

Roberto Toro

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

15,615
citations

47006

47
h-index

33894

99
g-index

138
all docs

138
docs citations

138
times ranked

20510
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward next-generation primate neuroscience: A collaboration-based strategic plan for integrative neuroimaging. <i>Neuron</i> , 2022, 110, 16-20.	8.1	22
2	Phelan-McDermid syndrome: a classification system after 30 years of experience. <i>Orphanet Journal of Rare Diseases</i> , 2022, 17, 27.	2.7	32
3	Brain charts for the human lifespan. <i>Nature</i> , 2022, 604, 525-533.	27.8	518
4	Comparing brain asymmetries independently of brain size. <i>NeuroImage</i> , 2022, 254, 119118.	4.2	11
5	Insights from an autism imaging biomarker challenge: Promises and threats to biomarker discovery. <i>NeuroImage</i> , 2022, 255, 119171.	4.2	24
6	Resting state EEG power spectrum and functional connectivity in autism: a cross-sectional analysis. <i>Molecular Autism</i> , 2022, 13, 22.	4.9	20
7	Atypical Brain Asymmetry in Autism – A Candidate for Clinically Meaningful Stratification. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 802-812.	1.5	36
8	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.	1.5	21
9	A collaborative resource platform for non-human primate neuroimaging. <i>NeuroImage</i> , 2021, 226, 117519.	4.2	36
10	Imaging evolution of the primate brain: the next frontier?. <i>NeuroImage</i> , 2021, 228, 117685.	4.2	43
11	Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. <i>Neuron</i> , 2021, 109, 1769-1775.	8.1	27
12	Neuroanatomical norms in the UK Biobank: The impact of allometric scaling, sex, and age. <i>Human Brain Mapping</i> , 2021, 42, 4623-4642.	3.6	37
13	Centering inclusivity in the design of online conferences – An OHBM – Open Science perspective. <i>GigaScience</i> , 2021, 10, .	6.4	14
14	Sex differences in the brain are not reduced to differences in body size. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 130, 509-511.	6.1	24
15	The meaning of significant mean group differences for biomarker discovery. <i>PLoS Computational Biology</i> , 2021, 17, e1009477.	3.2	26
16	Preference for biological motion is reduced in ASD: implications for clinical trials and the search for biomarkers. <i>Molecular Autism</i> , 2021, 12, 74.	4.9	10
17	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.	4.9	93
18	Dissecting the phenotypic heterogeneity in sensory features in autism spectrum disorder: a factor mixture modelling approach. <i>Molecular Autism</i> , 2020, 11, 67.	4.9	32

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19	Adjusting for allometric scaling in <scp>ABIDE</scp> I challenges subcortical volume differences in autism spectrum disorder. <i>Human Brain Mapping</i> , 2020, 41, 4610-4629.	3.6	8
20	The social brain in female autism: a structural imaging study of twins. <i>Social Cognitive and Affective Neuroscience</i> , 2020, 15, 423-436.	3.0	15
21	Accelerating the Evolution of Nonhuman Primate Neuroimaging. <i>Neuron</i> , 2020, 105, 600-603.	8.1	92
22	Polygenic Architecture of Human Neuroanatomical Diversity. <i>Cerebral Cortex</i> , 2020, 30, 2307-2320.	2.9	16
23	Neuroanatomy of dyslexia: An allometric approach. <i>European Journal of Neuroscience</i> , 2020, 52, 3595-3609.	2.6	5
24	Genome wide association study of incomplete hippocampal inversion in adolescents. <i>PLoS ONE</i> , 2020, 15, e0227355.	2.5	8
25	Reorient: A Web tool for reorienting and cropping MRI data.. <i>Journal of Open Source Software</i> , 2020, 5, 2670.	4.6	0
26	Social and non-social autism symptoms and trait domains are genetically dissociable. <i>Communications Biology</i> , 2019, 2, 328.	4.4	57
27	Role of mechanical morphogenesis in the development and evolution of the neocortex. <i>Physics of Life Reviews</i> , 2019, 31, 233-239.	2.8	30
28	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.	2.6	36
29	Evolution of neocortical folding: A phylogenetic comparative analysis of MRI from 34 primate species. <i>Cortex</i> , 2019, 118, 275-291.	2.4	54
30	Morning Plasma Melatonin Differences in Autism: Beyond the Impact of Pineal Gland Volume. <i>Frontiers in Psychiatry</i> , 2019, 10, 11.	2.6	21
31	Investigating the factors underlying adaptive functioning in autism in the EU-AIMS Longitudinal European Autism Project. <i>Autism Research</i> , 2019, 12, 645-657.	3.8	87
32	Genetic architecture of subcortical brain structures in 38,851 individuals. <i>Nature Genetics</i> , 2019, 51, 1624-1636.	21.4	192
33	Sex Differences Along the Autism Continuum: A Twin Study of Brain Structure. <i>Cerebral Cortex</i> , 2019, 29, 1342-1350.	2.9	34
34	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.	1.5	82
35	Mechanical morphogenesis and the development of neocortical organisation. <i>Cortex</i> , 2019, 118, 315-326.	2.4	30
36	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.	1.0	4

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37	Measuring and Estimating the Effect Sizes of Copy Number Variants on General Intelligence in Community-Based Samples. <i>JAMA Psychiatry</i> , 2018, 75, 447.	11.0	77
38	Genome-wide analyses of self-reported empathy: correlations with autism, schizophrenia, and anorexia nervosa. <i>Translational Psychiatry</i> , 2018, 8, 35.	4.8	95
39	Genome-wide meta-analysis of cognitive empathy: heritability, and correlates with sex, neuropsychiatric conditions and cognition. <i>Molecular Psychiatry</i> , 2018, 23, 1402-1409.	7.9	102
40	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.	1.3	59
41	Statistical Shape Analysis of Large Datasets Based on Diffeomorphic Iterative Centroids. <i>Frontiers in Neuroscience</i> , 2018, 12, 803.	2.8	5
42	Alpha Waves as a Neuromarker of Autism Spectrum Disorder: The Challenge of Reproducibility and Heterogeneity. <i>Frontiers in Neuroscience</i> , 2018, 12, 662.	2.8	37
43	Dans le cerveau des autistes. , 2018, N° 105, 54-58.		0
44	ENIGMA and the individual: Predicting factors that affect the brain in 35 countries worldwide. <i>NeuroImage</i> , 2017, 145, 389-408.	4.2	173
45	Novel genetic loci associated with hippocampal volume. <i>Nature Communications</i> , 2017, 8, 13624.	12.8	250
46	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.	5.4	20
47	Typical cerebellar allometry is disturbed in Fetal Alcohol Spectrum Disorders: Toward new MRI neuroanatomic markers. <i>European Journal of Paediatric Neurology</i> , 2017, 21, e11.	1.6	0
48	Enhancing studies of the connectome in autism using the autism brain imaging data exchange II. <i>Scientific Data</i> , 2017, 4, 170010.	5.3	422
49	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.	4.9	183
50	The EU-AIMS Longitudinal European Autism Project (LEAP): clinical characterisation. <i>Molecular Autism</i> , 2017, 8, 27.	4.9	126
51	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.	2.1	144
52	A framework to identify contributing genes in patients with Phelan-McDermid syndrome. <i>Npj Genomic Medicine</i> , 2017, 2, 32.	3.8	58
53	Distributed collaboration: the case for the enhancement of BrainSpell™s interface. <i>GigaScience</i> , 2016, 5, .	6.4	3
54	Novel genetic loci underlying human intracranial volume identified through genome-wide association. <i>Nature Neuroscience</i> , 2016, 19, 1569-1582.	14.8	213

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55	2015 Brainhack Proceedings. GigaScience, 2016, 5, 1-26.	6.4	72
56	Brainhack: a collaborative workshop for the open neuroscience community. GigaScience, 2016, 5, 16.	6.4	34
57	11q24.2 microdeletions and rearrangements in autism spectrum disorders: Relation to brain structures. American Journal of Medical Genetics, Part A, 2015, 167, 3019-3030.	1.2	25
58	Incomplete Hippocampal Inversion: A Comprehensive MRI Study of Over 2000 Subjects. Frontiers in Neuroanatomy, 2015, 9, 160.	1.7	47
59	Common genetic variants influence human subcortical brain structures. Nature, 2015, 520, 224-229.	27.8	772
60	Neuropsychiatry. , 2015, , 1049-1060.		0
61	Neuroanatomical Diversity of Corpus Callosum and Brain Volume in Autism: Meta-analysis, Analysis of the Autism Brain Imaging Data Exchange Project, and Simulation. Biological Psychiatry, 2015, 78, 126-134.	1.3	108
62	Single nucleotide polymorphism in the neuroplastin locus associates with cortical thickness and intellectual ability in adolescents. Molecular Psychiatry, 2015, 20, 263-274.	7.9	57
63	Genomic architecture of human neuroanatomical diversity. Molecular Psychiatry, 2015, 20, 1011-1016.	7.9	50
64	The Roots of Autism and ADHD Twin Study in Sweden (RATSS). Twin Research and Human Genetics, 2014, 17, 164-176.	0.6	62
65	Meta-analysis of SHANK Mutations in Autism Spectrum Disorders: A Gradient of Severity in Cognitive Impairments. PLoS Genetics, 2014, 10, e1004580.	3.5	501
66	Global Genetic Variations Predict Brain Response to Faces. PLoS Genetics, 2014, 10, e1004523.	3.5	18
67	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. Brain Imaging and Behavior, 2014, 8, 153-182.	2.1	696
68	Simplified gyral pattern in severe developmental microcephalies? New insights from allometric modeling for spatial and spectral analysis of gyrification. NeuroImage, 2014, 102, 317-331.	4.2	32
69	CAMK2A polymorphisms predict working memory performance in humans. Molecular Psychiatry, 2013, 18, 850-852.	7.9	19
70	Progress toward treatments for synaptic defects in autism. Nature Medicine, 2013, 19, 685-694.	30.7	167
71	Breastfeeding and brain structure in adolescence. International Journal of Epidemiology, 2013, 42, 150-159.	1.9	69
72	Resting State Networks' Corticotopy: The Dual Intertwined Rings Architecture. PLoS ONE, 2013, 8, e67444.	2.5	29

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73	Genetic and Functional Analyses of SHANK2 Mutations Suggest a Multiple Hit Model of Autism Spectrum Disorders. PLoS Genetics, 2012, 8, e1002521.	3.5	358
74	KCTD8 Gene and Brain Growth in Adverse Intrauterine Environment: A Genome-wide Association Study. Cerebral Cortex, 2012, 22, 2634-2642.	2.9	35
75	Fast surface-based measurements using first eigenfunction of the Laplace-Beltrami Operator: Interest for sulcal description. , 2012, , .		6
76	Identification of common variants associated with human hippocampal and intracranial volumes. Nature Genetics, 2012, 44, 552-561.	21.4	594
77	A convergent functional architecture of the insula emerges across imaging modalities. NeuroImage, 2012, 61, 1129-1142.	4.2	351
78	Larger is twistier: Spectral analysis of gyrification (SPANGY) applied to adult brain size polymorphism. NeuroImage, 2012, 63, 1257-1272.	4.2	69
79	On the Possible Shapes of the Brain. Evolutionary Biology, 2012, 39, 600-612.	1.1	39
80	Autistic-like behaviours and hyperactivity in mice lacking ProSAP1/Shank2. Nature, 2012, 486, 256-260.	27.8	570
81	Genetic variations of the melatonin pathway in patients with attention-deficit and hyperactivity disorders. Journal of Pineal Research, 2011, 51, 394-399.	7.4	52
82	Variations of the Candidate SEZ6L2 Gene on Chromosome 16p11.2 in Patients with Autism Spectrum Disorders and in Human Populations. PLoS ONE, 2011, 6, e17289.	2.5	28
83	Cortical Gray Matter in Attention-Deficit/Hyperactivity Disorder. Journal of the American Academy of Child and Adolescent Psychiatry, 2010, 49, 229-238.	0.5	21
84	Key role for gene dosage and synaptic homeostasis in autism spectrum disorders. Trends in Genetics, 2010, 26, 363-372.	6.7	296
85	Prenatal exposure to maternal cigarette smoking interacts with a polymorphism in the $\alpha 6$ nicotinic acetylcholine receptor gene to influence drug use and striatum volume in adolescence. Molecular Psychiatry, 2010, 15, 6-8.	7.9	22
86	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
87	Cortical Gray Matter in Attention-Deficit/Hyperactivity Disorder: A Structural Magnetic Resonance Imaging Study. Journal of the American Academy of Child and Adolescent Psychiatry, 2010, 49, 229-238.	0.5	125
88	Could sex differences in white matter be explained by g ratio?. Frontiers in Neuroanatomy, 2009, 3, 14.	1.7	73
89	Orbitofrontal Cortex and Drug Use During Adolescence. Archives of General Psychiatry, 2009, 66, 1244.	12.3	93
90	Brain volumes and Val66Met polymorphism of the BDNF gene: local or global effects?. Brain Structure and Function, 2009, 213, 501-509.	2.3	70

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91	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, 215-223.	3.1	37
92	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, 13040-13045.	7.1	4,636
93	Morphological properties of the action-observation cortical network in adolescents with low and high resistance to peer influence. <i>Social Neuroscience</i> , 2008, 3, 303-316.	1.3	51
94	Brain Size and Folding of the Human Cerebral Cortex. <i>Cerebral Cortex</i> , 2008, 18, 2352-2357.	2.9	209
95	Functional Coactivation Map of the Human Brain. <i>Cerebral Cortex</i> , 2008, 18, 2553-2559.	2.9	370
96	Prenatal Exposure to Maternal Cigarette Smoking and the Adolescent Cerebral Cortex. <i>Neuropsychopharmacology</i> , 2008, 33, 1019-1027.	5.4	130
97	Accurate Anisotropic Fast Marching for Diffusion-Based Geodesic Tractography. <i>International Journal of Biomedical Imaging</i> , 2008, 2008, 1-12.	3.9	91
98	Neural Mechanisms of Resistance to Peer Influence in Early Adolescence. <i>Journal of Neuroscience</i> , 2007, 27, 8040-8045.	3.6	77
99	Genes, maternal smoking, and the offspring brain and body during adolescence: Design of the Saguenay Youth Study. <i>Human Brain Mapping</i> , 2007, 28, 502-518.	3.6	113
100	A Morphogenetic Model for the Development of Cortical Convolutions. <i>Cerebral Cortex</i> , 2005, 15, 1900-1913.	2.9	295
101	Geometric atlas: modeling the cortex as an organized surface. <i>NeuroImage</i> , 2003, 20, 1468-1484.	4.2	45
102	Meta-analysis of functional imaging studies using a geometric model of the cortical surface. , 0, , .		0
103	Open Neuroimaging Laboratory. <i>Research Ideas and Outcomes</i> , 0, 2, e9113.	1.0	16