Marcel Peter Zwiers

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/231019/publications.pdf

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129 papers 10,748 citations

³⁸⁷⁴² 50 h-index

94 g-index

141 all docs

141 docs citations

141 times ranked

14413 citing authors

#	Article	IF	CITATIONS
1	Common genetic variants influence human subcortical brain structures. Nature, 2015, 520, 224-229.	27.8	772
2	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. Brain Imaging and Behavior, 2014, 8, 153-182.	2.1	696
3	Subcortical brain volume differences in participants with attention deficit hyperactivity disorder in children and adults: a cross-sectional mega-analysis. Lancet Psychiatry,the, 2017, 4, 310-319.	7.4	565
4	The genetic architecture of the human cerebral cortex. Science, 2020, 367, .	12.6	450
5	Diffusion tensor imaging in attention deficit/hyperactivity disorder: A systematic review and meta-analysis. Neuroscience and Biobehavioral Reviews, 2012, 36, 1093-1106.	6.1	338
6	Mapping cortical brain asymmetry in 17,141 healthy individuals worldwide via the ENIGMA Consortium. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5154-E5163.	7.1	299
7	Brain Imaging of the Cortex in ADHD: A Coordinated Analysis of Large-Scale Clinical and Population-Based Samples. American Journal of Psychiatry, 2019, 176, 531-542.	7.2	261
8	Novel genetic loci associated with hippocampal volume. Nature Communications, 2017, 8, 13624.	12.8	250
9	Loss of white matter integrity is associated with gait disorders in cerebral small vessel disease. Brain, 2011, 134, 73-83.	7.6	246
10	Heritability of fractional anisotropy in human white matter: A comparison of Human Connectome Project and ENIGMA-DTI data. NeuroImage, 2015, 111, 300-311.	4.2	227
11	Gut microbiome in ADHD and its relation to neural reward anticipation. PLoS ONE, 2017, 12, e0183509.	2.5	215
12	Novel genetic loci underlying human intracranial volume identified through genome-wide association. Nature Neuroscience, 2016, 19, 1569-1582.	14.8	213
13	Genetic influences on schizophrenia and subcortical brain volumes: large-scale proof of concept. Nature Neuroscience, 2016, 19, 420-431.	14.8	204
14	Genetic architecture of subcortical brain structures in 38,851 individuals. Nature Genetics, 2019, 51, 1624-1636.	21.4	192
15	Patterns of Gray Matter Abnormalities in Schizophrenia Based on an International Mega-analysis. Schizophrenia Bulletin, 2015, 41, 1133-1142.	4.3	183
16	The EU-AIMS Longitudinal European Autism Project (LEAP): design and methodologies to identify and validate stratification biomarkers for autism spectrum disorders. Molecular Autism, 2017, 8, 24.	4.9	183
17	Developmentally Stable Whole-Brain Volume Reductions and Developmentally Sensitive Caudate and Putamen Volume Alterations in Those With Attention-Deficit/Hyperactivity Disorder and Their Unaffected Siblings. JAMA Psychiatry, 2015, 72, 490.	11.0	159
18	Causes and consequences of cerebral small vessel disease. The RUN DMC study: a prospective cohort study. Study rationale and protocol. BMC Neurology, 2011, 11, 29.	1.8	154

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19	Human subcortical brain asymmetries in 15,847 people worldwide reveal effects of age and sex. Brain Imaging and Behavior, 2017, 11, 1497-1514.	2.1	144
20	White matter integrity in small vessel disease is related to cognition. NeuroImage: Clinical, 2015, 7, 518-524.	2.7	143
21	Cigarette smoking is associated with reduced microstructural integrity of cerebral white matter. Brain, 2011, 134, 2116-2124.	7.6	139
22	The NeurolMAGE study: a prospective phenotypic, cognitive, genetic and MRI study in children with attention-deficit/hyperactivity disorder. Design and descriptives. European Child and Adolescent Psychiatry, 2015, 24, 265-281.	4.7	138
23	Plasticity in human sound localization induced by compressed spatial vision. Nature Neuroscience, 2003, 6, 175-181.	14.8	133
24	The phenotype and neural correlates of language in autism: An integrative review. Neuroscience and Biobehavioral Reviews, 2008, 32, 1416-1425.	6.1	128
25	The EU-AIMS Longitudinal European Autism Project (LEAP): clinical characterisation. Molecular Autism, 2017, 8, 27.	4.9	126
26	Structural network connectivity and cognition in cerebral small vessel disease. Human Brain Mapping, 2016, 37, 300-310.	3.6	122
27	Subcortical Brain Volume, Regional Cortical Thickness, and Cortical Surface Area Across Disorders: Findings From the ENIGMA ADHD, ASD, and OCD Working Groups. American Journal of Psychiatry, 2020, 177, 834-843.	7.2	120
28	Gait in Elderly With Cerebral Small Vessel Disease. Stroke, 2010, 41, 1652-1658.	2.0	116
29	Brain alterations in adult ADHD: Effects of gender, treatment and comorbid depression. European Neuropsychopharmacology, 2014, 24, 397-409.	0.7	116
30	Asymmetry within and around the human planum temporale is sexually dimorphic and influenced by genes involved in steroid hormone receptor activity. Cortex, 2015, 62, 41-55.	2.4	114
31	Exploration of scanning effects in multi-site structural MRI studies. Journal of Neuroscience Methods, 2014, 230, 37-50.	2.5	112
32	Pervasive microstructural abnormalities in autism: a DTI study. Journal of Psychiatry and Neuroscience, 2011, 36, 32-40.	2.4	107
33	Differences in cerebral cortical anatomy of left- and right-handers. Frontiers in Psychology, 2014, 5, 261.	2.1	103
34	Patching cardiac and head motion artefacts in diffusion-weighted images. NeuroImage, 2010, 53, 565-575.	4.2	97
35	Increased Neural Responses to Reward in Adolescents and Young Adults With Attention-Deficit/Hyperactivity Disorder and Their Unaffected Siblings. Journal of the American Academy of Child and Adolescent Psychiatry, 2015, 54, 394-402.	0.5	94
36	Nitric Oxide Synthase Genotype Modulation of Impulsivity and Ventral Striatal Activity in Adult ADHD Patients and Healthy Comparison Subjects. American Journal of Psychiatry, 2011, 168, 1099-1106.	7.2	92

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37	Involvement of Monkey Inferior Colliculus in Spatial Hearing. Journal of Neuroscience, 2004, 24, 4145-4156.	3.6	88
38	Investigating the factors underlying adaptive functioning in autism in the EUâ€AIMS Longitudinal European Autism Project. Autism Research, 2019, 12, 645-657.	3.8	87
39	Altered Connectivity Between Cerebellum, Visual, and Sensory-Motor Networks in Autism Spectrum Disorder: Results from the EU-AIMS Longitudinal European Autism Project. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2019, 4, 260-270.	1.5	82
40	Intact Spectral but Abnormal Temporal Processing of Auditory Stimuli in Autism. Journal of Autism and Developmental Disorders, 2009, 39, 742-750.	2.7	81
41	Brain scans from 21,297 individuals reveal the genetic architecture of hippocampal subfield volumes. Molecular Psychiatry, 2020, 25, 3053-3065.	7.9	80
42	Diffusion tensor imaging and cognition in cerebral small vessel disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 401-407.	3.8	79
43	Distinguishing Adolescents With ADHD From Their Unaffected Siblings and Healthy Comparison Subjects by Neural Activation Patterns During Response Inhibition. American Journal of Psychiatry, 2015, 172, 674-683.	7.2	77
44	Hypertension and Cerebral Diffusion Tensor Imaging in Small Vessel Disease. Stroke, 2010, 41, 2801-2806.	2.0	76
45	Physical activity is related to the structural integrity of cerebral white matter. Neurology, 2013, 81, 971-976.	1.1	76
46	Different Mechanisms of White Matter Abnormalities in Attention-Deficit/Hyperactivity Disorder: A Diffusion Tensor Imaging Study. Journal of the American Academy of Child and Adolescent Psychiatry, 2014, 53, 790-799.e3.	0.5	76
47	Deviant white matter structure in adults with attention-deficit/hyperactivity disorder points to aberrant myelination and affects neuropsychological performance. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2015, 63, 14-22.	4.8	70
48	White Matter Microstructural Alterations in Children with ADHD: Categorical and Dimensional Perspectives. Neuropsychopharmacology, 2017, 42, 572-580.	5.4	68
49	Functional Diffusion Tensor Imaging: Measuring Task-Related Fractional Anisotropy Changes in the Human Brain along White Matter Tracts. PLoS ONE, 2008, 3, e3631.	2.5	66
50	Two-dimensional sound-localization behavior of early-blind humans. Experimental Brain Research, 2001, 140, 206-222.	1.5	62
51	Genetic correlations and genome-wide associations of cortical structure in general population samples of 22,824 adults. Nature Communications, 2020, 11, 4796.	12.8	61
52	White matter microstructure and developmental improvement of hyperactive/impulsive symptoms in attentionâ€deficit/hyperactivity disorder. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2015, 56, 1289-1297.	5.2	54
53	Voxel-based morphometry analysis reveals frontal brain differences in participants with ADHD and their unaffected siblings. Journal of Psychiatry and Neuroscience, 2016, 41, 272-279.	2.4	54
54	Diffusion Tensor Imaging and Gait in Elderly Persons With Cerebral Small Vessel Disease. Stroke, 2011, 42, 373-379.	2.0	53

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55	Cerebral White Matter Lesions and Lacunar Infarcts Contribute to the Presence of Mild Parkinsonian Signs. Stroke, 2012, 43, 2574-2579.	2.0	52
56	Risk factors and prognosis of young stroke. The FUTURE study: A prospective cohort study. Study rationale and protocol. BMC Neurology, 2011, 11, 109.	1.8	51
57	Childhood abuse and deprivation are associated with distinct sex-dependent differences in brain morphology. Neuropsychopharmacology, 2016, 41, 1716-1723.	5.4	51
58	Brain Correlates of the Interaction Between <i>>5-HTTLPR</i> and Psychosocial Stress Mediating Attention Deficit Hyperactivity Disorder Severity. American Journal of Psychiatry, 2015, 172, 768-775.	7.2	44
59	Partition-based mass clustering of tractography streamlines. Neurolmage, 2011, 54, 303-312.	4.2	43
60	Measurement and genetics of human subcortical and hippocampal asymmetries in large datasets. Human Brain Mapping, 2014, 35, 3277-3289.	3.6	43
61	Integrated analysis of gray and white matter alterations in attention-deficit/hyperactivity disorder. NeuroImage: Clinical, 2016 , 11 , 357 - 367 .	2.7	43
62	Lower white matter microstructure in the superior longitudinal fasciculus is associated with increased response time variability in adults with attention-deficit/hyperactivity disorder. Journal of Psychiatry and Neuroscience, 2015, 40, 344-351.	2.4	42
63	Fronto-limbic microstructure and structural connectivity in remission from major depression. Psychiatry Research - Neuroimaging, 2012, 204, 40-48.	1.8	41
64	Diffusion tensor imaging of the hippocampus and verbal memory performance: The RUN DMC Study. Human Brain Mapping, 2012, 33, 542-551.	3.6	39
65	Fronto-Striatal Glutamate in Autism Spectrum Disorder and Obsessive Compulsive Disorder. Neuropsychopharmacology, 2017, 42, 2456-2465.	5.4	39
66	Refinement by integration: aggregated effects of multimodal imaging markers on adult ADHD. Journal of Psychiatry and Neuroscience, 2017, 42, 386-394.	2.4	39
67	Spectrotemporal Response Properties of Inferior Colliculus Neurons in Alert Monkey. Journal of Neuroscience, 2009, 29, 9725-9739.	3.6	38
68	Hypertension is Related to the Microstructure of the Corpus Callosum: The RUN DMC Study. Journal of Alzheimer's Disease, 2012, 32, 623-631.	2.6	38
69	Cognitive flexibility depends on white matter microstructure of the basal ganglia. Neuropsychologia, 2014, 53, 171-177.	1.6	37
70	Assessing the effects of common variation in the FOXP2 gene on human brain structure. Frontiers in Human Neuroscience, 2014, 8, 473.	2.0	36
71	Atypical Brain Asymmetry in Autism—A Candidate for Clinically Meaningful Stratification. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2021, 6, 802-812.	1.5	36
72	Fronto-striatal glutamate in children with Tourette's disorder and attention-deficit/hyperactivity disorder. Neurolmage: Clinical, 2017, 13, 16-23.	2.7	35

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73	An in vivo study of the orientationâ€dependent and independent components of transverse relaxation rates in white matter. NMR in Biomedicine, 2016, 29, 1780-1790.	2.8	33
74	Referenceâ€free unwarping of EPI data using dynamic offâ€resonance correction with multiecho acquisition (DOCMA). Magnetic Resonance in Medicine, 2012, 68, 1247-1254.	3.0	32
75	Dissecting the phenotypic heterogeneity in sensory features in autism spectrum disorder: a factor mixture modelling approach. Molecular Autism, 2020, 11 , 67 .	4.9	32
76	Oneâ€year cholesterol lowering treatment reduces medial temporal lobe atrophy and memory decline in strokeâ€free elderly with atrial fibrillation: evidence from a parallel group randomized trial. International Journal of Geriatric Psychiatry, 2012, 27, 49-58.	2.7	31
77	A genomeâ€wide search for quantitative trait loci affecting the cortical surface area and thickness of Heschl's gyrus. Genes, Brain and Behavior, 2014, 13, 675-685.	2.2	31
78	Healthy cortical development through adolescence and early adulthood. Brain Structure and Function, 2017, 222, 3653-3663.	2.3	30
79	Patterns of cortical degeneration in an elderly cohort with cerebral small vessel disease. Human Brain Mapping, 2010, 31, 1983-1992.	3.6	29
80	Microstructural integrity of the cingulum is related to verbal memory performance in elderly with cerebral small vessel disease. NeuroImage, 2013, 65, 416-423.	4.2	29
81	Structural asymmetries of the human cerebellum in relation to cerebral cortical asymmetries and handedness. Brain Structure and Function, 2017, 222, 1611-1623.	2.3	29
82	Anatomical connection strength predicts dopaminergic drug effects on fronto-striatal function. Psychopharmacology, 2013, 227, 521-531.	3.1	27
83	Linked anatomical and functional brain alterations in children with attention-deficit/hyperactivity disorder. Neurolmage: Clinical, 2019, 23, 101851.	2.7	27
84	Smoking and the developing brain: Altered white matter microstructure in attentionâ€deficit/hyperactivity disorder and healthy controls. Human Brain Mapping, 2015, 36, 1180-1189.	3.6	25
85	Atypical vertical sound localization and sound-onset sensitivity in people with autism spectrum disorders. Journal of Psychiatry and Neuroscience, 2013, 38, 398-406.	2.4	24
86	Stimulant treatment history predicts frontal-striatal structural connectivity in adolescents with attention-deficit/hyperactivity disorder. European Neuropsychopharmacology, 2016, 26, 674-683.	0.7	23
87	No effect of schizophrenia risk genes MIR137, TCF4, and ZNF804A on macroscopic brain structure. Schizophrenia Research, 2014, 159, 329-332.	2.0	22
88	Predicting brain structure in populationâ€based samples with biologically informed genetic scores for schizophrenia. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2017, 174, 324-332.	1.7	22
89	Brain Volumetric Correlates of Autism Spectrum Disorder Symptoms in Attention Deficit/Hyperactivity Disorder. PLoS ONE, 2014, 9, e101130.	2.5	21
90	Anterior cingulate cortex glutamate and its association with striatal functioning during cognitive control. European Neuropsychopharmacology, 2018, 28, 381-391.	0.7	21

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91	Temporal Profiles of Social Attention Are Different Across Development in Autistic and Neurotypical People. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2021, 6, 813-824.	1.5	21
92	Decreased Left Caudate Volume Is Associated with Increased Severity of Autistic-Like Symptoms in a Cohort of ADHD Patients and Their Unaffected Siblings. PLoS ONE, 2016, 11, e0165620.	2.5	20
93	Resting state EEG power spectrum and functional connectivity in autism: a cross-sectional analysis. Molecular Autism, 2022, 13, 22.	4.9	20
94	Enlarged striatal volume in adults with ADHD carrying the 9-6 haplotype of the dopamine transporter gene DAT1. Journal of Neural Transmission, 2016, 123, 905-915.	2.8	19
95	Functional diffusion tensor imaging at 3 Tesla. Frontiers in Human Neuroscience, 2013, 7, 817.	2.0	18
96	Converging evidence does not support <i>GIT1</i> as an ADHD risk gene. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2015, 168, 492-507.	1.7	18
97	Striatal structure and its association with N-Acetylaspartate and glutamate in autism spectrum disorder and obsessive compulsive disorder. European Neuropsychopharmacology, 2018, 28, 118-129.	0.7	18
98	Aggression subtypes relate to distinct resting state functional connectivity in children and adolescents with disruptive behavior. European Child and Adolescent Psychiatry, 2021, 30, 1237-1249.	4.7	18
99	The effects of callous-unemotional traits and aggression subtypes on amygdala activity in response to negative faces. Psychological Medicine, 2022, 52, 476-484.	4.5	18
100	<scp>B</scp> asal ganglia structure in Tourette's disorder and/or attentionâ€deficit/hyperactivity disorder. Movement Disorders, 2017, 32, 601-604.	3.9	16
101	A Common CYFIP1 Variant at the 15q11.2 Disease Locus Is Associated with Structural Variation at the Language-Related Left Supramarginal Gyrus. PLoS ONE, 2016, 11, e0158036.	2.5	16
102	Diffusion tensor imaging and mild parkinsonian signs in cerebral small vessel disease. Neurobiology of Aging, 2012, 33, 2106-2112.	3.1	15
103	Gâ€protein genomic association with normal variation in gray matter density. Human Brain Mapping, 2015, 36, 4272-4286.	3.6	15
104	No Association between Cortical Gyrification or Intrinsic Curvature and Attention-deficit/Hyperactivity Disorder in Adolescents and Young Adults. Frontiers in Neuroscience, 2017, 11, 218.	2.8	14
105	COMPULS: design of a multicenter phenotypic, cognitive, genetic, and magnetic resonance imaging study in children with compulsive syndromes. BMC Psychiatry, 2016, 16, 361.	2.6	13
106	Specific cortical and subcortical alterations for reactive and proactive aggression in children and adolescents with disruptive behavior. NeuroImage: Clinical, 2020, 27, 102344.	2.7	13
107	Gender in Voice Perception in Autism. Journal of Autism and Developmental Disorders, 2008, 38, 1819-1826.	2.7	12
108	Dopaminergic drug effects during reversal learning depend on anatomical connections between the orbitofrontal cortex and the amygdala. Frontiers in Neuroscience, 2013, 7, 142.	2.8	12

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109	Reduced fronto-striatal volume in attention-deficit/hyperactivity disorder in two cohorts across the lifespan. Neurolmage: Clinical, 2020, 28, 102403.	2.7	12
110	Distinct associations between fronto-striatal glutamate concentrations and callous-unemotional traits and proactive aggression in disruptive behavior. Cortex, 2019, 121, 135-146.	2.4	10
111	Preference for biological motion is reduced in ASD: implications for clinical trials and the search for biomarkers. Molecular Autism, 2021, 12, 74.	4.9	10
112	Age-related brain deviations and aggression. Psychological Medicine, 2023, 53, 4012-4021.	4.5	10
113	Subgrouping children and adolescents with disruptive behaviors: symptom profiles and the role of callous–unemotional traits. European Child and Adolescent Psychiatry, 2022, 31, 51-66.	4.7	9
114	Visual Scanning in Very Young Children with Autism and Their Unaffected Parents. Autism Research & Treatment, 2012, 2012, 1-9.	0.5	8
115	White Matter Microstructure in Attention-Deficit/Hyperactivity Disorder: A Systematic Tractography Study in 654 Individuals. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2022, 7, 979-988.	1.5	8
116	Multi-modal imaging investigation of anterior cingulate cortex cytoarchitecture in neurodevelopment. European Neuropsychopharmacology, 2018, 28, 13-23.	0.7	7
117	Multi-Site Meta-Analysis of Morphometry. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 1508-1514.	3.0	7
118	Structural and functional MRI of altered brain development in a novel adolescent rat model of quinpirole-induced compulsive checking behavior. European Neuropsychopharmacology, 2020, 33, 58-70.	0.7	7
119	Combined stimulant and antipsychotic treatment in adolescents with attention-deficit/hyperactivity disorder: a cross-sectional observational structural MRI study. European Child and Adolescent Psychiatry, 2015, 24, 959-968.	4.7	6
120	Correlation between brain function and ADHD symptom changes in children with ADHD following a few-foods diet: an open-label intervention trial. Scientific Reports, 2021, 11, 22205.	3.3	5
121	Longitudinal changes of ADHD symptoms in association with white matter microstructure: A tract-specific fixel-based analysis. NeuroImage: Clinical, 2022, 35, 103057.	2.7	5
122	Reward and Punishment Sensitivity are Associated with Cross-disorder Traits. Psychiatry Research, 2021, 298, 113795.	3.3	4
123	Associations between attentionâ€deficit hyperactivity disorder (ADHD) symptom remission and white matter microstructure: A longitudinal analysis. JCPP Advances, 2021, 1, e12040.	2.4	3
124	Human Brain Volume: What's in the Genes#. , 2009, , 137-157.		2
125	Multisite Metaanalysis of Image-Wide Genome-Wide Associations With Morphometry. , 2018, , 1-23.		1
126	Do we measure gray matter activation with functional diffusion tensor imaging?. Frontiers in Neuroscience, 2014, 8, 126.	2.8	0

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127	Association study of fibroblast growth factor genes and brain volumes in schizophrenic patients and healthy controls. Psychiatric Genetics, 2014, 24, 283-284.	1.1	O
128	T77. Automated Reconstruction of White Matter Pathways in Attention-Deficit / Hyperactivity Disorder Using Anatomical Priors. Biological Psychiatry, 2018, 83, S158-S159.	1.3	0
129	T75. Amygdala and Ventral Striatum Volume and its Association With Subtypes of Aggression. Biological Psychiatry, 2018, 83, S157-S158.	1.3	O