

Antoine Lutti

List of Publications by Year in Descending Order

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Version: 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

3,512

citations

33

h-index

59

g-index

77

ext. papers

4,490

ext. citations

5.5

avg, IF

5.35

L-index

#	Paper	IF	Citations
62	Restoring statistical validity in group analyses of motion-corrupted MRI data.. <i>Human Brain Mapping</i> , 2022 ,	5.9	4
61	Bundle Myelin Fraction (BMF) Mapping of Different White Matter Connections Using Microstructure Informed Tractography.. <i>NeuroImage</i> , 2022 , 118922	7.9	2
60	Estimation of Axonal Morphology From Magnetic Resonance Imaging and Electroencephalography Data.. <i>Frontiers in Neuroscience</i> , 2022 , 16, 874023	5.1	1
59	Clinical phenotype modulates brain's myelin and iron content in temporal lobe epilepsy. <i>Brain Structure and Function</i> , 2021 , 1	4	0
58	Brain signals of a Surprise-Actor-Critic model: Evidence for multiple learning modules in human decision making. <i>NeuroImage</i> , 2021 , 246, 118780	7.9	0
57	Temporal trajectory of brain tissue property changes induced by electroconvulsive therapy. <i>NeuroImage</i> , 2021 , 232, 117895	7.9	6
56	Brain tissue properties link cardio-vascular risk factors, mood and cognitive performance in the CoLausPsyCoLaus epidemiological cohort. <i>Neurobiology of Aging</i> , 2021 , 102, 50-63	5.6	1
55	In chronic complete spinal cord injury supraspinal changes detected by quantitative MRI are confined to volume reduction in the caudal brainstem. <i>NeuroImage: Clinical</i> , 2021 , 31, 102716	5.3	0
54	Mean Oxygen Saturation during Sleep Is Related to Specific Brain Atrophy Pattern. <i>Annals of Neurology</i> , 2020 , 87, 921-930	9.4	8
53	Converging patterns of aging-associated brain volume loss and tissue microstructure differences. <i>Neurobiology of Aging</i> , 2020 , 88, 108-118	5.6	21
52	Evolution of white matter tract microstructure across the life span. <i>Human Brain Mapping</i> , 2019 , 40, 2252-2268	5.3	43
51	hMRI - A toolbox for quantitative MRI in neuroscience and clinical research. <i>NeuroImage</i> , 2019 , 194, 191-210	7.9	73
50	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	5.1	7
49	Example dataset for the hMRI toolbox. <i>Data in Brief</i> , 2019 , 25, 104132	1.2	12
48	Dopaminergic modulation of motor network compensatory mechanisms in Parkinson's disease. <i>Human Brain Mapping</i> , 2019 , 40, 4397-4416	5.9	2
47	Establishing intra- and inter-vendor reproducibility of T relaxation time measurements with 3T MRI. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 454-465	4.4	24
46	Flexible proton density (PD) mapping using multi-contrast variable flip angle (VFA) data. <i>NeuroImage</i> , 2019 , 186, 464-475	7.9	8

45	Networks of myelin covariance. <i>Human Brain Mapping</i> , 2018 , 39, 1532-1554	5.9	18
44	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	4.4	14
43	Quantitative MRI provides markers of intra-, inter-regional, and age-related differences in young adult cortical microstructure. <i>NeuroImage</i> , 2018 , 182, 429-440	7.9	45
42	NIMG-34. THE IMPACT OF TUMOR TREATING FIELDS (TTFIELDS) ON BRAIN ANATOMY USING COMPUTATIONAL ANATOMY ANALYSIS. <i>Neuro-Oncology</i> , 2018 , 20, vi183-vi183	1	78
41	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	7.9	29
40	New tissue priors for improved automated classification of subcortical brain structures on MRI. <i>NeuroImage</i> , 2016 , 130, 157-166	7.9	65
39	Neurobiological origin of spurious brain morphological changes: A quantitative MRI study. <i>Human Brain Mapping</i> , 2016 , 37, 1801-15	5.9	62
38	Prospective motion correction of 3D echo-planar imaging data for functional MRI using optical tracking. <i>NeuroImage</i> , 2015 , 113, 1-12	7.9	53
37	A general linear relaxometry model of R1 using imaging data. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1309-14	4.4	66
36	Advances in MRI-based computational neuroanatomy: from morphometry to in-vivo histology. <i>Current Opinion in Neurology</i> , 2015 , 28, 313-22	7.1	112
35	Investigating the functions of subregions within anterior hippocampus. <i>Cortex</i> , 2015 , 73, 240-56	3.8	61
34	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	7.9	24
33	High precision anatomy for MEG. <i>NeuroImage</i> , 2014 , 86, 583-91	7.9	67
32	Using high-resolution quantitative mapping of R1 as an index of cortical myelination. <i>NeuroImage</i> , 2014 , 93 Pt 2, 176-88	7.9	220
31	Computational anatomy for studying use-dependant brain plasticity. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 380	3.3	23
30	Estimating the apparent transverse relaxation time (R2(*)) from images with different contrasts (ESTATICS) reduces motion artifacts. <i>Frontiers in Neuroscience</i> , 2014 , 8, 278	5.1	39
29	Discrimination of cortical laminae using MEG. <i>NeuroImage</i> , 2014 , 102 Pt 2, 885-93	7.9	54
28	Disentangling in vivo the effects of iron content and atrophy on the ageing human brain. <i>NeuroImage</i> , 2014 , 103, 280-289	7.9	47

27	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, 11858-63	11.5	93
26	Brain tissue properties differentiate between motor and limbic basal ganglia circuits. <i>Human Brain Mapping</i> , 2014 , 35, 5083-92	5.9	63
25	Widespread age-related differences in the human brain microstructure revealed by quantitative magnetic resonance imaging. <i>Neurobiology of Aging</i> , 2014 , 35, 1862-72	5.6	182
24	The extrastriate body area is involved in illusory limb ownership. <i>NeuroImage</i> , 2014 , 86, 514-24	7.9	52
23	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, 1657-64	4.4	61
22	Multiparametric brainstem segmentation using a modified multivariate mixture of Gaussians. <i>NeuroImage: Clinical</i> , 2013 , 2, 684-94	5.3	48
21	Impact of brain aging and neurodegeneration on cognition: evidence from MRI. <i>Current Opinion in Neurology</i> , 2013 , 26, 640-5	7.1	21
20	Mapping the human cortical surface by combining quantitative T(1) with retinotopy. <i>Cerebral Cortex</i> , 2013 , 23, 2261-8	5.1	189
19	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, 1823-30	4.4	18
18	Preparing for selective inhibition within frontostriatal loops. <i>Journal of Neuroscience</i> , 2013 , 33, 18087-97	6.6	55
17	Effective connectivity within human primary visual cortex predicts interindividual diversity in illusory perception. <i>Journal of Neuroscience</i> , 2013 , 33, 18781-91	6.6	26
16	Characterizing aging in the human brainstem using quantitative multimodal MRI analysis. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 462	3.3	43
15	Quantitative multi-parameter mapping of R1, PD(*), MT, and R2(*) at 3T: a multi-center validation. <i>Frontiers in Neuroscience</i> , 2013 , 7, 95	5.1	301
14	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	7.9	246
13	In vivo functional and myeloarchitectonic mapping of human primary auditory areas. <i>Journal of Neuroscience</i> , 2012 , 32, 16095-105	6.6	164
12	Detecting representations of recent and remote autobiographical memories in vmPFC and hippocampus. <i>Journal of Neuroscience</i> , 2012 , 32, 16982-91	6.6	154
11	Robust and fast whole brain mapping of the RF transmit field B1 at 7T. <i>PLoS ONE</i> , 2012 , 7, e32379	3.7	84
10	Modelling temporal stability of EPI time series using magnitude images acquired with multi-channel receiver coils. <i>PLoS ONE</i> , 2012 , 7, e52075	3.7	9

9	Unified segmentation based correction of R1 brain maps for RF transmit field inhomogeneities (UNICORT). <i>NeuroImage</i> , 2011 , 54, 2116-24	7.9	121
8	Optimization and validation of methods for mapping of the radiofrequency transmit field at 3T. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 229-38	4.4	109
7	Quantitative magnetization transfer in in vivo healthy human skeletal muscle at 3 T. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1739-48	4.4	48
6	Using Solvent Diffusion as a Probe To Characterize Lamellar Systems. <i>Applied Magnetic Resonance</i> , 2008 , 33, 293-310	0.8	6
5	Measurement of multilamellar onion dimensions under shear using frequency domain pulsed gradient NMR. <i>Journal of Magnetic Resonance</i> , 2007 , 187, 251-7	3	12
4	Effect of shear on an onion texture. <i>European Physical Journal E</i> , 2007 , 24, 129-37	1.5	8
3	Measurement of diffusion in the presence of shear flow. <i>Journal of Magnetic Resonance</i> , 2006 , 180, 83-93	3	12
2	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	2.4	10
1	Quantitative MRI Provides Markers Of Intra-, Inter-Regional, And Age-Related Differences In Young Adult Cortical Microstructure		9