

# Dag Alnäs

## List of Publications by Year in descending order

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Version: 2024-02-01

96  
papers

5,810  
citations

109321

35  
h-index

110387

64  
g-index

140  
all docs

140  
docs citations

140  
times ranked

7524  
citing authors

#	ARTICLE	IF	CITATIONS
1	The genetic architecture of the human cerebral cortex. <i>Science</i> , 2020, 367, .	12.6	450
2	Common brain disorders are associated with heritable patterns of apparent aging of the brain. <i>Nature Neuroscience</i> , 2019, 22, 1617-1623.	14.8	358
3	Pupil size signals mental effort deployed during multiple object tracking and predicts brain activity in the dorsal attention network and the locus coeruleus. <i>Journal of Vision</i> , 2014, 14, 1-1.	0.3	317
4	Mapping the Heterogeneous Phenotype of Schizophrenia and Bipolar Disorder Using Normative Models. <i>JAMA Psychiatry</i> , 2018, 75, 1146.	11.0	290
5	Oxytocin pathway gene networks in the human brain. <i>Nature Communications</i> , 2019, 10, 668.	12.8	200
6	Delayed stabilization and individualization in connectome development are related to psychiatric disorders. <i>Nature Neuroscience</i> , 2017, 20, 513-515.	14.8	197
7	Brain Heterogeneity in Schizophrenia and Its Association With Polygenic Risk. <i>JAMA Psychiatry</i> , 2019, 76, 739.	11.0	195
8	Cerebellar volume and cerebellocerebral structural covariance in schizophrenia: a multisite mega-analysis of 983 patients and 1349 healthy controls. <i>Molecular Psychiatry</i> , 2018, 23, 1512-1520.	7.9	175
9	Disintegration of Sensorimotor Brain Networks in Schizophrenia. <i>Schizophrenia Bulletin</i> , 2015, 41, 1326-1335.	4.3	146
10	Cortical thickness across the lifespan: Data from 17,075 healthy individuals aged 3â€“90â€“years. <i>Human Brain Mapping</i> , 2022, 43, 431-451.	3.6	143
11	Using structural MRI to identify bipolar disorders â€“ 13 site machine learning study in 3020 individuals from the ENIGMA Bipolar Disorders Working Group. <i>Molecular Psychiatry</i> , 2020, 25, 2130-2143.	7.9	127
12	The brain functional connectome is robustly altered by lack of sleep. <i>NeuroImage</i> , 2016, 127, 324-332.	4.2	107
13	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
14	Disrupted global metastability and static and dynamic brain connectivity across individuals in the Alzheimerâ€™s disease continuum. <i>Scientific Reports</i> , 2017, 7, 40268.	3.3	94
15	Low dose intranasal oxytocin delivered with Breath Powered device dampens amygdala response to emotional stimuli: A peripheral effect-controlled within-subjects randomized dose-response fMRI trial. <i>Psychoneuroendocrinology</i> , 2016, 69, 180-188.	2.7	90
16	Assessing distinct patterns of cognitive aging using tissue-specific brain age prediction based on diffusion tensor imaging and brain morphometry. <i>PeerJ</i> , 2018, 6, e5908.	2.0	90
17	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
18	Association of Heritable Cognitive Ability and Psychopathology With White Matter Properties in Children and Adolescents. <i>JAMA Psychiatry</i> , 2018, 75, 287.	11.0	88

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19	Brain scans from 21,297 individuals reveal the genetic architecture of hippocampal subfield volumes. <i>Molecular Psychiatry</i> , 2020, 25, 3053-3065.	7.9	80
20	Greater male than female variability in regional brain structure across the lifespan. <i>Human Brain Mapping</i> , 2022, 43, 470-499.	3.6	76
21	Consistent Functional Connectivity Alterations in Schizophrenia Spectrum Disorder: A Multisite Study. <i>Schizophrenia Bulletin</i> , 2017, 43, 914-924.	4.3	75
22	Cerebellar Gray Matter Volume Is Associated With Cognitive Function and Psychopathology in Adolescence. <i>Biological Psychiatry</i> , 2019, 86, 65-75.	1.3	75
23	Genetic variants associated with longitudinal changes in brain structure across the lifespan. <i>Nature Neuroscience</i> , 2022, 25, 421-432.	14.8	75
24	Subcortical volumes across the lifespan: Data from 18,605 healthy individuals aged 3â€“90â‰years. <i>Human Brain Mapping</i> , 2022, 43, 452-469.	3.6	72
25	Thalamo-cortical functional connectivity in schizophrenia and bipolar disorder. <i>Brain Imaging and Behavior</i> , 2018, 12, 640-652.	2.1	70
26	Multimodal imaging improves brain age prediction and reveals distinct abnormalities in patients with psychiatric and neurological disorders. <i>Human Brain Mapping</i> , 2021, 42, 1714-1726.	3.6	68
27	What we learn about bipolar disorder from large-scale neuroimaging: Findings and future directions from the ENIGMA Bipolar Disorder Working Group. <i>Human Brain Mapping</i> , 2022, 43, 56-82.	3.6	67
28	Towards an optimised processing pipeline for diffusion magnetic resonance imaging data: Effects of artefact corrections on diffusion metrics and their age associations in UK Biobank. <i>Human Brain Mapping</i> , 2019, 40, 4146-4162.	3.6	64
29	Mind the gap: Performance metric evaluation in brain age prediction. <i>Human Brain Mapping</i> , 2022, 43, 3113-3129.	3.6	58
30	Brain connectivity aberrations in anabolic-androgenic steroid users. <i>NeuroImage: Clinical</i> , 2017, 13, 62-69.	2.7	56
31	White matter aberrations and age-related trajectories in patients with schizophrenia and bipolar disorder revealed by diffusion tensor imaging. <i>Scientific Reports</i> , 2018, 8, 14129.	3.3	53
32	Global brain connectivity alterations in patients with schizophrenia and bipolar spectrum disorders. <i>Journal of Psychiatry and Neuroscience</i> , 2016, 41, 331-341.	2.4	51
33	Clinical Utility of Mindfulness Training in the Treatment of Fatigue After Stroke, Traumatic Brain Injury and Multiple Sclerosis: A Systematic Literature Review and Meta-analysis. <i>Frontiers in Psychology</i> , 2016, 7, 912.	2.1	50
34	The genetic architecture of human cortical folding. <i>Science Advances</i> , 2021, 7, eabj9446.	10.3	50
35	Patterns of sociocognitive stratification and perinatal risk in the child brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12419-12427.	7.1	48
36	Probing Brain Developmental Patterns of Myelination and Associations With Psychopathology in Youths Using Gray/White Matter Contrast. <i>Biological Psychiatry</i> , 2019, 85, 389-398.	1.3	45

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37	Dissociable diffusion MRI patterns of white matter microstructure and connectivity in Alzheimer's disease spectrum. <i>Scientific Reports</i> , 2017, 7, 45131.	3.3	43
38	Genetic Association Between Schizophrenia and Cortical Brain Surface Area and Thickness. <i>JAMA Psychiatry</i> , 2021, 78, 1020.	11.0	43
39	Replicating extensive brain structural heterogeneity in individuals with schizophrenia and bipolar disorder. <i>Human Brain Mapping</i> , 2021, 42, 2546-2555.	3.6	42
40	Cardiometabolic risk factors associated with brain age and accelerated brain ageing. <i>Human Brain Mapping</i> , 2022, 43, 700-720.	3.6	42
41	Increased default-mode variability is related to reduced task-performance and is evident in adults with ADHD. <i>NeuroImage: Clinical</i> , 2017, 16, 369-382.	2.7	41
42	Task modulations and clinical manifestations in the brain functional connectome in 1615 fMRI datasets. <i>NeuroImage</i> , 2017, 147, 243-252.	4.2	41
43	Distinguishing early and late brain aging from the Alzheimer's disease spectrum: consistent morphological patterns across independent samples. <i>NeuroImage</i> , 2017, 158, 282-295.	4.2	41
44	In vivo hippocampal subfield volumes in bipolar disorder: A mega-analysis from The Enhancing Neuroimaging Genetics through Meta-analysis Bipolar Disorder Working Group. <i>Human Brain Mapping</i> , 2022, 43, 385-398.	3.6	41
45	Brain age prediction in stroke patients: Highly reliable but limited sensitivity to cognitive performance and response to cognitive training. <i>NeuroImage: Clinical</i> , 2020, 25, 102159.	2.7	41
46	The effects of tDCS upon sustained visual attention are dependent on cognitive load. <i>Neuropsychologia</i> , 2016, 80, 1-8.	1.6	39
47	A meta-analysis of deep brain structural shape and asymmetry abnormalities in 2,833 individuals with schizophrenia compared with 3,929 healthy volunteers via the ENIGMA Consortium. <i>Human Brain Mapping</i> , 2022, 43, 352-372.	3.6	39
48	Short-term retention of visual information: Evidence in support of feature-based attention as an underlying mechanism. <i>Neuropsychologia</i> , 2015, 66, 1-9.	1.6	36
49	Evidence for cortical structural plasticity in humans after a day of waking and sleep deprivation. <i>NeuroImage</i> , 2017, 156, 214-223.	4.2	36
50	Attentional load modulates large-scale functional brain connectivity beyond the core attention networks. <i>NeuroImage</i> , 2015, 109, 260-272.	4.2	34
51	Age-related differences in brain network activation and coactivation during multiple object tracking. <i>Brain and Behavior</i> , 2016, 6, e00533.	2.2	32
52	Maturation of cortical microstructure and cognitive development in childhood and adolescence: A T1w/T2w ratio MRI study. <i>Human Brain Mapping</i> , 2020, 41, 4676-4690.	3.6	30
53	Longitudinal Structural Brain Changes in Bipolar Disorder: A Multicenter Neuroimaging Study of 1232 Individuals by the ENIGMA Bipolar Disorder Working Group. <i>Biological Psychiatry</i> , 2022, 91, 582-592.	1.3	29
54	Stability of the Brain Functional Connectome Fingerprint in Individuals With Schizophrenia. <i>JAMA Psychiatry</i> , 2018, 75, 749.	11.0	28

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55	Brain Age Prediction Reveals Aberrant Brain White Matter in Schizophrenia and Bipolar Disorder: A Multisample Diffusion Tensor Imaging Study. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020, 5, 1095-1103.	1.5	28
56	Visual short-term memory: Activity supporting encoding and maintenance in retinotopic visual cortex. <i>NeuroImage</i> , 2012, 63, 166-178.	4.2	26
57	The genetic architecture of human brainstem structures and their involvement in common brain disorders. <i>Nature Communications</i> , 2020, 11, 4016.	12.8	26
58	Dissecting the cognitive phenotype of post-stroke fatigue using computerized assessment and computational modeling of sustained attention. <i>European Journal of Neuroscience</i> , 2020, 52, 3828-3845.	2.6	26
59	Low-dose intranasal oxytocin delivered with Breath Powered device modulates pupil diameter and amygdala activity: a randomized controlled pupillometry and fMRI study. <i>Neuropsychopharmacology</i> , 2019, 44, 306-313.	5.4	23
60	Key Brain Network Nodes Show Differential Cognitive Relevance and Developmental Trajectories during Childhood and Adolescence. <i>ENeuro</i> , 2018, 5, ENEURO.0092-18.2018.	1.9	23
61	Symptoms of fatigue and depression is reflected in altered default mode network connectivity in multiple sclerosis. <i>PLoS ONE</i> , 2019, 14, e0210375.	2.5	22
62	Adipose tissue distribution from body MRI is associated with cross-sectional and longitudinal brain age in adults. <i>NeuroImage: Clinical</i> , 2022, 33, 102949.	2.7	22
63	Functional connectivity indicates differential roles for the intraparietal sulcus and the superior parietal lobule in multiple object tracking. <i>NeuroImage</i> , 2015, 123, 129-137.	4.2	21
64	Reduced load-dependent default mode network deactivation across executive tasks in schizophrenia spectrum disorders. <i>NeuroImage: Clinical</i> , 2016, 12, 389-396.	2.7	21
65	Widespread white matter changes in post-H1N1 patients with narcolepsy type 1 and first-degree relatives. <i>Sleep</i> , 2018, 41, .	1.1	21
66	Top-down Modulation from Inferior Frontal Junction to FEFs and Intraparietal Sulcus during Short-term Memory for Visual Features. <i>Journal of Cognitive Neuroscience</i> , 2013, 25, 1944-1956.	2.3	20
67	Neuropsychiatric symptoms and brain morphology in patients with mild cognitive impairment and Alzheimer's disease with dementia. <i>International Psychogeriatrics</i> , 2021, 33, 1217-1228.	1.0	20
68	Boosting Schizophrenia Genetics by Utilizing Genetic Overlap With Brain Morphology. <i>Biological Psychiatry</i> , 2022, 92, 291-298.	1.3	20
69	Increased sensitivity to age-related differences in brain functional connectivity during continuous multiple object tracking compared to resting-state. <i>NeuroImage</i> , 2017, 148, 364-372.	4.2	19
70	Structural brain disconnectivity mapping of post-stroke fatigue. <i>NeuroImage: Clinical</i> , 2021, 30, 102635.	2.7	18
71	Population-based body-brain mapping links brain morphology with anthropometrics and body composition. <i>Translational Psychiatry</i> , 2021, 11, 295.	4.8	17
72	Linking objective measures of physical activity and capability with brain structure in healthy community dwelling older adults. <i>NeuroImage: Clinical</i> , 2021, 31, 102767.	2.7	17

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73	Population-Based Mapping of Polygenic Risk for Schizophrenia on the Human Brain: New Opportunities to Capture the Dimensional Aspects of Severe Mental Disorders. <i>Biological Psychiatry</i> , 2019, 86, 499-501.	1.3	15
74	Phenotypically independent profiles relevant to mental health are genetically correlated. <i>Translational Psychiatry</i> , 2021, 11, 202.	4.8	15
75	The ascending arousal system promotes optimal performance through mesoscale network integration in a visuospatial attentional task. <i>Network Neuroscience</i> , 2021, 5, 890-910.	2.6	15
76	Reliability, sensitivity, and predictive value of fMRI during multiple object tracking as a marker of cognitive training gain in combination with tDCS in stroke survivors. <i>Human Brain Mapping</i> , 2021, 42, 1167-1181.	3.6	14
77	Brain age prediction using fMRI network coupling in youths and associations with psychiatric symptoms. <i>NeuroImage: Clinical</i> , 2022, 33, 102921.	2.7	14
78	Association between complement component 4A expression, cognitive performance and brain imaging measures in UK Biobank. <i>Psychological Medicine</i> , 2022, 52, 3497-3507.	4.5	13
79	Modulation of Activity in Human Visual Area V1 during Memory Masking. <i>PLoS ONE</i> , 2011, 6, e18651.	2.5	12
80	Hypocretin-deficient narcolepsy patients have abnormal brain activation during humor processing. <i>Sleep</i> , 2019, 42, .	1.1	12
81	Left hemisphere abnormalities in developmental prosopagnosia when looking at faces but not words. <i>Brain Communications</i> , 2019, 1, fcz034.	3.3	12
82	Aberrant Default Mode Connectivity in Adolescents with Early-Onset Psychosis: A resting state fMRI study. <i>NeuroImage: Clinical</i> , 2021, 33, 102881.	2.7	12
83	Virtual Ontogeny of Cortical Growth Preceding Mental Illness. <i>Biological Psychiatry</i> , 2022, 92, 299-313.	1.3	11
84	Effects of autozygosity and schizophrenia polygenic risk on cognitive and brain developmental trajectories. <i>European Journal of Human Genetics</i> , 2018, 26, 1049-1059.	2.8	10
85	Functional brain network modeling in sub-acute stroke patients and healthy controls during rest and continuous attentive tracking. <i>Heliyon</i> , 2020, 6, e04854.	3.2	10
86	Differences in directed functional brain connectivity related to age, sex and mental health. <i>Human Brain Mapping</i> , 2020, 41, 4173-4186.	3.6	8
87	Mapping Normative Trajectories of Cognitive Function and Its Relation to Psychopathology Symptoms and Genetic Risk in Youth. <i>Biological Psychiatry Global Open Science</i> , 2023, 3, 255-263.	2.2	8
88	No additional effect of tDCS on fatigue and depression in chronic stroke patients: A randomized sham-controlled trial combining tDCS with computerized cognitive training. <i>Brain and Behavior</i> , 2022, 12, .	2.2	8
89	Identifying multimodal signatures underlying the somatic comorbidity of psychosis: the COMMITMENT roadmap. <i>Molecular Psychiatry</i> , 2021, 26, 722-724.	7.9	7
90	TVA-based modeling of short-term memory capacity, speed of processing and perceptual threshold in chronic stroke patients undergoing cognitive training: case-control differences, reliability, and associations with cognitive performance. <i>PeerJ</i> , 2020, 8, e9948.	2.0	7

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91	Genetic control of variability in subcortical and intracranial volumes. <i>Molecular Psychiatry</i> , 2021, 26, 3876-3883.	7.9	6
92	Divergent relationship between brain structure and cognitive functioning in patients with prominent negative symptomatology. <i>Psychiatry Research - Neuroimaging</i> , 2021, 307, 111233.	1.8	4
93	Testing relationships between multimodal modes of brain structural variation and age, sex and polygenic scores for neuroticism in children and adolescents. <i>Translational Psychiatry</i> , 2020, 10, 251.	4.8	3
94	Factors Associated With Brain Heterogeneity in Schizophrenia—Reply. <i>JAMA Psychiatry</i> , 2019, 76, 1211.	11.0	1
95	Functional connectivity in multiple sclerosis modelled as connectome stability: A 5-year follow-up study. <i>Multiple Sclerosis Journal</i> , 2022, 28, 532-540.	3.0	1
96	Computational Modeling of the n-Back Task in the ABCD Study: Associations of Drift Diffusion Model Parameters to Polygenic Scores of Mental Disorders and Cardiometabolic Diseases. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2023, 8, 290-299.	1.5	1