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	Recommended implementation of arterial spinâ€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
2	Feeling Blue or Turquoise? Emotional Differentiation in Major Depressive Disorder. Psychological Science, 2012, 23, 1410-1416.	1.8	134
3	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
4	Neural effects of short-term training on working memory. Cognitive, Affective and Behavioral Neuroscience, 2014, 14, 147-160.	1.0	100
5	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
6	A new non-invasive approach for monitoring respiratory movements of sleeping subjects. Physiological Measurement, 1995, 16, 161-167.	1.2	76
7	Recent progress in ASL. NeuroImage, 2019, 187, 3-16.	2.1	76
8	Estimation efficiency and statistical power in arterial spin labeling fMRI. NeuroImage, 2006, 33, 103-114.	2.1	71
9	B₀ field inhomogeneity considerations in pseudoâ€continuous arterial spin labeling (pCASL): effects on tagging efficiency and correction strategy. NMR in Biomedicine, 2011, 24, 1202-1209.	1.6	58
10	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
11	Vascular dynamics and BOLD fMRI: CBF level effects and analysis considerations. NeuroImage, 2006, 32, 1642-1655.	2.1	56
12	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
13	Uncertainty Quantification in Transcranial Magnetic Stimulation via High-Dimensional Model Representation. IEEE Transactions on Biomedical Engineering, 2015, 62, 361-372.	2.5	38
14	Evidence that neurovascular coupling underlying the BOLD effect increases with age during childhood. Human Brain Mapping, 2015, 36, 1-15.	1.9	34
15	Estimation of perfusion properties with MR Fingerprinting Arterial Spin Labeling. Magnetic Resonance Imaging, 2018, 50, 68-77.	1.0	34
16	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
17	Functional perfusion imaging using pseudocontinuous arterial spin labeling with lowâ€flipâ€angle segmented 3D spiral readouts. Magnetic Resonance in Medicine, 2013, 69, 382-390.	1.9	31
18	Optimized simultaneous ASL and BOLD functional imaging of the whole brain. Journal of Magnetic Resonance Imaging, 2014, 39, 1104-1117.	1.9	31

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19	Neuronal event detection in fMRI time series using iterative deconvolution techniques. Magnetic Resonance Imaging, 2011, 29, 353-364.	1.0	27
20	Velocityâ€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
21	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
22	Quantitative analysis of arterial spin labeling FMRI data using a general linear model. Magnetic Resonance Imaging, 2010, 28, 919-927.	1.0	26
23	Temporal summation of heat pain in humans: Evidence supporting thalamocortical modulation. Pain, 2010, 150, 93-102.	2.0	26
24	Segregation of salience network predicts treatment response of depression to repetitive transcranial magnetic stimulation. NeuroImage: Clinical, 2019, 22, 101719.	1.4	25
25	Controlling cavitationâ€based image contrast in focused ultrasound histotripsy surgery. Magnetic Resonance in Medicine, 2015, 73, 204-213.	1.9	23
26	A probabilistic foundation for dynamical systems: theoretical background and mathematical formulation. Journal of Mathematical Chemistry, 2012, 50, 850-869.	0.7	22
27	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
28	Improved sensitivity and temporal resolution in perfusion FMRI using velocity selective inversion ASL. Magnetic Resonance in Medicine, 2019, 81, 1004-1015.	1.9	21
29	Recommended implementation of arterial spinâ€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
30	Optimizing MRFâ€ASL scan design for precise quantification of brain hemodynamics using neural network regression. Magnetic Resonance in Medicine, 2020, 83, 1979-1991.	1.9	16
31	A numerically optimized active shield for improved transcranial magnetic stimulation targeting. Brain Stimulation, 2010, 3, 218-225.	0.7	15
32	The response of MRI contrast parameters inin vitrotissues and tissue mimicking phantoms to fractionation by histotripsy. Physics in Medicine and Biology, 2017, 62, 7167-7180.	1.6	14
33	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
34	MRâ€based detection of individual histotripsy bubble clouds formed in tissues and phantoms. Magnetic Resonance in Medicine, 2016, 76, 1486-1493.	1.9	13
35	Comparison of velocityâ€selective arterial spin labeling schemes. Magnetic Resonance in Medicine, 2021, 85, 2027-2039.	1.9	13
36	Functional imaging with Turbo-CASL: Transit time and multislice imaging considerations. Magnetic Resonance in Medicine, 2007, 57, 661-669.	1.9	11

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37	Realâ€time functional MRI using pseudoâ€continuous arterial spin labeling. Magnetic Resonance in Medicine, 2011, 65, 1570-1577.	1.9	11
38	Support vector machine classification of arterial volumeâ€weighted arterial spin tagging images. Brain and Behavior, 2016, 6, e00549.	1.0	11
39	Practical considerations for territorial perfusion mapping in the cerebral circulation using superâ€selective pseudoâ€continuous arterial spin labeling. Magnetic Resonance in Medicine, 2020, 83, 492-504.	1.9	10
40	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
41	An approach to MRI-based dosimetry for transcranial magnetic stimulation. NeuroImage, 2007, 36, 1171-1178.	2.1	8
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	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
44	A Beginner's Guide to Arterial Spin Labeling (ASL) Image Processing. Frontiers in Radiology, 0, 2, .	1.2	8
45	â€œFirst Painâ€in Humans: Convergent and Specific Forebrain Responses. Molecular Pain, 2010, 6, 1744-8069-6-81.	1.0	7
46	Advances in longitudinal MRI diagnostic tests. Expert Opinion on Medical Diagnostics, 2012, 6, 309-321.	1.6	5
47	Fuzzy General Linear Modeling for Functional Magnetic Resonance Imaging Analysis. IEEE Transactions on Fuzzy Systems, 2020, 28, 100-111.	6.5	4
48	Arterial spin labeling for quantitative functional MRI. , 2004, 2004, 5230-3.		3
49	Magnetic resonance imaging of timeâ€varying magnetic fields from therapeutic devices. NMR in Biomedicine, 2013, 26, 718-724.	1.6	3
50	Single-source multi-coil transcranial magnetic stimulators for deep and focused stimulation of the human brain. , 2013, , .		2
51	Sensitivity of TMS-induced electric fields to the uncertainty in coil placement and brain anatomy. , 2014, , .		2
52	Ant Colony Clustering for ROI Identification in Functional Magnetic Resonance Imaging. Computational Intelligence and Neuroscience, 2019, 2019, 1-9.	1.1	2
53	Uncertainty quantification in transcranial magnetic stimulation. , 2013, , .		1
54	Theta Burst Transcranial Magnetic Stimulation of Fronto-Parietal Networks: Modulation by Mental State. Journal of Psychiatry and Brain Science, 2020, 5, .	0.3	1

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55	Optimizing CompCor in a cognitive ASL-FMRI experiment: A Sustained Attention Task. NeuroImage, 2009, 47, S59.	2.1	0
56	Perfusion Based Functional MRI. , 0, , .		0
57	Introduction to Functional MRI Hardware. Neuromethods, 2009, , 31-67.	0.2	0