Armin Raznahan

List of Publications by Year
in descending order

116 papers	9,929 citations	61984 43 h-index	48315 88 g-index
145 all docs	145 docs citations	145 times ranked	10588 citing authors

#	Article	IF	Citations
1	How Does Your Cortex Grow?. Journal of Neuroscience, 2011, 31, 7174-7177.	3.6	613
2	Development of the Cerebral Cortex across Adolescence: A Multisample Study of Inter-Related Longitudinal Changes in Cortical Volume, Surface Area, and Thickness. Journal of Neuroscience, 2017, 37, 3402-3412.	3.6	496
3	On testing for spatial correspondence between maps of human brain structure and function. NeuroImage, 2018, 178, 540-551.	4.2	441
4	Structural brain development between childhood and adulthood: Convergence across four longitudinal samples. NeuroImage, 2016, 141, 273-281.	4.2	427
5	The Convergence of Maturational Change and Structural Covariance in Human Cortical Networks. Journal of Neuroscience, 2013, 33, 2889-2899.	3.6	417
6	Performing label-fusion-based segmentation using multiple automatically generated templates. Human Brain Mapping, 2013, 34, 2635-2654.	3.6	311
7	Morphometric Similarity Networks Detect Microscale Cortical Organization and Predict Inter-Individual Cognitive Variation. Neuron, 2018, 97, 231-247.e7.	8.1	307
8	Development of structureâ€“function coupling in human brain networks during youth. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 771-778.	7.1	296
9	Patterns of Coordinated Anatomical Change in Human Cortical Development: A Longitudinal Neuroimaging Study of Maturational Coupling. Neuron, 2011, 72, 873-884.	8.1	286
10	Longitudinal four-dimensional mapping of subcortical anatomy in human development. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1592-1597.	7.1	278
11	Neurodevelopment of the association cortices: Patterns, mechanisms, and implications for psychopathology. Neuron, 2021, 109, 2820-2846.	8.1	272
12	Child Psychiatry Branch of the National Institute of Mental Health Longitudinal Structural Magnetic Resonance Imaging Study of Human Brain Development. Neuropsychopharmacology, 2015, 40, 43-49.	5.4	259
13	Longitudinally mapping the influence of sex and androgen signaling on the dynamics of human cortical maturation in adolescence. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16988-16993.	7.1	247
14	Review: magnetic resonance imaging of male/female differences in human adolescent brain anatomy. Biology of Sex Differences, 2012, 3, 19.	4.1	246
15	Sex differences in the developing brain: insights from multimodal neuroimaging. Neuropsychopharmacology, 2019, 44, 71-85.	5.4	227
16	Studying neuroanatomy using MRI. Nature Neuroscience, 2017, 20, 314-326.	14.8	220
17	Development of Cortical Asymmetry in Typically Developing Children and Its Disruption in Attention-Deficit/Hyperactivity Disorder. Archives of General Psychiatry, 2009, 66, 888.	12.3	205
18	Cortical patterning of abnormal morphometric similarity in psychosis is associated with brain expression of schizophrenia-related genes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9604-9609.	7.1	200

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19	Normative brain size variation and brain shape diversity in humans. Science, 2018, 360, 1222-1227.	12.6	194
20	Prenatal growth in humans and postnatal brain maturation into late adolescence. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11366-11371.	7.1	167
21	Individual Variation in Functional Topography of Association Networks in Youth. Neuron, 2020, 106, 340-353.e8.	8.1	162
22	Subtle in-scanner motion biases automated measurement of brain anatomy from in vivo MRI. Human Brain Mapping, 2016, 37, 2385-2397.	3.6	154
23	Cortical Anatomy in Autism Spectrum Disorder: An In Vivo MRI Study on the Effect of Age. Cerebral Cortex, 2010, 20, 1332-1340.	2.9	151
24	Large-scale analyses of the relationship between sex, age and intelligence quotient heterogeneity and cortical morphometry in autism spectrum disorder. Molecular Psychiatry, 2020, 25, 614-628.	7.9	141
25	Transcriptomic and cellular decoding of regional brain vulnerability to neurogenetic disorders. Nature Communications, 2020, 11, 3358.	12.8	141
26	Sex-chromosome dosage effects on gene expression in humans. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7398-7403.	7.1	139
27	Longitudinally Mapping Childhood Socioeconomic Status Associations with Cortical and Subcortical Morphology. Journal of Neuroscience, 2019, 39, 1365-1373.	3.6	127
28	DUF1220-Domain Copy Number Implicated in Human Brain-Size Pathology and Evolution. American Journal of Human Genetics, 2012, 91, 444-454.	6.2	113
29	Integrative structural, functional, and transcriptomic analyses of sex-biased brain organization in humans. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18788-18798.	7.1	113
30	Mapping the Development of the Basal Ganglia in Children With Attention-Deficit/Hyperactivity Disorder. Journal of the American Academy of Child and Adolescent Psychiatry, 2014, 53, 780-789.e11.	0.5	108
31	Compared to What? Early Brain Overgrowth in Autism and the Perils of Population Norms. Biological Psychiatry, 2013, 74, 563-575.	1.3	107
32	Topologically Dissociable Patterns of Development of the Human Cerebral Cortex. Journal of Neuroscience, 2015, 35, 599-609.	3.6	103
33	Disrupted sensorimotor and socialâ€“cognitive networks underlie symptoms in childhood-onset schizophrenia. Brain, 2016, 139, 276-291.	7.6	95
34	A framework for the investigation of rare genetic disorders in neuropsychiatry. Nature Medicine, 2019, 25, 1477-1487.	30.7	90
35	Globally Divergent but Locally Convergent X- and Y-Chromosome Influences on Cortical Development. Cerebral Cortex, 2016, 26, 70-79.	2.9	71
36	Striatal shape abnormalities as novel neurodevelopmental endophenotypes in schizophrenia: A longitudinal study. Human Brain Mapping, 2015, 36, 1458-1469.	3.6	65

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37	Allometric Analysis Detects Brain Size-Independent Effects of Sex and Sex Chromosome Complement on Human Cerebellar Organization. Journal of Neuroscience, 2017, 37, 5221-5231.	3.6	65
38	An Allometric Analysis of Sex and Sex Chromosome Dosage Effects on Subcortical Anatomy in Humans. Journal of Neuroscience, 2016, 36, 2438-2448.	3.6	64
39	Longitudinal stability of the folding pattern of the anterior cingulate cortex during development. Developmental Cognitive Neuroscience, 2016, 19, 122-127.	4.0	62
40	Distinct Cortical Correlates of Autistic versus Antisocial Traits in a Longitudinal Sample of Typically Developing Youth. Journal of Neuroscience, 2012, 32, 4856-4860.	3.6	61
41	Considering Sex as a Biological Variable in Basic and Clinical Studies: An Endocrine Society Scientific Statement. Endocrine Reviews, 2021, 42, 219-258.	20.1	61
42	Cortical anatomy in human X monosomy. NeuroImage, 2010, 49, 2915-2923.	4.2	59
43	Neuroanatomical phenotypes in mental illness: identifying convergent and divergent cortical phenotypes across autism, ADHD and schizophrenia. Journal of Psychiatry and Neuroscience, 2018, 43, 201-212.	2.4	59
44	Dissociations in Cortical Morphometry in Youth with Down Syndrome: Evidence for Reduced Surface Area but Increased Thickness. Cerebral Cortex, 2016, 26, 2982-2990.	2.9	56
45	Catechol-o-methyl transferase (COMT) val158met polymorphism and adolescent cortical development in patients with childhood-onset schizophrenia, their non-psychotic siblings, and healthy controls. NeuroImage, 2011, 57, 1517-1523.	4.2	45
46	The Dynamic Associations Between Cortical Thickness and General Intelligence are Genetically Mediated. Cerebral Cortex, 2019, 29, 4743-4752.	2.9	42
47	Development of Microstructural and Morphological Cortical Profiles in the Neonatal Brain. Cerebral Cortex, 2020, 30, 5767-5779.	2.9	42
48	Mapping cortical anatomy in preschool aged children with autism using surface-based morphometry. NeuroImage: Clinical, 2013, 2, 111-119.	2.7	41
49	Cortical thickness change in autism during early childhood. Human Brain Mapping, 2016, 37, 2616-2629.	3.6	41
50	Biological markers of intellectual disability in tuberous sclerosis. Psychological Medicine, 2007, 37, 1293-1304.	4.5	39
51	Common functional polymorphisms of DISC1 and cortical maturation in typically developing children and adolescents. Molecular Psychiatry, 2011, 16, 917-926.	7.9	39
52	A functional polymorphism of the brain derived neurotrophic factor gene and cortical anatomy in autism spectrum disorder. Journal of Neurodevelopmental Disorders, 2009, 1, 215-223.	3.1	37
53	Dissecting autism and schizophrenia through neuroimaging genomics. Brain, 2021, 144, 1943-1957.	7.6	37
54	Atlas of lesion locations and postsurgical seizure freedom in focal cortical dysplasia: A MELD study. Epilepsia, 2022, 63, 61-74.	5.1	36

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55	Autism Risk Gene <scp>MET</scp> Variation and Cortical Thickness in Typically Developing Children and Adolescents. Autism Research, 2012, 5, 434-439.	3.8	35
56	High resolution whole brain imaging of anatomical variation in XO, XX, and XY mice. NeuroImage, 2013, 83, 962-968.	4.2	35
57	Reciprocal Copy Number Variations at 22q11.2 Produce Distinct and Convergent Neurobehavioral Impairments Relevant for Schizophrenia and Autism Spectrum Disorder. Biological Psychiatry, 2020, 88, 260-272.	1.3	35
58	DUF1220 copy number is linearly associated with increased cognitive function as measured by total IQ and mathematical aptitude scores. Human Genetics, 2015, 134, 67-75.	3.8	34
59	In vivo epigenetic editing of Sema6a promoter reverses transcallosal dysconnectivity caused by C11orf46/Arl14ep risk gene. Nature Communications, 2019, 10, 4112.	12.8	34
60	X-chromosome regulation and sex differences in brain anatomy. Neuroscience and Biobehavioral Reviews, 2021, 120, 28-47.	6.1	32
61	Influences of Brain Size, Sex, and Sex Chromosome Complement on the Architecture of Human Cortical Folding. Cerebral Cortex, 2016, 27, 5557-5567.	2.9	31
62	A Comprehensive Quantitative Genetic Analysis of Cerebral Surface Area in Youth. Journal of Neuroscience, 2019, 39, 3028-3040.	3.6	30
63	Sex-biased trajectories of amygdalo-hippocampal morphology change over human development. NeuroImage, 2020, 204, 116122.	4.2	28
64	Anatomical coupling among distributed cortical regions in youth varies as a function of individual differences in vocabulary abilities. Human Brain Mapping, 2014, 35, 1885-1895.	3.6	26
65	X-chromosome influences on neuroanatomical variation in humans. Nature Neuroscience, 2021, 24, 1216-1224.	14.8	26
66	Mapping the Stability of Human Brain Asymmetry across Five Sex-Chromosome Aneuploidies. Journal of Neuroscience, 2015, 35, 140-145.	3.6	25
67	Sulcal Polymorphisms of the IFC and ACC Contribute to Inhibitory Control Variability in Children and Adults. ENeuro, 2018, 5, ENEURO.0197-17.2018.	1.9	25
68	Imaging local genetic influences on cortical folding. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7430-7436.	7.1	24
69	Comparing Copy Number Variations in a Danish Case Cohort of Individuals With Psychiatric Disorders. JAMA Psychiatry, 2022, 79, 59.	11.0	24
70	Subject-level measurement of local cortical coupling. NeuroImage, 2016, 133, 88-97.	4.2	23
71	Characterization of autism spectrum disorder and neurodevelopmental profiles in youth with XYY syndrome. Journal of Neurodevelopmental Disorders, 2018, 10, 30.	3.1	23
72	Morphological integration of the human brain across adolescence and adulthood. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	23

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73	Developmental coupling of cerebral blood flow and fMRI fluctuations in youth. Cell Reports, 2022, 38, 110576.	6.4	23
74	Trail making test performance in youth varies as a function of anatomical coupling between the prefrontal cortex and distributed cortical regions. Frontiers in Psychology, 2014, 5, 496.	2.1	22
75	Attenuated resting-state functional connectivity in patients with childhood- and adult-onset schizophrenia. Schizophrenia Research, 2018, 197, 219-225.	2.0	22
76	The genetics of cortical myelination in young adults and its relationships to cerebral surface area, cortical thickness, and intelligence: A magnetic resonance imaging study of twins and families. NeuroImage, 2020, 206, 116319.	4.2	22
77	Triangulating the sexually dimorphic brain through high-resolution neuroimaging of murine sex chromosome aneuploidies. Brain Structure and Function, 2015, 220, 3581-3593.	2.3	21
78	The Heritability of Cortical Folding: Evidence from the Human Connectome Project. Cerebral Cortex, 2021, 31, 702-715.	2.9	20
79	Carriage of Supernumerary Sex Chromosomes Decreases the Volume and Alters the Shape of Limbic Structures. ENeuro, 2018, 5, ENEURO.0265-18.2018.	1.9	20
80	Serotonin transporter genotype and neuroanatomy in autism spectrum disorders. Psychiatric Genetics, 2009, 19, 147-150.	1.1	19
81	A Strategy of â€œCombination Chemotherapyâ€•in Alzheimer's Disease: Rationale and Preliminary Results with Physostigmine plus Deprenyl. International Psychogeriatrics, 1992, 4, 291-309.	1.0	18
82	Are dopamine antagonists a risk factor for breast cancer? An answer from Parkinson's disease. Breast, 2003, 12, 280-282.	2.2	18
83	Spatial gene expression analysis of neuroanatomical differences in mouse models. NeuroImage, 2017, 163, 220-230.	4.2	18
84	Effects of human sex chromosome dosage on spatial chromosome organization. Molecular Biology of the Cell, 2018, 29, 2458-2469.	2.1	17
85	Towards Deciphering the Fetal Foundation of Normal Cognition and Cognitive Symptoms From Sulcation of the Cortex. Frontiers in Neuroanatomy, 2021, 15, 712862.	1.7	17
86	A simple permutationâ€based test of intermodal correspondence. Human Brain Mapping, 2021, 42, 5175-5187.	3.6	16
87	Examining the Boundary Sharpness Coefficient as an Index of Cortical Microstructure in Autism Spectrum Disorder. Cerebral Cortex, 2021, 31, 3338-3352.	2.9	14
88	Divergence of Age-Related Differences in Social-Communication: Improvements for Typically Developing Youth but Declines for Youth with Autism Spectrum Disorder. Journal of Autism and Developmental Disorders, 2017, 47, 472-479.	2.7	13
89	HiCTMap: Detection and analysis of chromosome territory structure and position by high-throughput imaging. Methods, 2018, 142, 30-38.	3.8	12
90	Convergence and Divergence of Rare Genetic Disorders on Brain Phenotypes. JAMA Psychiatry, 2022, 79, 818.	11.0	12

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91	Allelic Variation Within the Putative Autism Spectrum Disorder Risk Gene <scp>H</scp>omeobox <scp>A</scp>1 and Cerebellar Maturation in Typically Developing Children and Adolescents. Autism Research, 2012, 5, 93-100.	3.8	11
92	Sex chromosome aneuploidy alters the relationship between neuroanatomy and cognition. American Journal of Medical Genetics, Part C: Seminars in Medical Genetics, 2020, 184, 493-505.	1.6	10
93	The Genetic Contributions to Maturational Coupling in the Human Cerebrum: A Longitudinal Pediatric Twin Imaging Study. Cerebral Cortex, 2018, 28, 3184-3191.	2.9	9
94	Genetics-First Approaches in Biological Psychiatry. Biological Psychiatry, 2018, 84, 234-235.	1.3	8
95	Altered Sex Chromosome Dosage Induces Coordinated Shifts in Cortical Anatomy and Anatomical Covariance. Cerebral Cortex, 2020, 30, 2215-2228.	2.9	7
96	Improved corpus callosum area measurements by analysis of adjoining parasagittal slices. Psychiatry Research - Neuroimaging, 2013, 211, 221-225.	1.8	6
97	Autism spectrum disorder in childhood. Medicine, 2008, 36, 489-492.	0.4	5
98	Regional White Matter Scaling in the Human Brain. Journal of Neuroscience, 2021, 41, 7015-7028.	3.6	5
99	Variegation of autism related traits across seven neurogenetic disorders. Translational Psychiatry, 2022, 12, 149.	4.8	5
100	Patterns of psychopathology and cognition in sex chromosome aneuploidy. Journal of Neurodevelopmental Disorders, 2021, 13, 61.	3.1	5
101	Phonemic and Semantic Verbal Fluency in Sex Chromosome Aneuploidy: Contrasting the Effects of Supernumerary X versus Y Chromosomes on Performance. Journal of the International Neuropsychological Society, 2018, 24, 917-927.	1.8	4
102	Resting-State Functional Connectivity and Psychopathology in Klinefelter Syndrome (47, XXY). Cerebral Cortex, 2021, 31, 4180-4190.	2.9	4
103	Sex Chromosome Dosage Effects on White Matter Structure in the Human Brain. Cerebral Cortex, 2021, 31, 5339-5353.	2.9	4
104	Voxelâ€wise intermodal coupling analysis of two or more modalities using local covariance decomposition. Human Brain Mapping, 2022, 43, 4650-4663.	3.6	4
105	Sizing Up the Search for Autism Spectrum Disorder (ASD) Risk Markers During Prenatal and Early Postnatal Life. Journal of the American Academy of Child and Adolescent Psychiatry, 2014, 53, 1045-1047.	0.5	3
106	Greater cortical thickness in individuals with ASD. Molecular Psychiatry, 2020, 25, 507-508.	7.9	3
107	Modeling familial predictors of proband outcomes in neurogenetic disorders: initial application in XYY syndrome. Journal of Neurodevelopmental Disorders, 2021, 13, 12.	3.1	3
108	The architecture of co-morbidity networks of physical and mental health conditions in military veterans. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20190790.	2.1	3

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109	IQ Modulates Coupling Between Diverse Dimensions of Psychopathology in Children and Adolescents. Journal of the American Academy of Child and Adolescent Psychiatry, 2023, 62, 59-73.	0.5	3
110	Structural Brain Magnetic Resonance Imaging of Typically Developing Children and Adolescents. , 0, , 23-40.		2
111	Editorial: Do Different Neurogenetic Disorders Impart Different Profiles of Psychiatric Risk?. Journal of the American Academy of Child and Adolescent Psychiatry, 2020, 59, 1022-1024.	0.5	2
112	Sex-specific associations between subcortical morphometry in childhood and adult alcohol consumption: A 17-year follow-up study. NeuroImage: Clinical, 2021, 31, 102771.	2.7	2
113	Reply to Segal: Are relationships between birth weight and intelligence quotient variation within twin pairs modulated by patterns of handedness discordance?. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3294-E3294.	7.1	1
114	A local group differences test for subject-level multivariate density neuroimaging outcomes. Biostatistics, 2021, 22, 646-661.	1.5	1
115	Neurostructural Endophenotypes In Autism Spectrum Disorder. , 2009, , 145-169.		1
116	Characterization of mice bearing humanized androgen receptor genes (h/mAr) varying in polymorphism length. NeuroImage, 2021, 226, 117594.	4.2	0