

Antoine Lutti

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

4,771
citations

126708

33
h-index

118652

62
g-index

77
all docs

77
docs citations

77
times ranked

5639
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative multi-parameter mapping of R1, PD*, MT, and R2* at 3T: a multi-center validation. <i>Frontiers in Neuroscience</i> , 2013, 7, 95.	1.4	428
2	Using high-resolution quantitative mapping of R1 as an index of cortical myelination. <i>NeuroImage</i> , 2014, 93, 176-188.	2.1	299
3	Confirmation of functional zones within the human subthalamic nucleus: Patterns of connectivity and sub-parcellation using diffusion weighted imaging. <i>NeuroImage</i> , 2012, 60, 83-94.	2.1	294
4	Widespread age-related differences in the human brain microstructure revealed by quantitative magnetic resonance imaging. <i>Neurobiology of Aging</i> , 2014, 35, 1862-1872.	1.5	248
5	Mapping the Human Cortical Surface by Combining Quantitative T1 with Retinotopy. <i>Cerebral Cortex</i> , 2013, 23, 2261-2268.	1.6	236
6	<i>In Vivo</i> Functional and Myeloarchitectonic Mapping of Human Primary Auditory Areas. <i>Journal of Neuroscience</i> , 2012, 32, 16095-16105.	1.7	206
7	Detecting Representations of Recent and Remote Autobiographical Memories in vmPFC and Hippocampus. <i>Journal of Neuroscience</i> , 2012, 32, 16982-16991.	1.7	191
8	Unified segmentation based correction of R1 brain maps for RF transmit field inhomogeneities (UNICORT). <i>NeuroImage</i> , 2011, 54, 2116-2124.	2.1	168
9	Advances in MRI-based computational neuroanatomy. <i>Current Opinion in Neurology</i> , 2015, 28, 313-322.	1.8	166
10	hMRI – A toolbox for quantitative MRI in neuroscience and clinical research. <i>NeuroImage</i> , 2019, 194, 191-210.	2.1	161
11	Optimization and validation of methods for mapping of the radiofrequency transmit field at 3T. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 229-238.	1.9	159
12	Robust and Fast Whole Brain Mapping of the RF Transmit Field B1 at 7T. <i>PLoS ONE</i> , 2012, 7, e32379.	1.1	127
13	The habenula encodes negative motivational value associated with primary punishment in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11858-11863.	3.3	116
14	New tissue priors for improved automated classification of subcortical brain structures on MRI. <i>NeuroImage</i> , 2016, 130, 157-166.	2.1	104
15	High-resolution functional MRI at 3 T: 3D/2D echo-planar imaging with optimized physiological noise correction. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1657-1664.	1.9	93
16	A general linear relaxometry model of R_2^* using imaging data. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1309-1314.	1.9	90
17	Investigating the functions of subregions within anterior hippocampus. <i>Cortex</i> , 2015, 73, 240-256.	1.1	89
18	Evolution of white matter tract microstructure across the life span. <i>Human Brain Mapping</i> , 2019, 40, 2252-2268.	1.9	88

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19	Neurobiological origin of spurious brain morphological changes: A quantitative MRI study. <i>Human Brain Mapping</i> , 2016, 37, 1801-1815.	1.9	87
20	Brain tissue properties differentiate between motor and limbic basal ganglia circuits. <i>Human Brain Mapping</i> , 2014, 35, 5083-5092.	1.9	82
21	High precision anatomy for MEG. <i>NeuroImage</i> , 2014, 86, 583-591.	2.1	80
22	The extrastriate body area is involved in illusory limb ownership. <i>NeuroImage</i> , 2014, 86, 514-524.	2.1	79
23	Preparing for Selective Inhibition within Frontostriatal Loops. <i>Journal of Neuroscience</i> , 2013, 33, 18087-18097.	1.7	73
24	Quantitative MRI provides markers of intra-, inter-regional, and age-related differences in young adult cortical microstructure. <i>NeuroImage</i> , 2018, 182, 429-440.	2.1	71
25	Estimating the apparent transverse relaxation time ($R2^*$) from images with different contrasts (ESTATICS) reduces motion artifacts. <i>Frontiers in Neuroscience</i> , 2014, 8, 278.	1.4	68
26	Disentangling in vivo the effects of iron content and atrophy on the ageing human brain. <i>NeuroImage</i> , 2014, 103, 280-289.	2.1	68
27	Prospective motion correction of 3D echo-planar imaging data for functional MRI using optical tracking. <i>NeuroImage</i> , 2015, 113, 1-12.	2.1	68
28	Discrimination of cortical laminae using MEG. <i>NeuroImage</i> , 2014, 102, 885-893.	2.1	65
29	Multiparametric brainstem segmentation using a modified multivariate mixture of Gaussians. <i>NeuroImage: Clinical</i> , 2013, 2, 684-694.	1.4	58
30	Quantitative magnetization transfer in in vivo healthy human skeletal muscle at 3 T. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1739-1748.	1.9	57
31	The quest for the best: The impact of different EPI sequences on the sensitivity of random effect fMRI group analyses. <i>NeuroImage</i> , 2016, 126, 49-59.	2.1	55
32	Characterizing Aging in the Human Brainstem Using Quantitative Multimodal MRI Analysis. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 462.	1.0	50
33	Converging patterns of aging-associated brain volume loss and tissue microstructure differences. <i>Neurobiology of Aging</i> , 2020, 88, 108-118.	1.5	43
34	Establishing intra- and inter-vendor reproducibility of T_1 relaxation time measurements with 3T MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 454-465.	1.9	37
35	Networks of myelin covariance. <i>Human Brain Mapping</i> , 2018, 39, 1532-1554.	1.9	36
36	Effective Connectivity within Human Primary Visual Cortex Predicts Interindividual Diversity in Illusory Perception. <i>Journal of Neuroscience</i> , 2013, 33, 18781-18791.	1.7	33

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37	Do we need to revise the tripartite subdivision hypothesis of the human subthalamic nucleus (STN)? Response to Alkemade and Forstmann. <i>NeuroImage</i> , 2015, 110, 1-2.	2.1	33
38	Controlling motion artefact levels in MR images by suspending data acquisition during periods of head motion. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2415-2426.	1.9	33
39	Computational anatomy for studying use-dependant brain plasticity. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 380.	1.0	31
40	Mean Oxygen Saturation during Sleep Is Related to Specific Brain Atrophy Pattern. <i>Annals of Neurology</i> , 2020, 87, 921-930.	2.8	28
41	Impact of brain aging and neurodegeneration on cognition. <i>Current Opinion in Neurology</i> , 2013, 26, 640-645.	1.8	27
42	Example dataset for the hMRI toolbox. <i>Data in Brief</i> , 2019, 25, 104132.	0.5	24
43	Temporal trajectory of brain tissue property changes induced by electroconvulsive therapy. <i>NeuroImage</i> , 2021, 232, 117895.	2.1	20
44	Restoring statistical validity in group analyses of motion-corrupted MRI data. <i>Human Brain Mapping</i> , 2022, 43, 1973-1983.	1.9	20
45	Tissue- and column-specific measurements from multi-parameter mapping of the human cervical spinal cord at 3 T. <i>NMR in Biomedicine</i> , 2013, 26, 1823-1830.	1.6	19
46	Bundle myelin fraction (BMF) mapping of different white matter connections using microstructure informed tractography. <i>NeuroImage</i> , 2022, 249, 118922.	2.1	15
47	Spatial Resolution and Imaging Encoding fMRI Settings for Optimal Cortical and Subcortical Motor Somatotopy in the Human Brain. <i>Frontiers in Neuroscience</i> , 2019, 13, 571.	1.4	14
48	Brain tissue properties link cardio-vascular risk factors, mood and cognitive performance in the CoLaus PsyCoLaus epidemiological cohort. <i>Neurobiology of Aging</i> , 2021, 102, 50-63.	1.5	14
49	Measurement of diffusion in the presence of shear flow. <i>Journal of Magnetic Resonance</i> , 2006, 180, 83-92.	1.2	13
50	Measurement of multilamellar onion dimensions under shear using frequency domain pulsed gradient NMR. <i>Journal of Magnetic Resonance</i> , 2007, 187, 251-257.	1.2	12
51	Flexible proton density (PD) mapping using multi-contrast variable flip angle (VFA) data. <i>NeuroImage</i> , 2019, 186, 464-475.	2.1	12
52	Undulations and fluctuations in a lamellar phase lyotropic liquid crystal and their suppression by weak shear flow. <i>Physical Review E</i> , 2006, 73, 011710.	0.8	11
53	Signatures of life course socioeconomic conditions in brain anatomy. <i>Human Brain Mapping</i> , 2022, 43, 2582-2606.	1.9	10
54	Effect of shear on an onion texture. <i>European Physical Journal E</i> , 2007, 24, 129-137.	0.7	9

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55	Modelling Temporal Stability of EPI Time Series Using Magnitude Images Acquired with Multi-Channel Receiver Coils. PLoS ONE, 2012, 7, e52075.	1.1	9
56	Using Solvent Diffusion as a Probe To Characterize Lamellar Systems. Applied Magnetic Resonance, 2008, 33, 293-310.	0.6	6
57	In chronic complete spinal cord injury supraspinal changes detected by quantitative MRI are confined to volume reduction in the caudal brainstem. NeuroImage: Clinical, 2021, 31, 102716.	1.4	5
58	In vivo Estimation of Axonal Morphology From Magnetic Resonance Imaging and Electroencephalography Data. Frontiers in Neuroscience, 2022, 16, 874023.	1.4	5
59	Dopaminergic modulation of motor network compensatory mechanisms in Parkinson's disease. Human Brain Mapping, 2019, 40, 4397-4416.	1.9	4
60	Brain signals of a Surprise-Actor-Critic model: Evidence for multiple learning modules in human decision making. NeuroImage, 2022, 246, 118780.	2.1	4
61	Clinical phenotype modulates brain's myelin and iron content in temporal lobe epilepsy. Brain Structure and Function, 2022, 227, 901-911.	1.2	3
62	Abnormal brain iron accumulation in obstructive sleep apnea: A quantitative MRI study in the HypnoLaus cohort. Journal of Sleep Research, 0, , .	1.7	3
63	Effective connectivity in human primary visual cortex predicts inter-individual difference in contextual illusion. Journal of Vision, 2013, 13, 115-115.	0.1	1
64	Fast Whole-Brain T1 Mapping at 1 mm Resolution with RF Bias Correction. NeuroImage, 2009, 47, S50.	2.1	0
65	NIMG-34. THE IMPACT OF TUMOR TREATING FIELDS (TTFIELDS) ON BRAIN ANATOMY USING COMPUTATIONAL ANATOMY ANALYSIS. Neuro-Oncology, 2018, 20, vi183-vi183.	0.6	0
66	Computational anatomic analysis to evaluate the impact of Tumor Treating Fields (TTFields) on brain anatomy. , 2022, , .		0