Tim Hahn

List of Publications by Year
in descending order

110 papers	4,656 citations	101543 36 h-index	128289 60 g-index
113 all docs	113 docs citations	113 times ranked	7409 citing authors

#	Article	IF	Citations
1	ENIGMA and global neuroscience: A decade of large-scale studies of the brain in health and disease across more than 40 countries. Translational Psychiatry, 2020, 10, 100.	4.8	365
2	Simulation of Near-Infrared Light Absorption Considering Individual Head and Prefrontal Cortex Anatomy: Implications for Optical Neuroimaging. PLoS ONE, 2011, 6, e26377.	2.5	200
3	Sparse network-based models for patient classification using fMRI. NeuroImage, 2015, 105, 493-506.	4.2	151
4	Genome-wide copy number variation analysis in attention-deficit/hyperactivity disorder: association with neuropeptide Y gene dosage in an extended pedigree. Molecular Psychiatry, 2011, 16, 491-503.	7.9	145
5	Cortical thickness across the lifespan: Data from 17,075 healthy individuals aged 3â€"90â€‰years. Human Brain Mapping, 2022, 43, 431-451.	3.6	143
6	Volume of the Human Hippocampus and Clinical Response Following Electroconvulsive Therapy. Biological Psychiatry, 2018, 84, 574-581.	1.3	138
7	Brain aging in major depressive disorder: results from the ENIGMA major depressive disorder working group. Molecular Psychiatry, 2021, 26, 5124-5139.	7.9	136
8	Virtual Histology of Cortical Thickness and Shared Neurobiology in 6 Psychiatric Disorders. JAMA Psychiatry, 2021, 78, 47.	11.0	136
9	Increased power by harmonizing structural MRI site differences with the ComBat batch adjustment method in ENIGMA. NeuroImage, 2020, 218, 116956.	4.2	135
10	Integrating Neurobiological Markers of Depression. Archives of General Psychiatry, 2010, 68, 361.	12.3	130
11	Using structural MRI to identify bipolar disorders â€" 13 site machine learning study in 3020 individuals from the ENIGMA Bipolar Disorders Working Group. Molecular Psychiatry, 2020, 25, 2130-2143.	7.9	127
12	Neural response to reward anticipation is modulated by Gray's impulsivity. NeuroImage, 2009, 46, 1148-1153.	4.2	118
13	Patient classification as an outlier detection problem: An application of the One-Class Support Vector Machine. NeuroImage, 2011, 58, 793-804.	4.2	112
14	Predicting Treatment Response to Cognitive Behavioral Therapy in Panic Disorder With Agoraphobia by Integrating Local Neural Information. JAMA Psychiatry, 2015, 72, 68.	11.0	110
15	Neurobiology of the major psychoses: a translational perspective on brain structure and functionâ€"the FOR2107 consortium. European Archives of Psychiatry and Clinical Neuroscience, 2019, 269, 949-962.	3.2	103
16	Mediation of the influence of childhood maltreatment on depression relapse by cortical structure: a 2-year longitudinal observational study. Lancet Psychiatry,the, 2019, 6, 318-326.	7.4	97
17	Variability of (functional) hemodynamics as measured with simultaneous fNIRS and fMRI during intertemporal choice. NeuroImage, 2013, 71, 125-134.	4.2	87
18	Brain structural abnormalities in obesity: relation to age, genetic risk, and common psychiatric disorders. Molecular Psychiatry, 2021, 26, 4839-4852.	7.9	76

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19	Genetic variants associated with longitudinal changes in brain structure across the lifespan. Nature Neuroscience, 2022, 25, 421-432.	14.8	75
20	Subcortical volumes across the lifespan: Data from 18,605 healthy individuals aged 3â€"90â€°years. Human Brain Mapping, 2022, 43, 452-469.	3.6	72
21	Recommendations and future directions for supervised machine learning in psychiatry. Translational Psychiatry, 2019, 9, 271.	4.8	67
22	Association between rewardâ€related activation in the ventral striatum and trait reward sensitivity is moderated by dopamine transporter genotype. Human Brain Mapping, 2011, 32, 1557-1565.	3.6	66
23	Differential prefrontal and frontotemporal oxygenation patterns during phonemic and semantic verbal fluency. Neuropsychologia, 2012, 50, 1565-1569.	1.6	66
24	Systematic misestimation of machine learning performance in neuroimaging studies of depression. Neuropsychopharmacology, 2021, 46, 1510-1517.	5.4	60
25	Interactive impact of childhood maltreatment, depression, and age on cortical brain structure: mega-analytic findings from a large multi-site cohort. Psychological Medicine, 2020, 50, 1020-1031.	4.5	59
26	Mind the gap: Performance metric evaluation in brainâ€age prediction. Human Brain Mapping, 2022, 43, 3113-3129.	3.6	58
27	SCoRSâ€"A Method Based on Stability for Feature Selection and Mapping in Neuroimaging. IEEE Transactions on Medical Imaging, 2014, 33, 85-98.	8.9	57
28	Translational machine learning for psychiatric neuroimaging. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2019, 91, 113-121.	4.8	56
29	Medial prefrontal cortex stimulation modulates the processing of conditioned fear. Frontiers in Behavioral Neuroscience, 2014, 8, 44.	2.0	55
30	Elevated body-mass index is associated with reduced white matter integrity in two large independent cohorts. Psychoneuroendocrinology, 2018, 91, 179-185.	2.7	55
31	Inhibitory transcranial magnetic theta burst stimulation attenuates prefrontal cortex oxygenation. Human Brain Mapping, 2013, 34, 150-157.	3.6	53
32	Neural correlates of a standardized version of the trail making test in young and elderly adults: A functional near-infrared spectroscopy study. Neuropsychologia, 2014, 56, 271-279.	1.6	51
33	Altered resting-state functional connectome in major depressive disorder: a mega-analysis from the PsyMRI consortium. Translational Psychiatry, 2021, 11, 511.	4.8	51
34	Functional Amygdala-Hippocampus Connectivity During Anticipation of Aversive Events is Associated with Gray's Trait â€œSensitivity to Punishmentâ€. Biological Psychiatry, 2010, 68, 459-464.	1.3	49
35	Randomness of resting-state brain oscillations encodes Gray's personality trait. NeuroImage, 2012, 59, 1842-1845.	4.2	49
36	Separating depressive comorbidity from panic disorder: A combined functional magnetic resonance imaging and machine learning approach. Journal of Affective Disorders, 2015, 184, 182-192.	4.1	45

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37	Social anhedonia in major depressive disorder: a symptom-specific neuroimaging approach. Neuropsychopharmacology, 2019, 44, 883-889.	5.4	43
38	Functional connectivity of specific resting-state networks predicts trust and reciprocity in the trust game. Cognitive, Affective and Behavioral Neuroscience, 2019, 19, 165-176.	2.0	37
39	Severity of current depression and remission status are associated with structural connectome alterations in major depressive disorder. Molecular Psychiatry, 2020, 25, 1550-1558.	7.9	36
40	Influence of a genetic variant of the neuronal growth associated protein Stathmin 1 on cognitive and affective control processes: An event€related potential study. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2011, 156, 291-302.	1.7	31
41	Neural correlates of spontaneous panic attacks. Journal of Neural Transmission, 2011, 118, 263-269.	2.8	30
42	A novel approach to probabilistic biomarker€based classification using functional near€infrared spectroscopy. Human Brain Mapping, 2013, 34, 1102-1114.	3.6	30
43	Linking Online Gaming and Addictive Behavior: Converging Evidence for a General Reward Deficiency in Frequent Online Gamers. Frontiers in Behavioral Neuroscience, 2014, 8, 385.	2.0	30
44	Reduced fractional anisotropy in depressed patients due to childhood maltreatment rather than diagnosis. Neuropsychopharmacology, 2019, 44, 2065-2072.	5.4	30
45	Diagnostic classification of specific phobia subtypes using structural MRI data: a machine-learning approach. Journal of Neural Transmission, 2015, 122, 123-134.	2.8	29
46	Longitudinal Structural Brain Changes in Bipolar Disorder: A Multicenter Neuroimaging Study of 1232 Individuals by the ENIGMA Bipolar Disorder Working Group. Biological Psychiatry, 2022, 91, 582-592.	1.3	29
47	Facial width-to-height ratio predicts psychopathic traits in males. Personality and Individual Differences, 2016, 88, 99-101.	2.9	27
48	How to trust a perfect stranger: predicting initial trust behavior from resting-state brain-electrical connectivity. Social Cognitive and Affective Neuroscience, 2015, 10, 809-813.	3.0	26
49	Influence of electroconvulsive therapy on white matter structure in a diffusion tensor imaging study. Psychological Medicine, 2020, 50, 849-856.	4.5	26
50	Investigating the temporal dynamics of electroencephalogram (EEG) microstates using recurrent neural networks. Human Brain Mapping, 2020, 41, 2334-2346.	3.6	26
51	Association between body mass index and subcortical brain volumes in bipolar disorders€"ENIGMA study in 2735 individuals. Molecular Psychiatry, 2021, 26, 6806-6819.	7.9	24
52	Identification of transdiagnostic psychiatric disorder subtypes using unsupervised learning. Neuropsychopharmacology, 2021, 46, 1895-1905.	5.4	24
53	Classification of neurological diseases using multi-dimensional CSF analysis. Brain, 2021, 144, 2625-2634.	7.6	22
54	Neurovascular Coupling in the Human Visual Cortex Is Modulated by Cyclooxygenase-1 (COX-1) Gene Variant. Cerebral Cortex, 2011, 21, 1659-1666.	2.9	21

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55	Associations of schizophrenia risk genes ZNF804A and CACNA1C with schizotypy and modulation of attention in healthy subjects. Schizophrenia Research, 2019, 208, 67-75.	2.0	20
56	Cortical surface area alterations shaped by genetic load for neuroticism. Molecular Psychiatry, 2020, 25, 3422-3431.	7.9	20
57	Characterisation of age and polarity at onset in bipolar disorder. British Journal of Psychiatry, 2021, 219, 659-669.	2.8	20
58	NOS1 ex1f-VNTR polymorphism influences prefrontal brain oxygenation during a working memory task. NeuroImage, 2011, 57, 1617-1623.	4.2	19
59	Baseline activity predicts working memory load of preceding task condition. Human Brain Mapping, 2013, 34, 3010-3022.	3.6	18
60	Reliance on functional resting-state network for stable task control predicts behavioral tendency for cooperation. NeuroImage, 2015, 118, 231-236.	4.2	18
61	Cerebrospinal fluid flow cytometry distinguishes psychosis spectrum disorders from differential diagnoses. Molecular Psychiatry, 2021, 26, 7661-7670.	7.9	18
62	Medial Prefrontal Cortex Activity during the Extinction of Conditioned Fear: An Investigation Using Functional Near-Infrared Spectroscopy. Neuropsychobiology, 2012, 65, 173-182.	1.9	17
63	Childhood maltreatment moderates the influence of genetic load for obesity on reward related brain structure and function in major depression. Psychoneuroendocrinology, 2019, 100, 18-26.	2.7	17
64	Dimensions of Formal Thought Disorder and Their Relation to Gray- and White Matter Brain Structure in Affective and Psychotic Disorders. Schizophrenia Bulletin, 2022, 48, 902-911.	4.3	17
65	Combining heterogeneous data sources for neuroimaging based diagnosis: re-weighting and selecting what is important. NeuroImage, 2019, 195, 215-231.	4.2	16
66	The tricks of the trait: Neural implementation of personality varies with genotype-dependent serotonin levels. NeuroImage, 2013, 81, 393-399.	4.2	15
67	PHOTONAIâ€"A Python API for rapid machine learning model development. PLoS ONE, 2021, 16, e0254062.	2.5	15
68	Reduced reciprocal giving in social anxiety â€" Evidence from the Trust Game. Journal of Behavior Therapy and Experimental Psychiatry, 2018, 59, 12-18.	1.2	14
69	The role ofBDNFmethylation and Val66Met in amygdala reactivity during emotion processing. Human Brain Mapping, 2020, 41, 594-604.	3.6	14
70	Long-Term Neuroanatomical Consequences of Childhood Maltreatment: Reduced Amygdala Inhibition by Medial Prefrontal Cortex. Frontiers in Systems Neuroscience, 2020, 14, 28.	2.5	14
71	Biological sex classification with structural MRI data shows increased misclassification in transgender women. Neuropsychopharmacology, 2020, 45, 1758-1765.	5.4	14
72	From â€˜loose fittingâ€™ to high-performance, uncertainty-aware brain-age modelling. Brain, 2021, 144, e31-e31.	7.6	14

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73	K2P18.1 translates T cell receptor signals into thymic regulatory T cell development. Cell Research, 2022, 32, 72-88.	12.0	14
74	Machine learning probability calibration for high-risk clinical decision-making. Australian and New Zealand Journal of Psychiatry, 2020, 54, 123-126.	2.3	13
75	An uncertainty-aware, shareable, and transparent neural network architecture for brain-age modeling. Science Advances, 2022, 8, eabg9471.	10.3	13
76	Smartphone-Based Self-Reports of Depressive Symptoms Using the Remote Monitoring Application in Psychiatry (ReMAP): Interformat Validation Study. JMIR Mental Health, 2021, 8, e24333.	3.3	11
77	Brain structural connectivity, anhedonia, and phenotypes of major depressive disorder: A structural equation model approach. Human Brain Mapping, 2021, 42, 5063-5074.	3.6	11
78	Editorial: Predicting Chronological Age From Structural Neuroimaging: The Predictive Analytics Competition 2019. Frontiers in Psychiatry, 2021, 12, 710932.	2.6	11
79	Virtual Ontogeny of Cortical Growth Preceding Mental Illness. Biological Psychiatry, 2022, 92, 299-313.	1.3	11
80	*NOS1* ex1fâ€‘VNTR polymorphism affects prefrontal oxygenation during response inhibition tasks. Human Brain Mapping, 2012, 33, 2561-2571.	3.6	10
81	Apolipoprotein E Homozygous Îµ4 Allele Status: A Deteriorating Effect on Visuospatial Working Memory and Global Brain Structure. Frontiers in Neurology, 2019, 10, 552.	2.4	10
82	Polygenic risk for schizophrenia and schizotypal traits in non-clinical subjects. Psychological Medicine, 2022, 52, 1069-1079.	4.5	10
83	Brain structural correlates of schizotypal signs and subclinical schizophrenia nuclear symptoms in healthy individuals. Psychological Medicine, 2022, 52, 342-351.	4.5	10
84	Social support and hippocampal volume are negatively associated in adults with previous experience of childhood maltreatment. Journal of Psychiatry and Neuroscience, 2021, 46, E328-E336.	2.4	10
85	The progression of disorder-specific brain pattern expression in schizophrenia over 9 years. NPJ Schizophrenia, 2021, 7, 32.	3.6	10
86	Local Synchronization of Resting-State Dynamics Encodes Grayâ€™s Trait Anxiety. PLoS ONE, 2013, 8, e58336.	2.5	10
87	*KCNJ6* variants modulate rewardâ€‘related brain processes and impact executive functions in attentionâ€‘deficit/hyperactivity disorder. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2020, 183, 247-257.	1.7	9
88	Proteomic Profiling as a Diagnostic Biomarker for Discriminating Between Bipolar and Unipolar Depression. Frontiers in Psychiatry, 2020, 11, 189.	2.6	9
89	The Course of Disease in Major Depressive Disorder Is Associated With Altered Activity of the Limbic System During Negative Emotion Processing. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2022, 7, 323-332.	1.5	9
90	Association of brain white matter microstructure with cognitive performance in major depressive disorder and healthy controls: a diffusion-tensor imaging study. Molecular Psychiatry, 2022, 27, 1103-1110.	7.9	9

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91	Technical feasibility and adherence of the Remote Monitoring Application in Psychiatry (ReMAP) for the assessment of affective symptoms. Journal of Affective Disorders, 2021, 294, 652-660.	4.1	8
92	Association between stressful life events and grey matter volume in the medial prefrontal cortex: A 2â€‘year longitudinal study. Human Brain Mapping, 2022, 43, 3577-3584.	3.6	8
93	Effects of polygenic risk for major mental disorders and cross-disorder on cortical complexity. Psychological Medicine, 2021, , 1-12.	4.5	7
94	Time heals all wounds? A 2-year longitudinal diffusion tensor imaging study in major depressive disorder. Journal of Psychiatry and Neuroscience, 2019, 44, 407-413.	2.4	7
95	From multivariate methods to an AI ecosystem. Molecular Psychiatry, 2021, , .	7.9	6
96	Genetic risk for psychiatric illness is associated with the number of hospitalizations of bipolar disorder patients. Journal of Affective Disorders, 2022, 296, 532-540.	4.1	6
97	Diagnosis of bipolar disorders and body mass index predict clustering based on similarities in cortical thicknessâ€"ENIGMA study in 2436 individuals. Bipolar Disorders, 2022, 24, 509-520.	1.9	5
98	Recommendations for machine learning benchmarks in neuroimaging. NeuroImage, 2022, 257, 119298.	4.2	5
99	White matter fiber microstructure is associated with prior hospitalizations rather than acute symptomatology in major depressive disorder. Psychological Medicine, 2020, , 1-9.	4.5	4
100	Association Between Genetic Risk for Type 2 Diabetes and Structural Brain Connectivity in Major Depressive Disorder. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2022, 7, 333-340.	1.5	4
101	Novelty seeking is associated with increased body weight and orbitofrontal grey matter volume reduction. Psychoneuroendocrinology, 2021, 126, 105148.	2.7	4
102	Significance and stability of deep learning-based identification of subtypes within major psychiatric disorders. Molecular Psychiatry, 2022, 27, 1858-1859.	7.9	4
103	Correction to â€œSCoRSâ€"A Method Based on Stability for Feature Selection and Mapping in Neuroimagingâ€•[Jan 14 85-98]. IEEE Transactions on Medical Imaging, 2014, 33, 794-794.	8.9	3
104	Structural and functional neural correlates of vigilant and avoidant regulation style. Journal of Affective Disorders, 2019, 258, 96-101.	4.1	3
105	Evidence for a sex-specific contribution of polygenic load for anorexia nervosa to body weight and prefrontal brain structure in nonclinical individuals. Neuropsychopharmacology, 2019, 44, 2212-2219.	5.4	3
106	Interpreting weights of multimodal machine learning modelsâ€"problems and pitfalls. Neuropsychopharmacology, 2021, 46, 1861-1862.	5.4	3
107	Replication of a hippocampus specific effect of the tescalcin regulating variant rs7294919 on gray matter structure. European Neuropsychopharmacology, 2020, 36, 10-17.	0.7	2
108	Apolipoprotein E homozygous Îµ4 allele status: Effects on cortical structure and white matter integrity in a young to mid-age sample. European Neuropsychopharmacology, 2021, 46, 93-104.	0.7	2

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109	Investigating the phenotypic and genetic associations between personality traits and suicidal behavior across major mental health diagnoses. European Archives of Psychiatry and Clinical Neuroscience, 2022, , 1.	3.2	2
110	Seizure prediction in genetic rat models of absence epilepsy: improved performance through multiple-site cortico-thalamic recordings combined with machine learning. ENeuro, 2021, , ENEURO.0160-21.2021.	1.9	0