

Christos Davatzikos

List of Publications by Year in Descending Order

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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	Mid-life epigenetic age, neuroimaging brain age, and cognitive function: coronary artery risk development in young adults (CARDIA) study.. <i>Aging</i> , 2022 , 14, 1691-1712	5.6	1
413	Metabolic and Physiologic MR Imaging in Distinguishing True Progression from Pseudoprogession in Patients with Glioblastoma.. <i>NMR in Biomedicine</i> , 2022 , e4719	4.4	1
412	Characterizing Heterogeneity in Neuroimaging, Cognition, Clinical Symptoms, and Genetics Among Patients With Late-Life Depression.. <i>JAMA Psychiatry</i> , 2022 ,	14.5	1
411	Impact of deformable registration methods for prediction of recurrence free survival response to neoadjuvant chemotherapy in breast cancer: Results from the ISPY 1/ACRIN 6657 trial.. <i>Translational Oncology</i> , 2022 , 20, 101411	4.9	0
410	Harmonizing Functional Connectivity Reduces Scanner Effects in Community Detection.. <i>NeuroImage</i> , 2022 , 119198	7.9	0
409	Longitudinal associations between energy utilization and brain volumes in cognitively normal middle aged and older adults.. <i>Scientific Reports</i> , 2022 , 12, 6472	4.9	
408	Dissociable multi-scale patterns of development in personalized brain networks.. <i>Nature Communications</i> , 2022 , 13, 2647	17.4	1
407	IMG-15. Radiomic Profiling of Pediatric Low-Grade Glioma Improves Risk Stratification Beyond Clinical Measures. <i>Neuro-Oncology</i> , 2022 , 24, i80-i80	1	
406	Leveraging machine learning predictive biomarkers to augment the statistical power of clinical trials with baseline magnetic resonance imaging. <i>Brain Communications</i> , 2021 , 3, fcab264	4.5	0
405	Multi-scale semi-supervised clustering of brain images: Deriving disease subtypes. <i>Medical Image Analysis</i> , 2021 , 75, 102304	15.4	1
404	Embracing the disharmony in medical imaging: A Simple and effective framework for domain adaptation. <i>Medical Image Analysis</i> , 2021 , 76, 102309	15.4	3
403	A deep learning framework identifies dimensional representations of Alzheimer's Disease from brain structure. <i>Nature Communications</i> , 2021 , 12, 7065	17.4	2
402	Open-source Software Sustainability Models: Initial White Paper From the Informatics Technology for Cancer Research Sustainability and Industry Partnership Working Group. <i>Journal of Medical Internet Research</i> , 2021 , 23, e20028	7.6	1
401	Red Cell Distribution Width, Anemia, and Brain Volumetric Outcomes Among Middle-Aged Adults. <i>Journal of Alzheimer's Disease</i> , 2021 , 81, 711-727	4.3	2
400	Association of Intensive vs Standard Blood Pressure Control With Magnetic Resonance Imaging Biomarkers of Alzheimer Disease: Secondary Analysis of the SPRINT MIND Randomized Trial. <i>JAMA Neurology</i> , 2021 , 78, 568-577	17.2	14
399	Bile acid synthesis, modulation, and dementia: A metabolomic, transcriptomic, and pharmacoepidemiologic study. <i>PLoS Medicine</i> , 2021 , 18, e1003615	11.6	10
398	Cognitive and neuroimaging profiles of older adults with dual decline in memory and gait speed. <i>Neurobiology of Aging</i> , 2021 , 97, 49-55	5.6	9

397	Neurocognitive and functional heterogeneity in depressed youth. <i>Neuropsychopharmacology</i> , 2021 , 46, 783-790	8.7	3
396	Left ventricular segmental strain and the prediction of cancer therapy-related cardiac dysfunction. <i>European Heart Journal Cardiovascular Imaging</i> , 2021 , 22, 418-426	4.1	0
395	Structural and Functional Brain Parameters Related to Cognitive Performance Across Development: Replication and Extension of the Parieto-Frontal Integration Theory in a Single Sample. <i>Cerebral Cortex</i> , 2021 , 31, 1444-1463	5.1	9
394	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	1.2	30
393	Computational Diagnostics of GBM Tumors in the Era of Radiomics and Radiogenomics. <i>Lecture Notes in Computer Science</i> , 2021 , 30-38	0.9	0
392	Estimating Glioblastoma Biophysical Growth Parameters Using Deep Learning Regression. <i>Lecture Notes in Computer Science</i> , 2021 , 12658, 157-167	0.9	0
391	Structural brain measures linked to clinical phenotypes in major depression replicate across clinical centres. <i>Molecular Psychiatry</i> , 2021 , 26, 2764-2775	15.1	4
390	Reply: From loose fitting to high-performance, uncertainty-aware brain-age modelling. <i>Brain</i> , 2021 , 144, e32	11.2	1
389	Quantification of tumor microenvironment acidity in glioblastoma using principal component analysis of dynamic susceptibility contrast enhanced MR imaging. <i>Scientific Reports</i> , 2021 , 11, 15011	4.9	1
388	Patent Foramen Ovale Closure Decreases the Incidence but Not the Size of New Brain Infarction on Magnetic Resonance Imaging: An Analysis of the REDUCE Trial. <i>Stroke</i> , 2021 , 52, 3419-3426	6.7	0
387	Machine Learning Using Multiparametric Magnetic Resonance Imaging Radiomic Feature Analysis to Predict Ki-67 in World Health Organization Grade I Meningiomas. <i>Neurosurgery</i> , 2021 , 89, 928-936	3.2	1
386	Tau pathology mediates age effects on medial temporal lobe structure. <i>Neurobiology of Aging</i> , 2021 , 109, 135-144	5.6	1
385	Red cell distribution width, anemia and their associations with white matter integrity among middle-aged urban adults. <i>Neurobiology of Aging</i> , 2021 , 105, 229-240	5.6	0
384	Deep Generative Medical Image Harmonization for Improving Cross-Site Generalization in Deep Learning Predictors. <i>Journal of Magnetic Resonance Imaging</i> , 2021 ,	5.6	3
383	Changes in brain functional connectivity and cognition related to white matter lesion burden in hypertensive patients from SPRINT. <i>Neuroradiology</i> , 2021 , 63, 913-924	3.2	1
382	Dimensional connectomics of anxious misery, a human connectome study related to human disease: Overview of protocol and data quality. <i>NeuroImage: Clinical</i> , 2020 , 28, 102489	5.3	3
381	Vitamin D, Folate, and Cobalamin Serum Concentrations Are Related to Brain Volume and White Matter Integrity in Urban Adults. <i>Frontiers in Aging Neuroscience</i> , 2020 , 12, 140	5.3	0
380	Analysis of MRI Data in Diagnostic Neuroradiology. <i>Annual Review of Biomedical Data Science</i> , 2020 , 3, 365-390	5.6	2

379	Integrated Biophysical Modeling and Image Analysis: Application to Neuro-Oncology. <i>Annual Review of Biomedical Engineering</i> , 2020 , 22, 309-341	12	21
378	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. <i>Radiology</i> , 2020 , 295, 328-338	20.5	734
377	Cancer Imaging Phenomics via CaPTk: Multi-Institutional Prediction of Progression-Free Survival and Pattern of Recurrence in Glioblastoma. <i>JCO Clinical Cancer Informatics</i> , 2020 , 4, 234-244	5.2	12
376	Structural brain networks in remitted psychotic depression. <i>Neuropsychopharmacology</i> , 2020 , 45, 1223-1231	12.3	2
375	Association of hippocampal volume polygenic predictor score with baseline and change in brain volumes and cognition among cognitively healthy older adults. <i>Neurobiology of Aging</i> , 2020 , 94, 81-88	5.6	0
374	Brain extraction on MRI scans in presence of diffuse glioma: Multi-institutional performance evaluation of deep learning methods and robust modality-agnostic training. <i>NeuroImage</i> , 2020 , 220, 117081	7.9	11
373	Longitudinal ComBat: A method for harmonizing longitudinal multi-scanner imaging data. <i>NeuroImage</i> , 2020 , 220, 117129	7.9	32
372	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
371	Two distinct neuroanatomical subtypes of schizophrenia revealed using machine learning. <i>Brain</i> , 2020 , 143, 1027-1038	11.2	53
370	Individual Variation in Functional Topography of Association Networks in Youth. <i>Neuron</i> , 2020 , 106, 340-353.e861	11.3	61
369	Overall survival prediction in glioblastoma patients using structural magnetic resonance imaging (MRI): advanced radiomic features may compensate for lack of advanced MRI modalities. <i>Journal of Medical Imaging</i> , 2020 , 7, 031505	2.6	11
368	A Deep Network for Joint Registration and Reconstruction of Images with Pathologies. <i>Lecture Notes in Computer Science</i> , 2020 , 12436, 342-352	0.9	4
367	Integrative radiomic analysis for pre-surgical prognostic stratification of glioblastoma patients: from advanced to basic MRI protocols. <i>Proceedings of SPIE</i> , 2020 , 11315,	1.7	1
366	Optimization of energy state transition trajectory supports the development of executive function during youth. <i>ELife</i> , 2020 , 9,	8.9	19
365	Multi-institutional noninvasive in vivo characterization of 1p/19q, and EGFRvIII in glioma using neuro-Cancer Imaging Phenomics Toolkit (neuro-CaPTk). <i>Neuro-Oncology Advances</i> , 2020 , 2, iv22-iv34	0.9	4
364	The Cancer Imaging Phenomics Toolkit (CaPTk): Technical Overview. <i>Lecture Notes in Computer Science</i> , 2020 , 11993, 380-394	0.9	12
363	MAGIC: Multi-scale Heterogeneity Analysis and Clustering for Brain Diseases. <i>Lecture Notes in Computer Science</i> , 2020 , 678-687	0.9	2
362	Neurostructural Heterogeneity in Youths With Internalizing Symptoms. <i>Biological Psychiatry</i> , 2020 , 87, 473-482	7.9	12

361	Imaging signatures of glioblastoma molecular characteristics: A radiogenomics review. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 52, 54-69	5.6	26
360	Estimating regional cerebral blood flow using resting-state functional MRI via machine learning. <i>Journal of Neuroscience Methods</i> , 2020 , 331, 108528	3	1
359	Harmonization of large MRI datasets for the analysis of brain imaging patterns throughout the lifespan. <i>NeuroImage</i> , 2020 , 208, 116450	7.9	79
358	Widespread Morphometric Abnormalities in Major Depression: Neuroplasticity and Potential for Biomarker Development. <i>Neuroimaging Clinics of North America</i> , 2020 , 30, 85-95	3	2
357	Associations between cognitive and brain volume changes in cognitively normal older adults. <i>NeuroImage</i> , 2020 , 223, 117289	7.9	15
356	A comparison of Freesurfer and multi-atlas MUSE for brain anatomy segmentation: Findings about size and age bias, and inter-scanner stability in multi-site aging studies. <i>NeuroImage</i> , 2020 , 223, 117248	7.9	5
355	Disentangling Heterogeneity in Alzheimer's Disease and Related Dementias Using Data-Driven Methods. <i>Biological Psychiatry</i> , 2020 , 88, 70-82	7.9	29
354	Inflammatory markers and imaging patterns of advanced brain aging in the general population. <i>Brain Imaging and Behavior</i> , 2020 , 14, 1108-1117	4.1	13
353	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	7.9	24
352	CLAIRE: A DISTRIBUTED-MEMORY SOLVER FOR CONSTRAINED LARGE DEFORMATION DIFFEOMORPHIC IMAGE REGISTRATION. <i>SIAM Journal of Scientific Computing</i> , 2019 , 41, C548-C584	2.6	14
351	Addressing heterogeneity (and homogeneity) in treatment mechanisms in depression and the potential to develop diagnostic and predictive biomarkers. <i>NeuroImage: Clinical</i> , 2019 , 24, 101997	5.3	7
350	Accelerated cortical thinning within structural brain networks is associated with irritability in youth. <i>Neuropsychopharmacology</i> , 2019 , 44, 2254-2262	8.7	12
349	Emerging Applications of Artificial Intelligence in Neuro-Oncology. <i>Radiology</i> , 2019 , 290, 607-618	20.5	87
348	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
347	Evidence for Dissociable Linkage of Dimensions of Psychopathology to Brain Structure in Youths. <i>American Journal of Psychiatry</i> , 2019 , 176, 1000-1009	11.9	27
346	Arterial Spin Labeling and Dynamic Susceptibility Contrast-enhanced MR Imaging for evaluation of arteriovenous shunting and tumor hypoxia in glioblastoma. <i>Scientific Reports</i> , 2019 , 9, 8747	4.9	4
345	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
344	Precision diagnostics based on machine learning-derived imaging signatures. <i>Magnetic Resonance Imaging</i> , 2019 , 64, 49-61	3.3	14

343	Sociodemographic disparities in corticolimbic structures. <i>PLoS ONE</i> , 2019 , 14, e0216338	3.7	6
342	Multi-stage Association Analysis of Glioblastoma Gene Expressions with Texture and Spatial Patterns. <i>Lecture Notes in Computer Science</i> , 2019 , 11383, 239-250	0.9	5
341	Sex differences in the association between amyloid and longitudinal brain volume change in cognitively normal older adults. <i>NeuroImage: Clinical</i> , 2019 , 22, 101769	5.3	14
340	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
339	White Matter Lesion Penumbra Shows Abnormalities on Structural and Physiologic MRIs in the Coronary Artery Risk Development in Young Adults Cohort. <i>American Journal of Neuroradiology</i> , 2019 , 40, 1291-1298	4.4	4
338	Prediction of Treatment Response to Neoadjuvant Chemotherapy for Breast Cancer via Early Changes in Tumor Heterogeneity Captured by DCE-MRI Registration. <i>Scientific Reports</i> , 2019 , 9, 12114	4.9	21
337	Disparities in Diffuse Cortical White Matter Integrity Between Socioeconomic Groups. <i>Frontiers in Human Neuroscience</i> , 2019 , 13, 198	3.3	9
336	Neuroimaging Findings in US Government Personnel With Possible Exposure to Directional Phenomena in Havana, Cuba. <i>JAMA - Journal of the American Medical Association</i> , 2019 , 322, 336-347	27.4	16
335	Association of Midlife Hearing Impairment With Late-Life Temporal Lobe Volume Loss. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2019 , 145, 794-802	3.9	32
334	Patient-Specific Registration of Pre-operative and Post-recurrence Brain Tumor MRI Scans. <i>Lecture Notes in Computer Science</i> , 2019 , 11383, 105-114	0.9	1
333	Radiomics-based identification of peritumoral infiltration in de novo glioblastoma imaging presents targets amenable for potential targeted extended resection: A neurosurgical survey.. <i>Journal of Clinical Oncology</i> , 2019 , 37, e13573-e13573	2.2	2
332	Skull-Stripping of Glioblastoma MRI Scans Using 3D Deep Learning. <i>Lecture Notes in Computer Science</i> , 2019 , 11992, 57-68	0.9	4
331	Lifetime discrimination burden, racial discrimination, and subclinical cerebrovascular disease among African Americans. <i>Health Psychology</i> , 2019 , 38, 63-74	5	16
330	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	11.5	32
329	Multivariate Analysis of Preoperative Magnetic Resonance Imaging Reveals Transcriptomic Classification of Glioblastoma Patients. <i>Frontiers in Computational Neuroscience</i> , 2019 , 13, 81	3.5	4
328	Predictors of neurodegeneration differ between cognitively normal and subsequently impaired older adults. <i>Neurobiology of Aging</i> , 2019 , 75, 178-186	5.6	21
327	Motion artifact in studies of functional connectivity: Characteristics and mitigation strategies. <i>Human Brain Mapping</i> , 2019 , 40, 2033-2051	5.9	69
326	Sex differences in estimated brain metabolism in relation to body growth through adolescence. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019 , 39, 524-535	7.3	14

325	Gestational Age is Dimensionally Associated with Structural Brain Network Abnormalities Across Development. <i>Cerebral Cortex</i> , 2019 , 29, 2102-2114	5.1	12
324	Neuroanatomical heterogeneity of schizophrenia revealed by semi-supervised machine learning methods. <i>Schizophrenia Research</i> , 2019 , 214, 43-50	3.6	19
323	Evaluation of non-negative matrix factorization of grey matter in age prediction. <i>NeuroImage</i> , 2018 , 173, 394-410	7.9	53
322	Brain Cancer Imaging Phenomics Toolkit (brain-CaPTk): An Interactive Platform for Quantitative Analysis of Glioblastoma. <i>Lecture Notes in Computer Science</i> , 2018 , 10670, 133-145	0.9	15
321	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
320	Brain Magnetic Resonance Imaging Findings in Children and Young Adults With CKD. <i>American Journal of Kidney Diseases</i> , 2018 , 72, 349-359	7.4	19
319	Diminished Cortical Thickness Is Associated with Impulsive Choice in Adolescence. <i>Journal of Neuroscience</i> , 2018 , 38, 2471-2481	6.6	26
318	Characterization of active and infiltrative tumorous subregions from normal tissue in brain gliomas using multiparametric MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 48, 938-950	5.6	21
317	Quantitative assessment of structural image quality. <i>NeuroImage</i> , 2018 , 169, 407-418	7.9	129
316	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
315	Elevated Markers of Inflammation Are Associated With Longitudinal Changes in Brain Function in Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018 , 73, 770-778	6.4	34
314	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
313	MIDAS: Regionally linear multivariate discriminative statistical mapping. <i>NeuroImage</i> , 2018 , 174, 111-126	7.9	8
312	White matter microstructure, white matter lesions, and hypertension: An examination of early surrogate markers of vascular-related brain change in midlife. <i>NeuroImage: Clinical</i> , 2018 , 18, 753-761	5.3	16
311	Linked dimensions of psychopathology and connectivity in functional brain networks. <i>Nature Communications</i> , 2018 , 9, 3003	17.4	169
310	White matter lesions: Spatial heterogeneity, links to risk factors, cognition, genetics, and atrophy. <i>Neurology</i> , 2018 , 91, e964-e975	6.5	50
309	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	24.3	79
308	Network changes associated with transdiagnostic depressive symptom improvement following cognitive behavioral therapy in MDD and PTSD. <i>Molecular Psychiatry</i> , 2018 , 23, 2314-2323	15.1	20

307	SPARCL1 Accelerates Symptom Onset in Alzheimer's Disease and Influences Brain Structure and Function During Aging. <i>Journal of Alzheimer's Disease</i> , 2018 , 61, 401-414	4.3	12
306	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
305	Non-invasive determination of the O6-methylguanine-DNA-methyltransferase (MGMT) promoter methylation status in glioblastoma (GBM) using magnetic resonance imaging (MRI).. <i>Journal of Clinical Oncology</i> , 2018 , 36, 2051-2051	2.2	5
304	APOE, thought disorder, and SPARE-AD predict cognitive decline in established Parkinson's disease. <i>Movement Disorders</i> , 2018 , 33, 289-297	7	24
303	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
302	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
301	Mitigating head motion artifact in functional connectivity MRI. <i>Nature Protocols</i> , 2018 , 13, 2801-2826	18.8	84
300	Classification of multi-site MR images in the presence of heterogeneity using multi-task learning. <i>NeuroImage: Clinical</i> , 2018 , 19, 476-486	5.3	20
299	PDE-constrained optimization in medical image analysis. <i>Optimization and Engineering</i> , 2018 , 19, 765-812	2.1	20
298	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
297	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
296	Correlations of atrial diameter and frontooccipital horn ratio with ventricle size in fetal ventriculomegaly. <i>Journal of Neurosurgery: Pediatrics</i> , 2017 , 19, 300-306	2.1	7
295	Improved brain tumor segmentation by utilizing tumor growth model in longitudinal brain MRI. <i>Proceedings of SPIE</i> , 2017 , 10134,	1.7	12
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	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
292	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
291	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
290	Subject-Specific Structural Parcellations Based on Randomized AB-divergences. <i>Lecture Notes in Computer Science</i> , 2017 , 10433, 407-415	0.9	2

289	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
288	Differential Associations of Socioeconomic Status With Global Brain Volumes and White Matter Lesions in African American and White Adults: the HANDLS SCAN Study. <i>Psychosomatic Medicine</i> , 2017 , 79, 327-335	3.7	21
287	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
286	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
285	Association between serum neuron-specific enolase, age, overweight, and structural MRI patterns in 901 subjects. <i>Translational Psychiatry</i> , 2017 , 7, 1272	8.6	8
284	A framework for scalable biophysics-based image analysis 2017 ,		7
283	Riccati-Regularized Precision Matrices for Neuroimaging. <i>Lecture Notes in Computer Science</i> , 2017 , 10265, 275-286	0.9	
282	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
281	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
280	Imaging patterns predict patient survival and molecular subtype in glioblastoma via machine learning techniques. <i>Neuro-Oncology</i> , 2016 , 18, 417-25	1	174
279	Capturing heterogeneous group differences using mixture-of-experts: Application to a study of aging. <i>NeuroImage</i> , 2016 , 125, 498-514	7.9	14
278	Structured Outlier Detection in Neuroimaging Studies with Minimal Convex Polytopes. <i>Lecture Notes in Computer Science</i> , 2016 , 9900, 300-307	0.9	
277	NIMG-20. IMAGING PATTERN ANALYSIS REVEALS THREE DISTINCT PHENOTYPIC SUBTYPES OF GBM WITH DIFFERENT SURVIVAL RATES. <i>Neuro-Oncology</i> , 2016 , 18, vi128-vi128	1	8
276	Relationship between APOE Genotype and Structural MRI Measures throughout Adulthood in the Study of Health in Pomerania Population-Based Cohort. <i>American Journal of Neuroradiology</i> , 2016 , 37, 1636-42	4.4	25
275	Peripheral sphingolipids are associated with variation in white matter microstructure in older adults. <i>Neurobiology of Aging</i> , 2016 , 43, 156-63	5.6	12
274	Midlife and Late-Life Cardiorespiratory Fitness and Brain Volume Changes in Late Adulthood: Results From the Baltimore Longitudinal Study of Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016 , 71, 124-30	6.4	17
273	Structural Brain Abnormalities in Youth With Psychosis Spectrum Symptoms. <i>JAMA Psychiatry</i> , 2016 , 73, 515-24	14.5	79
272	Abnormality Detection via Iterative Deformable Registration and Basis-Pursuit Decomposition. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 1937-51	11.7	7

271	Imaging genomics in cancer research: limitations and promises. <i>British Journal of Radiology</i> , 2016 , 89, 20151030	3.4	72
270	White matter hyperintensities and imaging patterns of brain ageing in the general population. <i>Brain</i> , 2016 , 139, 1164-79	11.2	212
269	Addressing Confounding in Predictive Models with an Application to Neuroimaging. <i>International Journal of Biostatistics</i> , 2016 , 12, 31-44	1.3	22
268	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
267	An Alzheimer's Disease-Derived Biomarker Signature Identifies Parkinson's Disease Patients with Dementia. <i>PLoS ONE</i> , 2016 , 11, e0147319	3.7	18
266	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
265	Development of an itemwise efficiency scoring method: Concurrent, convergent, discriminant, and neuroimaging-based predictive validity assessed in a large community sample. <i>Psychological Assessment</i> , 2016 , 28, 1529-1542	5.3	6
264	Effects of Hormone Therapy on Brain Volumes Changes of Postmenopausal Women Revealed by Optimally-Discriminative Voxel-Based Morphometry. <i>PLoS ONE</i> , 2016 , 11, e0150834	3.7	19
263	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
262	Segmentation of Gliomas in Pre-operative and Post-operative Multimodal Magnetic Resonance Imaging Volumes Based on a Hybrid Generative-Discriminative Framework. <i>Lecture Notes in Computer Science</i> , 2016 , 10154, 184-194	0.9	19
261	Nuquantus: Machine learning software for the characterization and quantification of cell nuclei in complex immunofluorescent tissue images. <i>Scientific Reports</i> , 2016 , 6, 23431	4.9	11
260	Diagnostic potential of structural neuroimaging for depression from a multi-ethnic community sample. <i>BJPsych Open</i> , 2016 , 2, 247-254	5	15
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1 Longitudinal ComBat: A Method for Harmonizing Longitudinal Multi-scanner Imaging Data

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