1992, 183, 829-835.	2.1	60
60	Multipolar magnet for low-frequency ESR imaging (with computer controlled power supply). Measurement Science and Technology, 1991, 2, 32-37.	2.6	19
61	Three-dimensional in vivo ESR imaging in rats. Magnetic Resonance Imaging, 1990, 8, 59-63.	1.8	71
62	Lumped parameters description of RF losses in ESR experiments on electrically conducting samples. Journal of Physics E: Scientific Instruments, 1989, 22, 354-359.	0.7	10