

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	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
2	Mapping the Heterogeneous Phenotype of Schizophrenia and Bipolar Disorder Using Normative Models. <i>JAMA Psychiatry</i> , 2018, 75, 1146.	11.0	290
3	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
4	Oxytocin pathway gene networks in the human brain. <i>Nature Communications</i> , 2019, 10, 668.	12.8	200
5	Delayed stabilization and individualization in connectome development are related to psychiatric disorders. <i>Nature Neuroscience</i> , 2017, 20, 513-515.	14.8	197
6	Brain Heterogeneity in Schizophrenia and Its Association With Polygenic Risk. <i>JAMA Psychiatry</i> , 2019, 76, 739.	11.0	195
7	Cortical effects of user training in a motor imagery based brain-computer interface measured by fNIRS and EEG. <i>NeuroImage</i> , 2014, 85, 432-444.	4.2	153
8	The User-Centered Design as Novel Perspective for Evaluating the Usability of BCI-Controlled Applications. <i>PLoS ONE</i> , 2014, 9, e112392.	2.5	151
9	Disintegration of Sensorimotor Brain Networks in Schizophrenia. <i>Schizophrenia Bulletin</i> , 2015, 41, 1326-1335.	4.3	146
10	Face stimuli effectively prevent brain-computer interface inefficiency in patients with neurodegenerative disease. <i>Clinical Neurophysiology</i> , 2013, 124, 893-900.	1.5	138
11	Long-Term Independent Brain-Computer Interface Home Use Improves Quality of Life of a Patient in the Locked-In State: A Case Study. <i>Archives of Physical Medicine and Rehabilitation</i> , 2015, 96, S16-S26.	0.9	134
12	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
13	Toward brain-computer interface based wheelchair control utilizing tactually-evoked event-related potentials. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 7.	4.6	124
14	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
15	The brain functional connectome is robustly altered by lack of sleep. <i>NeuroImage</i> , 2016, 127, 324-332.	4.2	107
16	Understanding the genetic determinants of the brain with MOSTest. <i>Nature Communications</i> , 2020, 11, 3512.	12.8	100
17	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
18	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

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19	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
20	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
21	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
22	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
23	Multimodal brain-age prediction and cardiovascular risk: The Whitehall II MRI sub-study. <i>NeuroImage</i> , 2020, 222, 117292.	4.2	85
24	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
25	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
26	Consistent Functional Connectivity Alterations in Schizophrenia Spectrum Disorder: A Multisite Study. <i>Schizophrenia Bulletin</i> , 2017, 43, 914-924.	4.3	75
27	Cerebellar Gray Matter Volume Is Associated With Cognitive Function and Psychopathology in Adolescence. <i>Biological Psychiatry</i> , 2019, 86, 65-75.	1.3	75
28	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
29	Thalamo-cortical functional connectivity in schizophrenia and bipolar disorder. <i>Brain Imaging and Behavior</i> , 2018, 12, 640-652.	2.1	70
30	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
31	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
32	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
33	Mind the gap: Performance metric evaluation in brain-age prediction. <i>Human Brain Mapping</i> , 2022, 43, 3113-3129.	3.6	58
34	Brain connectivity aberrations in anabolic-androgenic steroid users. <i>NeuroImage: Clinical</i> , 2017, 13, 62-69.	2.7	56
35	Altered Brain Activation during Emotional Face Processing in Relation to Both Diagnosis and Polygenic Risk of Bipolar Disorder. <i>PLoS ONE</i> , 2015, 10, e0134202.	2.5	54
36	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

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37	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
38	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
39	Resting-state high-frequency heart rate variability is related to respiratory frequency in individuals with severe mental illness but not healthy controls. <i>Scientific Reports</i> , 2016, 6, 37212.	3.3	52
40	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
41	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
42	The genetic architecture of human cortical folding. <i>Science Advances</i> , 2021, 7, eabj9446.	10.3	50
43	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
44	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
45	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
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	Deep neural networks learn general and clinically relevant representations of the ageing brain. <i>NeuroImage</i> , 2022, 256, 119210.	4.2	46
48	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
49	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
50	Genetic Association Between Schizophrenia and Cortical Brain Surface Area and Thickness. <i>JAMA Psychiatry</i> , 2021, 78, 1020.	11.0	43
51	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
52	Replicating extensive brain structural heterogeneity in individuals with schizophrenia and bipolar disorder. <i>Human Brain Mapping</i> , 2021, 42, 2546-2555.	3.6	42
53	Cardiometabolic risk factors associated with brain age and accelerated brain ageing. <i>Human Brain Mapping</i> , 2022, 43, 700-720.	3.6	42
54	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

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55	Task modulations and clinical manifestations in the brain functional connectome in 1615 fMRI datasets. <i>NeuroImage</i> , 2017, 147, 243-252.	4.2	41
56	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
57	Telomere length is associated with childhood trauma in patients with severe mental disorders. <i>Translational Psychiatry</i> , 2019, 9, 97.	4.8	41
58	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
59	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
60	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
61	An augmented aging process in brain white matter in HIV. <i>Human Brain Mapping</i> , 2018, 39, 2532-2540.	3.6	38
62	Beyond maximum speed—a novel two-stimulus paradigm for brain-computer interfaces based on event-related potentials (P300-BCI). <i>Journal of Neural Engineering</i> , 2014, 11, 056004.	3.5	36
63	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
64	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
65	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
66	Attentional load modulates large-scale functional brain connectivity beyond the core attention networks. <i>NeuroImage</i> , 2015, 109, 260-272.	4.2	34
67	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
68	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
69	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
70	Stability of the Brain Functional Connectome Fingerprint in Individuals With Schizophrenia. <i>JAMA Psychiatry</i> , 2018, 75, 749.	11.0	28
71	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
72	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

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73	The genetic architecture of human brainstem structures and their involvement in common brain disorders. <i>Nature Communications</i> , 2020, 11, 4016.	12.8	26
74	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
75	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
76	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
77	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
78	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
79	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
80	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
81	Oxytocin receptor expression patterns in the human brain across development. <i>Neuropsychopharmacology</i> , 2022, 47, 1550-1560.	5.4	23
82	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
83	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
84	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
85	The WIN-speller: a new intuitive auditory brain-computer interface spelling application. <i>Frontiers in Neuroscience</i> , 2015, 9, 346.	2.8	20
86	Boosting Schizophrenia Genetics by Utilizing Genetic Overlap With Brain Morphology. <i>Biological Psychiatry</i> , 2022, 92, 291-298.	1.3	20
87	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
88	Biophysical Psychiatry – How Computational Neuroscience Can Help to Understand the Complex Mechanisms of Mental Disorders. <i>Frontiers in Psychiatry</i> , 2019, 10, 534.	2.6	19
89	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
90	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

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91	Population-based bodyâ€‘brain mapping links brain morphology with anthropometrics and body composition. <i>Translational Psychiatry</i> , 2021, 11, 295.	4.8	17
92	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
93	Diurnal Variation and Twenty-Four Hour Sleep Deprivation Do Not Alter Supine Heart Rate Variability in Healthy Male Young Adults. <i>PLoS ONE</i> , 2017, 12, e0170921.	2.5	15
94	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
95	Phenotypically independent profiles relevant to mental health are genetically correlated. <i>Translational Psychiatry</i> , 2021, 11, 202.	4.8	15
96	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
97	Cognitive Effort and Schizophrenia Modulate Large-Scale Functional Brain Connectivity. <i>Schizophrenia Bulletin</i> , 2015, 41, 1360-1369.	4.3	14
98	Pleiotropy of polygenic factors associated with focal and generalized epilepsy in the general population. <i>PLoS ONE</i> , 2020, 15, e0232292.	2.5	14
99	Genetic Overlap Between Alzheimerâ€™s Disease and Depression Mapped Onto the Brain. <i>Frontiers in Neuroscience</i> , 2021, 15, 653130.	2.8	14
100	Brain age prediction using fMRI network coupling in youths and associations with psychiatric symptoms. <i>NeuroImage: Clinical</i> , 2022, 33, 102921.	2.7	14
101	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
102	Distributed genetic architecture across the hippocampal formation implies common neuropathology across brain disorders. <i>Nature Communications</i> , 2022, 13, .	12.8	12
103	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
104	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
105	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
106	Identification of Reproducible BCL11A Alterations in Schizophrenia Through Individual-Level Prediction of Coexpression. <i>Schizophrenia Bulletin</i> , 2020, 46, 1165-1171.	4.3	8
107	Identifying multimodal signatures underlying the somatic comorbidity of psychosis: the COMMITMENT roadmap. <i>Molecular Psychiatry</i> , 2021, 26, 722-724.	7.9	7
108	Genetic control of variability in subcortical and intracranial volumes. <i>Molecular Psychiatry</i> , 2021, 26, 3876-3883.	7.9	6

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109	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
110	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
111	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
112	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
113	Title is missing!. , 2020, 15, e0232292.		0
114	Title is missing!. , 2020, 15, e0232292.		0
115	Title is missing!. , 2020, 15, e0232292.		0
116	Title is missing!. , 2020, 15, e0232292.		0