Luisa Ciobanu

List of Publications by Year
in descending order

60	1,478	361413	330143
papers	citations	20 h-index	37 g-index

68	68	68	1877
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	PEAKIT: A Gaussian Process regression analysis tool for chemical exchange saturation transfer spectra. Journal of Magnetic Resonance, 2022, 334, 107122.	2.1	2
2	Reply to Comments on â€œA Semi-Analytical Model of High-Permittivity Dielectric Ring Resonators for Magnetic Resonance Imagingâ€• IEEE Transactions on Antennas and Propagation, 2022, 70, 3131-3131.	5.1	0
3	In vivo detection of carnosine and its derivatives using chemical exchange saturation transfer. Magnetic Resonance in Medicine, 2022, 88, 1314-1323.	3.0	2
4	Ultrafast CEST line scanning as a method to quantify mutarotation kinetics. Journal of Magnetic Resonance, 2022, 342, 107270.	2.1	1
5	Imaging of two samples with a single transmit/receive channel using coupled ceramic resonators for MR microscopy at 17.2 T. NMR in Biomedicine, 2020, 33, e4397.	2.8	8
6	Diffusion MRI reveals in vivo and non-invasively changes in astrocyte function induced by an aquaporin-4 inhibitor. PLoS ONE, 2020, 15, e0229702.	2.5	26
7	A Semi-Analytical Model of High-Permittivity Dielectric Ring Resonators for Magnetic Resonance Imaging. IEEE Transactions on Antennas and Propagation, 2020, 68, 6317-6329.	5.1	8
8	Differential effects of aquaporin-4 channel inhibition on BOLD fMRI and diffusion fMRI responses in mouse visual cortex. PLoS ONE, 2020, 15, e0228759.	2.5	10
9	The time-dependent diffusivity in the abdominal ganglion of Aplysia californica: experiments and simulations. Biomedical Physics and Engineering Express, 2019, 5, 045036.	1.2	0
10	Enhancing surface coil sensitive volume with hybridized electric dipoles at 17.2â€¯T. Journal of Magnetic Resonance, 2019, 307, 106567.	2.1	4
11	Systematic Analysis of the Improvements in Magnetic Resonance Microscopy with Ferroelectric Composite Ceramics. Advanced Materials, 2019, 31, e1900912.	21.0	17
12	Brain sugar consumption during neuronal activation detected by CEST functional MRI at ultra-high magnetic fields. Scientific Reports, 2019, 9, 4423.	3.3	12
13	Spatial contribution of hippocampal BOLD activation in high-resolution fMRI. Scientific Reports, 2019, 9, 3152.	3.3	6
14	Mesoscopic and microscopic imaging of sensory responses in the same animal. Nature Communications, 2019, 10, 1110.	12.8	66
15	Efficient Probes for Ultra-high-field Magnetic Resonance Microscopy Based on Coupled Ceramic Resonators. , 2019, , .		0
16	A New Tool for In Vivo Study of Astrocyte Connexin 43 in Brain. Scientific Reports, 2019, 9, 18292.	3.3	13
17	Tunable all-dielectric RF-coils for magnetic resonance microscopy. , 2019, , .		0
18	Intracellular manganese enhanced MRI signals reflect the frequency of action potentials in Aplysia neurons. Journal of Neuroscience Methods, 2018, 295, 121-128.	2.5	8

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19	IVIM Models: Advantages, Disadvantages, and Analysis Pitfalls. , 2018, , 375-402.		1
20	A two-pool model to describe the IVIM cerebral perfusion. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2987-3000.	4.3	37
21	Quantitative DLA-based compressed sensing for T1-weighted acquisitions. Journal of Magnetic Resonance, 2017, 281, 26-30.	2.1	2
22	A mechanically tunable and efficient ceramic probe for MR-microscopy at 17 Tesla. AIP Conference Proceedings, 2017, , .	0.4	1
23	Modulation of water diffusion by activation-induced neural cell swelling in Aplysia Californica. Scientific Reports, 2017, 7, 6178.	3.3	15
24	In vivo online magnetic resonance quantification of absolute metabolite concentrations in microdialysate. Scientific Reports, 2016, 6, 36080.	3.3	6
25	fMRI contrast at high and ultrahigh magnetic fields: Insight from complementary methods. NeuroImage, 2015, 113, 37-43.	4.2	21
26	DLA based compressed sensing for high resolution MR microscopy of neuronal tissue. Journal of Magnetic Resonance, 2015, 259, 186-191.	2.1	5
27	Non-Gaussian Diffusion Imaging for Enhanced Contrast of Brain Tissue Affected by Ischemic Stroke. PLoS ONE, 2014, 9, e89225.	2.5	53
28	Sedation Agents Differentially Modulate Cortical and Subcortical Blood Oxygenation: Evidence from Ultra-High Field MRI at 17.2 T. PLoS ONE, 2014, 9, e100323.	2.5	14
29	Relationship between the diffusion time and the diffusion MRI signal observed at 17.2 tesla in the healthy rat brain cortex. Magnetic Resonance in Medicine, 2014, 72, 492-500.	3.0	54
30	Effects of hypotonic stress and ouabain on the apparent diffusion coefficient of water at cellular and tissue levels inAplysia. NMR in Biomedicine, 2014, 27, 280-290.	2.8	17
31	Characterization of Glioma Microcirculation and Tissue Features Using Intravoxel Incoherent Motion Magnetic Resonance Imaging in a Rat Brain Model. Investigative Radiology, 2014, 49, 485-490.	6.2	69
32	Functional magnetic resonance microscopy at single-cell resolution in Aplysia californica. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8667-8672.	7.1	32
33	Quantification of microvascular cerebral blood flux and lateâ€stage tumor compartmentalization in 9L gliosarcoma using flow enhanced MRI. NMR in Biomedicine, 2013, 26, 699-708.	2.8	0
34	Contrast magnetic resonance imaging for measurement of cartilage glycosaminoglycan content in dogs: A pilot study. Veterinary and Comparative Orthopaedics and Traumatology, 2013, 26, 100-104.	0.5	2
35	Highlighting manganese dynamics in the nervous system of Aplysia californica using MEMRI at ultra-high field. NeuroImage, 2013, 76, 264-271.	4.2	20
36	Water diffusion in brain cortex closely tracks underlying neuronal activity. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11636-11641.	7.1	73

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37	Diffusion kurtosis imaging and logâ€normal distribution function imaging enhance the visualisation of lesions in animal stroke models. NMR in Biomedicine, 2012, 25, 1295-1304.	2.8	52
38	The translocator protein ligand [18F]DPA-714 images glioma and activated microglia in vivo. European Journal of Nuclear Medicine and Molecular Imaging, 2012, 39, 811-823.	6.4	80
39	Experimental demonstration of diffusion signal enhancement in 2D DESIRE images. Journal of Magnetic Resonance, 2012, 218, 44-48.	2.1	1
40	Effects of Anesthetic Agents on Brain Blood Oxygenation Level Revealed with Ultra-High Field MRI. PLoS ONE, 2012, 7, e32645.	2.5	28
41	Postâ€processing correction of magnetization transfer effects in FENSI perfusion MRI data. Magnetic Resonance in Medicine, 2011, 65, 457-462.	3.0	2
42	Inductively coupled RF coil design for simultaneous microimaging of multiple samples. Concepts in Magnetic Resonance Part B, 2008, 33B, 236-243.	0.7	20
43	Central neural activity in rats with tinnitus evaluated with manganese-enhanced magnetic resonance imaging (MEMRI). Hearing Research, 2007, 228, 168-179.	2.0	130
44	Functional imaging with FENSI: Flowâ€enhanced signal intensity. Magnetic Resonance in Medicine, 2007, 58, 396-401.	3.0	9
45	Multiple echo NMR velocimetry: Fast and localized measurements of steady and pulsatile flows in small channels. Journal of Magnetic Resonance, 2007, 184, 337-343.	2.1	8
46	Hardware and Methods. , 2006, , 123-139.		2
47	Magnetic Resonance Imaging (MRI) of Water Diffusion in 2-Hydroxyethyl Methacrylate (HEMA) Gels. Materials Research Society Symposia Proceedings, 2006, 930, 1.	0.1	2
48	Parallel imaging for NMR microscopy at 14.1 Tesla. Magnetic Resonance in Medicine, 2005, 54, 9-13.	3.0	32
49	Reduced data acquisition time in multi-dimensional NMR spectroscopy using multiple-coil probes. Journal of Magnetic Resonance, 2005, 173, 134-139.	2.1	21
50	Signal enhancement by diffusion: experimental observation of the â€œDESIREâ€•effect. Journal of Magnetic Resonance, 2004, 170, 252-256.	2.1	7
51	3D micron-scale MRI of single biological cells. Solid State Nuclear Magnetic Resonance, 2004, 25, 138-141.	2.3	65
52	An eight-coil high-frequency probehead design for high-throughput nuclear magnetic resonance spectroscopy. Journal of Magnetic Resonance, 2004, 170, 206-212.	2.1	42
53	Characterization of the Physicochemical Parameters of Dense Core Atrial Gland and Lucent Red Hemiduct Vesicles inAplysiacalifornica. Analytical Chemistry, 2004, 76, 2331-2335.	6.5	11
54	Measuring Reaction Kinetics by Using Multiple Microcoil NMR Spectroscopy. Angewandte Chemie - International Edition, 2003, 42, 4669-4672.	13.8	54

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55	Magnetic resonance imaging of biological cells. Progress in Nuclear Magnetic Resonance Spectroscopy, 2003, 42, 69-93.	7.5	68
56	Advances toward MR microscopy of single biological cells. Applied Magnetic Resonance, 2002, 22, 139.	1.2	8
57	3D MR microscopy with resolution by by. Journal of Magnetic Resonance, 2002, 158, 178-182.	2.1	148
58	Design and testing of high sensitivity microreceiver coil apparatus for nuclear magnetic resonance and imaging. Review of Scientific Instruments, 2001, 72, 2171-2179.	1.3	65
59	Microscopic Magnetic Resonance Imaging. , 0, , .		5
60	Localized NMR Velocity Measurements in Small Channels. , 0, , 177-196.		0