

# Ludovica Griffanti

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

10,629  
citations

172457

29  
h-index

88630

70  
g-index

103  
all docs

103  
docs citations

103  
times ranked

11601  
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic denoising of functional MRI data: Combining independent component analysis and hierarchical fusion of classifiers. <i>NeuroImage</i> , 2014, 90, 449-468.	4.2	1,580
2	Multimodal population brain imaging in the UK Biobank prospective epidemiological study. <i>Nature Neuroscience</i> , 2016, 19, 1523-1536.	14.8	1,414
3	Resting-state fMRI in the Human Connectome Project. <i>NeuroImage</i> , 2013, 80, 144-168.	4.2	1,367
4	ICA-based artefact removal and accelerated fMRI acquisition for improved resting state network imaging. <i>NeuroImage</i> , 2014, 95, 232-247.	4.2	1,148
5	Image processing and Quality Control for the first 10,000 brain imaging datasets from UK Biobank. <i>NeuroImage</i> , 2018, 166, 400-424.	4.2	1,026
6	SARS-CoV-2 is associated with changes in brain structure in UK Biobank. <i>Nature</i> , 2022, 604, 697-707.	27.8	825
7	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.	7.1	435
8	Hand classification of fMRI ICA noise components. <i>NeuroImage</i> , 2017, 154, 188-205.	4.2	428
9	BIANCA (Brain Intensity AbNormality Classification Algorithm): A new tool for automated segmentation of white matter hyperintensities. <i>NeuroImage</i> , 2016, 141, 191-205.	4.2	308
10	Classification and characterization of periventricular and deep white matter hyperintensities on MRI: A study in older adults. <i>NeuroImage</i> , 2018, 170, 174-181.	4.2	191
11	Basal ganglia dysfunction in idiopathic REM sleep behaviour disorder parallels that in early Parkinson's disease. <i>Brain</i> , 2016, 139, 2224-2234.	7.6	119
12	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.	7.4	105
13	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.	3.6	87
14	Multimodal brain-age prediction and cardiovascular risk: The Whitehall II MRI sub-study. <i>NeuroImage</i> , 2020, 222, 117292.	4.2	85
15	Study protocol: the Whitehall II imaging sub-study. <i>BMC Psychiatry</i> , 2014, 14, 159.	2.6	82
16	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.	4.2	81
17	Theory of Mind in Amnesic Mild Cognitive Impairment: An fMRI Study. <i>Journal of Alzheimer's Disease</i> , 2012, 29, 25-37.	2.6	78
18	Long-term cerebral white and gray matter changes after preeclampsia. <i>Neurology</i> , 2017, 88, 1256-1264.	1.1	77

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19	Prediction of brain age and cognitive age: Quantifying brain and cognitive maintenance in aging. <i>Human Brain Mapping</i> , 2021, 42, 1626-1640.	3.6	74
20	Common Genetic Variation Indicates Separate Causes for Periventricular and Deep White Matter Hyperintensities. <i>Stroke</i> , 2020, 51, 2111-2121.	2.0	71
21	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.	2.0	61
22	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.	2.0	52
23	Aberrant functional connectivity within the basal ganglia of patients with Parkinson's disease. <i>NeuroImage: Clinical</i> , 2015, 8, 126-132.	2.7	45
24	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.	2.5	43
25	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.	2.0	38
26	Multistimulation Group Therapy in Alzheimer's Disease Promotes Changes in Brain Functioning. <i>Neurorehabilitation and Neural Repair</i> , 2015, 29, 13-24.	2.9	37
27	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.	1.5	35
28	Automated lesion segmentation with BIANCA: Impact of population-level features, classification algorithm and locally adaptive thresholding. <i>NeuroImage</i> , 2019, 202, 116056.	4.2	32
29	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.	3.7	32
30	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.	2.0	31
31	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, 1015-1028.	2.6	31
32	Triplanar ensemble U-Net model for white matter hyperintensities segmentation on MR images. <i>Medical Image Analysis</i> , 2021, 73, 102184.	11.6	29
33	Dysfunctional effort-based decision-making underlies apathy in genetic cerebral small vessel disease. <i>Brain</i> , 2018, 141, 3193-3210.	7.6	27
34	Age-dependent association of white matter abnormality with cognition after TIA or minor stroke. <i>Neurology</i> , 2019, 93, e272-e282.	1.1	27
35	Association between gait and cognition in an elderly population based sample. <i>Gait and Posture</i> , 2018, 65, 240-245.	1.4	26
36	Neuroinflammation and Brain Functional Disconnection in Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2013, 5, 81.	3.4	25

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37	Impact of automated ICA-based denoising of fMRI data in acute stroke patients. <i>NeuroImage: Clinical</i> , 2017, 16, 23-31.	2.7	21
38	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.	7.6	21
39	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.	3.1	19
40	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.	8.4	19
41	Donepezil Enhances Frontal Functional Connectivity in Alzheimer's Disease: A Pilot Study. <i>Dementia and Geriatric Cognitive Disorders Extra</i> , 2017, 6, 518-528.	1.3	17
42	Exploring variability in basal ganglia connectivity with functional MRI in healthy aging. <i>Brain Imaging and Behavior</i> , 2018, 12, 1822-1827.	2.1	16
43	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.	2.4	16
44	Longitudinal Brain Atrophy Rates in Transient Ischemic Attack and Minor Ischemic Stroke Patients and Cognitive Profiles. <i>Frontiers in Neurology</i> , 2019, 10, 18.	2.4	15
45	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.	2.5	15
46	Mapping brain structural differences and neuroreceptor correlates in Parkinson's disease visual hallucinations. <i>Nature Communications</i> , 2022, 13, 519.	12.8	15
47	ICA-based denoising for ASL perfusion imaging. <i>NeuroImage</i> , 2019, 200, 363-372.	4.2	14
48	White matter hyperintensities classified according to intensity and spatial location reveal specific associations with cognitive performance. <i>NeuroImage: Clinical</i> , 2021, 30, 102616.	2.7	13
49	Social Decision Making in Adolescents and Young Adults: Evidence From the Ultimatum Game and Cognitive Biases. <i>Psychological Reports</i> , 2019, 122, 135-154.	1.7	12
50	Brain Tumour Segmentation Using a Triplanar Ensemble of U-Nets on MR Images. <i>Lecture Notes in Computer Science</i> , 2021, , 340-353.	1.3	12
51	White Matter Hyperintensities Quantification in Healthy Adults: A Systematic Review and Meta-Analysis. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 1732-1743.	3.4	12
52	Cohort profile: the Oxford Parkinson's Disease Centre Discovery Cohort MRI substudy (OPDC-MRI). <i>BMJ Open</i> , 2020, 10, e034110.	1.9	11
53	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.	5.7	10
54	Integrating large-scale neuroimaging research datasets: Harmonisation of white matter hyperintensity measurements across Whitehall and UK Biobank datasets. <i>NeuroImage</i> , 2021, 237, 118189.	4.2	10

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55	Modelling the distribution of white matter hyperintensities due to ageing on MRI images using Bayesian inference. <i>NeuroImage</i> , 2019, 185, 434-445.	4.2	9
56	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.	3.3	9
57	Comparison of domain adaptation techniques for white matter hyperintensity segmentation in brain MR images. <i>Medical Image Analysis</i> , 2021, 74, 102215.	11.6	9
58	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> , 2022, 42, 600-612.	4.3	9
59	Comparison between skeleton-based and atlas-based approach in the assessment of corpus callosum damages in Mild Cognitive Impairment and Alzheimer Disease. , 2011, 2011, 7808-11.		8
60	Cortical structural involvement and cognitive dysfunction in early Parkinson's disease. <i>NMR in Biomedicine</i> , 2018, 31, e3900.	2.8	8
61	Long-Standing Balancing Selection in the <i>THBS</i> Gene: Influence on Sex-Specific Brain Expression and Gray Matter Volumes in Alzheimer Disease. <i>Human Mutation</i> , 2013, 34, 743-753.	2.5	7
62	Intrinsic network activity reflects the ongoing experience of chronic pain. <i>Scientific Reports</i> , 2021, 11, 21870.	3.3	5
63	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, 16, 1721-1731.	2.1	4
64	A novel approach of fMRI-guided tractography analysis within a group: Construction of an fMRI-guided tractographic atlas. , 2012, 2012, 2283-6.		3
65	Individual Thresholding of Voxel-based Functional Connectivity Maps. <i>Methods of Information in Medicine</i> , 2015, 54, 227-231.	1.2	3
66	Study Protocol: The Heart and Brain Study. <i>Frontiers in Physiology</i> , 2021, 12, 643725.	2.8	2
67	Iterative Dual LDA: A Novel Classification Algorithm for Resting State fMRI. <i>Lecture Notes in Computer Science</i> , 2016, , 279-286.	1.3	2
68	Author response: Long-term cerebral white and gray matter changes after preeclampsia. <i>Neurology</i> , 2017, 89, 1309.3-1310.	1.1	1
69	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.	0.8	1
70	Can psychological labels influence the decision-making process in an unfair condition? Behavioral and neural evidences using the ultimatum game task.. <i>Journal of Neuroscience, Psychology, and Economics</i> , 2019, 12, 105-115.	1.0	1
71	Omni-Supervised Domain Adversarial Training for White Matter Hyperintensity Segmentation in the UK Biobank. , 2022, , .		1
72	Identifying microstructural changes in diffusion MRI; How to circumvent parameter degeneracy. <i>NeuroImage</i> , 2022, 260, 119452.	4.2	1

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73	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, 385-387.	1.5	0
74	NEUROIMAGING OF IDIOPATHIC REM SLEEP BEHAVIOR DISORDER. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2015, 86, e4.95-e4.	1.9	0
75	[P1364]: WHITE MATTER HYPERINTENSITIES ARE NOT RELATED TO COGNITION IN OLDER OLD PATIENTS. <i>Alzheimer's and Dementia</i> , 2017, 13, P398.	0.8	0
76	Longitudinal aortic stiffness is associated with brain microstructure and cognition: A voxelwise magnetic resonance imaging study. <i>Alzheimer's and Dementia</i> , 2020, 16, e041822.	0.8	0
77	Classifying white matter hyperintensities according to intensity and spatial localisation reveals specific association with cognition. <i>Alzheimer's and Dementia</i> , 2020, 16, e042751.	0.8	0
78	The Oxford Brain Health Centre: Embedding dementia research in clinical practice. <i>Alzheimer's and Dementia</i> , 2020, 16, e044907.	0.8	0