

Roberto Toro

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115
papers

11,125
citations

41
h-index

105
g-index

138
ext. papers

13,779
ext. citations

8.8
avg, IF

5.55
L-index

#	Paper	IF	Citations
115	Correspondence of the brain's functional architecture during activation and rest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 13040-5	11.5	3661
114	Common genetic variants influence human subcortical brain structures. <i>Nature</i> , 2015 , 520, 224-9	50.4	601
113	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. <i>Brain Imaging and Behavior</i> , 2014 , 8, 153-82	4.1	539
112	Identification of common variants associated with human hippocampal and intracranial volumes. <i>Nature Genetics</i> , 2012 , 44, 552-61	36.3	498
111	Autistic-like behaviours and hyperactivity in mice lacking ProSAP1/Shank2. <i>Nature</i> , 2012 , 486, 256-60	50.4	440
110	Meta-analysis of SHANK Mutations in Autism Spectrum Disorders: a gradient of severity in cognitive impairments. <i>PLoS Genetics</i> , 2014 , 10, e1004580	6	340
109	Functional coactivation map of the human brain. <i>Cerebral Cortex</i> , 2008 , 18, 2553-9	5.1	320
108	Genetic and functional analyses of SHANK2 mutations suggest a multiple hit model of autism spectrum disorders. <i>PLoS Genetics</i> , 2012 , 8, e1002521	6	297
107	A convergent functional architecture of the insula emerges across imaging modalities. <i>NeuroImage</i> , 2012 , 61, 1129-42	7.9	282
106	Key role for gene dosage and synaptic homeostasis in autism spectrum disorders. <i>Trends in Genetics</i> , 2010 , 26, 363-72	8.5	252
105	A morphogenetic model for the development of cortical convolutions. <i>Cerebral Cortex</i> , 2005 , 15, 1900-13	3.1	238
104	Enhancing studies of the connectome in autism using the autism brain imaging data exchange II. <i>Scientific Data</i> , 2017 , 4, 170010	8.2	224
103	Novel genetic loci associated with hippocampal volume. <i>Nature Communications</i> , 2017 , 8, 13624	17.4	173
102	Brain size and folding of the human cerebral cortex. <i>Cerebral Cortex</i> , 2008 , 18, 2352-7	5.1	172
101	Novel genetic loci underlying human intracranial volume identified through genome-wide association. <i>Nature Neuroscience</i> , 2016 , 19, 1569-1582	25.5	147
100	ENIGMA and the individual: Predicting factors that affect the brain in 35 countries worldwide. <i>NeuroImage</i> , 2017 , 145, 389-408	7.9	142
99	Progress toward treatments for synaptic defects in autism. <i>Nature Medicine</i> , 2013 , 19, 685-94	50.5	141

98	Cortical anatomy in autism spectrum disorder: an in vivo MRI study on the effect of age. <i>Cerebral Cortex</i> , 2010 , 20, 1332-40	5.1	131
97	Cortical gray matter in attention-deficit/hyperactivity disorder: a structural magnetic resonance imaging study. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2010 , 49, 229-38	7.2	107
96	Prenatal exposure to maternal cigarette smoking and the adolescent cerebral cortex. <i>Neuropsychopharmacology</i> , 2008 , 33, 1019-27	8.7	107
95	The EU-AIMS Longitudinal European Autism Project (LEAP): design and methodologies to identify and validate stratification biomarkers for autism spectrum disorders. <i>Molecular Autism</i> , 2017 , 8, 24	6.5	106
94	Genes, maternal smoking, and the offspring brain and body during adolescence: design of the Saguenay Youth Study. <i>Human Brain Mapping</i> , 2007 , 28, 502-18	5.9	103
93	Human subcortical brain asymmetries in 15,847 people worldwide reveal effects of age and sex. <i>Brain Imaging and Behavior</i> , 2017 , 11, 1497-1514	4.1	87
92	Orbitofrontal cortex and drug use during adolescence: role of prenatal exposure to maternal smoking and BDNF genotype. <i>Archives of General Psychiatry</i> , 2009 , 66, 1244-52		81
91	Genetic architecture of subcortical brain structures in 38,851 individuals. <i>Nature Genetics</i> , 2019 , 51, 1624-1636	4.6	81
90	Accurate anisotropic fast marching for diffusion-based geodesic tractography. <i>International Journal of Biomedical Imaging</i> , 2008 , 2008, 320195	5.2	79
89	Neuroanatomical Diversity of Corpus Callosum and Brain Volume in Autism: Meta-analysis, Analysis of the Autism Brain Imaging Data Exchange Project, and Simulation. <i>Biological Psychiatry</i> , 2015 , 78, 126-34	7.9	78
88	The EU-AIMS Longitudinal European Autism Project (LEAP): clinical characterisation. <i>Molecular Autism</i> , 2017 , 8, 27	6.5	69
87	Introduction to the 2015 Brainhack Proceedings. <i>GigaScience</i> , 2016 , 5, 1-26	7.6	68
86	Neural mechanisms of resistance to peer influence in early adolescence. <i>Journal of Neuroscience</i> , 2007 , 27, 8040-5	6.6	66
85	Genome-wide meta-analysis of cognitive empathy: heritability, and correlates with sex, neuropsychiatric conditions and cognition. <i>Molecular Psychiatry</i> , 2018 , 23, 1402-1409	15.1	62
84	Could Sex Differences in White Matter be Explained by g ratio?. <i>Frontiers in Neuroanatomy</i> , 2009 , 3, 14	3.6	60
83	Genome-wide analyses of self-reported empathy: correlations with autism, schizophrenia, and anorexia nervosa. <i>Translational Psychiatry</i> , 2018 , 8, 35	8.6	55
82	Accelerating the Evolution of Nonhuman Primate Neuroimaging. <i>Neuron</i> , 2020 , 105, 600-603	13.9	51
81	Larger is twistier: spectral analysis of gyrification (SPANGY) applied to adult brain size polymorphism. <i>NeuroImage</i> , 2012 , 63, 1257-72	7.9	49

80	Breastfeeding and brain structure in adolescence. <i>International Journal of Epidemiology</i> , 2013 , 42, 150-9	7.8	49
79	Brain volumes and Val66Met polymorphism of the BDNF gene: local or global effects?. <i>Brain Structure and Function</i> , 2009 , 213, 501-9	4	48
78	Measuring and Estimating the Effect Sizes of Copy Number Variants on General Intelligence in Community-Based Samples. <i>JAMA Psychiatry</i> , 2018 , 75, 447-457	14.5	47
77	Genetic variations of the melatonin pathway in patients with attention-deficit and hyperactivity disorders. <i>Journal of Pineal Research</i> , 2011 , 51, 394-9	10.4	47
76	The Roots of Autism and ADHD Twin Study in Sweden (RATSS). <i>Twin Research and Human Genetics</i> , 2014 , 17, 164-76	2.2	46
75	Altered Connectivity Between Cerebellum, Visual, and Sensory-Motor Networks in Autism Spectrum Disorder: Results from the EU-AIMS Longitudinal European Autism Project. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019 , 4, 260-270	3.4	43
74	Geometric atlas: modeling the cortex as an organized surface. <i>NeuroImage</i> , 2003 , 20, 1468-84	7.9	41
73	Single nucleotide polymorphism in the neuroplastin locus associates with cortical thickness and intellectual ability in adolescents. <i>Molecular Psychiatry</i> , 2015 , 20, 263-74	15.1	40
72	Genomic architecture of human neuroanatomical diversity. <i>Molecular Psychiatry</i> , 2015 , 20, 1011-6	15.1	39
71	Morphological properties of the action-observation cortical network in adolescents with low and high resistance to peer influence. <i>Social Neuroscience</i> , 2008 , 3, 303-16	2	39
70	Investigating the factors underlying adaptive functioning in autism in the EU-AIMS Longitudinal European Autism Project. <i>Autism Research</i> , 2019 , 12, 645-657	5.1	35
69	Cerebellar Volume in Autism: Literature Meta-analysis and Analysis of the Autism Brain Imaging Data Exchange Cohort. <i>Biological Psychiatry</i> , 2018 , 83, 579-588	7.9	33
68	Sex differences in brain structure: a twin study on restricted and repetitive behaviors in twin pairs with and without autism. <i>Molecular Autism</i> , 2020 , 11, 1	6.5	33
67	A framework to identify contributing genes in patients with Phelan-McDermid syndrome. <i>Npj Genomic Medicine</i> , 2017 , 2, 32	6.2	32
66	Social and non-social autism symptoms and trait domains are genetically dissociable. <i>Communications Biology</i> , 2019 , 2, 328	6.7	30
65	On the Possible Shapes of the Brain. <i>Evolutionary Biology</i> , 2012 , 39, 600-612	3	30
64	KCTD8 gene and brain growth in adverse intrauterine environment: a genome-wide association study. <i>Cerebral Cortex</i> , 2012 , 22, 2634-42	5.1	29
63	Evolution of neocortical folding: A phylogenetic comparative analysis of MRI from 34 primate species. <i>Cortex</i> , 2019 , 118, 275-291	3.8	27

62	Incomplete Hippocampal Inversion: A Comprehensive MRI Study of Over 2000 Subjects. <i>Frontiers in Neuroanatomy</i> , 2015 , 9, 160	3.6	27
61	Simplified gyral pattern in severe developmental microcephalies? New insights from allometric modeling for spatial and spectral analysis of gyrification. <i>NeuroImage</i> , 2014 , 102 Pt 2, 317-31	7.9	25
60	A functional polymorphism of the brain derived neurotrophic factor gene and cortical anatomy in autism spectrum disorder. <i>Journal of Neurodevelopmental Disorders</i> , 2009 , 1, 215-23	4.6	25
59	Brainhack: a collaborative workshop for the open neuroscience community. <i>GigaScience</i> , 2016 , 5, 16	7.6	23
58	Resting state networks' corticotopy: the dual intertwined rings architecture. <i>PLoS ONE</i> , 2013 , 8, e67444	3.7	23
57	Variations of the candidate SEZ6L2 gene on Chromosome 16p11.2 in patients with autism spectrum disorders and in human populations. <i>PLoS ONE</i> , 2011 , 6, e17289	3.7	22
56	Sex Differences Along the Autism Continuum: A Twin Study of Brain Structure. <i>Cerebral Cortex</i> , 2019 , 29, 1342-1350	5.1	22
55	Cortical Gray Matter in Attention-Deficit/Hyperactivity Disorder. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2010 , 49, 229-238	7.2	19
54	Comparison between diffusion MRI tractography and histological tract-tracing of cortico-cortical structural connectivity in the ferret brain. <i>Network Neuroscience</i> , 2019 , 3, 1038-1050	5.6	17
53	CAMK2A polymorphisms predict working memory performance in humans. <i>Molecular Psychiatry</i> , 2013 , 18, 850-2	15.1	17
52	Mechanical morphogenesis and the development of neocortical organisation. <i>Cortex</i> , 2019 , 118, 315-326	3.8	17
51	Prenatal exposure to maternal cigarette smoking interacts with a polymorphism in the alpha6 nicotinic acetylcholine receptor gene to influence drug use and striatum volume in adolescence. <i>Molecular Psychiatry</i> , 2010 , 15, 6-8	15.1	16
50	Alpha Waves as a Neuromarker of Autism Spectrum Disorder: The Challenge of Reproducibility and Heterogeneity. <i>Frontiers in Neuroscience</i> , 2018 , 12, 662	5.1	16
49	Global genetic variations predict brain response to faces. <i>PLoS Genetics</i> , 2014 , 10, e1004523	6	15
48	Brain charts for the human lifespan.. <i>Nature</i> , 2022 ,	50.4	15
47	Role of mechanical morphogenesis in the development and evolution of the neocortex. <i>Physics of Life Reviews</i> , 2019 , 31, 233-239	2.1	14
46	11q24.2-25 micro-rearrangements in autism spectrum disorders: Relation to brain structures. <i>American Journal of Medical Genetics, Part A</i> , 2015 , 167A, 3019-30	2.5	14
45	Atypical Brain Asymmetry in Autism-A Candidate for Clinically Meaningful Stratification. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021 , 6, 802-812	3.4	14

44	A collaborative resource platform for non-human primate neuroimaging. <i>NeuroImage</i> , 2021 , 226, 117519-9	7.9	14
43	Associations of the Intellectual Disability Gene MYT1L with Helix-Loop-Helix Gene Expression, Hippocampus Volume and Hippocampus Activation During Memory Retrieval. <i>Neuropsychopharmacology</i> , 2017 , 42, 2516-2526	8.7	12
42	Morning Plasma Melatonin Differences in Autism: Beyond the Impact of Pineal Gland Volume. <i>Frontiers in Psychiatry</i> , 2019 , 10, 11	5	12
41	Open Neuroimaging Laboratory. <i>Research Ideas and Outcomes</i> , 2, e9113	2.5	12
40	Temporal Profiles of Social Attention Are Different Across Development in Autistic and Neurotypical People. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021 , 6, 813-824	3.4	10
39	Imaging evolution of the primate brain: the next frontier?. <i>NeuroImage</i> , 2021 , 228, 117685	7.9	10
38	Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. <i>Neuron</i> , 2021 , 109, 1769-1775	13.9	10
37	Brain charts for the human lifespan		8
36	Polygenic Architecture of Human Neuroanatomical Diversity. <i>Cerebral Cortex</i> , 2020 , 30, 2307-2320	5.1	7
35	Dissecting the phenotypic heterogeneity in sensory features in autism spectrum disorder: a factor mixture modelling approach. <i>Molecular Autism</i> , 2020 , 11, 67	6.5	7
34	Neuroanatomical norms in the UK Biobank: The impact of allometric scaling, sex, and age. <i>Human Brain Mapping</i> , 2021 , 42, 4623-4642	5.9	7
33	The social brain in female autism: a structural imaging study of twins. <i>Social Cognitive and Affective Neuroscience</i> , 2020 , 15, 423-436	4	6
32	Genome wide association study of incomplete hippocampal inversion in adolescents. <i>PLoS ONE</i> , 2020 , 15, e0227355	3.7	6
31	Fast surface-based measurements using first eigenfunction of the Laplace-Beltrami Operator: Interest for sulcal description 2012 ,		5
30	Genetic Architecture of Subcortical Brain Structures in Over 40,000 Individuals Worldwide		5
29	Adjusting for allometric scaling in ABIDE I challenges subcortical volume differences in autism spectrum disorder. <i>Human Brain Mapping</i> , 2020 , 41, 4610-4629	5.9	5
28	Genome-wide analyses of self-reported empathy: correlations with autism, schizophrenia, and anorexia nervosa		4
27	Statistical Shape Analysis of Large Datasets Based on Diffeomorphic Iterative Centroids. <i>Frontiers in Neuroscience</i> , 2018 , 12, 803	5.1	4

26	Centering inclusivity in the design of online conferences-An OHBM-Open Science perspective. <i>GigaScience</i> , 2021 , 10,	7.6	4
25	Distributed collaboration: the case for the enhancement of Brainspell interface. <i>GigaScience</i> , 2016 , 5,	7.6	3
24	Improving heritability estimation by a variable selection approach in sparse high dimensional linear mixed models. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2018 , 67, 813-839	1.5	3
23	The meaning of significant mean group differences for biomarker discovery. <i>PLoS Computational Biology</i> , 2021 , 17, e1009477	5	3
22	Genome-wide meta-analysis of cognitive empathy: heritability, and correlates with sex, neuropsychiatric conditions and brain anatomy		3
21	Sex differences in brain structure: An autism twin study on restricted and repetitive behaviors		3
20	Polygenic architecture of human neuroanatomical diversity		3
19	Centering inclusivity in the design of online conferences		3
18	Neuroanatomy of dyslexia: An allometric approach. <i>European Journal of Neuroscience</i> , 2020 , 52, 3595-3609		2
17	Neuroanatomical diversity of corpus callosum and brain volume in the Autism Brain Imaging Data Exchange (Abide) project 2014 ,		2
16	Phelan-McDermid syndrome: a classification system after 30 years of experience.. <i>Orphanet Journal of Rare Diseases</i> , 2022 , 17, 27	4.2	2
15	Evolution of neocortical folding: A phylogenetic comparative analysis of MRI from 34 primate species		2
14	Mechanical morphogenesis and the development of neocortical organisation		2
13	Sex differences in the brain are not reduced to differences in body size. <i>Neuroscience and Biobehavioral Reviews</i> , 2021 , 130, 509-511	9	2
12	Toward next-generation primate neuroscience: A collaboration-based strategic plan for integrative neuroimaging. <i>Neuron</i> , 2021 ,	13.9	1
11	Statistical shape analysis of large datasets based on diffeomorphic iterative centroids		1
10	Social and non-social autism symptom and trait domains are genetically dissociable		1
9	Towards a gene-level map of resilience to genetic variants associated with autism		1

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| 8 | Insights from an autism imaging biomarker challenge: promises and threats to biomarker discovery.. <i>NeuroImage</i> , 2022 , 119171 | 7.9 | 1 |
| 7 | Comparing Brain Asymmetries Independently of Brain Size.. <i>NeuroImage</i> , 2022 , 119118 | 7.9 | 0 |
| 6 | Preference for biological motion is reduced in ASD: implications for clinical trials and the search for biomarkers.. <i>Molecular Autism</i> , 2021 , 12, 74 | 6.5 | 0 |
| 5 | Resting state EEG power spectrum and functional connectivity in autism: a cross-sectional analysis.. <i>Molecular Autism</i> , 2022 , 13, 22 | 6.5 | 0 |
| 4 | Neuropsychiatry 2015 , 1049-1060 | | |
| 3 | Positive youth development and age-related changes in cortical thickness during adolescence 2011 , 61-76 | | |
| 2 | Reorient: A Web tool for reorienting and cropping MRI data.. <i>Journal of Open Source Software</i> , 2020 , 5, 2670 | 5.2 | |
| 1 | Dans le cerveau des autistes 2018 , N°105, 54-58 | | |