Yasser Iturria-Medina

List of Publications by Year
in descending order

72 papers	5,450 citations	186209 28 h-index	102432 66 g-index
84 all docs	84 docs citations	84 times ranked	8100 citing authors

#	Article	IF	Citations
1	Early role of vascular dysregulation on late-onset Alzheimer's disease based on multifactorial data-driven analysis. Nature Communications, 2016, 7, 11934.	5.8	833
2	Studying the human brain anatomical network via diffusion-weighted MRI and Graph Theory. NeuroImage, 2008, 40, 1064-1076.	2.1	474
3	Four distinct trajectories of tau deposition identified in Alzheimer's disease. Nature Medicine, 2021, 27, 871-881.	15.2	354
4	Characterizing brain anatomical connections using diffusion weighted MRI and graph theory. NeuroImage, 2007, 36, 645-660.	2.1	322
5	Spread of pathological tau proteins through communicating neurons in human Alzheimer's disease. Nature Communications, 2020, 11, 2612.	5.8	283
6	001 058 002 059 003 060 004 061 005 062 006 063 007 064 008 065 009 066 010 067 011 068 012 069 013 070 014 071 015 072 016 073 017 074 018 075 019 076 020 077 021 078 022 079 023 080 024 081 025 082 026 083 027 084 028 085 029 086 030 087 031 088 032 089 033 090 034 091 035 092 036 093 037 094 038 095 039 096 040 097 041 098 042 099 043 100 044 101 045 102 046 103 047 104 048 105 049 106 050 107 051 108 052 109 053 110 054 111 055 112 056 113 057 114 NEUROINFORMATICS METHODS ARTICLE published: xx November. Frontiers in Neuroinformatics, 2011, 5, 26.	1.8	231
7	Model driven EEG/fMRI fusion of brain oscillations. Human Brain Mapping, 2009, 30, 2701-2721.	1.9	210
8	Preventing dementia by preventing stroke: The Berlin Manifesto. Alzheimer's and Dementia, 2019, 15, 961-984.	0.4	200
9	Network structure of brain atrophy in de novo Parkinson's disease. ELife, 2015, 4, .	2.8	187
10	Surface area and cortical thickness descriptors reveal different attributes of the structural human brain networks. NeuroImage, 2010, 50, 1497-1510.	2.1	177
11	Brain Hemispheric Structural Efficiency and Interconnectivity Rightward Asymmetry in Human and Nonhuman Primates. Cerebral Cortex, 2011, 21, 56-67.	1.6	171
12	Medial prefrontal cortex pathology in schizophrenia as revealed by convergent findings from multimodal imaging. Molecular Psychiatry, 2010, 15, 823-830.	4.1	160
13	Epidemic Spreading Model to Characterize Misfolded Proteins Propagation in Aging and Associated Neurodegenerative Disorders. PLoS Computational Biology, 2014, 10, e1003956.	1.5	151
14	Realistically Coupled Neural Mass Models Can Generate EEG Rhythms. Neural Computation, 2007, 19, 478-512.	1.3	145
15	Structural neuroimaging as clinical predictor: A review of machine learning applications. NeuroImage: Clinical, 2018, 20, 506-522.	1.4	131
16	Multifactorial causal model of brain (dis)organization and therapeutic intervention: Application to Alzheimer's disease. NeuroImage, 2017, 152, 60-77.	2.1	107
17	Anatomical connectivity changes in the bilingual brain. NeuroImage, 2014, 84, 495-504.	2.1	101
18	A molecular gradient along the longitudinal axis of the human hippocampus informs large-scale behavioral systems. Nature Communications, 2020, 11, 960.	5.8	100

#	Article	IF	Citations
19	Diffusion tensor tractography reveals disrupted structural connectivity in childhood absence epilepsy. Epilepsy Research, 2014, 108, 125-138.	0.8	79
20	Mathematical description of qâ€space in spherical coordinates: Exact qâ€ball imaging. Magnetic Resonance in Medicine, 2009, 61, 1350-1367.	1.9	72
21	Impairment of functional integration of the default mode network correlates with cognitive outcome at three months after stroke. Human Brain Mapping, 2015, 36, 577-590.	1.9	66
22	On the central role of brain connectivity in neurodegenerative disease progression. Frontiers in Aging Neuroscience, 2015, 7, 90.	1.7	53
23	Handedness- and Hemisphere-Related Differences in Small-World Brain Networks: A Diffusion Tensor Imaging Tractography Study. Brain Connectivity, 2014, 4, 145-156.	0.8	50
24	Blood and brain gene expression trajectories mirror neuropathology and clinical deterioration in neurodegeneration. Brain, 2020, 143, 661-673.	3.7	47
25	Anatomical Brain Networks on the Prediction of Abnormal Brain States. Brain Connectivity, 2013, 3, 1-21.	0.8	44
26	Mathematical Modeling of Protein Misfolding Mechanisms in Neurological Diseases: A Historical Overview. Frontiers in Neurology, 2018, 9, 37.	1.1	43
27	Open science datasets from PREVENT-AD, a longitudinal cohort of pre-symptomatic Alzheimerâ€™s disease. NeuroImage: Clinical, 2021, 31, 102733.	1.4	42
28	Multimodal imaging-based therapeutic fingerprints for optimizing personalized interventions: Application to neurodegeneration. NeuroImage, 2018, 179, 40-50.	2.1	33
29	Gene networks show associations with seed region connectivity. Human Brain Mapping, 2017, 38, 3126-3140.	1.9	32
30	Deconvolution in diffusion spectrum imaging. NeuroImage, 2010, 50, 136-149.	2.1	31
31	Diffusion orientation transform revisited. NeuroImage, 2010, 49, 1326-1339.	2.1	29
32	Structure Shapes Dynamics and Directionality in Diverse Brain Networks: Mathematical Principles and Empirical Confirmation in Three Species. Scientific Reports, 2017, 7, 46606.	1.6	28
33	Dataâ€driven approaches for tauâ€PET imaging biomarkers in Alzheimer's disease. Human Brain Mapping, 2019, 40, 638-651.	1.9	27
34	Spherical Deconvolution of Multichannel Diffusion MRI Data with Non-Gaussian Noise Models and Spatial Regularization. PLoS ONE, 2015, 10, e0138910.	1.1	27
35	Enhanced structural connectivity within a brain sub-network supporting working memory and engagement processes after cognitive training. Neurobiology of Learning and Memory, 2017, 141, 33-43.	1.0	26
36	Personalized brain models identify neurotransmitter receptor changes in Alzheimer's disease. Brain, 2022, 145, 1785-1804.	3.7	23

#	Article	IF	Citations
37	From Blood Oxygenation Level Dependent (BOLD) Signals to Brain Temperature Maps. Bulletin of Mathematical Biology, 2011, 73, 2731-2747.	0.9	21
38	Design of optimal nonlinear network controllers for Alzheimer's disease. PLoS Computational Biology, 2018, 14, e1006136.	1.5	21
39	Modulation of glucose metabolism and metabolic connectivity by Î²-amyloid. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 2058-2071.	2.4	20
40	Automated Discrimination of Brain Pathological State Attending to Complex Structural Brain Network Properties: The Shiverer Mutant Mouse Case. PLoS ONE, 2011, 6, e19071.	1.1	20
41	Defining a multimodal signature of remote sports concussions. European Journal of Neuroscience, 2017, 46, 1956-1967.	1.2	18
42	A Bayesian framework to identify principal intravoxel diffusion profiles based on diffusion-weighted MR imaging. NeuroImage, 2008, 42, 750-770.	2.1	17
43	Statistical analysis of brain tissue images in the wavelet domain: Wavelet-based morphometry. NeuroImage, 2013, 72, 214-226.	2.1	16
44	Integrating molecular, histopathological, neuroimaging and clinical neuroscience data with NeuroPM-box. Communications Biology, 2021, 4, 614.	2.0	16
45	Integrated transcriptomic and neuroimaging brain model decodes biological mechanisms in aging and Alzheimerâ€™s disease. ELife, 2021, 10, .	2.8	16
46	Mild traumatic brain injury: The effect of age at trauma onset on brain structure integrity. NeuroImage: Clinical, 2019, 23, 101907.	1.4	15
47	A highly predictive signature of cognition and brain atrophy for progression to Alzheimer's dementia. GigaScience, 2019, 8, .	3.3	15
48	The vascular facet of late-onset Alzheimer's disease: an essential factor in a complex multifactorial disorder. Current Opinion in Neurology, 2017, 30, 623-629.	1.8	14
49	Brain morphometry of Dravet Syndrome. Epilepsy Research, 2014, 108, 1326-1334.	0.8	13
50	Special topic section: linkages among cerebrovascular, cardiovascular, and cognitive disorders: Preventing dementia by preventing stroke: The Berlin Manifesto. International Journal of Stroke, 2019, , 174749301987191.	2.9	13
51	Integrative Neuroinformatics for Precision Prognostication and Personalized Therapeutics in Moderate and Severe Traumatic Brain Injury. Frontiers in Neurology, 2021, 12, 729184.	1.1	13
52	Detecting brain network communities: Considering the role of information flow and its different temporal scales. NeuroImage, 2021, 225, 117431.	2.1	11
53	Complex brain network properties in late L2 learners and native speakers. Neuropsychologia, 2015, 68, 209-217.	0.7	9
54	Neuroimaging signatures predicting motor improvement to focused ultrasound subthalamotomy in Parkinsonâ€™s disease. Npj Parkinson's Disease, 2022, 8, .	2.5	9

#	Article	IF	Citations
55	Inferring multiple maxima in intravoxel white matter fiber distribution. Magnetic Resonance in Medicine, 2008, 60, 616-630.	1.9	7
56	Episodic memory in mild cognitive impairment inversely correlates with the global modularity of the cerebral blood flow network. Psychiatry Research - Neuroimaging, 2018, 282, 73-81.	0.9	7
57	Impact of long- and short-range fibre depletion on the cognitive deficits of fronto-temporal dementia. ELife, 2022, 11, .	2.8	7
58	Dataâ€driven staging of genetic frontotemporal dementia using multiâ€modal <scp>MRI</scp>. Human Brain Mapping, 2022, 43, 1821-1835.	1.9	7
59	Editorial: Network Spread Models of Neurodegenerative Diseases. Frontiers in Neurology, 2018, 9, 1159.	1.1	6
60	Cross-Frequency Interactions During Information Flow in Complex Brain Networks Are Facilitated by Scale-Free Properties. Frontiers in Physics, 2019, 7, .	1.0	5
61	CAPTURE ALS: the comprehensive analysis platform to understand, remedy and eliminate ALS. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2022, , 1-7.	1.1	3
62	Multivariate genomic and transcriptomic determinants of imaging-derived personalized therapeutic needs in Parkinsonâ€™s disease. Scientific Reports, 2022, 12, 5483.	1.6	3
63	From Micro- to Macroscopic Brain Connectivity Using Multiple Modalities. BioMed Research International, 2016, 2016, 1-2.	0.9	2
64	Whole brain generative model identifies neurotransmitter alterations underlying Alzheimer's disease progression. Alzheimer's and Dementia, 2020, 16, e041193.	0.4	1
65	Geneâ€neuroimaging brain model decodes neuropathological mechanisms in Alzheimerâ€™s disease. Alzheimer's and Dementia, 2020, 16, e047429.	0.4	1
66	Networks-Mediated Spreading of Pathology in Neurodegenerative Diseases. , 2021, , 171-186.		1
67	From Blood Oxygenation Level Dependent (BOLD) signals to brain temperature maps. Nature Precedings, 2010, , .	0.1	0
68	Understanding brain development: a major step. Lancet Neurology, The, 2017, 16, 178-179.	4.9	0
69	[P2â€“387]: EPISODIC MEMORY IN MILD COGNITIVE IMPAIRMENT INVERSELY CORRELATES WITH THE PATIENT CONTRIBUTION TO CEREBRAL BLOOD FLOW NETWORK MODULARITY. Alzheimer's and Dementia, 2017, 13, P777.	0.4	0
70	P3â€413: HETEROGENEOUS TAUâ€PET SIGNAL IN THE HIPPOCAMPUS HELPS RESOLVE DISCREPANCIES BETWEEN IMAGING AND PATHOLOGY. Alzheimer's and Dementia, 2018, 14, P1263.	0.4	0
71	ICâ€Pâ€224: HETEROGENEOUS TAUâ€PET SIGNAL IN THE HIPPOCAMPUS HELPS RESOLVE DISCREPANCIES BETWEEN IMAGING AND PATHOLOGY. Alzheimer's and Dementia, 2018, 14, P182.	0.4	0
72	AIâ€inferred gene expression trajectories mirror neuropathology and clinical deterioration in neurodegeneration. Alzheimer's and Dementia, 2020, 16, e040948.	0.4	0