

# Tobias Kaufmann

## List of Publications by Year in descending order

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Version: 2024-02-01

116  
papers

6,474  
citations

76326

40  
h-index

95266

68  
g-index

157  
all docs

157  
docs citations

157  
times ranked

8009  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Cardiometabolic risk factors associated with brain age and accelerated brain ageing. <i>Human Brain Mapping</i> , 2022, 43, 700-720.	3.6	42
3	Brain age prediction using fMRI network coupling in youths and associations with psychiatric symptoms. <i>NeuroImage: Clinical</i> , 2022, 33, 102921.	2.7	14
4	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
5	Boosting Schizophrenia Genetics by Utilizing Genetic Overlap With Brain Morphology. <i>Biological Psychiatry</i> , 2022, 92, 291-298.	1.3	20
6	Limited evidence for a moderating effect of HIV status on brain age in heavy episodic drinkers. <i>Journal of NeuroVirology</i> , 2022, , 1.	2.1	0
7	Mind the gap: Performance metric evaluation in brain age prediction. <i>Human Brain Mapping</i> , 2022, 43, 3113-3129.	3.6	58
8	Oxytocin receptor expression patterns in the human brain across development. <i>Neuropsychopharmacology</i> , 2022, 47, 1550-1560.	5.4	23
9	Metabolic Traces in the Human Brain: Genetic Risk for Diabetes and Altered Structural Connectivity in Depression. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2022, 7, 246-248.	1.5	0
10	Deep neural networks learn general and clinically relevant representations of the ageing brain. <i>NeuroImage</i> , 2022, 256, 119210.	4.2	46
11	Distributed genetic architecture across the hippocampal formation implies common neuropathology across brain disorders. <i>Nature Communications</i> , 2022, 13, .	12.8	12
12	Cortical thickness and resting-state cardiac function across the lifespan: A cross-sectional pooled mega-analysis. <i>Psychophysiology</i> , 2021, 58, e13688.	2.4	33
13	Genetic control of variability in subcortical and intracranial volumes. <i>Molecular Psychiatry</i> , 2021, 26, 3876-3883.	7.9	6
14	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
15	Identifying multimodal signatures underlying the somatic comorbidity of psychosis: the COMMITMENT roadmap. <i>Molecular Psychiatry</i> , 2021, 26, 722-724.	7.9	7
16	Replicating extensive brain structural heterogeneity in individuals with schizophrenia and bipolar disorder. <i>Human Brain Mapping</i> , 2021, 42, 2546-2555.	3.6	42
17	Fast quality control method for derived diffusion Metrics (YTTRIUM) in big data analysis: U.K. Biobank 18,608 example. <i>Human Brain Mapping</i> , 2021, 42, 3141-3155.	3.6	18
18	1q21.1 distal copy number variants are associated with cerebral and cognitive alterations in humans. <i>Translational Psychiatry</i> , 2021, 11, 182.	4.8	24

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19	Phenotypically independent profiles relevant to mental health are genetically correlated. <i>Translational Psychiatry</i> , 2021, 11, 202.	4.8	15
20	The genetic architecture of the human thalamus and its overlap with ten common brain disorders. <i>Nature Communications</i> , 2021, 12, 2909.	12.8	25
21	Population-based bodyâ€“brain mapping links brain morphology with anthropometrics and body composition. <i>Translational Psychiatry</i> , 2021, 11, 295.	4.8	17
22	Long-term Anabolicâ€“Androgenic Steroid Use Is Associated With Deviant Brain Aging. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 579-589.	1.5	15
23	A history of previous childbirths is linked to women's white matter brain age in midlife and older age. <i>Human Brain Mapping</i> , 2021, 42, 4372-4386.	3.6	24
24	Genetic Overlap Between Alzheimerâ€™s Disease and Depression Mapped Onto the Brain. <i>Frontiers in Neuroscience</i> , 2021, 15, 653130.	2.8	14
25	Genetic Association Between Schizophrenia and Cortical Brain Surface Area and Thickness. <i>JAMA Psychiatry</i> , 2021, 78, 1020.	11.0	43
26	Prominent health problems, socioeconomic deprivation, and higher brain age in lonely and isolated individuals: A population-based study. <i>Behavioural Brain Research</i> , 2021, 414, 113510.	2.2	18
27	Vertex-wise multivariate genome-wide association study identifies 780 unique genetic loci associated with cortical morphology. <i>NeuroImage</i> , 2021, 244, 118603.	4.2	48
28	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
29	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
30	The genetic architecture of human cortical folding. <i>Science Advances</i> , 2021, 7, eabj9446.	10.3	50
31	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
32	Dose response of the 16p11.2 distal copy number variant on intracranial volume and basal ganglia. <i>Molecular Psychiatry</i> , 2020, 25, 584-602.	7.9	49
33	Multimodal fusion of structural and functional brain imaging in depression using linked independent component analysis. <i>Human Brain Mapping</i> , 2020, 41, 241-255.	3.6	36
34	Association of Copy Number Variation of the 15q11.2 BP1-BP2 Region With Cortical and Subcortical Morphology and Cognition. <i>JAMA Psychiatry</i> , 2020, 77, 420.	11.0	54
35	Brain Connectome Mapping of Complex Human Traits and Their Polygenic Architecture Using Machine Learning. <i>Biological Psychiatry</i> , 2020, 87, 717-726.	1.3	23
36	Longitudinal stability of the brain functional connectome is associated with episodic memory performance in aging. <i>Human Brain Mapping</i> , 2020, 41, 697-709.	3.6	28

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37	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
38	Multimodal brain-age prediction and cardiovascular risk: The Whitehall II MRI sub-study. <i>NeuroImage</i> , 2020, 222, 117292.	4.2	85
39	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
40	Maturation of cortical microstructure and cognitive development in childhood and adolescence: A T1w/T2w ratio <scp>MRI</scp> study. <i>Human Brain Mapping</i> , 2020, 41, 4676-4690.	3.6	30
41	The genetic architecture of human brainstem structures and their involvement in common brain disorders. <i>Nature Communications</i> , 2020, 11, 4016.	12.8	26
42	Understanding the genetic determinants of the brain with MOSTest. <i>Nature Communications</i> , 2020, 11, 3512.	12.8	100
43	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
44	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
45	The maternal brain: Region-specific patterns of brain aging are traceable decades after childbirth. <i>Human Brain Mapping</i> , 2020, 41, 4718-4729.	3.6	53
46	Women's brain aging: Effects of sex-hormone exposure, pregnancies, and genetic risk for Alzheimer's disease. <i>Human Brain Mapping</i> , 2020, 41, 5141-5150.	3.6	46
47	Quantifying the Polygenic Architecture of the Human Cerebral Cortex: Extensive Genetic Overlap between Cortical Thickness and Surface Area. <i>Cerebral Cortex</i> , 2020, 30, 5597-5603.	2.9	29
48	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
49	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
50	Pleiotropy of polygenic factors associated with focal and generalized epilepsy in the general population. <i>PLoS ONE</i> , 2020, 15, e0232292.	2.5	14
51	Identification of Reproducible BCL11A Alterations in Schizophrenia Through Individual-Level Prediction of Coexpression. <i>Schizophrenia Bulletin</i> , 2020, 46, 1165-1171.	4.3	8
52	Title is missing!. , 2020, 15, e0232292.		0
53	Title is missing!. , 2020, 15, e0232292.		0
54	Title is missing!. , 2020, 15, e0232292.		0

#	ARTICLE	IF	CITATIONS
55	Title is missing!. , 2020, 15, e0232292.		0
56	Data-Driven Clustering Reveals a Link Between Symptoms and Functional Brain Connectivity in Depression. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 16-26.	1.5	35
57	Biophysical Psychiatryâ€™How Computational Neuroscience Can Help to Understand the Complex Mechanisms of Mental Disorders. <i>Frontiers in Psychiatry</i> , 2019, 10, 534.	2.6	19
58	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
59	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
60	O1.6. TELOMERE LENGTH IS ASSOCIATED WITH CHILDHOOD TRAUMA IN PATIENTS WITH SEVERE MENTAL DISORDERS. <i>Schizophrenia Bulletin</i> , 2019, 45, S160-S161.	4.3	0
61	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
62	Cerebellar Gray Matter Volume Is Associated With Cognitive Function and Psychopathology in Adolescence. <i>Biological Psychiatry</i> , 2019, 86, 65-75.	1.3	75
63	Reproducible grey matter patterns index a multivariate, global alteration of brain structure in schizophrenia and bipolar disorder. <i>Translational Psychiatry</i> , 2019, 9, 12.	4.8	35
64	Cross-Sectional and Longitudinal MRI Brain Scans Reveal Accelerated Brain Aging in Multiple Sclerosis. <i>Frontiers in Neurology</i> , 2019, 10, 450.	2.4	69
65	Telomere length is associated with childhood trauma in patients with severe mental disorders. <i>Translational Psychiatry</i> , 2019, 9, 97.	4.8	41
66	Brain Heterogeneity in Schizophrenia and Its Association With Polygenic Risk. <i>JAMA Psychiatry</i> , 2019, 76, 739.	11.0	195
67	Oxytocin pathway gene networks in the human brain. <i>Nature Communications</i> , 2019, 10, 668.	12.8	200
68	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
69	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
70	An augmented aging process in brain white matter in <sc>HIV</sc>. <i>Human Brain Mapping</i> , 2018, 39, 2532-2540.	3.6	38
71	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
72	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

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73	Thalamo-cortical functional connectivity in schizophrenia and bipolar disorder. <i>Brain Imaging and Behavior</i> , 2018, 12, 640-652.	2.1	70
74	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
75	Mapping the Heterogeneous Phenotype of Schizophrenia and Bipolar Disorder Using Normative Models. <i>JAMA Psychiatry</i> , 2018, 75, 1146.	11.0	290
76	Stability of the Brain Functional Connectome Fingerprint in Individuals With Schizophrenia. <i>JAMA Psychiatry</i> , 2018, 75, 749.	11.0	28
77	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
78	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
79	Disrupted global metastability and static and dynamic brain connectivity across individuals in the Alzheimer's disease continuum. <i>Scientific Reports</i> , 2017, 7, 40268.	3.3	94
80	Delayed stabilization and individualization in connectome development are related to psychiatric disorders. <i>Nature Neuroscience</i> , 2017, 20, 513-515.	14.8	197
81	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
82	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
83	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
84	Task modulations and clinical manifestations in the brain functional connectome in 1615 fMRI datasets. <i>NeuroImage</i> , 2017, 147, 243-252.	4.2	41
85	White matter microstructure is associated with functional, cognitive and emotional symptoms 12 months after mild traumatic brain injury. <i>Scientific Reports</i> , 2017, 7, 13795.	3.3	39
86	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
87	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
88	Brain connectivity aberrations in anabolic-androgenic steroid users. <i>NeuroImage: Clinical</i> , 2017, 13, 62-69.	2.7	56
89	Consistent Functional Connectivity Alterations in Schizophrenia Spectrum Disorder: A Multisite Study. <i>Schizophrenia Bulletin</i> , 2017, 43, 914-924.	4.3	75
90	Predicting Outcome 12 Months after Mild Traumatic Brain Injury in Patients Admitted to a Neurosurgery Service. <i>Frontiers in Neurology</i> , 2017, 8, 125.	2.4	25

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91	Diurnal Variation and Twenty-Four Hour Sleep Deprivation Do Not Alter Supine Heart Rate Variability in Healthy Male Young Adults. PLoS ONE, 2017, 12, e0170921.	2.5	15
92	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. Frontiers in Psychology, 2016, 7, 912.	2.1	50
93	Resting-state high-frequency heart rate variability is related to respiratory frequency in individuals with severe mental illness but not healthy controls. Scientific Reports, 2016, 6, 37212.	3.3	52
94	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. Psychoneuroendocrinology, 2016, 69, 180-188.	2.7	90
95	Reduced load-dependent default mode network deactivation across executive tasks in schizophrenia spectrum disorders. NeuroImage: Clinical, 2016, 12, 389-396.	2.7	21
96	The brain functional connectome is robustly altered by lack of sleep. NeuroImage, 2016, 127, 324-332.	4.2	107
97	Global brain connectivity alterations in patients with schizophrenia and bipolar spectrum disorders. Journal of Psychiatry and Neuroscience, 2016, 41, 331-341.	2.4	51
98	The WIN-speller: a new intuitive auditory brain-computer interface spelling application. Frontiers in Neuroscience, 2015, 9, 346.	2.8	20
99	Altered Brain Activation during Emotional Face Processing in Relation to Both Diagnosis and Polygenic Risk of Bipolar Disorder. PLoS ONE, 2015, 10, e0134202.	2.5	54
100	Attentional load modulates large-scale functional brain connectivity beyond the core attention networks. NeuroImage, 2015, 109, 260-272.	4.2	34
101	Cognitive Effort and Schizophrenia Modulate Large-Scale Functional Brain Connectivity. Schizophrenia Bulletin, 2015, 41, 1360-1369.	4.3	14
102	Disintegration of Sensorimotor Brain Networks in Schizophrenia. Schizophrenia Bulletin, 2015, 41, 1326-1335.	4.3	146
103	Long-Term Independent Brain-Computer Interface Home Use Improves Quality of Life of a Patient in the Locked-In State: A Case Study. Archives of Physical Medicine and Rehabilitation, 2015, 96, S16-S26.	0.9	134
104	Functional connectivity indicates differential roles for the intraparietal sulcus and the superior parietal lobule in multiple object tracking. NeuroImage, 2015, 123, 129-137.	4.2	21
105	The User-Centered Design as Novel Perspective for Evaluating the Usability of BCI-Controlled Applications. PLoS ONE, 2014, 9, e112392.	2.5	151
106	Beyond maximum speed—a novel two-stimulus paradigm for brain-computer interfaces based on event-related potentials (P300-BCI). Journal of Neural Engineering, 2014, 11, 056004.	3.5	36
107	Cortical effects of user training in a motor imagery based brain-computer interface measured by fNIRS and EEG. NeuroImage, 2014, 85, 432-444.	4.2	153
108	Toward brain-computer interface based wheelchair control utilizing tactually-evoked event-related potentials. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 7.	4.6	124

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109	Visuo-motor coordination ability predicts performance with brain-computer interfaces controlled by modulation of sensorimotor rhythms (SMR). <i>Frontiers in Human Neuroscience</i> , 2014, 8, 574.	2.0	42
110	Face stimuli effectively prevent brain-computer interface inefficiency in patients with neurodegenerative disease. <i>Clinical Neurophysiology</i> , 2013, 124, 893-900.	1.5	138
111	Comparison of tactile, auditory, and visual modality for brain-computer interface use: a case study with a patient in the locked-in state. <i>Frontiers in Neuroscience</i> , 2013, 7, 129.	2.8	111
112	Effects of resting heart rate variability on performance in the P300 brain-computer interface. <i>International Journal of Psychophysiology</i> , 2012, 83, 336-341.	1.0	39
113	The Changing Face of P300 BCIs: A Comparison of Stimulus Changes in a P300 BCI Involving Faces, Emotion, and Movement. <i>PLoS ONE</i> , 2012, 7, e49688.	2.5	125
114	Spelling is Just a Click Away – A User-Centered Brain-Computer Interface Including Auto-Calibration and Predictive Text Entry. <i>Frontiers in Neuroscience</i> , 2012, 6, 72.	2.8	60
115	Out of the frying pan into the fire—the P300-based BCI faces real-world challenges. <i>Progress in Brain Research</i> , 2011, 194, 27-46.	1.4	81
116	ARTiiFACT: a tool for heart rate artifact processing and heart rate variability analysis. <i>Behavior Research Methods</i> , 2011, 43, 1161-1170.	4.0	235