Erick J Canales-RodrÃ-guez

List of Publications by Year
in descending order

88 papers	6,048 citations	126901 33 h-index	85537 71 g-index
104 all docs	104 docs citations	104 times ranked	8481 citing authors

#	Article	IF	Citations
1	Cortical abnormalities in bipolar disorder: an MRI analysis of 6503 individuals from the ENIGMA Bipolar Disorder Working Group. Molecular Psychiatry, 2018, 23, 932-942.	7.9	558
2	Studying the human brain anatomical network via diffusion-weighted MRI and Graph Theory. NeuroImage, 2008, 40, 1064-1076.	4.2	474
3	Accelerated Microstructure Imaging via Convex Optimization (AMICO) from diffusion MRI data. NeuroImage, 2015, 105, 32-44.	4.2	377
4	Characterizing brain anatomical connections using diffusion weighted MRI and graph theory. NeuroImage, 2007, 36, 645-660.	4.2	322
5	Mapping cortical brain asymmetry in 17,141 healthy individuals worldwide via the ENIGMA Consortium. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5154-E5163.	7.1	299
6	Anisotropic Kernels for Coordinate-Based Meta-Analyses of Neuroimaging Studies. Frontiers in Psychiatry, 2014, 5, 13.	2.6	286
7	Estimating brain functional connectivity with sparse multivariate autoregression. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 969-981.	4.0	267
8	Limits to anatomical accuracy of diffusion tractography using modern approaches. NeuroImage, 2019, 185, 1-11.	4.2	200
9	Brain Hemispheric Structural Efficiency and Interconnectivity Rightward Asymmetry in Human and Nonhuman Primates. Cerebral Cortex, 2011, 21, 56-67.	2.9	171
10	Medial prefrontal cortex pathology in schizophrenia as revealed by convergent findings from multimodal imaging. Molecular Psychiatry, 2010, 15, 823-830.	7.9	160
11	Widespread white matter microstructural abnormalities in bipolar disorder: evidence from mega- and meta-analyses across 3033 individuals. Neuropsychopharmacology, 2019, 44, 2285-2293.	5.4	147
12	Quantitative Comparison of Reconstruction Methods for Intra-Voxel Fiber Recovery From Diffusion MRI. IEEE Transactions on Medical Imaging, 2014, 33, 384-399.	8.9	145
13	Multimodal Voxel-Based Meta-Analysis of White Matter Abnormalities in Obsessiveâ€“Compulsive Disorder. Neuropsychopharmacology, 2014, 39, 1547-1557.	5.4	143
14	Cortical thickness across the lifespan: Data from 17,075 healthy individuals aged 3â€“90â€‰years. Human Brain Mapping, 2022, 43, 431-451.	3.6	143
15	Brain aging in major depressive disorder: results from the ENIGMA major depressive disorder working group. Molecular Psychiatry, 2021, 26, 5124-5139.	7.9	136
16	Virtual Histology of Cortical Thickness and Shared Neurobiology in 6 Psychiatric Disorders. JAMA Psychiatry, 2021, 78, 47.	11.0	136
17	Increased power by harmonizing structural MRI site differences with the ComBat batch adjustment method in ENIGMA. NeuroImage, 2020, 218, 116956.	4.2	135
18	Using structural MRI to identify bipolar disorders â€“ 13 site machine learning study in 3020 individuals from the ENIGMA Bipolar Disorders Working Group. Molecular Psychiatry, 2020, 25, 2130-2143.	7.9	127

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19	Validity of modulation and optimal settings for advanced voxel-based morphometry. NeuroImage, 2014, 86, 81-90.	4.2	96
20	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. NeuroImage, 2021, 243, 118502.	4.2	94
21	Evaluation of machine learning algorithms and structural features for optimal MRI-based diagnostic prediction in psychosis. PLoS ONE, 2017, 12, e0175683.	2.5	79
22	Greater male than female variability in regional brain structure across the lifespan. Human Brain Mapping, 2022, 43, 470-499.	3.6	76
23	Mathematical description of qâ€space in spherical coordinates: Exact qâ€ball imaging. Magnetic Resonance in Medicine, 2009, 61, 1350-1367.	3.0	72
24	Subcortical volumes across the lifespan: Data from 18,605 healthy individuals aged 3â€“90â€‰years. Human Brain Mapping, 2022, 43, 452-469.	3.6	72
25	What we learn about bipolar disorder from largeâ€scale neuroimaging: Findings and future directions from the <scp>ENIGMA</scp> Bipolar Disorder Working Group. Human Brain Mapping, 2022, 43, 56-82.	3.6	67
26	Structural Abnormalities in Bipolar Euthymia: A Multicontrast Molecular Diffusion Imaging Study. Biological Psychiatry, 2014, 76, 239-248.	1.3	61
27	Converging Medial Frontal Resting State and Diffusion-Based Abnormalities in Borderline Personality Disorder. Biological Psychiatry, 2016, 79, 107-116.	1.3	57
28	Brain structural changes in schizoaffective disorder compared to schizophrenia and bipolar disorder. Acta Psychiatrica Scandinavica, 2016, 133, 23-33.	4.5	57
29	Association of formal thought disorder in schizophrenia with structural brain abnormalities in language-related cortical regions. Schizophrenia Research, 2013, 146, 308-313.	2.0	55
30	Structural brain correlates in major depression, anxiety disorders and post-traumatic stress disorder: A voxel-based morphometry meta-analysis. Neuroscience and Biobehavioral Reviews, 2021, 129, 269-281.	6.1	51
31	In vivo hippocampal subfield volumes in bipolar disorderâ€”A megaâ€analysis from The Enhancing Neuro Imaging Genetics through <scp>Metaâ€Analysis</scp> Bipolar Disorder Working Group. Human Brain Mapping, 2022, 43, 385-398.	3.6	41
32	Neural correlates of cognitive impairment in schizophrenia. British Journal of Psychiatry, 2011, 199, 202-210.	2.8	40
33	A <scp>metaâ€analysis</scp> of deep brain structural shape and asymmetry abnormalities in 2,833 individuals with schizophrenia compared with 3,929 healthy volunteers via the <scp>ENIGMA Consortium</scp>. Human Brain Mapping, 2022, 43, 352-372.	3.6	39
34	Structural abnormality in schizophrenia versus bipolar disorder: A whole brain cortical thickness, surface area, volume and gyrification analyses. NeuroImage: Clinical, 2020, 25, 102131.	2.7	38
35	Structural brain changes associated with tardive dyskinesia in schizophrenia. British Journal of Psychiatry, 2013, 203, 51-57.	2.8	36
36	Neuropsychological and neuroimaging underpinnings of schizoaffective disorder: a systematic review. Acta Psychiatrica Scandinavica, 2016, 134, 16-30.	4.5	36

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37	Deconvolution in diffusion spectrum imaging. NeuroImage, 2010, 50, 136-149.	4.2	31
38	Diffusion orientation transform revisited. NeuroImage, 2010, 49, 1326-1339.	4.2	29
39	Sparse wars: A survey and comparative study of spherical deconvolution algorithms for diffusion MRI. NeuroImage, 2019, 184, 140-160.	4.2	29
40	Longitudinal Structural Brain Changes in Bipolar Disorder: A Multicenter Neuroimaging Study of 1232 Individuals by the ENIGMA Bipolar Disorder Working Group. Biological Psychiatry, 2022, 91, 582-592.	1.3	29
41	Larger Gray Matter Volume in the Basal Ganglia of Heavy Cannabis Users Detected by Voxel-Based Morphometry and Subcortical Volumetric Analysis. Frontiers in Psychiatry, 2018, 9, 175.	2.6	28
42	Resolving bundle-specific intra-axonal T2 values within a voxel using diffusion-relaxation tract-based estimation. NeuroImage, 2021, 227, 117617.	4.2	28
43	Common and specific brain responses to scenic emotional stimuli. Brain Structure and Function, 2014, 219, 1463-1472.	2.3	27
44	Spherical Deconvolution of Multichannel Diffusion MRI Data with Non-Gaussian Noise Models and Spatial Regularization. PLoS ONE, 2015, 10, e0138910.	2.5	27
45	Multimodal Integration of Brain Images for MRI-Based Diagnosis in Schizophrenia. Frontiers in Neuroscience, 2019, 13, 1203.	2.8	26
46	Robust Monte-Carlo Simulations in Diffusion-MRI: Effect of the Substrate Complexity and Parameter Choice on the Reproducibility of Results. Frontiers in Neuroinformatics, 2020, 14, 8.	2.5	26
47	Model-informed machine learning for multi-component<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msub><mml:mi>T</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>relaxometry. Medical Image Analysis, 2021, 69, 101940.	11.6	26
48	Structural and functional brain changes in delusional disorder. British Journal of Psychiatry, 2016, 208, 153-159.	2.8	25
49	Association between body mass index and subcortical brain volumes in bipolar disordersâ€“ENIGMA study in 2735 individuals. Molecular Psychiatry, 2021, 26, 6806-6819.	7.9	24
50	Automated Discrimination of Brain Pathological State Attending to Complex Structural Brain Network Properties: The Shiverer Mutant Mouse Case. PLoS ONE, 2011, 6, e19071.	2.5	20
51	Discoidin domain receptor 1 gene variants are associated with decreased white matter fractional anisotropy and decreased processing speed in schizophrenia. Journal of Psychiatric Research, 2019, 110, 74-82.	3.1	18
52	An overlapping pattern of cerebral cortical thinning is associated with both positive symptoms and aggression in schizophrenia via the ENIGMA consortium. Psychological Medicine, 2020, 50, 2034-2045.	4.5	18
53	Partialâ€volume modeling reveals reduced gray matter in specific thalamic nuclei early in the time course of psychosis and chronic schizophrenia. Human Brain Mapping, 2020, 41, 4041-4061.	3.6	18
54	A Bayesian framework to identify principal intravoxel diffusion profiles based on diffusion-weighted MR imaging. NeuroImage, 2008, 42, 750-770.	4.2	17

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55	Insights from the IronTract challenge: Optimal methods for mapping brain pathways from multi-shell diffusion MRI. NeuroImage, 2022, 257, 119327.	4.2	17
56	Statistical analysis of brain tissue images in the wavelet domain: Wavelet-based morphometry. NeuroImage, 2013, 72, 214-226.	4.2	16
57	Non redundant functional brain connectivity in schizophrenia. Brain Imaging and Behavior, 2017, 11, 552-564.	2.1	16
58	Fast and highâ€resolution myelin water imaging: Accelerating multiâ€echo GRASE with CAIPIRINHA. Magnetic Resonance in Medicine, 2021, 85, 209-222.	3.0	16
59	Comparison of non-parametric T2 relaxometry methods for myelin water quantification. Medical Image Analysis, 2021, 69, 101959.	11.6	16
60	Gray and white matter changes and their relation to illness trajectory in first episode psychosis. European Neuropsychopharmacology, 2018, 28, 392-400.	0.7	15
61	Age- and gender-related differences in brain tissue microstructure revealed by multi-component T2 relaxometry. Neurobiology of Aging, 2021, 106, 68-79.	3.1	15
62	Intelligence, educational attainment, and brain structure in those at familial highâ€risk for schizophrenia or bipolar disorder. Human Brain Mapping, 2022, 43, 414-430.	3.6	14
63	Brain morphometry of Dravet Syndrome. Epilepsy Research, 2014, 108, 1326-1334.	1.6	13
64	Granger Causality on Spatial Manifolds: Applications to Neuroimaging. , 0, , 461-491.		12
65	Surface-based brain morphometry and diffusion tensor imaging in schizoaffective disorder. Australian and New Zealand Journal of Psychiatry, 2017, 51, 42-54.	2.3	11
66	Virtual Ontogeny of Cortical Growth Preceding Mental Illness. Biological Psychiatry, 2022, 92, 299-313.	1.3	11
67	Revisiting the T2 spectrum imaging inverse problem: Bayesian regularized non-negative least squares. NeuroImage, 2021, 244, 118582.	4.2	8
68	Inferring multiple maxima in intravoxel white matter fiber distribution. Magnetic Resonance in Medicine, 2008, 60, 616-630.	3.0	7
69	Porting Matlab Applications to High-Performance C++ Codes: CPU/GPU-Accelerated Spherical Deconvolution of Diffusion MRI Data. Lecture Notes in Computer Science, 2016, , 630-643.	1.3	7
70	Multivariate Brain Functional Connectivity Through Regularized Estimators. Frontiers in Neuroscience, 2020, 14, 569540.	2.8	5
71	Diagnosis of bipolar disorders and body mass index predict clustering based on similarities in cortical thicknessâ€"ENIGMA study in 2436 individuals. Bipolar Disorders, 2022, 24, 509-520.	1.9	5
72	DDR1methylation is associated with bipolar disorder and the isoform expression and methylation of myelin genes. Epigenomics, 2021, 13, 845-858.	2.1	4

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73	Axonal T2 estimation using the spherical variance of the strongly diffusion-weighted MRI signal. Magnetic Resonance Imaging, 2022, 86, 118-134.	1.8	4
74	Evaluating reproducibility and subject-specificity of microstructure-informed connectivity. NeuroImage, 2022, 258, 119356.	4.2	4
75	Facial Biomarkers Detect Genderâ€Specific Traits for Bipolar Disorder. FASEB Journal, 2021, 35, .	0.5	3
76	Multi-Compartment Diffusion Mri, T2 Relaxometry And Myelin Water Imaging As Neuroimaging Descriptors For Anomalous Tissue Detection. , 2021, , .		2
77	Quantitative Evaluation of Enhanced Multi-plane Clinical Fetal Diffusion MRI with a Crossing-Fiber Phantom. Lecture Notes in Computer Science, 2021, , 12-22.	1.3	2
78	DWI Simulation-Assisted Machine Learning Models for Microstructure Estimation. Mathematics and Visualization, 2020, , 125-134.	0.6	2
79	ISDN2014_0117: Brain morphometry of Dravet Syndrome. International Journal of Developmental Neuroscience, 2015, 47, 33-33.	1.6	1
80	Brain structural and functional substrates of ADGRL3 (latrophilin 3) haplotype in attention-deficit/hyperactivity disorder. Scientific Reports, 2021, 11, 2373.	3.3	1
81	Robust Biophysical Parameter Estimation with a Neural Network Enhanced Hamiltonian Markov Chain Monte Carlo Sampler. Lecture Notes in Computer Science, 2019, , 818-829.	1.3	1
82	MULTIMODAL IMAGING REVEALS CONVERGENT EVIDENCE OF MEDIAL PREFRONTAL CORTEX PATHOLOGY IN SCHIZOPHRENIA. Schizophrenia Research, 2010, 117, 460.	2.0	0
83	P.3.b.031 Gray and white matter changes and their relation with prognosis of first episode psychosis. European Neuropsychopharmacology, 2014, 24, S509.	0.7	0
84	Spatially Varying Monte Carlo Sure for the Regularization of Biomedical Images. , 2019, , .		0
85	Robust T2 Relaxometry With Hamiltonian MCMC for Myelin Water Fraction Estimation. , 2019, , .		0
86	High Potential of Facial Biomarkers to Diagnose Psychotic Disorders. FASEB Journal, 2021, 35, .	0.5	0
87	Complex Mouse Brain Anatomical Network Attributes Estimated via Diffusion- MRI Data and Graph Theory. IFMBE Proceedings, 2013, , 65-68.	0.3	0
88	Dataâ€driven myelin water imaging based on T ₁ and T ₂ relaxometry. NMR in Biomedicine, 2021, , e4668.	2.8	0