

Babak Ardekani

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

7,383
citations

76294

40
h-index

102432

66
g-index

73
all docs

73
docs citations

73
times ranked

10477
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of 14 nonlinear deformation algorithms applied to human brain MRI registration. <i>NeuroImage</i> , 2009, 46, 786-802.	2.1	1,988
2	Estimation of tensors and tensor-derived measures in diffusional kurtosis imaging. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 823-836.	1.9	386
3	Attention-deficit/hyperactivity disorder: A preliminary diffusion tensor imaging study. <i>Biological Psychiatry</i> , 2005, 57, 448-455.	0.7	277
4	Diffusion-Tensor Imaging Implicates Prefrontal Axonal Injury in Executive Function Impairment Following Very Mild Traumatic Brain Injury. <i>Radiology</i> , 2009, 252, 816-824.	3.6	266
5	MRI study of white matter diffusion anisotropy in schizophrenia. <i>NeuroReport</i> , 2003, 14, 2025-2029.	0.6	242
6	Evaluation of volume-based and surface-based brain image registration methods. <i>NeuroImage</i> , 2010, 51, 214-220.	2.1	237
7	Clinical and Neuropsychological Correlates of White Matter Abnormalities in Recent Onset Schizophrenia. <i>Neuropsychopharmacology</i> , 2008, 33, 976-984.	2.8	220
8	Multifocal White Matter Ultrastructural Abnormalities in Mild Traumatic Brain Injury with Cognitive Disability: A Voxel-Wise Analysis of Diffusion Tensor Imaging. <i>Journal of Neurotrauma</i> , 2008, 25, 1335-1342.	1.7	218
9	Quantitative comparison of algorithms for inter-subject registration of 3D volumetric brain MRI scans. <i>Journal of Neuroscience Methods</i> , 2005, 142, 67-76.	1.3	216
10	White matter development during late adolescence in healthy males: A cross-sectional diffusion tensor imaging study. <i>NeuroImage</i> , 2007, 35, 501-510.	2.1	205
11	White Matter Abnormalities in First-Episode Schizophrenia or Schizoaffective Disorder: A Diffusion Tensor Imaging Study. <i>American Journal of Psychiatry</i> , 2005, 162, 602-605.	4.0	182
12	Diffusion abnormalities in adolescents and young adults with a history of heavy cannabis use. <i>Journal of Psychiatric Research</i> , 2009, 43, 189-204.	1.5	149
13	Preliminary evidence for brain complications in obese adolescents with type 2 diabetes mellitus. <i>Diabetologia</i> , 2010, 53, 2298-2306.	2.9	149
14	Functional magnetic resonance imaging of brain activity in the visual oddball task. <i>Cognitive Brain Research</i> , 2002, 14, 347-356.	3.3	138
15	A DTI study of white matter microstructure in individuals at high genetic risk for schizophrenia. <i>Schizophrenia Research</i> , 2008, 106, 115-124.	1.1	128
16	White-Matter Integrity Predicts Stroop Performance in Patients with Geriatric Depression. <i>Biological Psychiatry</i> , 2007, 61, 1007-1010.	0.7	116
17	Lower Orbital Frontal White Matter Integrity in Adolescents With Bipolar I Disorder. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2009, 48, 79-86.	0.3	111
18	Relationship between suicidality and impulsivity in bipolar I disorder: a diffusion tensor imaging study. <i>Bipolar Disorders</i> , 2012, 14, 80-89.	1.1	108

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19	Analysis of the MIRIAD Data Shows Sex Differences in Hippocampal Atrophy Progression. <i>Journal of Alzheimer's Disease</i> , 2016, 50, 847-857.	1.2	107
20	DTI and impulsivity in schizophrenia: a first voxelwise correlational analysis. <i>NeuroReport</i> , 2004, 15, 2467-2470.	0.6	103
21	A Voxel-Based Diffusion Tensor Imaging Study of White Matter in Bipolar Disorder. <i>Neuropsychopharmacology</i> , 2009, 34, 1590-1600.	2.8	95
22	fMRI study of language activation in schizophrenia, schizoaffective disorder and in individuals genetically at high risk. <i>Schizophrenia Research</i> , 2007, 96, 14-24.	1.1	92
23	Abnormal white matter integrity in healthy apolipoprotein E epsilon4 carriers. <i>NeuroReport</i> , 2005, 16, 1369-1372.	0.6	89
24	Diffusion tensor imaging reliably differentiates patients with schizophrenia from healthy volunteers. <i>Human Brain Mapping</i> , 2011, 32, 1-9.	1.9	89
25	Model-based automatic detection of the anterior and posterior commissures on MRI scans. <i>NeuroImage</i> , 2009, 46, 677-682.	2.1	87
26	White matter integrity and lack of insight in schizophrenia and schizoaffective disorder. <i>Schizophrenia Research</i> , 2011, 128, 76-82.	1.1	77
27	Abnormal white matter microstructure in drug-naïve first episode schizophrenia patients before and after eight weeks of antipsychotic treatment. <i>Schizophrenia Research</i> , 2016, 172, 1-8.	1.1	75
28	Limbic dysregulation is associated with lowered heart rate variability and increased trait anxiety in healthy adults. <i>Human Brain Mapping</i> , 2009, 30, 47-58.	1.9	72
29	A quantitative comparison of motion detection algorithms in fMRI. <i>Magnetic Resonance Imaging</i> , 2001, 19, 959-963.	1.0	62
30	Corpus callosum shape changes in early Alzheimer's disease: an MRI study using the OASIS brain database. <i>Brain Structure and Function</i> , 2014, 219, 343-352.	1.2	58
31	An fMRI study of language processing in people at high genetic risk for schizophrenia. <i>Schizophrenia Research</i> , 2007, 91, 62-72.	1.1	56
32	Selective reduction of cerebral cortex GABA neurons in a late gestation model of fetal alcohol spectrum disorder. <i>Alcohol</i> , 2015, 49, 571-580.	0.8	56
33	Association of Hippocampal Atrophy With Duration of Untreated Psychosis and Molecular Biomarkers During Initial Antipsychotic Treatment of First-Episode Psychosis. <i>JAMA Psychiatry</i> , 2018, 75, 370.	6.0	56
34	A functional MRI study of visual oddball: evidence for frontoparietal dysfunction in subjects at risk for alcoholism. <i>NeuroImage</i> , 2004, 21, 329-339.	2.1	55
35	Prediction of Incipient Alzheimer's Disease Dementia in Patients with Mild Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2016, 55, 269-281.	1.2	55
36	Voxelwise Correlational Analyses of White Matter Integrity in Multiple Cognitive Domains in Schizophrenia. <i>American Journal of Psychiatry</i> , 2006, 163, 2008-2010.	4.0	53

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37	Early detection of schizophrenia by diffusion weighted imaging. <i>Psychiatry Research - Neuroimaging</i> , 2006, 148, 61-66.	0.9	53
38	Differential Patterns of Visual Sensory Alteration Underlying Face Emotion Recognition Impairment and Motion Perception Deficits in Schizophrenia and Autism Spectrum Disorder. <i>Biological Psychiatry</i> , 2019, 86, 557-567.	0.7	51
39	In vivo MRI identifies cholinergic circuitry deficits in a Down syndrome model. <i>Neurobiology of Aging</i> , 2009, 30, 1453-1465.	1.5	48
40	Overlapping and distinct gray and white matter abnormalities in schizophrenia and bipolar I disorder. <i>Bipolar Disorders</i> , 2013, 15, 680-693.	1.1	46
41	Corpus Callosum Area and Brain Volume in Autism Spectrum Disorder: Quantitative Analysis of Structural MRI from the ABIDE Database. <i>Journal of Autism and Developmental Disorders</i> , 2015, 45, 3107-3114.	1.7	43
42	Brain morphometry using diffusion-weighted magnetic resonance imaging: application to schizophrenia. <i>NeuroReport</i> , 2005, 16, 1455-1459.	0.6	41
43	Age and sex effects on corpus callosum morphology across the lifespan. <i>Human Brain Mapping</i> , 2015, 36, 2691-2702.	1.9	41
44	A signal subspace approach for modeling the hemodynamic response function in fMRI. <i>Magnetic Resonance Imaging</i> , 2003, 21, 835-843.	1.0	37
45	Blood pressure and white matter integrity in geriatric depression. <i>Journal of Affective Disorders</i> , 2009, 115, 171-176.	2.0	35
46	Corpus Callosum Shape and Size Changes in Early Alzheimer's Disease: A Longitudinal MRI Study Using the OASIS Brain Database. <i>Journal of Alzheimer's Disease</i> , 2014, 39, 71-78.	1.2	34
47	Lower Prefrontal and Hippocampal Volume and Diffusion Tensor Imaging Differences Reflect Structural and Functional Abnormalities in Abstinent Individuals with Alcohol Use Disorder. <i>Alcoholism: Clinical and Experimental Research</i> , 2018, 42, 1883-1896.	1.4	33
48	Corpus Callosum Atrophy Rate in Mild Cognitive Impairment and Prodromal Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2015, 45, 921-931.	1.2	30
49	Multiresolution fMRI activation detection using translation invariant wavelet transform and statistical analysis based on resampling. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 302-314.	5.4	23
50	A six-month longitudinal evaluation significantly improves accuracy of predicting incipient Alzheimer's disease in mild cognitive impairment. <i>Journal of Neuroradiology</i> , 2017, 44, 381-387.	0.6	23
51	Application of fused lasso logistic regression to the study of corpus callosum thickness in early Alzheimer's disease. <i>Journal of Neuroscience Methods</i> , 2014, 221, 78-84.	1.3	20
52	Sexual Dimorphism and Hemispheric Asymmetry of Hippocampal Volumetric Integrity in Normal Aging and Alzheimer Disease. <i>American Journal of Neuroradiology</i> , 2019, 40, 276-282.	1.2	19
53	Activation detection in fMRI using a maximum energy ratio statistic obtained by adaptive spatial filtering. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 795-805.	5.4	18
54	Impact of inter-subject image registration on group analysis of fMRI data. <i>International Congress Series</i> , 2004, 1265, 49-59.	0.2	18

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55	Controlling the false positive rate in fuzzy clustering using randomization: application to fMRI activation detection. <i>Magnetic Resonance Imaging</i> , 2004, 22, 631-638.	1.0	15
56	Citalopram in first episode schizophrenia: The DECIFER trial. <i>Schizophrenia Research</i> , 2019, 208, 331-337.	1.1	15
57	Corpus callosum shape and morphology in youth across the psychosis Spectrum. <i>Schizophrenia Research</i> , 2018, 199, 266-273.	1.1	11
58	Platelet Function Is Associated With Dementia Risk in the Framingham Heart Study. <i>Journal of the American Heart Association</i> , 2022, 11, e023918.	1.6	11
59	Hippocampal volume and integrity as predictors of cognitive decline in intact elderly. <i>NeuroReport</i> , 2016, 27, 869-873.	0.6	10
60	Global and multi-focal changes in cerebral blood flow during subthalamic nucleus stimulation in Parkinson's disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 697-705.	2.4	7
61	The corpus callosum and recovery of working memory after epilepsy surgery. <i>Epilepsia</i> , 2015, 56, 527-534.	2.6	6
62	Effects of sex, age, and apolipoprotein E genotype on hippocampal parenchymal fraction in cognitively normal older adults. <i>Psychiatry Research - Neuroimaging</i> , 2020, 301, 111107.	0.9	6
63	Hippocampal volumetric integrity in mesial temporal lobe epilepsy: A fast novel method for analysis of structural MRI. <i>Epilepsy Research</i> , 2019, 154, 157-162.	0.8	5
64	Change point analyses in prodromal Alzheimer's disease. <i>Biomarkers in Neuropsychiatry</i> , 2020, 3, 100028.	0.7	4
65	A New Image Similarity Measure with Reduced Sensitivity to Interpolation and Generalizability to Multispectral Image Registration. , 2006, 2006, 3053-6.		2
66	Performance and Function Meet Structure: A White Matter Connection Tuned for Vocal Production. <i>Brain Connectivity</i> , 2018, 8, 628-636.	0.8	1
67	P229: Sex-specific Prediction of Alzheimer's Disease Dementia in MCI. <i>Alzheimer's and Dementia</i> , 2016, 12, P709.	0.4	0
68	P4192: A Sex Difference in the Rate of Hippocampal Atrophy in Alzheimer's Disease. <i>Alzheimer's and Dementia</i> , 2016, 12, P1096.	0.4	0
69	39.2 MULTIMODAL INVESTIGATION OF CONVERGENT AND DIVERGENT PATTERNS OF ATYPICAL VISUAL PROCESSING UNDERLYING FACE EMOTION RECOGNITION AND MOTION PERCEPTION IN SCHIZOPHRENIA AND AUTISM. <i>Schizophrenia Bulletin</i> , 2019, 45, S151-S152.	2.3	0
70	Effect of Citalopram on Hippocampal Atrophy in First-Episode Psychosis: Structural MRI Results From the DECIFER Trial. <i>Biological Psychiatry</i> , 2020, 87, S166.	0.7	0