

# Rachel M Brouwer

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

7,235  
citations

87723

38  
h-index

85405

71  
g-index

80  
all docs

80  
docs citations

80  
times ranked

9573  
citing authors

#	ARTICLE	IF	CITATIONS
1	Common genetic variants influence human subcortical brain structures. <i>Nature</i> , 2015, 520, 224-229.	13.7	772
2	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. <i>Brain Imaging and Behavior</i> , 2014, 8, 153-182.	1.1	696
3	The genetic architecture of the human cerebral cortex. <i>Science</i> , 2020, 367, .	6.0	450
4	Genetic influences on human brain structure: A review of brain imaging studies in twins. <i>Human Brain Mapping</i> , 2007, 28, 464-473.	1.9	384
5	ENIGMA and global neuroscience: A decade of large-scale studies of the brain in health and disease across more than 40 countries. <i>Translational Psychiatry</i> , 2020, 10, 100.	2.4	365
6	Multi-site genetic analysis of diffusion images and voxelwise heritability analysis: A pilot project of the ENIGMAâ€“DTI working group. <i>NeuroImage</i> , 2013, 81, 455-469.	2.1	354
7	Changes in Thickness and Surface Area of the Human Cortex and Their Relationship with Intelligence. <i>Cerebral Cortex</i> , 2015, 25, 1608-1617.	1.6	290
8	Novel genetic loci associated with hippocampal volume. <i>Nature Communications</i> , 2017, 8, 13624.	5.8	250
9	Sex steroids and brain structure in pubertal boys and girls. <i>Psychoneuroendocrinology</i> , 2009, 34, 332-342.	1.3	234
10	Heritability of fractional anisotropy in human white matter: A comparison of Human Connectome Project and ENIGMA-DTI data. <i>NeuroImage</i> , 2015, 111, 300-311.	2.1	227
11	Novel genetic loci underlying human intracranial volume identified through genome-wide association. <i>Nature Neuroscience</i> , 2016, 19, 1569-1582.	7.1	213
12	Genetic architecture of subcortical brain structures in 38,851 individuals. <i>Nature Genetics</i> , 2019, 51, 1624-1636.	9.4	192
13	ENIGMA and the individual: Predicting factors that affect the brain in 35 countries worldwide. <i>NeuroImage</i> , 2017, 145, 389-408.	2.1	173
14	Heritability of regional and global brain structure at the onset of puberty: A magnetic resonance imaging study in 9â€“yearâ€“old twin pairs. <i>Human Brain Mapping</i> , 2009, 30, 2184-2196.	1.9	155
15	Cortical thickness across the lifespan: Data from 17,075 healthy individuals aged 3â€“90â€“years. <i>Human Brain Mapping</i> , 2022, 43, 431-451.	1.9	143
16	Multi-site study of additive genetic effects on fractional anisotropy of cerebral white matter: Comparing meta and mega-analytical approaches for data pooling. <i>NeuroImage</i> , 2014, 95, 136-150.	2.1	127
17	Overlapping and Segregating Structural Brain Abnormalities in Twins With Schizophrenia or Bipolar Disorder. <i>Archives of General Psychiatry</i> , 2012, 69, 349.	13.8	107
18	White Matter Development in Early Puberty: A Longitudinal Volumetric and Diffusion Tensor Imaging Twin Study. <i>PLoS ONE</i> , 2012, 7, e32316.	1.1	99

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19	Cerebral white matter in early puberty is associated with luteinizing hormone concentrations. <i>Psychoneuroendocrinology</i> , 2008, 33, 909-915.	1.3	94
20	Heritability of subcortical brain measures: A perspective for future genome-wide association studies. <i>NeuroImage</i> , 2013, 83, 98-102.	2.1	87
21	Heritability of Verbal and Performance Intelligence in a Pediatric Longitudinal Sample. <i>Twin Research and Human Genetics</i> , 2011, 14, 119-128.	0.3	76
22	Greater male than female variability in regional brain structure across the lifespan. <i>Human Brain Mapping</i> , 2022, 43, 470-499.	1.9	76
23	Genetic variants associated with longitudinal changes in brain structure across the lifespan. <i>Nature Neuroscience</i> , 2022, 25, 421-432.	7.1	75
24	Subcortical volumes across the lifespan: Data from 18,605 healthy individuals aged 3 to 90 years. <i>Human Brain Mapping</i> , 2022, 43, 452-469.	1.9	72
25	The Association Between Familial Risk and Brain Abnormalities Is Disease Specific: An ENIGMA-Relatives Study of Schizophrenia and Bipolar Disorder. <i>Biological Psychiatry</i> , 2019, 86, 545-556.	0.7	67
26	What we learn about bipolar disorder from large-scale neuroimaging: Findings and future directions from the ENIGMA Bipolar Disorder Working Group. <i>Human Brain Mapping</i> , 2022, 43, 56-82.	1.9	67
27	Heritability of DTI and MTR in nine-year-old children. <i>NeuroImage</i> , 2010, 53, 1085-1092.	2.1	66
28	Development of the brain's structural network efficiency in early adolescence: A longitudinal DTI twin study. <i>Human Brain Mapping</i> , 2015, 36, 4938-4953.	1.9	64
29	Genetic correlations and genome-wide associations of cortical structure in general population samples of 22,824 adults. <i>Nature Communications</i> , 2020, 11, 4796.	5.8	61
30	Heritability of structural brain network topology: A DTI study of 156 twins. <i>Human Brain Mapping</i> , 2014, 35, 5295-5305.	1.9	56
31	Structural Brain Connectivity as a Genetic Marker for Schizophrenia. <i>JAMA Psychiatry</i> , 2016, 73, 11.	6.0	56
32	Genetic and environmental influences on functional connectivity within and between canonical cortical resting-state networks throughout adolescent development in boys and girls. <i>NeuroImage</i> , 2019, 202, 116073.	2.1	54
33	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.	6.0	54
34	Genetic influences on individual differences in longitudinal changes in global and subcortical brain volumes: Results of the ENIGMA plasticity working group. <i>Human Brain Mapping</i> , 2017, 38, 4444-4458.	1.9	51
35	Dose response of the 16p11.2 distal copy number variant on intracranial volume and basal ganglia. <i>Molecular Psychiatry</i> , 2020, 25, 584-602.	4.1	49
36	Focal And Global Brain Measurements in Siblings of Patients With Schizophrenia. <i>Schizophrenia Bulletin</i> , 2012, 38, 814-825.	2.3	48

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37	Brain SCALE: Brain Structure and Cognition: an Adolescent Longitudinal Twin Study into the Genetic Etiology of Individual Differences. <i>Twin Research and Human Genetics</i> , 2012, 15, 453-467.	0.3	48
38	Association between structural brain network efficiency and intelligence increases during adolescence. <i>Human Brain Mapping</i> , 2018, 39, 822-836.	1.9	45
39	Segmentation of MRI brain scans using non-uniform partial volume densities. <i>NeuroImage</i> , 2010, 49, 467-477.	2.1	44
40	Cortical thickness in individuals with non-clinical and clinical psychotic symptoms. <i>Brain</i> , 2014, 137, 2664-2669.	3.7	41
41	Genetic Influences on the Development of Cerebral Cortical Thickness During Childhood and Adolescence in a Dutch Longitudinal Twin Sample: The Brainscale Study. <i>Cerebral Cortex</i> , 2019, 29, 978-993.	1.6	40
42	Heritability of brain volume change and its relation to intelligence. <i>NeuroImage</i> , 2014, 100, 676-683.	2.1	38
43	Effects of Gestational Age and Birth Weight on Brain Volumes in Healthy 9 Year-Old Children. <i>Journal of Pediatrics</i> , 2010, 156, 896-901.	0.9	35
44	Heritability of volumetric brain changes and height in children entering puberty. <i>Human Brain Mapping</i> , 2013, 34, 713-725.	1.9	35
45	The Speed of Development of Adolescent Brain Age Depends on Sex and Is Genetically Determined. <i>Cerebral Cortex</i> , 2021, 31, 1296-1306.	1.6	35
46	Longitudinal Development of Hormone Levels and Grey Matter Density in 9 and 12-Year-Old Twins. <i>Behavior Genetics</i> , 2015, 45, 313-323.	1.4	33
47	Contributing factors to advanced brain aging in depression and anxiety disorders. <i>Translational Psychiatry</i> , 2021, 11, 402.	2.4	31
48	Accelerated aging in the brain, epigenetic aging in blood, and polygenic risk for schizophrenia. <i>Schizophrenia Research</i> , 2021, 231, 189-197.	1.1	30
49	Longitudinal Structural Brain Changes in Bipolar Disorder: A Multicenter Neuroimaging Study of 1232 Individuals by the ENIGMA Bipolar Disorder Working Group. <i>Biological Psychiatry</i> , 2022, 91, 582-592.	0.7	29
50	Heritability of cortical thickness changes over time in twin pairs discordant for schizophrenia. <i>Schizophrenia Research</i> , 2016, 173, 192-199.	1.1	28
51	The YOUth study: Rationale, design, and study procedures. <i>Developmental Cognitive Neuroscience</i> , 2020, 46, 100868.	1.9	27
52	Changes in the intracranial volume from early adulthood to the sixth decade of life: A longitudinal study. <i>NeuroImage</i> , 2020, 220, 116842.	2.1	27
53	Genetic associations between intelligence and cortical thickness emerge at the start of puberty. <i>Human Brain Mapping</i> , 2014, 35, 3760-3773.	1.9	25
54	1q21.1 distal copy number variants are associated with cerebral and cognitive alterations in humans. <i>Translational Psychiatry</i> , 2021, 11, 182.	2.4	24

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55	The YOUth cohort study: MRI protocol and test-retest reliability in adults. <i>Developmental Cognitive Neuroscience</i> , 2020, 45, 100816.	1.9	23
56	Genetic Variation in Schizophrenia Liability is Shared With Intellectual Ability and Brain Structure. <i>Schizophrenia Bulletin</i> , 2016, 42, 1167-1175.	2.3	19
57	Heritability of specific cognitive functions and associations with schizophrenia spectrum disorders using CANTAB: a nation-wide twin study. <i>Psychological Medicine</i> , 2022, 52, 1101-1114.	2.7	18
58	Alcohol use and brain morphology in adolescence: A longitudinal study in three different cohorts. <i>European Journal of Neuroscience</i> , 2021, 54, 6012-6026.	1.2	16
59	Running in the Family? Structural Brain Abnormalities and IQ in Offspring, Siblings, Parents, and Co-twins of Patients with Schizophrenia. <i>Schizophrenia Bulletin</i> , 2019, 45, 1209-1217.	2.3	15
60	Intelligence, educational attainment, and brain structure in those at familial high risk for schizophrenia or bipolar disorder. <i>Human Brain Mapping</i> , 2022, 43, 414-430.	1.9	14
61	Understanding hallucinations in probable Alzheimer's disease: Very low prevalence rates in a tertiary memory clinic. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2018, 10, 358-362.	1.2	13
62	Contribution of genes and unique environment to cross-sectional and longitudinal measures of subcortical volumes in bipolar disorder. <i>European Neuropsychopharmacology</i> , 2015, 25, 2197-2209.	0.3	12
63	Topology of genetic associations between regional gray matter volume and intellectual ability: Evidence for a high capacity network. <i>NeuroImage</i> , 2016, 124, 1044-1053.	2.1	11
64	Deidentification procedures for magnetic resonance images and the impact on structural brain measures at different ages. <i>Human Brain Mapping</i> , 2021, 42, 3643-3655.	1.9	10
65	Reliability modelling of resting-state functional connectivity. <i>NeuroImage</i> , 2021, 231, 117842.	2.1	10
66	The association between hippocampal volume and life events in healthy twins. <i>Hippocampus</i> , 2016, 26, 1088-1095.	0.9	7
67	Detailed T1-Weighted Profiles from the Human Cortex Measured in Vivo at 3 Tesla MRI. <i>Neuroinformatics</i> , 2018, 16, 181-196.	1.5	7
68	Heritability of Memory Functions and Related Brain Volumes: A Schizophrenia Spectrum Study of 214 Twins. <i>Schizophrenia Bulletin Open</i> , 2020, 1, .	0.9	3
69	Multivariate Genetic Structure of Externalizing Behavior and Structural Brain Development in a Longitudinal Adolescent Twin Sample. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3176.	1.8	2
70	Schizophrenia and Bipolar Polygenic Risk Scores in Relation to Intracranial Volume. <i>Genes</i> , 2022, 13, 695.	1.0	1
71	Combining meta- and mega- analytic approaches for multi-site diffusion imaging based genetic studies: From the ENIGMA-DTI working group. , 2014, , .		0
72	Structural Methods in Gray Matter. , 2020, , 3-26.		0