

Rafael Romero-Garcia

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

3,235
citations

257450

24
h-index

206112

48
g-index

87
all docs

87
docs citations

87
times ranked

3711
citing authors

#	ARTICLE	IF	CITATIONS
1	Adolescence is associated with genomically patterned consolidation of the hubs of the human brain connectome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9105-9110.	7.1	415
2	Morphometric Similarity Networks Detect Microscale Cortical Organization and Predict Inter-Individual Cognitive Variation. <i>Neuron</i> , 2018, 97, 231-247.e7.	8.1	307
3	Cortical patterning of abnormal morphometric similarity in psychosis is associated with brain expression of schizophrenia-related genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9604-9609.	7.1	200
4	Adolescent Tuning of Association Cortex in Human Structural Brain Networks. <i>Cerebral Cortex</i> , 2018, 28, 281-294.	2.9	195
5	Gene transcription profiles associated with inter-modular hubs and connection distance in human functional magnetic resonance imaging networks. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150362.	4.0	188
6	Structural covariance networks are coupled to expression of genes enriched in supragranular layers of the human cortex. <i>NeuroImage</i> , 2018, 171, 256-267.	4.2	177
7	Transcriptomic and cellular decoding of regional brain vulnerability to neurogenetic disorders. <i>Nature Communications</i> , 2020, 11, 3358.	12.8	141
8	Synaptic and transcriptionally downregulated genes are associated with cortical thickness differences in autism. <i>Molecular Psychiatry</i> , 2019, 24, 1053-1064.	7.9	135
9	Effects of network resolution on topological properties of human neocortex. <i>NeuroImage</i> , 2012, 59, 3522-3532.	4.2	97
10	Shifts in myeloarchitecture characterise adolescent development of cortical gradients. <i>ELife</i> , 2019, 8, .	6.0	97
11	Conservative and disruptive modes of adolescent change in human brain functional connectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3248-3253.	7.1	96
12	Waves of Maturation and Senescence in Micro-structural MRI Markers of Human Cortical Myelination over the Lifespan. <i>Cerebral Cortex</i> , 2019, 29, 1369-1381.	2.9	91
13	Structural Covariance Networks in Children with Autism or ADHD. <i>Cerebral Cortex</i> , 2017, 27, 4267-4276.	2.9	87
14	Graph theory analysis of complex brain networks: new concepts in brain mapping applied to neurosurgery. <i>Journal of Neurosurgery</i> , 2016, 124, 1665-1678.	1.6	63
15	Schizotypy-Related Magnetization of Cortex in Healthy Adolescence Is Colocated With Expression of Schizophrenia-Related Genes. <i>Biological Psychiatry</i> , 2020, 88, 248-259.	1.3	59
16	A normative modelling approach reveals age-atypical cortical thickness in a subgroup of males with autism spectrum disorder. <i>Communications Biology</i> , 2020, 3, 486.	4.4	57
17	Genetic, cellular, and connectomic characterization of the brain regions commonly plagued by glioma. <i>Brain</i> , 2020, 143, 3294-3307.	7.6	52
18	An expanding manifold in transmodal regions characterizes adolescent reconfiguration of structural connectome organization. <i>ELife</i> , 2021, 10, .	6.0	47

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19	Credit assignment to state-independent task representations and its relationship with model-based decision making. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15871-15876.	7.1	46
20	Global Effects of Focal Brain Tumors on Functional Complexity and Network Robustness: A Prospective Cohort Study. Neurosurgery, 2019, 84, 1201-1213.	1.1	37
21	Grey and white matter microstructure is associated with polygenic risk for schizophrenia. Molecular Psychiatry, 2021, 26, 7709-7718.	7.9	37
22	Decision-making ability, psychopathology, and brain connectivity. Neuron, 2021, 109, 2025-2040.e7.	8.1	34
23	Multiple Holdouts With Stability: Improving the Generalizability of Machine Learning Analyses of Brain-Behavior Relationships. Biological Psychiatry, 2020, 87, 368-376.	1.3	32
24	Brain-behaviour modes of covariation in healthy and clinically depressed young people. Scientific Reports, 2019, 9, 11536.	3.3	31
25	Structural brain network of gifted children has a more integrated and versatile topology. Brain Structure and Function, 2019, 224, 2373-2383.	2.3	31
26	What Is the Link Between Attention-Deficit/Hyperactivity Disorder and Sleep Disturbance? A Multimodal Examination of Longitudinal Relationships and Brain Structure Using Large-Scale Population-Based Cohorts. Biological Psychiatry, 2020, 88, 459-469.	1.3	31
27	Connectivity-based parcellation of normal and anatomically distorted human cerebral cortex. Human Brain Mapping, 2022, 43, 1358-1369.	3.6	30
28	Predictors of coupling between structural and functional cortical networks in normal aging. Human Brain Mapping, 2014, 35, 2724-2740.	3.6	26
29	In vivo coupling of tau pathology and cortical thinning in Alzheimer's disease. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2018, 10, 678-687.	2.4	24
30	Compulsivity is linked to reduced adolescent development of goal-directed control and frontostriatal functional connectivity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25911-25922.	7.1	23
31	Versatility of nodal affiliation to communities. Scientific Reports, 2017, 7, 4273.	3.3	21
32	A deep graph neural network architecture for modelling spatio-temporal dynamics in resting-state functional MRI data. Medical Image Analysis, 2022, 79, 102471.	11.6	20
33	Statistical Agnostic Mapping: A framework in neuroimaging based on concentration inequalities. Information Fusion, 2021, 66, 198-212.	19.1	19
34	Intraoperative mapping of executive function using electrocorticography for patients with low-grade gliomas. Acta Neurochirurgica, 2021, 163, 1299-1309.	1.7	18
35	Interventional neurorehabilitation for promoting functional recovery post-craniotomy: a proof-of-concept. Scientific Reports, 2022, 12, 3039.	3.3	18
36	Adolescent development of multiscale structural wiring and functional interactions in the human connectome. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	18

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37	In vivo coupling of dendritic complexity with presynaptic density in primary tauopathies. <i>Neurobiology of Aging</i> , 2021, 101, 187-198.	3.1	17
38	Sexually divergent development of depression-related brain networks during healthy human adolescence. <i>Science Advances</i> , 2022, 8, .	10.3	14
39	Different Scales of Cortical Organization are Selectively Targeted in the Progression to Alzheimer's Disease. <i>International Journal of Neural Systems</i> , 2016, 26, 1650003.	5.2	13
40	Practical Application of Networks in Neurosurgery: Combined 3-Dimensional Printing, Neuronavigation, and Preoperative Surgical Planning. <i>World Neurosurgery</i> , 2020, 137, e126-e137.	1.3	13
41	Atypical measures of diffusion at the gray-white matter boundary in autism spectrum disorder in adulthood. <i>Human Brain Mapping</i> , 2021, 42, 467-484.	3.6	11
42	Effects of choral singing versus health education on cognitive decline and aging: a randomized controlled trial. <i>Aging</i> , 2020, 12, 24798-24816.	3.1	11
43	Lesion covariance networks reveal proposed origins and pathways of diffuse gliomas. <i>Brain Communications</i> , 2021, 3, fcab289.	3.3	11
44	Habitual tea drinking modulates brain efficiency: evidence from brain connectivity evaluation. <i>Aging</i> , 2019, 11, 3876-3890.	3.1	10
45	BOLD Coupling between Lesioned and Healthy Brain Is Associated with Glioma Patients' Recovery. <i>Cancers</i> , 2021, 13, 5008.	3.7	8
46	Connections, Tracts, Fractals, and the Rest: A Working Guide to Network and Connectivity Studies in Neurosurgery. <i>World Neurosurgery</i> , 2020, 140, 389-400.	1.3	6
47	Memory recovery in relation to default mode network impairment and neurite density during brain tumor treatment. <i>Journal of Neurosurgery</i> , 2022, 136, 358-368.	1.6	6
48	Assessment of neuropsychological function in brain tumor treatment: a comparison of traditional neuropsychological assessment with app-based cognitive screening. <i>Acta Neurochirurgica</i> , 2022, 164, 2021-2034.	1.7	6
49	373. Adolescence is Associated with Genomically Patterned Consolidation of the Hubs of the Human Brain Connectome. <i>Biological Psychiatry</i> , 2017, 81, S152-S153.	1.3	5
50	Analysis of Fine Motor Skills in Essential Tremor: Combining Neuroimaging and Handwriting Biomarkers for Early Management. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 648573.	2.0	5
51	Examining the relationship between altered brain functional connectome and disinhibition across 33 impulsive and compulsive behaviours. <i>British Journal of Psychiatry</i> , 2021, , 1-3.	2.8	2
52	Rhythmic timing in aging adults: On the role of cognitive functioning and structural brain integrity.. <i>Psychology and Aging</i> , 2020, 35, 1184-1200.	1.6	2
53	Morphometric Similarity Networks Detect Microscale Cortical Organisation and Predict Inter-Individual Cognitive Variation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
54	Sparse and shrunken estimates of MRI networks in the brain and their influence on network properties. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0

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55	Intraoperative mapping of cognitive control regions in the frontal cortex using electrocorticography. <i>IBRO Reports</i> , 2019, 6, S446.	0.3	0
56	Ten simple rules for aspiring graduate students. <i>PLoS Computational Biology</i> , 2021, 17, e1009276.	3.2	0
57	NIMG-13. GENETIC, CELLULAR, AND CONNECTOMIC CHARACTERIZATION OF THE ADULT HUMAN BRAIN REGIONS COMMONLY PLAGUED BY GLIOMA. <i>Neuro-Oncology</i> , 2020, 22, ii149-ii149.	1.2	0