James C Gee

List of Publications by Year
in descending order

91 papers	11,638 citations	186265 28 h-index	95266 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.	8.9	4,205
2	A reproducible evaluation of ANTs similarity metric performance in brain image registration. NeuroImage, 2011, 54, 2033-2044.	4.2	3,535
3	Large-scale evaluation of ANTs and FreeSurfer cortical thickness measurements. NeuroImage, 2014, 99, 166-179.	4.2	560
4	An Open Source Multivariate Framework for n-Tissue Segmentation with Evaluation on Public Data. Neuroinformatics, 2011, 9, 381-400.	2.8	515
5	The Insight ToolKit image registration framework. Frontiers in Neuroinformatics, 2014, 8, 44.	2.5	462
6	Registration based cortical thickness measurement. NeuroImage, 2009, 45, 867-879.	4.2	217
7	The DTI Challenge: Toward Standardized Evaluation of Diffusion Tensor Imaging Tractography for Neurosurgery. Journal of Neuroimaging, 2015, 25, 875-882.	2.0	147
8	Cellular anatomy of the mouse primary motor cortex. Nature, 2021, 598, 159-166.	27.8	117
9	Parenchymal texture analysis in digital mammography: A fully automated pipeline for breast cancer risk assessment. Medical Physics, 2015, 42, 4149-4160.	3.0	91
10	Deep Learning Applications in Chest Radiography and Computed Tomography. Journal of Thoracic Imaging, 2019, 34, 75-85.	1.5	90
11	The ANTsX ecosystem for quantitative biological and medical imaging. Scientific Reports, 2021, 11, 9068.	3.3	81
12	Artificial Intelligence System Approaching Neuroradiologist-level Differential Diagnosis Accuracy at Brain MRI. Radiology, 2020, 295, 626-637.	7.3	77
13	White matter hyperintensities are more highly associated with preclinicalÂAlzheimer's disease than imaging and cognitive markers ofÂneurodegeneration. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2016, 4, 18-27.	2.4	71
14	Computational analysis in epilepsy neuroimaging: A survey of features and methods. NeuroImage: Clinical, 2016, 11, 515-529.	2.7	68
15	Anatomical structures, cell types and biomarkers of the Human Reference Atlas. Nature Cell Biology, 2021, 23, 1117-1128.	10.3	68
16	Convolutional Neural Network for Automated FLAIR Lesion Segmentation on Clinical Brain MR Imaging. American Journal of Neuroradiology, 2019, 40, 1282-1290.	2.4	61
17	Characterization of regional pulmonary mechanics from serial magnetic resonance imaging data1. Academic Radiology, 2003, 10, 1147-1152.	2.5	57
18	A Blockchain-based Architecture Framework for Secure Sharing of Personal Health Data. , 2018, , .		55

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19	Plasticity of the human visual system after retinal gene therapy in patients with Leberâ€™s congenital amaurosis. Science Translational Medicine, 2015, 7, 296ra110.	12.4	51
20	Convolutional Neural Networks with Template-Based Data Augmentation for Functional Lung Image Quantification. Academic Radiology, 2019, 26, 412-423.	2.5	51
21	Multi-modal automatic montaging of adaptive optics retinal images. Biomedical Optics Express, 2016, 7, 4899.	2.9	49
22	Tidal changes on CT and progression of ARDS. Thorax, 2017, 72, 981-989.	5.6	39
23	Optic Disc and Cup Segmentation from Color Fundus Photograph Using Graph Cut with Priors. Lecture Notes in Computer Science, 2013, 16, 75-82.	1.3	39
24	Linear Associations between Clinically Assessed Upper Motor Neuron Disease and Diffusion Tensor Imaging Metrics in Amyotrophic Lateral Sclerosis. PLoS ONE, 2014, 9, e105753.	2.5	38
25	Alzheimerâ€™s disease and frontotemporal dementia exhibit distinct atrophy-behavior correlates. Academic Radiology, 2003, 10, 1392-1401.	2.5	37
26	Longitudinal progression of grey matter atrophy in non-amnestic Alzheimerâ€™s disease. Brain, 2019, 142, 1701-1722.	7.6	37
27	High Resolution Magnetic Resonance Imaging for Characterization of the Neuroligin-3 Knock-in Mouse Model Associated with Autism Spectrum Disorder. PLoS ONE, 2014, 9, e109872.	2.5	36
28	Topological Repairing of 3D Digital Images. Journal of Mathematical Imaging and Vision, 2008, 30, 249-274.	1.3	35
29	Reproducibility of graph metrics of human brain structural networks. Frontiers in Neuroinformatics, 2014, 8, 46.	2.5	33
30	Landmark matching based retinal image alignment by enforcing sparsity in correspondence matrix. Medical Image Analysis, 2014, 18, 903-913.	11.6	32
31	Learning image-based spatial transformations via convolutional neural networks: A review. Magnetic Resonance Imaging, 2019, 64, 142-153.	1.8	30
32	White Matter Disease Correlates with Lexical Retrieval Deficits in Primary Progressive Aphasia. Frontiers in Neurology, 2013, 4, 212.	2.4	29
33	Relating brain anatomy and cognitive ability using a multivariate multimodal framework. NeuroImage, 2014, 99, 477-486.	4.2	29
34	Automated Segmentation of the Choroid inÂEDI-OCT Images with Retinal Pathology Using Convolution Neural Networks. Lecture Notes in Computer Science, 2017, 10554, 177-184.	1.3	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. Journal of Neurology, 2016, 263, 1927-1938.	3.6	23

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37	Chain-based big data access control infrastructure. Journal of Supercomputing, 2018, 74, 4945-4964.	3.6	23
38	Longitudinal structural gray matter and white matter MRI changes in presymptomatic progranulin mutation carriers. NeuroImage: Clinical, 2018, 19, 497-506.	2.7	21
39	Effect of Reconstruction Parameters on the Quantitative Analysis of Chest Computed Tomography. Journal of Thoracic Imaging, 2019, 34, 92-102.	1.5	21
40	Semiautomatic segmentation of longitudinal computed tomography images in a rat model of lung injury by surfactant depletion. Journal of Applied Physiology, 2015, 118, 377-385.	2.5	20
41	Retinal Image Denoising via Bilateral Filter with a Spatial Kernel of Optimally Oriented Line Spread Function. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-13.	1.3	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. Journal of Neurotrauma, 2018, 35, 991-1002.	3.4	20
43	Subspecialty-Level Deep Gray Matter Differential Diagnoses with Deep Learning and Bayesian Networks on Clinical Brain MRI: A Pilot Study. Radiology: Artificial Intelligence, 2020, 2, e190146.	5.8	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. Journal of Medical Imaging, 2015, 2, 024501.	1.5	19
46	Novel human intervertebral disc strain template to quantify regional threeâ€dimensional strains in a population and compare to internal strains predicted by a finite element model. Journal of Orthopaedic Research, 2016, 34, 1264-1273.	2.3	18
47	Ex vivo MRI and histopathology detect novel iron-rich cortical inflammation in frontotemporal lobar degeneration with tau versus TDP-43 pathology. NeuroImage: Clinical, 2022, 33, 102913.	2.7	17
48	Automatic longitudinal montaging of adaptive optics retinal images using constellation matching. Biomedical Optics Express, 2019, 10, 6476.	2.9	16
49	Estimation of image bias field with sparsity constraints. , 2010, , .		15
50	Eigenanatomy: Sparse dimensionality reduction for multi-modal medical image analysis. Methods, 2015, 73, 43-53.	3.8	15
51	Diminishing Efficacy of Prone Positioning With Late Application in Evolving Lung Injury. Critical Care Medicine, 2021, 49, e1015-e1024.	0.9	14
52	Retrospective illumination correction of retinal fundus images from gradient distribution sparsity. , 2012, , .		13
53	Subject-specific functional parcellation via Prior Based Eigenanatomy. NeuroImage, 2014, 99, 14-27.	4.2	13
54	Decomposing cerebral blood flow MRI into functional and structural components: A non-local approach based on prediction. NeuroImage, 2015, 105, 156-170.	4.2	13

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55	Machine learning suggests polygenic risk for cognitive dysfunction in amyotrophic lateral sclerosis. EMBO Molecular Medicine, 2021, 13, e12595.	6.9	13
56	A new scale for the assessment of conjunctival bulbar redness. Ocular Surface, 2018, 16, 436-440.	4.4	11
57	Joint alignment of multispectral images via semidefinite programming. Biomedical Optics Express, 2017, 8, 890.	2.9	10
58	A Generative Model for OCT Retinal Layer Segmentation by Integrating Graph-Based Multi-surface Searching and Image Registration. Lecture Notes in Computer Science, 2013, 16, 428-435.	1.3	10
59	CONSTRAINED QUADRILATERAL MESHES OF BOUNDED SIZE. International Journal of Computational Geometry and Applications, 2005, 15, 55-98.	0.5	8
60	Development and Evaluation of Semiautomated Quantification of Lissamine Green Staining of the Bulbar Conjunctiva From Digital Images. JAMA Ophthalmology, 2017, 135, 1078.	2.5	8
61	Multimodal Image Alignment via Linear Mapping between Feature Modalities. Journal of Healthcare Engineering, 2017, 2017, 1-6.	1.9	8
62	Automated data extraction and ensemble methods for predictive modeling of breast cancer outcomes after radiation therapy. Medical Physics, 2019, 46, 1054-1063.	3.0	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. Computerized Medical Imaging and Graphics, 2015, 46, 73-80.	5.8	7
67	V-Chain: A Blockchain-Based Car Lease Platform. , 2018, , .		7
68	Imageâ€•versus histogramâ€based considerations in semantic segmentation of pulmonary hyperpolarized gas images. Magnetic Resonance in Medicine, 2021, 86, 2822-2836.	3.0	6
69	Minimally interactive placenta segmentation from three-dimensional ultrasound images. Journal of Medical Imaging, 2020, 7, 1.	1.5	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. Neurobiology of Aging, 2022, 113, 95-107.	3.1	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 <scp>3D</scp> Ultrasound for Prediction of Smallâ€forâ€Gestationalâ€Age Infants. Journal of Ultrasound in Medicine, 2022, 41, 1509-1524.	1.7	4
75	Divergent Histopathological Networks of Frontotemporal Degeneration Proteinopathy Subytpes. Journal of Neuroscience, 2022, 42, 3868-3877.	3.6	4
76	Brain MRI Deep Learning and Bayesian Inference System Augments Radiology Resident Performance. Journal of Digital Imaging, 2021, 34, 1049-1058.	2.9	3
77	In vivo imaging of canine lung deformation: effects of posture, pneumonectomy, and inhaled erythropoietin. Journal of Applied Physiology, 2020, 128, 1093-1105.	2.5	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.	1.3	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.	1.3	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.	2.4	0

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91	Reduced longitudinal change in ¹⁸ Fâ€flortaucipir PET is associated with clinical phenotype in atypical Alzheimerâ€™s disease. Alzheimer's and Dementia, 2021, 17, .	0.8	0