

# Gwenaïlle Douaud

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

16,153  
citations

53794

45  
h-index

128289

60  
g-index

68  
all docs

68  
docs citations

68  
times ranked

17874  
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	Anatomically related grey and white matter abnormalities in adolescent-onset schizophrenia. <i>Brain</i> , 2007, 130, 2375-2386.	7.6	718
8	Genome-wide association studies of brain imaging phenotypes in UK Biobank. <i>Nature</i> , 2018, 562, 210-216.	27.8	551
9	DTI measures in crossing-fibre areas: Increased diffusion anisotropy reveals early white matter alteration in MCI and mild Alzheimer's disease. <i>NeuroImage</i> , 2011, 55, 880-890.	4.2	468
10	Hand classification of fMRI ICA noise components. <i>NeuroImage</i> , 2017, 154, 188-205.	4.2	428
11	Preventing Alzheimer's disease-related gray matter atrophy by B-vitamin treatment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9523-9528.	7.1	422
12	Brain Morphometry and Cognitive Performance in Detoxified Alcohol-Dependents with Preserved Psychosocial Functioning. <i>Neuropsychopharmacology</i> , 2007, 32, 429-438.	5.4	358
13	Longitudinal changes in grey and white matter during adolescence. <i>NeuroImage</i> , 2010, 49, 94-103.	4.2	352
14	Extending the Human Connectome Project across ages: Imaging protocols for the Lifespan Development and Aging projects. <i>NeuroImage</i> , 2018, 183, 972-984.	4.2	290
15	Connectivity-Based Functional Analysis of Dopamine Release in the Striatum Using Diffusion-Weighted MRI and Positron Emission Tomography. <i>Cerebral Cortex</i> , 2014, 24, 1165-1177.	2.9	276
16	A common brain network links development, aging, and vulnerability to disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17648-17653.	7.1	268
17	Thalamic atrophy associated with painful osteoarthritis of the hip is reversible after arthroplasty: A longitudinal voxel-based morphometric study. <i>Arthritis and Rheumatism</i> , 2010, 62, 2930-2940.	6.7	267
18	Changes in white matter microstructure during adolescence. <i>NeuroImage</i> , 2008, 39, 52-61.	4.2	262

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19	Faster permutation inference in brain imaging. <i>NeuroImage</i> , 2016, 141, 502-516.	4.2	242
20	Diffusion imaging of whole, post-mortem human brains on a clinical MRI scanner. <i>NeuroImage</i> , 2011, 57, 167-181.	4.2	239
21	Integration of structural and functional magnetic resonance imaging in amyotrophic lateral sclerosis. <i>Brain</i> , 2011, 134, 3470-3479.	7.6	229
22	Distribution of grey matter atrophy in Huntington's disease patients: A combined ROI-based and voxel-based morphometric study. <i>NeuroImage</i> , 2006, 32, 1562-1575.	4.2	228
23	Late effects of high-dose adjuvant chemotherapy on white and gray matter in breast cancer survivors: Converging results from multimodal magnetic resonance imaging. <i>Human Brain Mapping</i> , 2012, 33, 2971-2983.	3.6	218
24	An expanded set of genome-wide association studies of brain imaging phenotypes in UK Biobank. <i>Nature Neuroscience</i> , 2021, 24, 737-745.	14.8	212
25	In vivo evidence for the selective subcortical degeneration in Huntington's disease. <i>NeuroImage</i> , 2009, 46, 958-966.	4.2	185
26	High resolution diffusion-weighted imaging in fixed human brain using diffusion-weighted steady state free precession. <i>NeuroImage</i> , 2009, 46, 775-785.	4.2	166
27	XTRACT - Standardised protocols for automated tractography in the human and macaque brain. <i>NeuroImage</i> , 2020, 217, 116923.	4.2	165
28	Brain Microstructure Reveals Early Abnormalities more than Two Years prior to Clinical Progression from Mild Cognitive Impairment to Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2013, 33, 2147-2155.	3.6	161
29	Widespread grey matter pathology dominates the longitudinal cerebral MRI and clinical landscape of amyotrophic lateral sclerosis. <i>Brain</i> , 2014, 137, 2546-2555.	7.6	151
30	Schizophrenia delays and alters maturation of the brain in adolescence. <i>Brain</i> , 2009, 132, 2437-2448.	7.6	139
31	Benefits of multi-modal fusion analysis on a large-scale dataset: Life-span patterns of inter-subject variability in cortical morphometry and white matter microstructure. <i>NeuroImage</i> , 2012, 63, 365-380.	4.2	137
32	Structural and functional bases for individual differences in motor learning. <i>Human Brain Mapping</i> , 2011, 32, 494-508.	3.6	136
33	Evidence for abnormalities of cortical development in adolescent-onset schizophrenia. <i>NeuroImage</i> , 2008, 43, 665-675.	4.2	132
34	Handedness, language areas and neuropsychiatric diseases: insights from brain imaging and genetics. <i>Brain</i> , 2019, 142, 2938-2947.	7.6	123
35	Brain aging comprises many modes of structural and functional change with distinct genetic and biophysical associations. <i>ELife</i> , 2020, 9, .	6.0	122
36	Population-based neuroimaging reveals traces of childbirth in the maternal brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22341-22346.	7.1	95

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37	Distinct multivariate brain morphological patterns and their added predictive value with cognitive and polygenic risk scores in mental disorders. <i>NeuroImage: Clinical</i> , 2017, 15, 719-731.	2.7	89
38	Gray matter volume is associated with rate of subsequent skill learning after a long term training intervention. <i>NeuroImage</i> , 2014, 96, 158-166.	4.2	78
39	Diffusion tractography of post-mortem human brains: Optimization and comparison of spin echo and steady-state free precession techniques. <i>NeuroImage</i> , 2012, 59, 2284-2297.	4.2	70
40	Scan time reduction for readout-free segmented EPI using simultaneous multislice acceleration: Diffusion-weighted imaging at 3 and 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 136-149.	3.0	70
41	Automatic segmentation of the striatum and globus pallidus using MIST: Multimodal Image Segmentation Tool. <i>NeuroImage</i> , 2016, 125, 479-497.	4.2	66
42	ICA-based artifact removal diminishes scan site differences in multi-center resting-state fMRI. <i>Frontiers in Neuroscience</i> , 2015, 9, 395.	2.8	61
43	Resting Functional Connectivity Reveals Residual Functional Activity in Alzheimer's Disease. <i>Biological Psychiatry</i> , 2013, 74, 375-383.	1.3	59
44	Structural correlates of skilled performance on a motor sequence task. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 289.	2.0	55
45	High-resolution diffusion MRI at 7T using a three-dimensional multi-slab acquisition. <i>NeuroImage</i> , 2016, 143, 1-14.	4.2	55
46	Structural Connectivity Variances Underlie Functional and Behavioral Changes During Pain Relief Induced by Neuromodulation. <i>Scientific Reports</i> , 2017, 7, 41603.	3.3	54
47	Improving diffusion-weighted imaging of post-mortem human brains: SSFP at 7T. <i>NeuroImage</i> , 2014, 102, 579-589.	4.2	42
48	Brain Structural and Functional Connectivity and the Progression of Neuropathology in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2012, 33, S163-S172.	2.6	31
49	Structural Variability in the Human Brain Reflects Fine-Grained Functional Architecture at the Population Level. <i>Journal of Neuroscience</i> , 2019, 39, 6136-6149.	3.6	29
50	Dysfunctional effort-based decision-making underlies apathy in genetic cerebral small vessel disease. <i>Brain</i> , 2018, 141, 3193-3210.	7.6	27
51	Phenotypic and genetic associations of quantitative magnetic susceptibility in UK Biobank brain imaging. <i>Nature Neuroscience</i> , 2022, 25, 818-831.	14.8	21
52	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
53	Structural and functional bases of visuospatial associative memory in older adults. <i>Neurobiology of Aging</i> , 2013, 34, 961-972.	3.1	15
54	Calcium channel blockade with nimodipine reverses MRI evidence of cerebral oedema following acute hypoxia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 285-301.	4.3	13

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55	Neocortical morphometry in Huntington's disease: Indication of the coexistence of abnormal neurodevelopmental and neurodegenerative processes. <i>NeuroImage: Clinical</i> , 2020, 26, 102211.	2.7	11
56	Early brain injury and cognitive impairment after aneurysmal subarachnoid haemorrhage. <i>Scientific Reports</i> , 2021, 11, 23245.	3.3	11
57	MRS and DTI evidence of progressive posterior cingulate cortex and corpus callosum injury in the hyper-acute phase after Traumatic Brain Injury. <i>Brain Injury</i> , 2019, 33, 854-868.	1.2	10
58	One-year changes in brain microstructure differentiate preclinical Huntington's disease stages. <i>NeuroImage: Clinical</i> , 2020, 25, 102099.	2.7	8
59	Multimodal Imaging Brain Markers in Early Adolescence Are Linked with a Physically Active Lifestyle. <i>Journal of Neuroscience</i> , 2021, 41, 1092-1104.	3.6	8
60	Interaction of Developmental Venous Anomalies with Resting-State Functional MRI Measures. <i>American Journal of Neuroradiology</i> , 2018, 39, 2326-2331.	2.4	5