Christian G Habeck

List of Publications by Year
in descending order

106 papers	5,198 citations	94433 37 h-index	102487 66 g-index
115 all docs	115 docs citations	115 times ranked	7124 citing authors

#	Article	IF	Citations
1	Brain Networks Associated with Cognitive Reserve in Healthy Young and Old Adults. Cerebral Cortex, 2005, 15, 394-402.	2.9	341
2	Association of Life Activities With Cerebral Blood Flow in Alzheimer Disease. Archives of Neurology, 2003, 60, 359.	4.5	234
3	Differences between chronological and brain age are related to education and self-reported physical activity. Neurobiology of Aging, 2016, 40, 138-144.	3.1	198
4	Mediterranean diet and brain structure in a multiethnic elderly cohort. Neurology, 2015, 85, 1744-1751.	1.1	182
5	Multivariate and Univariate Analysis of Continuous Arterial Spin Labeling Perfusion MRI in Alzheimer's Disease. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 725-736.	4.3	153
6	Multivariate and univariate neuroimaging biomarkers of Alzheimer's disease. NeuroImage, 2008, 40, 1503-1515.	4.2	151
7	An event-related fMRI study of the neurobehavioral impact of sleep deprivation on performance of a delayed-match-to-sample task. Cognitive Brain Research, 2004, 18, 306-321.	3.0	147
8	Structural MRI covariance patterns associated with normal aging and neuropsychological functioning. Neurobiology of Aging, 2007, 28, 284-295.	3.1	134
9	Reduction in cerebral blood flow in areas appearing as white matter hyperintensities on magnetic resonance imaging. Psychiatry Research - Neuroimaging, 2009, 172, 117-120.	1.8	130
10	The Effect of Aging on Resting State Connectivity of Predefined Networks in the Brain. Frontiers in Aging Neuroscience, 2019, 11, 234.	3.4	130
11	An event-related fMRI study of the neural networks underlying the encoding, maintenance, and retrieval phase in a delayed-match-to-sample task. Cognitive Brain Research, 2005, 23, 207-220.	3.0	118
12	A Common Neural Network for Cognitive Reserve in Verbal and Object Working Memory in Young but not Old. Cerebral Cortex, 2008, 18, 959-967.	2.9	113
13	Multivariate Data Analysis for Neuroimaging Data: Overview and Application to Alzheimer's Disease. Cell Biochemistry and Biophysics, 2010, 58, 53-67.	1.8	110
14	A New Approach to Spatial Covariance Modeling of Functional Brain Imaging Data: Ordinal Trend Analysis. Neural Computation, 2005, 17, 1602-1645.	2.2	109
15	Covariance PET patterns in early Alzheimer's disease and subjects with cognitive impairment but no dementia: utility in group discrimination and correlations with functional performance. NeuroImage, 2004, 23, 35-45.	4.2	101
16	Metabolic connectivity: methods and applications. Current Opinion in Neurology, 2017, 30, 677-685.	3.6	101
17	Prevalence Estimates of Amyloid Abnormality Across the Alzheimer Disease Clinical Spectrum. JAMA Neurology, 2022, 79, 228.	9.0	97
18	A task-invariant cognitive reserve network. NeuroImage, 2018, 178, 36-45.	4.2	94

#	Article	IF	Citations
19	Separating function from structure in perfusion imaging of the aging brain. Human Brain Mapping, 2009, 30, 2927-2935.	3.6	93
20	Metabolic network as a progression biomarker of premanifest Huntington's disease. Journal of Clinical Investigation, 2013, 123, 4076-4088.	8.2	91
21	Increased sensorimotor network activity in DYT1 dystonia: a functional imaging study. Brain, 2010, 133, 690-700.	7.6	88
22	Covarying alterations in Aβ deposition, glucose metabolism, and gray matter volume in cognitively normal elderly. Human Brain Mapping, 2014, 35, 297-308.	3.6	88
23	The Reference Ability Neural Network Study: Motivation, design, and initial feasibility analyses. NeuroImage, 2014, 103, 139-151.	4.2	84
24	White matter integrity as a mediator in the relationship between dietary nutrients and cognition in the elderly. Annals of Neurology, 2016, 79, 1014-1025.	5.3	79
25	Relation of cognitive reserve and task performance to expression of regional covariance networks in an event-related fMRI study of nonverbal memory†. NeuroImage, 2003, 20, 1723-1733.	4.2	70
26	The right insula contributes to memory awareness in cognitively diverse older adults. Neuropsychologia, 2015, 75, 163-169.	1.6	69
27	Volumetric Correlates of Spatiotemporal Working and Recognition Memory Impairment in Aged Rhesus Monkeys. Cerebral Cortex, 2011, 21, 1559-1573.	2.9	68
28	Voxel and surface-based topography of memory and executive deficits in mild cognitive impairment and Alzheimer's disease. Brain Imaging and Behavior, 2012, 6, 551-567.	2.1	66
29	Segregation of functional networks is associated with cognitive resilience in Alzheimer's disease. Brain, 2021, 144, 2176-2185.	7.6	66
30	Imaging markers of mild cognitive impairment: Multivariate analysis of CBF SPECT. Neurobiology of Aging, 2007, 28, 1062-1069.	3.1	63
31	Extended Remediation of Sleep Deprived-Induced Working Memory Deficits Using fMRI-guided Transcranial Magnetic Stimulation. Sleep, 2013, 36, 857-871.	1.1	57
32	Benfotiamine and Cognitive Decline in Alzheimer's Disease: Results of a Randomized Placebo-Controlled Phase IIa Clinical Trial. Journal of Alzheimer's Disease, 2020, 78, 989-1010.	2.6	52
33	APOE Genotype and Cerebral Blood Flow in Healthy Young Individuals. JAMA - Journal of the American Medical Association, 2003, 290, 1581-1582.	7.4	50
34	Relationship between baseline brain metabolism measured using [18F]FDG PET and memory and executive function in prodromal and early Alzheimer's disease. Brain Imaging and Behavior, 2012, 6, 568-583.	2.1	47
35	Breadth and age-dependency of relations between cortical thickness and cognition. Neurobiology of Aging, 2015, 36, 3020-3028.	3.1	47
36	The Reference Ability Neural Network Study: Life-time stability of reference-ability neural networks derived from task maps of young adults. NeuroImage, 2016, 125, 693-704.	4.2	45

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37	Cerebral blood flow and gray matter volume covariance patterns of cognition in aging. Human Brain Mapping, 2013, 34, 3267-3279.	3.6	43
38	Age-Related Changes in Task Related Functional Network Connectivity. PLoS ONE, 2012, 7, e44421.	2.5	42
39	The Role of Education and Verbal Abilities in Altering the Effect of Age-Related Gray Matter Differences on Cognition. PLoS ONE, 2014, 9, e91196.	2.5	41
40	Task difficulty modulates young–old differences in network expression. Brain Research, 2012, 1435, 130-145.	2.2	39
41	Gray matter volume covariance patterns associated with gait speed in older adults: a multi-cohort MRI study. Brain Imaging and Behavior, 2019, 13, 446-460.	2.1	38
42	Unilateral disruptions in the default network with aging in native space. Brain and Behavior, 2014, 4, 143-157.	2.2	37
43	White matter tract covariance patterns predict age-declining cognitive abilities. NeuroImage, 2016, 125, 53-60.	4.2	36
44	Deconstructing Racial Differences: The Effects of Quality of Education and Cerebrovascular Risk Factors. Journals of Gerontology - Series B Psychological Sciences and Social Sciences, 2015, 70, 545-556.	3.9	35
45	PET Network Abnormalities and Cognitive Decline in Patients with Mild Cognitive Impairment. Neuropsychopharmacology, 2006, 31, 1327-1334.	5.4	34
46	Mechanisms underlying resilience in ageing. Nature Reviews Neuroscience, 2019, 20, 246-246.	10.2	34
47	Functional connectivity of the posterior hippocampus is more dominant as we age. Cognitive Neuroscience, 2014, 5, 150-159.	1.4	33
48	Brain reserve against physical disability progression over 5 years in multiple sclerosis. Neurology, 2016, 86, 2006-2009.	1.1	31
49	Neural Correlates of People's Hypercorrection of Their False Beliefs. Journal of Cognitive Neuroscience, 2012, 24, 1571-1583.	2.3	30
50	Age differences of multivariate network expressions during task-switching and their associations with behavior. Neuropsychologia, 2012, 50, 3509-3518.	1.6	30
51	Cortical thickness and its associations with age, total cognition and education across the adult lifespan. PLoS ONE, 2020, 15, e0230298.	2.5	30
52	Shared space, separate processes: Neural activation patterns for auditory description and visual object naming in healthy adults. Human Brain Mapping, 2014, 35, 2507-2520.	3.6	29
53	Aβ-related hyperactivation in frontoparietal control regions in cognitively normal elderly. Neurobiology of Aging, 2015, 36, 3247-3254.	3.1	29
54	Between-network Functional Connectivity Is Modified by Age and Cognitive Task Domain. Journal of Cognitive Neuroscience, 2019, 31, 607-622.	2.3	29

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55	Cortical thickness and metacognition in cognitively diverse older adults.. Neuropsychology, 2018, 32, 700-710.	1.3	29
56	Reciprocal Benefits of Mass-Univariate and Multivariate Modeling in Brain Mapping: Applications to Event-Related Functional MRI, H215O-, and FDG-PET. International Journal of Biomedical Imaging, 2006, 2006, 1-13.	3.9	27
57	Brain biomarkers and cognition across adulthood. Human Brain Mapping, 2019, 40, 3832-3842.	3.6	27
58	Predicting Amyloid-Î² Levels in Amnestic Mild Cognitive Impairment Using Machine Learning Techniques. Journal of Alzheimer's Disease, 2020, 73, 1211-1219.	2.6	27
59	A forward application of age associated gray and white matter networks. Human Brain Mapping, 2008, 29, 1139-1146.	3.6	26
60	Î²-Amyloid Deposition Is Associated with Decreased Right Prefrontal Activation during Task Switching among Cognitively Normal Elderly. Journal of Neuroscience, 2016, 36, 1962-1970.	3.6	26
61	Optimizing Machine Learning Methods to Improve Predictive Models of Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2019, 71, 1027-1036.	2.6	26
62	Performance degradation and altered cerebral activation during dual performance: Evidence for a bottom-up attentional system. Behavioural Brain Research, 2010, 210, 229-239.	2.2	24
63	The relationship between white matter hyperintensities and cognitive reference abilities across the life span. Neurobiology of Aging, 2019, 83, 31-41.	3.1	24
64	Detecting biological heterogeneity patterns in ADNI amnestic mild cognitive impairment based on volumetric MRI. Brain Imaging and Behavior, 2020, 14, 1792-1804.	2.1	24
65	Mapping Brain Function Using a 30-Day Interval between Baseline and Activation: A Novel Arterial Spin Labeling fMRI Approach. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 1721-1733.	4.3	23
66	Neural network approaches and their reproducibility in the study of verbal working memory and Alzheimerâ€™s disease. Clinical Neuroscience Research, 2007, 6, 381-390.	0.8	22
67	Neural mechanisms of repetition priming of familiar and globally unfamiliar visual objects. Brain Research, 2010, 1343, 122-134.	2.2	22
68	Genetic architecture of resilience of executive functioning. Brain Imaging and Behavior, 2012, 6, 621-633.	2.1	22
69	Contrasting visual working memory for verbal and non-verbal material with multivariate analysis of fMRI. Brain Research, 2012, 1467, 27-41.	2.2	21
70	Neuroimaging explanations of age-related differences in task performance. Frontiers in Aging Neuroscience, 2014, 6, 46.	3.4	21
71	An event-related fMRI study of the neural networks underlying repetition suppression and reaction time priming in implicit visual memory. Brain Research, 2006, 1075, 133-141.	2.2	19
72	Classifying multiple sclerosis patients on the basis of SDMT performance using machine learning. Multiple Sclerosis Journal, 2021, 27, 107-116.	3.0	19

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73	Intrinsic Functional-Connectivity Networks for Diagnosis: Just Beautiful Pictures?. Brain Connectivity, 2011, 1, 99-103.	1.7	18
74	Selective association between cortical thickness and reference abilities in normal aging. NeuroImage, 2016, 142, 293-300.	4.2	18
75	Functional brain and age-related changes associated with congruency in task switching. Neuropsychologia, 2016, 91, 211-221.	1.6	18
76	Making Cognitive Latent Variables Manifest: Distinct Neural Networks for Fluid Reasoning and Processing Speed. Journal of Cognitive Neuroscience, 2015, 27, 1249-1258.	2.3	16
77	A framework for identification of a resting-bold connectome associated with cognitive reserve. NeuroImage, 2021, 232, 117875.	4.2	16
78	Can the default-mode network be described with one spatial-covariance network?. Brain Research, 2012, 1468, 38-51.	2.2	15
79	Cognitive neuroscience neuroimaging repository for the adult lifespan. NeuroImage, 2017, 144, 294-298.	4.2	15
80	Task-based functional connectivity in aging: How task and connectivity methodology affect discovery of age effects. Brain and Behavior, 2021, 11, e01954.	2.2	15
81	The Indirect Effect of Age Group on Switch Costs via Gray Matter Volume and Task-Related Brain Activity. Frontiers in Aging Neuroscience, 2016, 8, 162.	3.4	14
82	The response-signal method reveals age-related changes in object working memory.. Psychology and Aging, 2008, 23, 315-329.	1.6	13
83	Distinct cortical thickness patterns link disparate cerebral cortex regions to select mobility domains. Scientific Reports, 2021, 11, 6600.	3.3	11
84	Dual-tasking alleviated sleep deprivation disruption in visuomotor tracking: An fMRI study. Brain and Cognition, 2012, 78, 248-256.	1.8	10
85	Reference ability neural networks and behavioral performance across the adult life span. NeuroImage, 2018, 172, 51-63.	4.2	10
86	Occupational Patterns of Structural Brain Health: Independent Contributions Beyond Education, Gender, Intelligence, and Age. Frontiers in Human Neuroscience, 2019, 13, 449.	2.0	10
87	Neural networks associated with the speed-accuracy tradeoff: Evidence from the response signal method. Behavioural Brain Research, 2011, 224, 397-402.	2.2	9
88	Tolcapone Treatment for Cognitive and Behavioral Symptoms in Behavioral Variant Frontotemporal Dementia: A Placebo-Controlled Crossover Study. Journal of Alzheimer's Disease, 2020, 75, 1391-1403.	2.6	9
89	Examining the multifactorial nature of cognitive aging with covariance analysis of positron emission tomography data. Journal of the International Neuropsychological Society, 2009, 15, 973-981.	1.8	8
90	Imaging cognitive reserve. International Journal of Psychology, 2004, 39, 18-26.	2.8	7

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91	Effects of white matter hyperintensities distribution and clustering on late-life cognitive impairment. Scientific Reports, 2022, 12, 1955.	3.3	7
92	Insight from uncertainty: bootstrap-derived diffusion metrics differentially predict memory function among older adults. Brain Structure and Function, 2016, 221, 507-514.	2.3	5
93	A dopamine receptor genetic variant enhances perceptual speed in cognitive healthy subjects. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2017, 3, 254-261.	3.7	5
94	Towards an ontology of cognitive processes and their neural substrates: A structural equation modeling approach. PLoS ONE, 2020, 15, e0228167.	2.5	5
95	Self-awareness for financial decision making abilities is linked to right temporal cortical thickness in older adults. Brain Imaging and Behavior, 2022, 16, 1139-1147.	2.1	5
96	fMRI-guided white matter connectivity in fluid and crystallized cognitive abilities in healthy adults. NeuroImage, 2020, 215, 116809.	4.2	4
97	Functional network mediates age‐related differences in reaction time: a replication and extension study. Brain and Behavior, 2015, 5, e00324.	2.2	3
98	Quantifying Age-Related Changes in Brain and Behavior: A Longitudinal versus Cross-Sectional Approach. ENeuro, 2021, 8, ENEURO.0273-21.2021.	1.9	3
99	Optimized prediction of cognition based on brain morphometry across the adult life span. Neurobiology of Aging, 2020, 93, 16-24.	3.1	2
100	Age-related disintegration in functional connectivity: Evidence from Reference Ability Neural Network (RANN) cohort. Neuropsychologia, 2021, 156, 107856.	1.6	2
101	Transfer learning for cognitive reserve quantification. NeuroImage, 2022, 258, 119353.	4.2	2
102	Age-Specific Activation Patterns and Inter-Subject Similarity During Verbal Working Memory Maintenance and Cognitive Reserve. Frontiers in Psychology, 0, 13, .	2.1	2
103	White Matter Regions With Low Microstructure in Young Adults Spatially Coincide With White Matter Hyperintensities in Older Adults. Frontiers in Aging Neuroscience, 2019, 11, 345.	3.4	1
104	Reference Ability Neural Network‐selective functional connectivity across the lifespan. Human Brain Mapping, 2021, 42, 644-659.	3.6	1
105	Predictive utility of task-related functional connectivity vs. voxel activation. PLoS ONE, 2021, 16, e0249947.	2.5	1
106	Structural brain imaging and multivariate analysis enable virtual lumbar punctures. Neurology, 2013, 80, 126-127.	1.1	0