

Ludovica Griffanti

List of Publications by Citations

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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.

84
papers

5,587
citations

25
h-index

74
g-index

103
ext. papers

8,640
ext. citations

6.6
avg, IF

5.32
L-index

#	Paper	IF	Citations
84	Automatic denoising of functional MRI data: combining independent component analysis and hierarchical fusion of classifiers. <i>NeuroImage</i> , 2014 , 90, 449-68	7.9	995
83	Resting-state fMRI in the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 144-68	7.9	865
82	Multimodal population brain imaging in the UK Biobank prospective epidemiological study. <i>Nature Neuroscience</i> , 2016 , 19, 1523-1536	25.5	739
81	ICA-based artefact removal and accelerated fMRI acquisition for improved resting state network imaging. <i>NeuroImage</i> , 2014 , 95, 232-47	7.9	708
80	Image processing and Quality Control for the first 10,000 brain imaging datasets from UK Biobank. <i>NeuroImage</i> , 2018 , 166, 400-424	7.9	415
79	Hand classification of fMRI ICA noise components. <i>NeuroImage</i> , 2017 , 154, 188-205	7.9	249
78	BIANCA (Brain Intensity AbNormality Classification Algorithm): A new tool for automated segmentation of white matter hyperintensities. <i>NeuroImage</i> , 2016 , 141, 191-205	7.9	184
77	Medium-term effects of SARS-CoV-2 infection on multiple vital organs, exercise capacity, cognition, quality of life and mental health, post-hospital discharge. <i>EClinicalMedicine</i> , 2021 , 31, 100683	11.3	164
76	Classification and characterization of periventricular and deep white matter hyperintensities on MRI: A study in older adults. <i>NeuroImage</i> , 2018 , 170, 174-181	7.9	110
75	Basal ganglia dysfunction in idiopathic REM sleep behaviour disorder parallels that in early Parkinson's disease. <i>Brain</i> , 2016 , 139, 2224-34	11.2	84
74	SARS-CoV-2 is associated with changes in brain structure in UK Biobank.. <i>Nature</i> , 2022 ,	50.4	74
73	Association of Cardiovascular Risk Factors With MRI Indices of Cerebrovascular Structure and Function and White Matter Hyperintensities in Young Adults. <i>JAMA - Journal of the American Medical Association</i> , 2018 , 320, 665-673	27.4	66
72	Theory of mind in amnesic mild cognitive impairment: an FMRI study. <i>Journal of Alzheimer's Disease</i> , 2012 , 29, 25-37	4.3	62
71	Study protocol: The Whitehall II imaging sub-study. <i>BMC Psychiatry</i> , 2014 , 14, 159	4.2	58
70	Challenges in the reproducibility of clinical studies with resting state fMRI: An example in early Parkinson's disease. <i>NeuroImage</i> , 2016 , 124, 704-713	7.9	55
69	Associations between self-reported sleep quality and white matter in community-dwelling older adults: A prospective cohort study. <i>Human Brain Mapping</i> , 2017 , 38, 5465-5473	5.9	54
68	Long-term cerebral white and gray matter changes after preeclampsia. <i>Neurology</i> , 2017 , 88, 1256-1264	6.5	51

67	High-Dimensional ICA Analysis Detects Within-Network Functional Connectivity Damage of Default-Mode and Sensory-Motor Networks in Alzheimer's Disease. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 43	3.3	38
66	Effective artifact removal in resting state fMRI data improves detection of DMN functional connectivity alteration in Alzheimer's disease. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 449	3.3	35
65	Aberrant functional connectivity within the basal ganglia of patients with Parkinson's disease. <i>NeuroImage: Clinical</i> , 2015 , 8, 126-32	5.3	31
64	Multimodal brain-age prediction and cardiovascular risk: The Whitehall II MRI sub-study. <i>NeuroImage</i> , 2020 , 222, 117292	7.9	31
63	Brain imaging before and after COVID-19 in UK Biobank 2021 ,		31
62	Multistimulation group therapy in Alzheimer's disease promotes changes in brain functioning. <i>Neurorehabilitation and Neural Repair</i> , 2015 , 29, 13-24	4.7	29
61	Assessing corpus callosum changes in Alzheimer's disease: comparison between tract-based spatial statistics and atlas-based tractography. <i>PLoS ONE</i> , 2012 , 7, e35856	3.7	28
60	Possible association between SNAP-25 single nucleotide polymorphisms and alterations of categorical fluency and functional MRI parameters in Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2014 , 42, 1015-28	4.3	26
59	White Matter Imaging Correlates of Early Cognitive Impairment Detected by the Montreal Cognitive Assessment After Transient Ischemic Attack and Minor Stroke. <i>Stroke</i> , 2017 , 48, 1539-1547	6.7	25
58	Altered and asymmetric default mode network activity in a "hypnotic virtuoso": an fMRI and EEG study. <i>Consciousness and Cognition</i> , 2012 , 21, 393-400	2.6	24
57	Common Genetic Variation Indicates Separate Causes for Periventricular and Deep White Matter Hyperintensities. <i>Stroke</i> , 2020 , 51, 2111-2121	6.7	23
56	Abnormal development of sensory-motor, visual temporal and parahippocampal cortex in children with learning disabilities and borderline intellectual functioning. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 806	3.3	22
55	Prediction of brain age and cognitive age: Quantifying brain and cognitive maintenance in aging. <i>Human Brain Mapping</i> , 2021 , 42, 1626-1640	5.9	21
54	Neuroinflammation and brain functional disconnection in Alzheimer's disease. <i>Frontiers in Aging Neuroscience</i> , 2013 , 5, 81	5.3	20
53	Age-dependent association of white matter abnormality with cognition after TIA or minor stroke. <i>Neurology</i> , 2019 , 93, e272-e282	6.5	19
52	Dysfunctional effort-based decision-making underlies apathy in genetic cerebral small vessel disease. <i>Brain</i> , 2018 , 141, 3193-3210	11.2	18
51	Automated lesion segmentation with BIANCA: Impact of population-level features, classification algorithm and locally adaptive thresholding. <i>NeuroImage</i> , 2019 , 202, 116056	7.9	17
50	Association between gait and cognition in an elderly population based sample. <i>Gait and Posture</i> , 2018 , 65, 240-245	2.6	14

49	Donepezil Enhances Frontal Functional Connectivity in Alzheimer's Disease: A Pilot Study. <i>Dementia and Geriatric Cognitive Disorders Extra</i> , 2016 , 6, 518-528	2.5	13
48	Nigrosome 1 imaging in REM sleep behavior disorder and its association with dopaminergic decline. <i>Annals of Clinical and Translational Neurology</i> , 2020 , 7, 26-35	5.3	13
47	Impact of automated ICA-based denoising of fMRI data in acute stroke patients. <i>NeuroImage: Clinical</i> , 2017 , 16, 23-31	5.3	12
46	A novel approach of groupwise fMRI-guided tractography allowing to characterize the clinical evolution of Alzheimer's disease. <i>PLoS ONE</i> , 2014 , 9, e92026	3.7	12
45	Apathy in rapid eye movement sleep behaviour disorder is associated with serotonin depletion in the dorsal raphe nucleus. <i>Brain</i> , 2018 , 141, 2848-2854	11.2	12
44	Exploring variability in basal ganglia connectivity with functional MRI in healthy aging. <i>Brain Imaging and Behavior</i> , 2018 , 12, 1822-1827	4.1	10
43	Social Decision Making in Adolescents and Young Adults: Evidence From the Ultimatum Game and Cognitive Biases. <i>Psychological Reports</i> , 2019 , 122, 135-154	1.6	10
42	Longitudinal Brain Atrophy Rates in Transient Ischemic Attack and Minor Ischemic Stroke Patients and Cognitive Profiles. <i>Frontiers in Neurology</i> , 2019 , 10, 18	4.1	8
41	Associations between arterial stiffening and brain structure, perfusion, and cognition in the Whitehall II Imaging Sub-study: A retrospective cohort study. <i>PLoS Medicine</i> , 2020 , 17, e1003467	11.6	8
40	ICA-based denoising for ASL perfusion imaging. <i>NeuroImage</i> , 2019 , 200, 363-372	7.9	7
39	Signal-to-noise ratio of diffusion weighted magnetic resonance imaging: Estimation methods and in vivo application to spinal cord. <i>Biomedical Signal Processing and Control</i> , 2012 , 7, 285-294	4.9	7
38	Comparison between skeleton-based and atlas-based approach in the assessment of corpus callosum damages in Mild Cognitive Impairment and Alzheimer Disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 7800-11	0.9	7
37	Association of trajectories of depressive symptoms with vascular risk, cognitive function and adverse brain outcomes: The Whitehall II MRI sub-study. <i>Journal of Psychiatric Research</i> , 2020 , 131, 85-93	5.2	7
36	Long-standing balancing selection in the THBS4 gene: influence on sex-specific brain expression and gray matter volumes in Alzheimer disease. <i>Human Mutation</i> , 2013 , 34, 743-53	4.7	6
35	Image Processing and Quality Control for the first 10,000 Brain Imaging Datasets from UK Biobank		6
34	Multimodal brain-age prediction and cardiovascular risk: The Whitehall II MRI sub-study		6
33	Cortical structural involvement and cognitive dysfunction in early Parkinson's disease. <i>NMR in Biomedicine</i> , 2018 , 31, e3900	4.4	5
32	Association of midlife stroke risk with structural brain integrity and memory performance at older ages: a longitudinal cohort study. <i>Brain Communications</i> , 2020 , 2, fcaa026	4.5	5

31	Triplanar ensemble U-Net model for white matter hyperintensities segmentation on MR images. <i>Medical Image Analysis</i> , 2021 , 73, 102184	15.4	5
30	Medium-term effects of SARS-CoV-2 infection on multiple vital organs, exercise capacity, cognition, quality of life and mental health, post-hospital discharge		4
29	Modelling the distribution of white matter hyperintensities due to ageing on MRI images using Bayesian inference. <i>NeuroImage</i> , 2019 , 185, 434-445	7.9	4
28	White Matter Hyperintensities Quantification in Healthy Adults: A Systematic Review and Meta-Analysis. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 53, 1732-1743	5.6	3
27	Cohort profile: the Oxford Parkinson's Disease Centre Discovery Cohort MRI substudy (OPDC-MRI). <i>BMJ Open</i> , 2020 , 10, e034110	3	3
26	Brain Tumour Segmentation Using a Triplanar Ensemble of U-Nets on MR Images. <i>Lecture Notes in Computer Science</i> , 2021 , 340-353	0.9	3
25	Integrating large-scale neuroimaging research datasets: Harmonisation of white matter hyperintensity measurements across Whitehall and UK Biobank datasets. <i>NeuroImage</i> , 2021 , 237, 118189	7.9	3
24	Individual Thresholding of Voxel-based Functional Connectivity Maps. Estimation of Random Errors by Means of Surrogate Time Series. <i>Methods of Information in Medicine</i> , 2015 , 54, 227-31	1.5	2
23	A novel approach of fMRI-guided tractography analysis within a group: construction of an fMRI-guided tractographic atlas. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 2283-6	0.9	2
22	Association of cerebral small vessel disease burden with brain structure and cognitive and vascular risk trajectories in mid-to-late life. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 271678X21104841	7.3	2
21	Adapting the UK Biobank Brain Imaging Protocol and Analysis Pipeline for the C-MORE Multi-Organ Study of COVID-19 Survivors. <i>Frontiers in Neurology</i> , 2021 , 12, 753284	4.1	2
20	Integrating large-scale neuroimaging research datasets: harmonisation of white matter hyperintensity measurements across Whitehall and UK Biobank datasets		2
19	Comparison of domain adaptation techniques for white matter hyperintensity segmentation in brain MR images. <i>Medical Image Analysis</i> , 2021 , 74, 102215	15.4	2
18	White matter hyperintensities classified according to intensity and spatial location reveal specific associations with cognitive performance. <i>NeuroImage: Clinical</i> , 2021 , 30, 102616	5.3	2
17	Author response: Long-term cerebral white and gray matter changes after preeclampsia. <i>Neurology</i> , 2017 , 89, 1309-1310	6.5	1
16	Mapping brain structural differences and neuroreceptor correlates in Parkinson's disease visual hallucinations. <i>Nature Communications</i> , 2022 , 13, 519	17.4	1
15	Modelling the distribution of white matter hyperintensities due to ageing on MRI images using Bayesian inference		1
14	Automated lesion segmentation with BIANCA: impact of population-level features, classification algorithm and locally adaptive thresholding		1

13	Accelerated aortic stiffness is associated with brain structure, perfusion and cognition in the Whitehall II Imaging Sub-study		1
12	Triplanar ensemble U-Net model for white matter hyperintensities segmentation on MR images		1
11	Iterative Dual LDA: A Novel Classification Algorithm for Resting State fMRI. <i>Lecture Notes in Computer Science</i> , 2016 , 279-286	0.9	1
10	Study Protocol: The Heart and Brain Study. <i>Frontiers in Physiology</i> , 2021 , 12, 643725	4.6	1
9	Intrinsic network activity reflects the ongoing experience of chronic pain. <i>Scientific Reports</i> , 2021 , 11, 21870	4.9	0
8	NEUROIMAGING OF IDIOPATHIC REM SLEEP BEHAVIOR DISORDER. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2015 , 86, e4.95-e4	5.5	
7	Longitudinal aortic stiffness is associated with brain microstructure and cognition: A voxel-wise magnetic resonance imaging study. <i>Alzheimer's and Dementia</i> , 2020 , 16, e041822	1.2	
6	Association of trajectories of depressive symptoms with vascular risk factors, cognitive function and adverse brain outcomes: A 28-year follow-up. <i>Alzheimer's and Dementia</i> , 2020 , 16, e041823	1.2	
5	Classifying white matter hyperintensities according to intensity and spatial localisation reveals specific association with cognition. <i>Alzheimer's and Dementia</i> , 2020 , 16, e042751	1.2	
4	The Oxford Brain Health Centre: Embedding dementia research in clinical practice. <i>Alzheimer's and Dementia</i> , 2020 , 16, e044907	1.2	
3	[P1B64]: WHITE MATTER HYPERINTENSITIES ARE NOT RELATED TO COGNITION IN OLDER-OLD PATIENTS 2017 , 13, P398-P399		
2	Commentary on "Altered and asymmetric default mode network activity in a "hypnotic virtuoso": an fMRI and EEG study"--reply. <i>Consciousness and Cognition</i> , 2013 , 22, 385-7	2.6	
1	Adults with tetralogy of Fallot show specific features of cerebral small vessel disease: the BACH San Donato study.. <i>Brain Imaging and Behavior</i> , 2022 , 1	4.1	