Luis Hernandez-garcia

List of Publications by Year
in descending order

57 papers	3,199 citations	304368 22 h-index	197535 49 g-index
58 all docs	58 docs citations	58 times ranked	4978 citing authors

#	Article	IF	Citations
1	Velocity‐selective arterial spin labeling perfusion MRI: A review of the state of the art and recommendations for clinical implementation. Magnetic Resonance in Medicine, 2022, 88, 1528-1547.	1.9	27
2	Comparison of velocity‐selective arterial spin labeling schemes. Magnetic Resonance in Medicine, 2021, 85, 2027-2039.	1.9	13
3	A Combined Computational Fluid Dynamics and Arterial Spin Labeling MRI Modeling Strategy to Quantify Patient-Specific Cerebral Hemodynamics in Cerebrovascular Occlusive Disease. Frontiers in Bioengineering and Biotechnology, 2021, 9, 722445.	2.0	8
4	Practical considerations for territorial perfusion mapping in the cerebral circulation using super‐selective pseudo‐continuous arterial spin labeling. Magnetic Resonance in Medicine, 2020, 83, 492-504.	1.9	10
5	Fuzzy General Linear Modeling for Functional Magnetic Resonance Imaging Analysis. IEEE Transactions on Fuzzy Systems, 2020, 28, 100-111.	6.5	4
6	Optimizing MRF‐ASL scan design for precise quantification of brain hemodynamics using neural network regression. Magnetic Resonance in Medicine, 2020, 83, 1979-1991.	1.9	16
7	Theta Burst Transcranial Magnetic Stimulation of Fronto-Parietal Networks: Modulation by Mental State. Journal of Psychiatry and Brain Science, 2020, 5, .	0.3	1
8	Segregation of salience network predicts treatment response of depression to repetitive transcranial magnetic stimulation. NeuroImage: Clinical, 2019, 22, 101719.	1.4	25
9	Ant Colony Clustering for ROI Identification in Functional Magnetic Resonance Imaging. Computational Intelligence and Neuroscience, 2019, 2019, 1-9.	1.1	2
10	Improved sensitivity and temporal resolution in perfusion FMRI using velocity selective inversion ASL. Magnetic Resonance in Medicine, 2019, 81, 1004-1015.	1.9	21
11	Recent progress in ASL. NeuroImage, 2019, 187, 3-16.	2.1	76
12	Changes in brain connectivity during a sham-controlled, transcranial magnetic stimulation trial for depression. Journal of Affective Disorders, 2018, 232, 143-151.	2.0	58
13	Estimation of perfusion properties with MR Fingerprinting Arterial Spin Labeling. Magnetic Resonance Imaging, 2018, 50, 68-77.	1.0	34
14	The response of MRI contrast parameters in *in vitro* tissues and tissue mimicking phantoms to fractionation by histotripsy. Physics in Medicine and Biology, 2017, 62, 7167-7180.	1.6	14
15	MR‐based detection of individual histotripsy bubble clouds formed in tissues and phantoms. Magnetic Resonance in Medicine, 2016, 76, 1486-1493.	1.9	13
16	Support vector machine classification of arterial volume‐weighted arterial spin tagging images. Brain and Behavior, 2016, 6, e00549.	1.0	11
17	Evidence that neurovascular coupling underlying the BOLD effect increases with age during childhood. Human Brain Mapping, 2015, 36, 1-15.	1.9	34
18	Recommended implementation of arterial spin‐labeled perfusion MRI for clinical applications: A consensus of the ISMRM perfusion study group and the European consortium for ASL in dementia. Magnetic Resonance in Medicine, 2015, 73, spcone.	1.9	19

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19	Uncertainty Quantification in Transcranial Magnetic Stimulation via High-Dimensional Model Representation. IEEE Transactions on Biomedical Engineering, 2015, 62, 361-372.	2.5	38
20	Recommended implementation of arterial spin–labeled perfusion MRI for clinical applications: A consensus of the ISMRM perfusion study group and the European consortium for ASL in dementia. Magnetic Resonance in Medicine, 2015, 73, 102-116.	1.9	1,663
21	Controlling cavitation–based image contrast in focused ultrasound histotripsy surgery. Magnetic Resonance in Medicine, 2015, 73, 204-213.	1.9	23
22	Optimized simultaneous ASL and BOLD functional imaging of the whole brain. Journal of Magnetic Resonance Imaging, 2014, 39, 1104-1117.	1.9	31
23	Neural effects of short-term training on working memory. Cognitive, Affective and Behavioral Neuroscience, 2014, 14, 147-160.	1.0	100
24	Sensitivity of TMS-induced electric fields to the uncertainty in coil placement and brain anatomy. , 2014, , .		2
25	Functional perfusion imaging using pseudocontinuous arterial spin labeling with low–flip–angle segmented 3D spiral readouts. Magnetic Resonance in Medicine, 2013, 69, 382-390.	1.9	31
26	Single-source multi-coil transcranial magnetic stimulators for deep and focused stimulation of the human brain. , 2013, , .		2
27	Numerical Analysis and Design of Single-Source Multicoil TMS for Deep and Focused Brain Stimulation. IEEE Transactions on Biomedical Engineering, 2013, 60, 2771-2782.	2.5	44
28	Uncertainty quantification in transcranial magnetic stimulation. , 2013, , .		1
29	Magnetic resonance imaging of time–varying magnetic fields from therapeutic devices. NMR in Biomedicine, 2013, 26, 718-724.	1.6	3
30	Feeling Blue or Turquoise? Emotional Differentiation in Major Depressive Disorder. Psychological Science, 2012, 23, 1410-1416.	1.8	134
31	Advances in longitudinal MRI diagnostic tests. Expert Opinion on Medical Diagnostics, 2012, 6, 309-321.	1.6	5
32	A probabilistic foundation for dynamical systems: theoretical background and mathematical formulation. Journal of Mathematical Chemistry, 2012, 50, 850-869.	0.7	22
33	A probabilistic foundation for dynamical systems: phenomenological reasoning and principal characteristics of probabilistic evolution. Journal of Mathematical Chemistry, 2012, 50, 870-880.	0.7	21
34	Challenges to attention: A continuous arterial spin labeling (ASL) study of the effects of distraction on sustained attention. NeuroImage, 2011, 54, 1518-1529.	2.1	94
35	Real–time functional MRI using pseudo–continuous arterial spin labeling. Magnetic Resonance in Medicine, 2011, 65, 1570-1577.	1.9	11
36	B_0 field inhomogeneity considerations in pseudo–continuous arterial spin labeling (pCASL): effects on tagging efficiency and correction strategy. NMR in Biomedicine, 2011, 24, 1202-1209.	1.6	58

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37	Neuronal event detection in fMRI time series using iterative deconvolution techniques. Magnetic Resonance Imaging, 2011, 29, 353-364.	1.0	27
38	Quantitative analysis of arterial spin labeling FMRI data using a general linear model. Magnetic Resonance Imaging, 2010, 28, 919-927.	1.0	26
39	Temporal summation of heat pain in humans: Evidence supporting thalamocortical modulation. Pain, 2010, 150, 93-102.	2.0	26
40	A numerically optimized active shield for improved transcranial magnetic stimulation targeting. Brain Stimulation, 2010, 3, 218-225.	0.7	15
41	â€œFirst Painâ€•in Humans: Convergent and Specific Forebrain Responses. Molecular Pain, 2010, 6, 1744-8069-6-81.	1.0	7
42	Complexâ€•valued analysis of arterial spin labelingâ€"based functional magnetic resonance imaging signals. Magnetic Resonance in Medicine, 2009, 62, 1597-1608.	1.9	8
43	Optimizing CompCor in a cognitive ASL-FMRI experiment: A Sustained Attention Task. NeuroImage, 2009, 47, S59.	2.1	0
44	Introduction to Functional MRI Hardware. Neuromethods, 2009, , 31-67.	0.2	0
45	An approach to MRI-based dosimetry for transcranial magnetic stimulation. NeuroImage, 2007, 36, 1171-1178.	2.1	8
46	Magnetization transfer effects on the efficiency of flow-driven adiabatic fast passage inversion of arterial blood. NMR in Biomedicine, 2007, 20, 733-742.	1.6	13
47	Functional imaging with Turbo-CASL: Transit time and multislice imaging considerations. Magnetic Resonance in Medicine, 2007, 57, 661-669.	1.9	11
48	Vascular dynamics and BOLD fMRI: CBF level effects and analysis considerations. NeuroImage, 2006, 32, 1642-1655.	2.1	56
49	Estimation efficiency and statistical power in arterial spin labeling fMRI. NeuroImage, 2006, 33, 103-114.	2.1	71
50	Application of selective saturation to image the dynamics of arterial blood flow during brain activation using magnetic resonance imaging. Magnetic Resonance in Medicine, 2006, 55, 816-825.	1.9	9
51	Quantification of perfusion fMRI using a numerical model of arterial spin labeling that accounts for dynamic transit time effects. Magnetic Resonance in Medicine, 2005, 54, 955-964.	1.9	26
52	Accounting for nonlinear BOLD effects in fMRI: parameter estimates and a model for prediction in rapid event-related studies. NeuroImage, 2005, 25, 206-218.	2.1	106
53	Arterial spin labeling for quantitative functional MRI. , 2004, 2004, 5230-3.		3
54	Fast, pseudo-continuous arterial spin labeling for functional imaging using a two-coil system. Magnetic Resonance in Medicine, 2004, 51, 577-585.	1.9	33

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55	A new non-invasive approach for monitoring respiratory movements of sleeping subjects. Physiological Measurement, 1995, 16, 161-167.	1.2	76
56	Perfusion Based Functional MRI. , 0, , .		0
57	A Beginner's Guide to Arterial Spin Labeling (ASL) Image Processing. Frontiers in Radiology, 0, 2, .	1.2	8