

# Christos Davatzikos

## List of Publications by Year in descending order

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434  
papers

39,253  
citations

2970

93  
h-index

3822

178  
g-index

460  
all docs

460  
docs citations

460  
times ranked

34137  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. <i>Radiology</i> , 2020, 295, 328-338.	3.6	1,869
2	Advancing The Cancer Genome Atlas glioma MRI collections with expert segmentation labels and radiomic features. <i>Scientific Data</i> , 2017, 4, 170117.	2.4	1,555
3	Longitudinal Magnetic Resonance Imaging Studies of Older Adults: A Shrinking Brain. <i>Journal of Neuroscience</i> , 2003, 23, 3295-3301.	1.7	1,168
4	Deformable Medical Image Registration: A Survey. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 1153-1190.	5.4	1,094
5	HAMMER: hierarchical attribute matching mechanism for elastic registration. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 1421-1439.	5.4	953
6	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.	2.1	842
7	Effect of Intensive vs Standard Blood Pressure Control on Probable Dementia. <i>JAMA - Journal of the American Medical Association</i> , 2019, 321, 553.	3.8	786
8	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, 1609-1618.	1.9	681
9	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, 571-583.	2.4	653
10	Imaging cortical association tracts in the human brain using diffusion-tensor-based axonal tracking. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 215-223.	1.9	534
11	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, 1415-1422.	2.1	484
12	Evaluation of prostate segmentation algorithms for MRI: The PROMISE12 challenge. <i>Medical Image Analysis</i> , 2014, 18, 359-373.	7.0	469
13	Prediction of MCI to AD conversion, via MRI, CSF biomarkers, and pattern classification. <i>Neurobiology of Aging</i> , 2011, 32, 2322.e19-2322.e27.	1.5	468
14	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.	2.1	463
15	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> , The, 2011, 10, 969-977.	4.9	455
16	Neuroimaging of the Philadelphia Neurodevelopmental Cohort. <i>NeuroImage</i> , 2014, 86, 544-553.	2.1	452
17	Spatial patterns of brain atrophy in MCI patients, identified via high-dimensional pattern classification, predict subsequent cognitive decline. <i>NeuroImage</i> , 2008, 39, 1731-1743.	2.1	445
18	Why voxel-based morphometric analysis should be used with great caution when characterizing group differences. <i>NeuroImage</i> , 2004, 23, 17-20.	2.1	411

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19	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.	13.8	382
20	Voxel-Based Morphometry Using the RAVENS Maps: Methods and Validation Using Simulated Longitudinal Atrophy. <i>NeuroImage</i> , 2001, 14, 1361-1369.	2.1	381
21	Accelerated Brain Aging in Schizophrenia and Beyond: A Neuroanatomical Marker of Psychiatric Disorders. <i>Schizophrenia Bulletin</i> , 2014, 40, 1140-1153.	2.3	369
22	Computer-assisted imaging to assess brain structure in healthy and diseased brains. <i>Lancet Neurology</i> , The, 2003, 2, 79-88.	4.9	354
23	Detection of prodromal Alzheimer's disease via pattern classification of magnetic resonance imaging. <i>Neurobiology of Aging</i> , 2008, 29, 514-523.	1.5	343
24	DRAMMS: Deformable registration via attribute matching and mutual-saliency weighting. <i>Medical Image Analysis</i> , 2011, 15, 622-639.	7.0	335
25	Linked dimensions of psychopathology and connectivity in functional brain networks. <i>Nature Communications</i> , 2018, 9, 3003.	5.8	323
26	COMPARE: Classification of Morphological Patterns Using Adaptive Regional Elements. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 93-105.	5.4	320
27	Multiplicative intrinsic component optimization (MICO) for MRI bias field estimation and tissue segmentation. <i>Magnetic Resonance Imaging</i> , 2014, 32, 913-923.	1.0	318
28	Spatial Transformation and Registration of Brain Images Using Elastically Deformable Models. <i>Computer Vision and Image Understanding</i> , 1997, 66, 207-222.	3.0	317
29	White matter hyperintensities and imaging patterns of brain ageing in the general population. <i>Brain</i> , 2016, 139, 1164-1179.	3.7	314
30	Morphological classification of brains via high-dimensional shape transformations and machine learning methods. <i>NeuroImage</i> , 2004, 21, 46-57.	2.1	304
31	Linked Sex Differences in Cognition and Functional Connectivity in Youth. <i>Cerebral Cortex</i> , 2015, 25, 2383-2394.	1.6	302
32	Quantitative assessment of structural image quality. <i>NeuroImage</i> , 2018, 169, 407-418.	2.1	291
33	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.	3.8	285
34	Structural and functional biomarkers of prodromal Alzheimer's disease: A high-dimensional pattern classification study. <i>NeuroImage</i> , 2008, 41, 277-285.	2.1	283
35	A Computerized Approach for Morphological Analysis of the Corpus Callosum. <i>Journal of Computer Assisted Tomography</i> , 1996, 20, 88-97.	0.5	283
36	An Image-Processing System for Qualitative and Quantitative Volumetric Analysis of Brain Images. <i>Journal of Computer Assisted Tomography</i> , 1998, 22, 827-837.	0.5	264

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37	Harmonization of large MRI datasets for the analysis of brain imaging patterns throughout the lifespan. <i>NeuroImage</i> , 2020, 208, 116450.	2.1	260
38	Puberty-related influences on brain development. <i>Molecular and Cellular Endocrinology</i> , 2006, 254-255, 154-162.	1.6	252
39	Longitudinal progression of Alzheimer's-like patterns of atrophy in normal older adults: the SPARE-AD index. <i>Brain</i> , 2009, 132, 2026-2035.	3.7	249
40	Imaging patterns predict patient survival and molecular subtype in glioblastoma via machine learning techniques. <i>Neuro-Oncology</i> , 2016, 18, 417-425.	0.6	243
41	Whole-Brain Morphometric Study of Schizophrenia Revealing a Spatially Complex Set of Focal Abnormalities. <i>Archives of General Psychiatry</i> , 2005, 62, 1218.	13.8	242
42	Functional Maturation of the Executive System during Adolescence. <i>Journal of Neuroscience</i> , 2013, 33, 16249-16261.	1.7	225
43	Heterogeneous impact of motion on fundamental patterns of developmental changes in functional connectivity during youth. <i>NeuroImage</i> , 2013, 83, 45-57.	2.1	223
44	Computer-Assisted Segmentation of White Matter Lesions in 3D MR Images Using Support Vector Machine. <i>Academic Radiology</i> , 2008, 15, 300-313.	1.3	219
45	Segmentation of prostate boundaries from ultrasound images using statistical shape model. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 539-551.	5.4	213
46	Mitigating head motion artifact in functional connectivity MRI. <i>Nature Protocols</i> , 2018, 13, 2801-2826.	5.5	211
47	Common and Dissociable Dysfunction of the Reward System in Bipolar and Unipolar Depression. <i>Neuropsychopharmacology</i> , 2015, 40, 2258-2268.	2.8	210
48	MUSE: MUlti-atlas region Segmentation utilizing Ensembles of registration algorithms and parameters, and locally optimal atlas selection. <i>NeuroImage</i> , 2016, 127, 186-195.	2.1	210
49	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.	0.8	209
50	Spatial Normalization of 3D Brain Images Using Deformable Models. <i>Journal of Computer Assisted Tomography</i> , 1996, 20, 656-665.	0.5	197
51	Multi-Atlas Skull-Stripping. <i>Academic Radiology</i> , 2013, 20, 1566-1576.	1.3	196
52	Imaging Patterns of Brain Development and their Relationship to Cognition. <i>Cerebral Cortex</i> , 2015, 25, 1676-1684.	1.6	196
53	Right ventricle segmentation from cardiac MRI: A collation study. <i>Medical Image Analysis</i> , 2015, 19, 187-202.	7.0	189
54	Hierarchical active shape models, using the wavelet transform. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 414-423.	5.4	185

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55	MRI signatures of brain age and disease over the lifespan based on a deep brain network and 14 individuals worldwide. <i>Brain</i> , 2020, 143, 2312-2324.	3.7	183
56	Detecting Neuroimaging Biomarkers for Schizophrenia: A Meta-Analysis of Multivariate Pattern Recognition Studies. <i>Neuropsychopharmacology</i> , 2015, 40, 1742-1751.	2.8	182
57	GLISTR: Glioma Image Segmentation and Registration. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 1941-1954.	5.4	181
58	Multiparametric Tissue Characterization of Brain Neoplasms and Their Recurrence Using Pattern Classification of MR Images. <i>Academic Radiology</i> , 2008, 15, 966-977.	1.3	171
59	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, 8643-8648.	3.3	169
60	Individual Variation in Functional Topography of Association Networks in Youth. <i>Neuron</i> , 2020, 106, 340-353.e8.	3.8	162
61	Emerging Applications of Artificial Intelligence in Neuro-Oncology. <i>Radiology</i> , 2019, 290, 607-618.	3.6	159
62	Two distinct neuroanatomical subtypes of schizophrenia revealed using machine learning. <i>Brain</i> , 2020, 143, 1027-1038.	3.7	158
63	High-dimensional pattern regression using machine learning: From medical images to continuous clinical variables. <i>NeuroImage</i> , 2010, 50, 1519-1535.	2.1	154
64	Machine learning in neuroimaging: Progress and challenges. <i>NeuroImage</i> , 2019, 197, 652-656.	2.1	154
65	Alzheimer's disease pattern of brain atrophy predicts cognitive decline in Parkinson's disease. <i>Brain</i> , 2012, 135, 170-180.	3.7	149
66	Very High-Resolution Morphometry Using Mass-Preserving Deformations and HAMMER Elastic Registration. <i>NeuroImage</i> , 2003, 18, 28-41.	2.1	148
67	Common Dimensional Reward Deficits Across Mood and Psychotic Disorders: A Connectome-Wide Association Study. <i>American Journal of Psychiatry</i> , 2017, 174, 657-666.	4.0	147
68	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.	7.7	145
69	The five factors of personality and regional cortical variability in the baltimore longitudinal study of aging. <i>Human Brain Mapping</i> , 2013, 34, 2829-2840.	1.9	144
70	Comparative Evaluation of Registration Algorithms in Different Brain Databases With Varying Difficulty: Results and Insights. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 2039-2065.	5.4	144
71	Spatial normalization of diffusion tensor fields. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 175-182.	1.9	143
72	Cognitive Function and Brain Structure in Persons With Type 2 Diabetes Mellitus After Intensive Lowering of Blood Pressure and Lipid Levels. <i>JAMA Internal Medicine</i> , 2014, 174, 324.	2.6	142

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73	Hippocampus Volume Loss Due to Chronic Heavy Drinking. <i>Alcoholism: Clinical and Experimental Research</i> , 2006, 30, 1866-1870.	1.4	141
74	Clinical and multimodal biomarker correlates of ADNI neuropathological findings. <i>Acta Neuropathologica Communications</i> , 2013, 1, 65.	2.4	138
75	Individualized differential diagnosis of schizophrenia and mood disorders using neuroanatomical biomarkers. <i>Brain</i> , 2015, 138, 2059-2073.	3.7	132
76	Longitudinal ComBat: A method for harmonizing longitudinal multi-scanner imaging data. <i>NeuroImage</i> , 2020, 220, 117129.	2.1	132
77	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.	3.3	130
78	Finding imaging patterns of structural covariance via Non-Negative Matrix Factorization. <i>NeuroImage</i> , 2015, 108, 1-16.	2.1	127
79	A Framework for Callosal Fiber Distribution Analysis. <i>NeuroImage</i> , 2002, 17, 1131-1143.	2.1	126
80	HYDRA: Revealing heterogeneity of imaging and genetic patterns through a multiple max-margin discriminative analysis framework. <i>NeuroImage</i> , 2017, 145, 346-364.	2.1	125
81	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.	1.6	124
82	Plasma clusterin concentration is associated with longitudinal brain atrophy in mild cognitive impairment. <i>NeuroImage</i> , 2012, 59, 212-217.	2.1	123
83	Early Recognition and Disease Prediction in the At-Risk Mental States for Psychosis Using Neurocognitive Pattern Classification. <i>Schizophrenia Bulletin</i> , 2012, 38, 1200-1215.	2.3	121
84	Measuring Size and Shape of the Hippocampus in MR Images Using a Deformable Shape Model. <i>NeuroImage</i> , 2002, 15, 422-434.	2.1	119
85	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.	2.3	118
86	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, 389-394.	3.6	117
87	Semi-supervised pattern classification of medical images: Application to mild cognitive impairment (MCI). <i>NeuroImage</i> , 2011, 55, 1109-1119.	2.1	117
88	Imaging Surrogates of Infiltration Obtained Via Multiparametric Imaging Pattern Analysis Predict Subsequent Location of Recurrence of Glioblastoma. <i>Neurosurgery</i> , 2016, 78, 572-580.	0.6	116
89	Structural Brain Abnormalities in Youth With Psychosis Spectrum Symptoms. <i>JAMA Psychiatry</i> , 2016, 73, 515.	6.0	116
90	Deformable registration of cortical structures via hybrid volumetric and surface warping. <i>NeuroImage</i> , 2004, 22, 1790-1801.	2.1	114

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91	Heterogeneity of neuroanatomical patterns in prodromal Alzheimer's disease: links to cognition, progression and biomarkers. <i>Brain</i> , 2017, 140, aww319.	3.7	114
92	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, 164-173.	1.4	112
93	Unaffected Family Members and Schizophrenia Patients Share Brain Structure Patterns: A High-Dimensional Pattern Classification Study. <i>Biological Psychiatry</i> , 2008, 63, 118-124.	0.7	111
94	Cancer imaging phenomics toolkit: quantitative imaging analytics for precision diagnostics and predictive modeling of clinical outcome. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	110
95	CLASSIC: Consistent Longitudinal Alignment and Segmentation for Serial Image Computing. <i>NeuroImage</i> , 2006, 30, 388-399.	2.1	109
96	Cross-sectional and longitudinal association of body mass index and brain volume. <i>Human Brain Mapping</i> , 2014, 35, 75-88.	1.9	106
97	Measuring temporal morphological changes robustly in brain MR images via 4-dimensional template warping. <i>NeuroImage</i> , 2004, 21, 1508-1517.	2.1	104
98	Motion artifact in studies of functional connectivity: Characteristics and mitigation strategies. <i>Human Brain Mapping</i> , 2019, 40, 2033-2051.	1.9	104
99	GRAM: A framework for geodesic registration on anatomical manifolds. <i>Medical Image Analysis</i> , 2010, 14, 633-642.	7.0	102
100	Vascular Factors and Multiple Measures of Early Brain Health: CARDIA Brain MRI Study. <i>PLoS ONE</i> , 2015, 10, e0122138.	1.1	102
101	Analytic estimation of statistical significance maps for support vector machine based multi-variate image analysis and classification. <i>NeuroImage</i> , 2013, 78, 270-283.	2.1	100
102	Evaluation of non-negative matrix factorization of grey matter in age prediction. <i>NeuroImage</i> , 2018, 173, 394-410.	2.1	99
103	Correspondence between in vivo 11C-PiB-PET amyloid imaging and postmortem, region-matched assessment of plaques. <i>Acta Neuropathologica</i> , 2012, 124, 823-831.	3.9	98
104	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.	1.2	95
105	White matter lesions. <i>Neurology</i> , 2018, 91, e964-e975.	1.5	92
106	The Brain Chart of Aging: Machine learning analytics reveals links between brain aging, white matter disease, amyloid burden, and cognition in the iSTAGING consortium of 10,216 harmonized MR scans. <i>Alzheimer's and Dementia</i> , 2021, 17, 89-102.	0.4	92
107	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, 513-524.	5.4	90
108	Imaging genomics in cancer research: limitations and promises. <i>British Journal of Radiology</i> , 2016, 89, 20151030.	1.0	90

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109	<i>In vivo</i> evaluation of EGFRvIII mutation in primary glioblastoma patients via complex multiparametric MRI signature. <i>Neuro-Oncology</i> , 2018, 20, 1068-1079.	0.6	90
110	ORBIT: A Multiresolution Framework for Deformable Registration of Brain Tumor Images. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 1003-1017.	5.4	89
111	Quantification of Brain Maturation and Growth Patterns in C57BL/6J Mice via Computational Neuroanatomy of Diffusion Tensor Images. <i>Cerebral Cortex</i> , 2009, 19, 675-687.	1.6	89
112	Deformable registration of brain tumor images via a statistical model of tumor-induced deformation. <i>Medical Image Analysis</i> , 2006, 10, 752-763.	7.0	87
113	Nonlinear Association Between Cerebrospinal Fluid and Florbetapir F-18 $\tau$ -Amyloid Measures Across the Spectrum of Alzheimer Disease. <i>JAMA Neurology</i> , 2015, 72, 571.	4.5	87
114	Disentangling Heterogeneity in Alzheimer's Disease and Related Dementias Using Data-Driven Methods. <i>Biological Psychiatry</i> , 2020, 88, 70-82.	0.7	87
115	Pattern Analysis of Dynamic Susceptibility Contrast-enhanced MR Imaging Demonstrates Peritumoral Tissue Heterogeneity. <i>Radiology</i> , 2014, 273, 502-510.	3.6	86
116	Finding parametric representations of the cortical sulci using an active contour model. <i>Medical Image Analysis</i> , 1997, 1, 295-315.	7.0	84
117	Simulating deformations of MR brain images for validation of atlas-based segmentation and registration algorithms. <i>NeuroImage</i> , 2006, 33, 855-866.	2.1	84
118	Deformable Registration of Glioma Images Using EM Algorithm and Diffusion Reaction Modeling. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 375-390.	5.4	84
119	Sex Differences in the Effect of Puberty on Hippocampal Morphology. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2014, 53, 341-350.e1.	0.3	83
120	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, 6978-6983.	3.3	82
121	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, 1.	0.8	82
122	Identifying Sparse Connectivity Patterns in the brain using resting-state fMRI. <i>NeuroImage</i> , 2015, 105, 286-299.	2.1	81
123	Statistical representation of high-dimensional deformation fields with application to statistically constrained 3D warping. <i>Medical Image Analysis</i> , 2006, 10, 740-751.	7.0	80
124	Automated morphometric study of brain variation in XXY males. <i>NeuroImage</i> , 2004, 23, 648-653.	2.1	79
125	Brain and White Matter Hyperintensity Volumes After 10 Years of Random Assignment to Lifestyle Intervention. <i>Diabetes Care</i> , 2016, 39, 764-771.	4.3	79
126	<i>In Vivo</i> Detection of EGFRvIII in Glioblastoma via Perfusion Magnetic Resonance Imaging Signature Consistent with Deep Peritumoral Infiltration: The $\lambda$ -Index. <i>Clinical Cancer Research</i> , 2017, 23, 4724-4734.	3.2	79



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127	Non-diffeomorphic registration of brain tumor images by simulating tissue loss and tumor growth. <i>NeuroImage</i> , 2009, 46, 762-774.	2.1	77
128	Neuronal injury biomarkers and prognosis in ADNI subjects with normal cognition. <i>Acta Neuropathologica Communications</i> , 2014, 2, 26.	2.4	77
129	Evidence for Dissociable Linkage of Dimensions of Psychopathology to Brain Structure in Youths. <i>American Journal of Psychiatry</i> , 2019, 176, 1000-1009.	4.0	77
130	Registering Histologic and MR Images of Prostate for Image-based Cancer Detection. <i>Academic Radiology</i> , 2007, 14, 1367-1381.	1.3	75
131	Differential cortical microstructural maturation in the preterm human brain with diffusion kurtosis and tensor imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4681-4688.	3.3	73
132	T1 $\rho$ -MRI of Alzheimer's disease. <i>NeuroImage</i> , 2008, 41, 1199-1205.	2.1	72
133	Heterogeneity of Structural Brain Changes in Subtypes of Schizophrenia Revealed Using Magnetic Resonance Imaging Pattern Analysis. <i>Schizophrenia Bulletin</i> , 2015, 41, 74-84.	2.3	72
134	Crowdsourced estimation of cognitive decline and resilience in Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2016, 12, 645-653.	0.4	72
135	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.	1.2	71
136	Optimized prostate biopsy via a statistical atlas of cancer spatial distribution. <i>Medical Image Analysis</i> , 2004, 8, 139-150.	7.0	70
137	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, 1429-1448.	2.2	69
138	Neurobiological Divergence of the Positive and Negative Schizophrenia Subtypes Identified on a New Factor Structure of Psychopathology Using Non-negative Factorization: An International Machine Learning Study. <i>Biological Psychiatry</i> , 2020, 87, 282-293.	0.7	68
139	Unsupervised Learning of Functional Network Dynamics in Resting State fMRI. <i>Lecture Notes in Computer Science</i> , 2013, 23, 426-437.	1.0	67
140	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, 987-994.	1.2	67
141	Vascular risk factors, cerebrovascular reactivity, and the default-mode brain network. <i>NeuroImage</i> , 2015, 115, 7-16.	2.1	67
142	Sex differences in brain aging and predictors of neurodegeneration in cognitively healthy older adults. <i>Neurobiology of Aging</i> , 2019, 81, 146-156.	1.5	67
143	Functional principal component model for high-dimensional brain imaging. <i>NeuroImage</i> , 2011, 58, 772-784.	2.1	66
144	Association of Midlife Hearing Impairment With Late-Life Temporal Lobe Volume Loss. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2019, 145, 794.	1.2	65

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145	Estimating Topology Preserving and Smooth Displacement Fields. IEEE Transactions on Medical Imaging, 2004, 23, 868-880.	5.4	63
146	Midlife obesity and trajectories of brain volume changes in older adults. Human Brain Mapping, 2012, 33, 2204-2210.	1.9	63
147	Generative-Discriminative Basis Learning for Medical Imaging. IEEE Transactions on Medical Imaging, 2012, 31, 51-69.	5.4	63
148	Suspected non-AD pathology in mild cognitive impairment. Neurobiology of Aging, 2015, 36, 3152-3162.	1.5	63
149	Combining Generative Models for Multifocal Glioma Segmentation and Registration. Lecture Notes in Computer Science, 2014, 17, 763-770.	1.0	63
150	Early marker for Alzheimer's disease: Hippocampus T1rho ( $T_{1\rho}$ ) estimation. Journal of Magnetic Resonance Imaging, 2009, 29, 1008-1012.	1.9	61
151	GLISTRboost: Combining Multimodal MRI Segmentation, Registration, and Biophysical Tumor Growth Modeling with Gradient Boosting Machines for Glioma Segmentation. Lecture Notes in Computer Science, 2016, , 144-155.	1.0	61
152	Effect of Cerebral Embolic Protection Devices on CNS Infarction in Surgical Aortic Valve Replacement. JAMA - Journal of the American Medical Association, 2017, 318, 536.	3.8	61
153	Imaging signatures of glioblastoma molecular characteristics: A radiogenomics review. Journal of Magnetic Resonance Imaging, 2020, 52, 54-69.	1.9	61
154	Measuring Brain Lesion Progression with a Supervised Tissue Classification System. Lecture Notes in Computer Science, 2008, 11, 620-627.	1.0	61
155	CSF Apo-E levels associate with cognitive decline and MRI changes. Acta Neuropathologica, 2014, 127, 621-632.	3.9	60
156	Simulation of tissue atrophy using a topology preserving transformation model. IEEE Transactions on Medical Imaging, 2006, 25, 649-652.	5.4	58
157	Use of neuroanatomical pattern regression to predict the structural brain dynamics of vulnerability and transition to psychosis. Schizophrenia Research, 2010, 123, 175-187.	1.1	58
158	Targeted Prostate Biopsy Using Statistical Image Analysis. IEEE Transactions on Medical Imaging, 2007, 26, 779-788.	5.4	57
159	Interpreting support vector machine models for multivariate group wise analysis in neuroimaging. Medical Image Analysis, 2015, 24, 190-204.	7.0	57
160	Finite Element Modeling of Brain Tumor Mass-Effect from 3D Medical Images. Lecture Notes in Computer Science, 2005, 8, 400-408.	1.0	55
161	Investigating machine learning techniques for MRI-based classification of brain neoplasms. International Journal of Computer Assisted Radiology and Surgery, 2011, 6, 821-828.	1.7	55
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