

Christos Davatzikos

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

414
papers

27,537
citations

83
h-index

155
g-index

460
ext. papers

34,042
ext. citations

6.5
avg, IF

7.22
L-index

#	Paper	IF	Citations
414	Longitudinal magnetic resonance imaging studies of older adults: a shrinking brain. <i>Journal of Neuroscience</i> , 2003 , 23, 3295-301	6.6	962
413	Advancing The Cancer Genome Atlas glioma MRI collections with expert segmentation labels and radiomic features. <i>Scientific Data</i> , 2017 , 4, 170117	8.2	893
412	Deformable medical image registration: a survey. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 1153-901.7	11.7	818
411	HAMMER: hierarchical attribute matching mechanism for elastic registration. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 1421-39	11.7	771
410	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. <i>Radiology</i> , 2020 , 295, 328-338	20.5	734
409	Measurement of radiotracer concentration in brain gray matter using positron emission tomography: MRI-based correction for partial volume effects. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1992 , 12, 571-83	7.3	543
408	Benchmarking of participant-level confound regression strategies for the control of motion artifact in studies of functional connectivity. <i>NeuroImage</i> , 2017 , 154, 174-187	7.9	501
407	Classification of brain tumor type and grade using MRI texture and shape in a machine learning scheme. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 1609-18	4.4	491
406	Imaging cortical association tracts in the human brain using diffusion-tensor-based axonal tracking. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 215-23	4.4	480
405	Effect of Intensive vs Standard Blood Pressure Control on Probable Dementia: A Randomized Clinical Trial. <i>JAMA - Journal of the American Medical Association</i> , 2019 , 321, 553-561	27.4	449
404	Baseline and longitudinal patterns of brain atrophy in MCI patients, and their use in prediction of short-term conversion to AD: results from ADNI. <i>NeuroImage</i> , 2009 , 44, 1415-22	7.9	410
403	Prediction of MCI to AD conversion, via MRI, CSF biomarkers, and pattern classification. <i>Neurobiology of Aging</i> , 2011 , 32, 2322.e19-27	5.6	387
402	Spatial patterns of brain atrophy in MCI patients, identified via high-dimensional pattern classification, predict subsequent cognitive decline. <i>NeuroImage</i> , 2008 , 39, 1731-43	7.9	383
401	Why voxel-based morphometric analysis should be used with great caution when characterizing group differences. <i>NeuroImage</i> , 2004 , 23, 17-20	7.9	362
400	Effects of intensive glucose lowering on brain structure and function in people with type 2 diabetes (ACCORD MIND): a randomised open-label substudy. <i>Lancet Neurology</i> , 2011 , 10, 969-77	24.1	356
399	Voxel-based morphometry using the RAVENS maps: methods and validation using simulated longitudinal atrophy. <i>NeuroImage</i> , 2001 , 14, 1361-9	7.9	330
398	Use of neuroanatomical pattern classification to identify subjects in at-risk mental states of psychosis and predict disease transition. <i>Archives of General Psychiatry</i> , 2009 , 66, 700-12		321

397	Computer-assisted imaging to assess brain structure in healthy and diseased brains. <i>Lancet Neurology, The</i> , 2003 , 2, 79-88	24.1	312
396	Neuroimaging of the Philadelphia neurodevelopmental cohort. <i>NeuroImage</i> , 2014 , 86, 544-53	7.9	307
395	Detection of prodromal Alzheimer's disease via pattern classification of magnetic resonance imaging. <i>Neurobiology of Aging</i> , 2008 , 29, 514-23	5.6	300
394	Evaluation of prostate segmentation algorithms for MRI: the PROMISE12 challenge. <i>Medical Image Analysis</i> , 2014 , 18, 359-73	15.4	294
393	A review on neuroimaging-based classification studies and associated feature extraction methods for Alzheimer's disease and its prodromal stages. <i>NeuroImage</i> , 2017 , 155, 530-548	7.9	279
392	COMPARE: classification of morphological patterns using adaptive regional elements. <i>IEEE Transactions on Medical Imaging</i> , 2007 , 26, 93-105	11.7	277
391	Morphological classification of brains via high-dimensional shape transformations and machine learning methods. <i>NeuroImage</i> , 2004 , 21, 46-57	7.9	269
390	DRAMMS: Deformable registration via attribute matching and mutual-saliency weighting. <i>Medical Image Analysis</i> , 2011 , 15, 622-39	15.4	255
389	Spatial transformation and registration of brain images using elastically deformable models. <i>Computer Vision and Image Understanding</i> , 1997 , 66, 207-22	4.3	254
388	Multiplicative intrinsic component optimization (MICO) for MRI bias field estimation and tissue segmentation. <i>Magnetic Resonance Imaging</i> , 2014 , 32, 913-23	3.3	248
387	Structural and functional biomarkers of prodromal Alzheimer's disease: a high-dimensional pattern classification study. <i>NeuroImage</i> , 2008 , 41, 277-85	7.9	242
386	Accelerated brain aging in schizophrenia and beyond: a neuroanatomical marker of psychiatric disorders. <i>Schizophrenia Bulletin</i> , 2014 , 40, 1140-53	1.3	235
385	A computerized approach for morphological analysis of the corpus callosum. <i>Journal of Computer Assisted Tomography</i> , 1996 , 20, 88-97	2.2	234
384	Puberty-related influences on brain development. <i>Molecular and Cellular Endocrinology</i> , 2006 , 254-255, 154-62	4.4	228
383	Whole-brain morphometric study of schizophrenia revealing a spatially complex set of focal abnormalities. <i>Archives of General Psychiatry</i> , 2005 , 62, 1218-27		217
382	An image-processing system for qualitative and quantitative volumetric analysis of brain images. <i>Journal of Computer Assisted Tomography</i> , 1998 , 22, 827-37	2.2	214
381	White matter hyperintensities and imaging patterns of brain ageing in the general population. <i>Brain</i> , 2016 , 139, 1164-79	11.2	212
380	Linked Sex Differences in Cognition and Functional Connectivity in Youth. <i>Cerebral Cortex</i> , 2015 , 25, 2383-94	3.94	209

379	Longitudinal progression of Alzheimer's-like patterns of atrophy in normal older adults: the SPARE-AD index. <i>Brain</i> , 2009 , 132, 2026-35	11.2	196
378	Computer-assisted segmentation of white matter lesions in 3D MR images using support vector machine. <i>Academic Radiology</i> , 2008 , 15, 300-13	4.3	187
377	Segmentation of prostate boundaries from ultrasound images using statistical shape model. <i>IEEE Transactions on Medical Imaging</i> , 2003 , 22, 539-51	11.7	176
376	Imaging patterns predict patient survival and molecular subtype in glioblastoma via machine learning techniques. <i>Neuro-Oncology</i> , 2016 , 18, 417-25	1	174
375	Linked dimensions of psychopathology and connectivity in functional brain networks. <i>Nature Communications</i> , 2018 , 9, 3003	17.4	169
374	Functional maturation of the executive system during adolescence. <i>Journal of Neuroscience</i> , 2013 , 33, 16249-61	6.6	168
373	Heterogeneous impact of motion on fundamental patterns of developmental changes in functional connectivity during youth. <i>NeuroImage</i> , 2013 , 83, 45-57	7.9	167
372	An image-driven parameter estimation problem for a reaction-diffusion glioma growth model with mass effects. <i>Journal of Mathematical Biology</i> , 2008 , 56, 793-825	2	166
371	Spatial normalization of 3D brain images using deformable models. <i>Journal of Computer Assisted Tomography</i> , 1996 , 20, 656-65	2.2	164
370	Common and Dissociable Dysfunction of the Reward System in Bipolar and Unipolar Depression. <i>Neuropsychopharmacology</i> , 2015 , 40, 2258-68	8.7	149
369	GLISTR: glioma image segmentation and registration. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1941-54	11.7	149
368	Association of Intensive vs Standard Blood Pressure Control With Cerebral White Matter Lesions. <i>JAMA - Journal of the American Medical Association</i> , 2019 , 322, 524-534	27.4	146
367	Right ventricle segmentation from cardiac MRI: a collation study. <i>Medical Image Analysis</i> , 2015 , 19, 187-202	10.4	144
366	Hierarchical active shape models, using the wavelet transform. <i>IEEE Transactions on Medical Imaging</i> , 2003 , 22, 414-23	11.7	144
365	High-dimensional pattern regression using machine learning: from medical images to continuous clinical variables. <i>NeuroImage</i> , 2010 , 50, 1519-35	7.9	138
364	Multi-atlas skull-stripping. <i>Academic Radiology</i> , 2013 , 20, 1566-76	4.3	135
363	Detecting neuroimaging biomarkers for schizophrenia: a meta-analysis of multivariate pattern recognition studies. <i>Neuropsychopharmacology</i> , 2015 , 40, 1742-51	8.7	134
362	Very high-resolution morphometry using mass-preserving deformations and HAMMER elastic registration. <i>NeuroImage</i> , 2003 , 18, 28-41	7.9	134

361	Imaging patterns of brain development and their relationship to cognition. <i>Cerebral Cortex</i> , 2015 , 25, 1676-84	5.1	133
360	Quantitative assessment of structural image quality. <i>NeuroImage</i> , 2018 , 169, 407-418	7.9	129
359	Multiparametric tissue characterization of brain neoplasms and their recurrence using pattern classification of MR images. <i>Academic Radiology</i> , 2008 , 15, 966-77	4.3	127
358	Hippocampus volume loss due to chronic heavy drinking. <i>Alcoholism: Clinical and Experimental Research</i> , 2006 , 30, 1866-70	3.7	127
357	Spatial normalization of diffusion tensor fields. <i>Magnetic Resonance in Medicine</i> , 2003 , 50, 175-82	4.4	126
356	Impact of puberty on the evolution of cerebral perfusion during adolescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 8643-8	11.5	122
355	Alzheimer's disease pattern of brain atrophy predicts cognitive decline in Parkinson's disease. <i>Brain</i> , 2012 , 135, 170-80	11.2	122
354	The five factors of personality and regional cortical variability in the Baltimore longitudinal study of aging. <i>Human Brain Mapping</i> , 2013 , 34, 2829-40	5.9	116
353	A framework for callosal fiber distribution analysis. <i>NeuroImage</i> , 2002 , 17, 1131-43	7.9	116
352	MUSE: MUlTI-atlas region Segmentation utilizing Ensembles of registration algorithms and parameters, and locally optimal atlas selection. <i>NeuroImage</i> , 2016 , 127, 186-195	7.9	113
351	Cognitive function and brain structure in persons with type 2 diabetes mellitus after intensive lowering of blood pressure and lipid levels: a randomized clinical trial. <i>JAMA Internal Medicine</i> , 2014 , 174, 324-33	11.5	112
350	Clinical and multimodal biomarker correlates of ADNI neuropathological findings. <i>Acta Neuropathologica Communications</i> , 2013 , 1, 65	7.3	110
349	Plasma clusterin concentration is associated with longitudinal brain atrophy in mild cognitive impairment. <i>NeuroImage</i> , 2012 , 59, 212-7	7.9	108
348	Early recognition and disease prediction in the at-risk mental states for psychosis using neurocognitive pattern classification. <i>Schizophrenia Bulletin</i> , 2012 , 38, 1200-15	1.3	105
347	Is the spatial distribution of brain lesions associated with closed-head injury predictive of subsequent development of attention-deficit/hyperactivity disorder? Analysis with brain-image database. <i>Radiology</i> , 1999 , 213, 389-94	20.5	104
346	Unaffected family members and schizophrenia patients share brain structure patterns: a high-dimensional pattern classification study. <i>Biological Psychiatry</i> , 2008 , 63, 118-24	7.9	102
345	Measuring size and shape of the hippocampus in MR images using a deformable shape model. <i>NeuroImage</i> , 2002 , 15, 422-34	7.9	101
344	Individualized differential diagnosis of schizophrenia and mood disorders using neuroanatomical biomarkers. <i>Brain</i> , 2015 , 138, 2059-73	11.2	99

343	Comparative evaluation of registration algorithms in different brain databases with varying difficulty: results and insights. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 2039-65	11.7	97
342	CLASSIC: consistent longitudinal alignment and segmentation for serial image computing. <i>NeuroImage</i> , 2006 , 30, 388-99	7.9	97
341	Deformable registration of cortical structures via hybrid volumetric and surface warping. <i>NeuroImage</i> , 2004 , 22, 1790-801	7.9	97
340	Semi-supervised pattern classification of medical images: application to mild cognitive impairment (MCI). <i>NeuroImage</i> , 2011 , 55, 1109-19	7.9	94
339	Measuring temporal morphological changes robustly in brain MR images via 4-dimensional template warping. <i>NeuroImage</i> , 2004 , 21, 1508-17	7.9	94
338	Common Dimensional Reward Deficits Across Mood and Psychotic Disorders: A Connectome-Wide Association Study. <i>American Journal of Psychiatry</i> , 2017 , 174, 657-666	11.9	92
337	GRAM: A framework for geodesic registration on anatomical manifolds. <i>Medical Image Analysis</i> , 2010 , 14, 633-42	15.4	89
336	Integration and relative value of biomarkers for prediction of MCI to AD progression: spatial patterns of brain atrophy, cognitive scores, APOE genotype and CSF biomarkers. <i>NeuroImage: Clinical</i> , 2014 , 4, 164-73	5.3	88
335	Emerging Applications of Artificial Intelligence in Neuro-Oncology. <i>Radiology</i> , 2019 , 290, 607-618	20.5	87
334	Correspondence between in vivo (11)C-PiB-PET amyloid imaging and postmortem, region-matched assessment of plaques. <i>Acta Neuropathologica</i> , 2012 , 124, 823-31	14.3	86
333	Imaging Surrogates of Infiltration Obtained Via Multiparametric Imaging Pattern Analysis Predict Subsequent Location of Recurrence of Glioblastoma. <i>Neurosurgery</i> , 2016 , 78, 572-80	3.2	84
332	Mitigating head motion artifact in functional connectivity MRI. <i>Nature Protocols</i> , 2018 , 13, 2801-2826	18.8	84
331	Radiomic MRI signature reveals three distinct subtypes of glioblastoma with different clinical and molecular characteristics, offering prognostic value beyond IDH1. <i>Scientific Reports</i> , 2018 , 8, 5087	4.9	83
330	Heterogeneity of neuroanatomical patterns in prodromal Alzheimer's disease: links to cognition, progression and biomarkers. <i>Brain</i> , 2017 , 140, 735-747	11.2	80
329	Structural Brain Abnormalities in Youth With Psychosis Spectrum Symptoms. <i>JAMA Psychiatry</i> , 2016 , 73, 515-24	14.5	79
328	Epidermal Growth Factor Receptor Extracellular Domain Mutations in Glioblastoma Present Opportunities for Clinical Imaging and Therapeutic Development. <i>Cancer Cell</i> , 2018 , 34, 163-177.e7	24.3	79
327	Harmonization of large MRI datasets for the analysis of brain imaging patterns throughout the lifespan. <i>NeuroImage</i> , 2020 , 208, 116450	7.9	79
326	Multisite Machine Learning Analysis Provides a Robust Structural Imaging Signature of Schizophrenia Detectable Across Diverse Patient Populations and Within Individuals. <i>Schizophrenia Bulletin</i> , 2018 , 44, 1035-1044	1.3	77

325	Analytic estimation of statistical significance maps for support vector machine based multi-variate image analysis and classification. <i>NeuroImage</i> , 2013 , 78, 270-83	7.9	75
324	Finding parametric representations of the cortical sulci using an active contour model. <i>Medical Image Analysis</i> , 1997 , 1, 295-315	15.4	74
323	Statistical representation of high-dimensional deformation fields with application to statistically constrained 3D warping. <i>Medical Image Analysis</i> , 2006 , 10, 740-51	15.4	74
322	Nonlinear Association Between Cerebrospinal Fluid and Florbetapir F-18 β Amyloid Measures Across the Spectrum of Alzheimer Disease. <i>JAMA Neurology</i> , 2015 , 72, 571-81	17.2	73
321	Cross-sectional and longitudinal association of body mass index and brain volume. <i>Human Brain Mapping</i> , 2014 , 35, 75-88	5.9	73
320	Simulating deformations of MR brain images for validation of atlas-based segmentation and registration algorithms. <i>NeuroImage</i> , 2006 , 33, 855-66	7.9	73
319	Deformable registration of brain tumor images via a statistical model of tumor-induced deformation. <i>Medical Image Analysis</i> , 2006 , 10, 752-63	15.4	73
318	Imaging genomics in cancer research: limitations and promises. <i>British Journal of Radiology</i> , 2016 , 89, 20151030	3.4	72
317	Vascular factors and multiple measures of early brain health: CARDIA brain MRI study. <i>PLoS ONE</i> , 2015 , 10, e0122138	3.7	71
316	Sex differences in the effect of puberty on hippocampal morphology. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2014 , 53, 341-50.e1	7.2	71
315	ORBIT: a multiresolution framework for deformable registration of brain tumor images. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 1003-17	11.7	71
314	Spatiotemporal maturation patterns of murine brain quantified by diffusion tensor MRI and deformation-based morphometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 6978-83	11.5	71
313	Deformable registration of glioma images using EM algorithm and diffusion reaction modeling. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 375-90	11.7	70
312	Automated morphometric study of brain variation in XXY males. <i>NeuroImage</i> , 2004 , 23, 648-53	7.9	70
311	Pattern analysis of dynamic susceptibility contrast-enhanced MR imaging demonstrates peritumoral tissue heterogeneity. <i>Radiology</i> , 2014 , 273, 502-10	20.5	69
310	Motion artifact in studies of functional connectivity: Characteristics and mitigation strategies. <i>Human Brain Mapping</i> , 2019 , 40, 2033-2051	5.9	69
309	Using a statistical shape model to extract sulcal curves on the outer cortex of the human brain. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 513-24	11.7	68
308	Registering histologic and MR images of prostate for image-based cancer detection. <i>Academic Radiology</i> , 2007 , 14, 1367-81	4.3	67

307	Identifying Sparse Connectivity Patterns in the brain using resting-state fMRI. <i>NeuroImage</i> , 2015 , 105, 286-99	7.9	65
306	Neuronal injury biomarkers and prognosis in ADNI subjects with normal cognition. <i>Acta Neuropathologica Communications</i> , 2014 , 2, 26	7.3	65
305	Non-diffeomorphic registration of brain tumor images by simulating tissue loss and tumor growth. <i>NeuroImage</i> , 2009 , 46, 762-74	7.9	65
304	HYDRA: Revealing heterogeneity of imaging and genetic patterns through a multiple max-margin discriminative analysis framework. <i>NeuroImage</i> , 2017 , 145, 346-364	7.9	64
303	Cancer imaging phenomics toolkit: quantitative imaging analytics for precision diagnostics and predictive modeling of clinical outcome. <i>Journal of Medical Imaging</i> , 2018 , 5, 011018	2.6	64
302	Volumetric Analysis from a Harmonized Multisite Brain MRI Study of a Single Subject with Multiple Sclerosis. <i>American Journal of Neuroradiology</i> , 2017 , 38, 1501-1509	4.4	62
301	Individual Variation in Functional Topography of Association Networks in Youth. <i>Neuron</i> , 2020 , 106, 340-353.e861	13.9	61
300	Optimized prostate biopsy via a statistical atlas of cancer spatial distribution. <i>Medical Image Analysis</i> , 2004 , 8, 139-50	15.4	60
299	Patterns of coordinated cortical remodeling during adolescence and their associations with functional specialization and evolutionary expansion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3527-3532	11.5	59
298	T1rho MRI of Alzheimer's disease. <i>NeuroImage</i> , 2008 , 41, 1199-205	7.9	59
297	Brain and White Matter Hyperintensity Volumes After 10 Years of Random Assignment to Lifestyle Intervention. <i>Diabetes Care</i> , 2016 , 39, 764-71	14.6	59
296	MRI signatures of brain age and disease over the lifespan based on a deep brain network and 14 468 individuals worldwide. <i>Brain</i> , 2020 , 143, 2312-2324	11.2	58
295	Crowdsourced estimation of cognitive decline and resilience in Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2016 , 12, 645-53	1.2	58
294	Detection of EGFRvIII in Glioblastoma via Perfusion Magnetic Resonance Imaging Signature Consistent with Deep Peritumoral Infiltration: The -Index. <i>Clinical Cancer Research</i> , 2017 , 23, 4724-4734	12.9	57
293	Finding imaging patterns of structural covariance via Non-Negative Matrix Factorization. <i>NeuroImage</i> , 2015 , 108, 1-16	7.9	56
292	Systematic review of structural and functional neuroimaging findings in children and adults with CKD. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2013 , 8, 1429-48	6.9	56
291	Quantification of brain maturation and growth patterns in C57BL/6J mice via computational neuroanatomy of diffusion tensor images. <i>Cerebral Cortex</i> , 2009 , 19, 675-87	5.1	56
290	In vivo evaluation of EGFRvIII mutation in primary glioblastoma patients via complex multiparametric MRI signature. <i>Neuro-Oncology</i> , 2018 , 20, 1068-1079	1	55

289	Correlating Cognitive Decline with White Matter Lesion and Brain Atrophy Magnetic Resonance Imaging Measurements in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2015 , 48, 987-94	4.3	55
288	Functional principal component model for high-dimensional brain imaging. <i>NeuroImage</i> , 2011 , 58, 772-84	7.9	55
287	Unsupervised learning of functional network dynamics in resting state fMRI. <i>Lecture Notes in Computer Science</i> , 2013 , 23, 426-37	0.9	54
286	Two distinct neuroanatomical subtypes of schizophrenia revealed using machine learning. <i>Brain</i> , 2020 , 143, 1027-1038	11.2	53
285	Evaluation of non-negative matrix factorization of grey matter in age prediction. <i>NeuroImage</i> , 2018 , 173, 394-410	7.9	53
284	Midlife obesity and trajectories of brain volume changes in older adults. <i>Human Brain Mapping</i> , 2012 , 33, 2204-10	5.9	53
283	Estimating topology preserving and smooth displacement fields. <i>IEEE Transactions on Medical Imaging</i> , 2004 , 23, 868-80	11.7	53
282	Measuring brain lesion progression with a supervised tissue classification system. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 620-7	0.9	53
281	Generative-discriminative basis learning for medical imaging. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 51-69	11.7	52
280	Heterogeneity of structural brain changes in subtypes of schizophrenia revealed using magnetic resonance imaging pattern analysis. <i>Schizophrenia Bulletin</i> , 2015 , 41, 74-84	1.3	51
279	CSF Apo-E levels associate with cognitive decline and MRI changes. <i>Acta Neuropathologica</i> , 2014 , 127, 621-32	14.3	51
278	Simulation of tissue atrophy using a topology preserving transformation model. <i>IEEE Transactions on Medical Imaging</i> , 2006 , 25, 649-52	11.7	51
277	White matter lesions: Spatial heterogeneity, links to risk factors, cognition, genetics, and atrophy. <i>Neurology</i> , 2018 , 91, e964-e975	6.5	50
276	Early marker for Alzheimer's disease: hippocampus T1rho (T(1rho)) estimation. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 29, 1008-12	5.6	50
275	Suspected non-AD pathology in mild cognitive impairment. <i>Neurobiology of Aging</i> , 2015 , 36, 3152-3162	5.6	49
274	Investigating machine learning techniques for MRI-based classification of brain neoplasms. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2011 , 6, 821-8	3.9	49
273	Targeted prostate biopsy using statistical image analysis. <i>IEEE Transactions on Medical Imaging</i> , 2007 , 26, 779-88	11.7	48
272	White matter hyperintensities are more highly associated with preclinical Alzheimer's disease than imaging and cognitive markers of neurodegeneration. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2016 , 4, 18-27	5.2	48

271	Finite element modeling of brain tumor mass-effect from 3D medical images. <i>Lecture Notes in Computer Science</i> , 2005 , 8, 400-8	0.9	46
270	Combining generative models for multifocal glioma segmentation and registration. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 763-70	0.9	45
269	T1rho (T1 ρ)MR imaging in Alzheimer's disease and Parkinson's disease with and without dementia. <i>Journal of Neurology</i> , 2011 , 258, 380-5	5.5	44
268	Use of neuroanatomical pattern regression to predict the structural brain dynamics of vulnerability and transition to psychosis. <i>Schizophrenia Research</i> , 2010 , 123, 175-87	3.6	44
267	Radiomic signature of infiltration in peritumoral edema predicts subsequent recurrence in glioblastoma: implications for personalized radiotherapy planning. <i>Journal of Medical Imaging</i> , 2018 , 5, 021219	2.6	44
266	Vascular risk factors, cerebrovascular reactivity, and the default-mode brain network. <i>NeuroImage</i> , 2015 , 115, 7-16	7.9	43
265	Effect of Cerebral Embolic Protection Devices on CNS Infarction in Surgical Aortic Valve Replacement: A Randomized Clinical Trial. <i>JAMA - Journal of the American Medical Association</i> , 2017 , 318, 536-547	27.4	43
264	Morphometric analysis of cortical sulci using parametric ribbons: a study of the central sulcus. <i>Journal of Computer Assisted Tomography</i> , 2002 , 26, 298-307	2.2	43
263	Neuroanatomical pattern classification in a population-based sample of first-episode schizophrenia. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2013 , 43, 116-25	5.5	42
262	Determining correspondence in 3-D MR brain images using attribute vectors as morphological signatures of voxels. <i>IEEE Transactions on Medical Imaging</i> , 2004 , 23, 1276-91	11.7	42
261	GLISTRboost: Combining Multimodal MRI Segmentation, Registration, and Biophysical Tumor Growth Modeling with Gradient Boosting Machines for Glioma Segmentation. <i>Lecture Notes in Computer Science</i> , 2016 , 9556, 144-155	0.9	41
260	Spatial patterns of structural brain changes in type 2 diabetic patients and their longitudinal progression with intensive control of blood glucose. <i>Diabetes Care</i> , 2015 , 38, 97-104	14.6	40
259	Multilevel Functional Principal Component Analysis for High-Dimensional Data. <i>Journal of Computational and Graphical Statistics</i> , 2011 , 20, 852-873	1.4	40
258	CHIMERA: Clustering of Heterogeneous Disease Effects via Distribution Matching of Imaging Patterns. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 612-21	11.7	39
257	Neuroanatomical classification in a population-based sample of psychotic major depression and bipolar I disorder with 1 year of diagnostic stability. <i>BioMed Research International</i> , 2014 , 2014, 706157	3	38
256	Breast DCE-MRI Kinetic Heterogeneity Tumor Markers: Preliminary Associations With Neoadjuvant Chemotherapy Response. <i>Translational Oncology</i> , 2015 , 8, 154-62	4.9	37
255	Lack of association between 11C-PiB and longitudinal brain atrophy in non-demented older individuals. <i>Neurobiology of Aging</i> , 2011 , 32, 2123-30	5.6	37
254	Sex differences in brain aging and predictors of neurodegeneration in cognitively healthy older adults. <i>Neurobiology of Aging</i> , 2019 , 81, 146-156	5.6	36

253	A robust framework for soft tissue simulations with application to modeling brain tumor mass effect in 3D MR images. <i>Physics in Medicine and Biology</i> , 2007 , 52, 6893-908	3.8	36
252	Population-based MRI atlases of spatial distribution are specific to patient and tumor characteristics in glioblastoma. <i>NeuroImage: Clinical</i> , 2016 , 12, 34-40	5.3	36
251	Longitudinally and inter-site consistent multi-atlas based parcellation of brain anatomy using harmonized atlases. <i>NeuroImage</i> , 2018 , 166, 71-78	7.9	36
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- 1 IMG-15. Radiomic Profiling of Pediatric Low-Grade Glioma Improves Risk Stratification Beyond Clinical Measures. *Neuro-Oncology*, **2022**, 24, i80-i80

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