

James C Gee

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

11,638
citations

185998

28
h-index

95083

68
g-index

95
all docs

95
docs citations

95
times ranked

16038
citing authors

#	ARTICLE	IF	CITATIONS
1	N4ITK: Improved N3 Bias Correction. IEEE Transactions on Medical Imaging, 2010, 29, 1310-1320.	5.4	4,205
2	A reproducible evaluation of ANTs similarity metric performance in brain image registration. NeuroImage, 2011, 54, 2033-2044.	2.1	3,535
3	Large-scale evaluation of ANTs and FreeSurfer cortical thickness measurements. NeuroImage, 2014, 99, 166-179.	2.1	560
4	An Open Source Multivariate Framework for n-Tissue Segmentation with Evaluation on Public Data. Neuroinformatics, 2011, 9, 381-400.	1.5	515
5	The Insight ToolKit image registration framework. Frontiers in Neuroinformatics, 2014, 8, 44.	1.3	462
6	Registration based cortical thickness measurement. NeuroImage, 2009, 45, 867-879.	2.1	217
7	The DTI Challenge: Toward Standardized Evaluation of Diffusion Tensor Imaging Tractography for Neurosurgery. Journal of Neuroimaging, 2015, 25, 875-882.	1.0	147
8	Cellular anatomy of the mouse primary motor cortex. Nature, 2021, 598, 159-166.	13.7	117
9	Parenchymal texture analysis in digital mammography: A fully automated pipeline for breast cancer risk assessment. Medical Physics, 2015, 42, 4149-4160.	1.6	91
10	Deep Learning Applications in Chest Radiography and Computed Tomography. Journal of Thoracic Imaging, 2019, 34, 75-85.	0.8	90
11	The ANTsX ecosystem for quantitative biological and medical imaging. Scientific Reports, 2021, 11, 9068.	1.6	81
12	Artificial Intelligence System Approaching Neuroradiologist-level Differential Diagnosis Accuracy at Brain MRI. Radiology, 2020, 295, 626-637.	3.6	77
13	White matter hyperintensities are more highly associated with preclinical Alzheimer's disease than imaging and cognitive markers of neurodegeneration. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2016, 4, 18-27.	1.2	71
14	Computational analysis in epilepsy neuroimaging: A survey of features and methods. NeuroImage: Clinical, 2016, 11, 515-529.	1.4	68
15	Anatomical structures, cell types and biomarkers of the Human Reference Atlas. Nature Cell Biology, 2021, 23, 1117-1128.	4.6	68
16	Convolutional Neural Network for Automated FLAIR Lesion Segmentation on Clinical Brain MR Imaging. American Journal of Neuroradiology, 2019, 40, 1282-1290.	1.2	61
17	Characterization of regional pulmonary mechanics from serial magnetic resonance imaging data1. Academic Radiology, 2003, 10, 1147-1152.	1.3	57
18	A Blockchain-based Architecture Framework for Secure Sharing of Personal Health Data. , 2018, , .		55

#	ARTICLE	IF	CITATIONS
19	Plasticity of the human visual system after retinal gene therapy in patients with Leber's congenital amaurosis. <i>Science Translational Medicine</i> , 2015, 7, 296ra110.	5.8	51
20	Convolutional Neural Networks with Template-Based Data Augmentation for Functional Lung Image Quantification. <i>Academic Radiology</i> , 2019, 26, 412-423.	1.3	51
21	Multi-modal automatic montaging of adaptive optics retinal images. <i>Biomedical Optics Express</i> , 2016, 7, 4899.	1.5	49
22	Tidal changes on CT and progression of ARDS. <i>Thorax</i> , 2017, 72, 981-989.	2.7	39
23	Optic Disc and Cup Segmentation from Color Fundus Photograph Using Graph Cut with Priors. <i>Lecture Notes in Computer Science</i> , 2013, 16, 75-82.	1.0	39
24	Linear Associations between Clinically Assessed Upper Motor Neuron Disease and Diffusion Tensor Imaging Metrics in Amyotrophic Lateral Sclerosis. <i>PLoS ONE</i> , 2014, 9, e105753.	1.1	38
25	Alzheimer's disease and frontotemporal dementia exhibit distinct atrophy-behavior correlates. <i>Academic Radiology</i> , 2003, 10, 1392-1401.	1.3	37
26	Longitudinal progression of grey matter atrophy in non-amnesic Alzheimer's disease. <i>Brain</i> , 2019, 142, 1701-1722.	3.7	37
27	High Resolution Magnetic Resonance Imaging for Characterization of the Neuroligin-3 Knock-in Mouse Model Associated with Autism Spectrum Disorder. <i>PLoS ONE</i> , 2014, 9, e109872.	1.1	36
28	Topological Repairing of 3D Digital Images. <i>Journal of Mathematical Imaging and Vision</i> , 2008, 30, 249-274.	0.8	35
29	Reproducibility of graph metrics of human brain structural networks. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 46.	1.3	33
30	Landmark matching based retinal image alignment by enforcing sparsity in correspondence matrix. <i>Medical Image Analysis</i> , 2014, 18, 903-913.	7.0	32
31	Learning image-based spatial transformations via convolutional neural networks: A review. <i>Magnetic Resonance Imaging</i> , 2019, 64, 142-153.	1.0	30
32	White Matter Disease Correlates with Lexical Retrieval Deficits in Primary Progressive Aphasia. <i>Frontiers in Neurology</i> , 2013, 4, 212.	1.1	29
33	Relating brain anatomy and cognitive ability using a multivariate multimodal framework. <i>NeuroImage</i> , 2014, 99, 477-486.	2.1	29
34	Automated Segmentation of the Choroid in AEDI-OCT Images with Retinal Pathology Using Convolution Neural Networks. <i>Lecture Notes in Computer Science</i> , 2017, 10554, 177-184.	1.0	26
35	Structure-Specific Statistical Mapping of White Matter Tracts using the Continuous Medial Representation. , 2007, , .		24
36	Arterial spin labeling perfusion predicts longitudinal decline in semantic variant primary progressive aphasia. <i>Journal of Neurology</i> , 2016, 263, 1927-1938.	1.8	23

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37	Chain-based big data access control infrastructure. <i>Journal of Supercomputing</i> , 2018, 74, 4945-4964.	2.4	23
38	Longitudinal structural gray matter and white matter MRI changes in presymptomatic progranulin mutation carriers. <i>NeuroImage: Clinical</i> , 2018, 19, 497-506.	1.4	21
39	Effect of Reconstruction Parameters on the Quantitative Analysis of Chest Computed Tomography. <i>Journal of Thoracic Imaging</i> , 2019, 34, 92-102.	0.8	21
40	Semiautomatic segmentation of longitudinal computed tomography images in a rat model of lung injury by surfactant depletion. <i>Journal of Applied Physiology</i> , 2015, 118, 377-385.	1.2	20
41	Retinal Image Denoising via Bilateral Filter with a Spatial Kernel of Optimally Oriented Line Spread Function. <i>Computational and Mathematical Methods in Medicine</i> , 2017, 2017, 1-13.	0.7	20
42	A Retrospective Study of Predictors of Return to Duty versus Medical Retirement in an Active Duty Military Population with Blast-Related Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 991-1002.	1.7	20
43	Subspecialty-Level Deep Gray Matter Differential Diagnoses with Deep Learning and Bayesian Networks on Clinical Brain MRI: A Pilot Study. <i>Radiology: Artificial Intelligence</i> , 2020, 2, e190146.	3.0	20
44	An automated drusen detection system for classifying age-related macular degeneration with color fundus photographs. , 2013, , .		19
45	Parenchymal texture analysis in digital mammography: robust texture feature identification and equivalence across devices. <i>Journal of Medical Imaging</i> , 2015, 2, 024501.	0.8	19
46	Novel human intervertebral disc strain template to quantify regional three-dimensional strains in a population and compare to internal strains predicted by a finite element model. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1264-1273.	1.2	18
47	Ex vivo MRI and histopathology detect novel iron-rich cortical inflammation in frontotemporal lobar degeneration with tau versus TDP-43 pathology. <i>NeuroImage: Clinical</i> , 2022, 33, 102913.	1.4	17
48	Automatic longitudinal montaging of adaptive optics retinal images using constellation matching. <i>Biomedical Optics Express</i> , 2019, 10, 6476.	1.5	16
49	Estimation of image bias field with sparsity constraints. , 2010, , .		15
50	Eigenanatomy: Sparse dimensionality reduction for multi-modal medical image analysis. <i>Methods</i> , 2015, 73, 43-53.	1.9	15
51	Diminishing Efficacy of Prone Positioning With Late Application in Evolving Lung Injury. <i>Critical Care Medicine</i> , 2021, 49, e1015-e1024.	0.4	14
52	Retrospective illumination correction of retinal fundus images from gradient distribution sparsity. , 2012, , .		13
53	Subject-specific functional parcellation via Prior Based Eigenanatomy. <i>NeuroImage</i> , 2014, 99, 14-27.	2.1	13
54	Decomposing cerebral blood flow MRI into functional and structural components: A non-local approach based on prediction. <i>NeuroImage</i> , 2015, 105, 156-170.	2.1	13

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55	Machine learning suggests polygenic risk for cognitive dysfunction in amyotrophic lateral sclerosis. <i>EMBO Molecular Medicine</i> , 2021, 13, e12595.	3.3	13
56	A new scale for the assessment of conjunctival bulbar redness. <i>Ocular Surface</i> , 2018, 16, 436-440.	2.2	11
57	Joint alignment of multispectral images via semidefinite programming. <i>Biomedical Optics Express</i> , 2017, 8, 890.	1.5	10
58	A Generative Model for OCT Retinal Layer Segmentation by Integrating Graph-Based Multi-surface Searching and Image Registration. <i>Lecture Notes in Computer Science</i> , 2013, 16, 428-435.	1.0	10
59	CONSTRAINED QUADRILATERAL MESHES OF BOUNDED SIZE. <i>International Journal of Computational Geometry and Applications</i> , 2005, 15, 55-98.	0.3	8
60	Development and Evaluation of Semiautomated Quantification of Lissamine Green Staining of the Bulbar Conjunctiva From Digital Images. <i>JAMA Ophthalmology</i> , 2017, 135, 1078.	1.4	8
61	Multimodal Image Alignment via Linear Mapping between Feature Modalities. <i>Journal of Healthcare Engineering</i> , 2017, 2017, 1-6.	1.1	8
62	Automated data extraction and ensemble methods for predictive modeling of breast cancer outcomes after radiation therapy. <i>Medical Physics</i> , 2019, 46, 1054-1063.	1.6	8
63	Multivariate segmentation of brain tissues by fusion of MRI and DTI data. , 2008, , .		7
64	Multiscale analysis revisited: Detection of drusen and vessel in digital retinal images. , 2011, , .		7
65	Reconstruction of the human hippocampus in 3D from histology and high-resolution ex-vivo MRI. , 2012, 2012, 294-297.		7
66	Measuring sparse temporal-variation for accurate registration of dynamic contrast-enhanced breast MR images. <i>Computerized Medical Imaging and Graphics</i> , 2015, 46, 73-80.	3.5	7
67	V-Chain: A Blockchain-Based Car Lease Platform. , 2018, , .		7
68	Image-versus histogram-based considerations in semantic segmentation of pulmonary hyperpolarized gas images. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2822-2836.	1.9	6
69	Minimally interactive placenta segmentation from three-dimensional ultrasound images. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	0.8	6
70	Atlas-guided probabilistic diffusion-tensor fiber tractography. , 2008, , .		5
71	Phases of volume loss in patients with known frontotemporal lobar degeneration spectrum pathology. <i>Neurobiology of Aging</i> , 2022, 113, 95-107.	1.5	5
72	Branching medial models for cardiac shape representation. , 2008, , .		4

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73	Accurate registration of dynamic contrast-enhanced breast mr images with robust estimation and linear programming. , 2010, , .		4
74	Fully Automated Placental Volume Quantification From <sc>3D</sc> Ultrasound for Prediction of Smallâ€forâ€Gestationalâ€Age Infants. Journal of Ultrasound in Medicine, 2022, 41, 1509-1524.	0.8	4
75	Divergent Histopathological Networks of Frontotemporal Degeneration Proteinopathy Subtypes. Journal of Neuroscience, 2022, 42, 3868-3877.	1.7	4
76	Brain MRI Deep Learning and Bayesian Inference System Augments Radiology Resident Performance. Journal of Digital Imaging, 2021, 34, 1049-1058.	1.6	3
77	In vivo imaging of canine lung deformation: effects of posture, pneumonectomy, and inhaled erythropoietin. Journal of Applied Physiology, 2020, 128, 1093-1105.	1.2	3
78	Robust regularization for the estimation of intra-voxel axon fiber orientations. , 2008, , .		2
79	Cranio-maxillofacial surgery simulation based on pre-specified target face configurations. Journal of Zhejiang University: Science C, 2010, 11, 504-513.	0.7	2
80	Anatomically-Constrained PCA for Image Parcellation. , 2013, , .		2
81	Cortical parcellation for neonatal brains. , 2014, , .		2
82	Surface-based modeling of white matter fasciculi with orientation encoding. , 2008, , .		1
83	Partial sparse canonical correlation analysis (PSCCA) for population studies in medical imaging. , 2012, , .		1
84	Spatially Informed CNN for Automated Cone Detection in Adaptive Optics Retinal Images. , 2020, 2020, 1383-1386.		1
85	2D Modeling and Correction of Fan-Beam Scan Geometry in OCT. Lecture Notes in Computer Science, 2018, 11039, 328-335.	1.0	1
86	Spatial correspondence based asymmetry analysis in FMRI. , 2008, , .		0
87	A framework for craniofacial surgery simulation based on pre-specified target face configurations. , 2009, , .		0
88	Performance Evaluation of Medical Image Processing Algorithms. Series in Machine Perception and Artificial Intelligence, 2002, , 143-159.	0.1	0
89	Shape Decomposition of Foveal Pit Morphology Using Scan Geometry Corrected OCT. Lecture Notes in Computer Science, 2019, 11855, 69-76.	1.0	0
90	A Precise Method to Evaluate 360 Degree Measures of Optic Cup and Disc Morphology in an African American Cohort and Its Genetic Applications. Genes, 2021, 12, 1961.	1.0	0

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91	Reduced longitudinal change in ¹⁸ F-florbetapir PET is associated with clinical phenotype in atypical Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.4	0