James M Brown

List of Publications by Year in Descending Order

49 papers	2,427 citations	20 h-index	49 g-index
57 ext. papers	3,272 ext. citations	6.5 avg, IF	4.44 L-index

#	Paper	IF	Citations
49	Evaluation of a Deep Learning-Derived Quantitative Retinopathy of Prematurity Severity Scale. *Ophthalmology*, **2021**, 128, 1070-1076	7.3	9
48	DeepNeuro: an open-source deep learning toolbox for neuroimaging. *Neuroinformatics*, **2021**, 19, 127-140	3.2	11
47	Deep learning for computer-aided diagnosis in ophthalmology: a review **2021**, 219-237		
46	Applications of Artificial Intelligence for Retinopathy of Prematurity Screening. *Pediatrics*, **2021**, 147,	7.4	8
45	Radiomics Repeatability Pitfalls in a Scan-Rescan MRI Study of Glioblastoma. *Radiology: Artificial Intelligence*, **2021**, 3, e190199	8.7	12
44	Aggressive Posterior Retinopathy of Prematurity: Clinical and Quantitative Imaging Features in a Large North American Cohort. *Ophthalmology*, **2020**, 127, 1105-1112	7.3	11
43	Plus Disease in Retinopathy of Prematurity: Convolutional Neural Network Performance Using a Combined Neural Network and Feature Extraction Approach. *Translational Vision Science and Technology*, **2020**, 9, 10	3.3	9
42	Evaluation of artificial intelligence-based telemedicine screening for retinopathy of prematurity. *Journal of AAPOS*, **2020**, 24, 160-162	1.3	12
41	Siamese neural networks for continuous disease severity evaluation and change detection in medical imaging. *Npj Digital Medicine*, **2020**, 3, 48	15.7	31
40	NIMG-05. ADVANCED IMAGING TO ASSESS LONGITUDINAL VASCULAR CHANGES IN BRAIN METASTASES TREATED WITH CHECKPOINT INHIBITION. *Neuro-Oncology*, **2020**, 22, ii147-ii147	1	
39	Variability in Plus Disease Identified Using a Deep Learning-Based Retinopathy of Prematurity Severity Scale. *Ophthalmology Retina*, **2020**, 4, 1016-1021	3.8	4
38	Automated Fundus Image Quality Assessment in Retinopathy of Prematurity Using Deep Convolutional Neural Networks. *Ophthalmology Retina*, **2019**, 3, 444-450	3.8	31
37	Classification and comparison via neural networks. *Neural Networks*, **2019**, 118, 65-80	9.1	11
36	Automatic assessment of glioma burden: a deep learning algorithm for fully automated volumetric and bidimensional measurement. *Neuro-Oncology*, **2019**, 21, 1412-1422	1	76
35	Monitoring Disease Progression With a Quantitative Severity Scale for Retinopathy of Prematurity Using Deep Learning. *JAMA Ophthalmology*, **2019**,	3.9	43
34	A Quantitative Severity Scale for Retinopathy of Prematurity Using Deep Learning to Monitor Disease Regression After Treatment. *JAMA Ophthalmology*, **2019**,	3.9	31
33	Machine Learning Models can Detect Aneurysm Rupture and Identify Clinical Features Associated with Rupture. *World Neurosurgery*, **2019**, 131, e46-e51	2.1	20

32	Distributed deep learning networks among institutions for medical imaging. *Journal of the American Medical Informatics Association: JAMIA*, **2018**, 25, 945-954	8.6	137
31	Automated Diagnosis of Plus Disease in Retinopathy of Prematurity Using Deep Convolutional Neural Networks. *JAMA Ophthalmology*, **2018**, 136, 803-810	3.9	246
30	Sequential neural networks for biologically informed glioma segmentation **2018**,		5
29	Fully automated disease severity assessment and treatment monitoring in retinopathy of prematurity using deep learning **2018**,		12
28	Deep Learning for Image Quality Assessment of Fundus Images in Retinopathy of Prematurity **2018** , 2018, 1224-1232	0.7	8
27	Anatomical DCE-MRI phantoms generated from glioma patient data **2018**,		1
26	A bioimage informatics platform for high-throughput embryo phenotyping. *Briefings in Bioinformatics*, **2018**, 19, 41-51	13.4	6
25	Evaluation of a deep learning image assessment system for detecting severe retinopathy of prematurity. *British Journal of Ophthalmology*, **2018**,	5.5	53
24	NCOG-04. EFFECTS OF PROTON RADIATION ON BRAIN STRUCTURE AND FUNCTION IN LOW GRADE GLIOMA. *Neuro-Oncology*, **2018**, 20, vi173-vi173	1	78
23	NIMG-68. MRI CHANGES IN NEWLY DIAGNOSED GLIOBLASTOMA PATIENTS TREATED AS PART OF A PHASE II TRIAL WITH BAVITUXIMAB, RADIATION, AND TEMOZOLOMIDE. *Neuro-Oncology*, **2018**, 20, vi191-vi191	1	78
22	ISLES 2016 and 2017-Benchmarking Ischemic Stroke Lesion Outcome Prediction Based on Multispectral MRI. *Frontiers in Neurology*, **2018**, 9, 679	4.1	77
21	Detection and characterisation of bone destruction in murine rheumatoid arthritis using statistical shape models. *Medical Image Analysis*, **2017**, 40, 30-43	15.4	10
20	Disease model discovery from 3,328 gene knockouts by The International Mouse Phenotyping Consortium. *Nature Genetics*, **2017**, 49, 1231-1238	36.3	145
19	High-throughput discovery of novel developmental phenotypes. *Nature*, **2016**, 537, 508-514	50.4	608
18	Rapid Expansion of Human Epithelial Stem Cells Suitable for Airway Tissue Engineering. *American Journal of Respiratory and Critical Care Medicine*, **2016**, 194, 156-68	10.2	121
17	Comparative visualization of genotype-phenotype relationships. *Nature Methods*, **2015**, 12, 698-9	21.6	1
16	A mouse informatics platform for phenotypic and translational discovery. *Mammalian Genome*, **2015**, 26, 413-21	3.2	20
15	When do you look where you look? A visual field asymmetry. *Vision Research*, **2014**, 102, 33-40	2.1	8

14	The object advantage can be eliminated under equiluminant conditions. *Psychonomic Bulletin and Review*, **2014**, 21, 1459-64	4.1	
13	3D Articulated Registration of the Mouse Hind Limb for Bone Morphometric Analysis in Rheumatoid Arthritis. *Lecture Notes in Computer Science*, **2014**, 41-50	0.9	
12	Stochastic homeostasis in human airway epithelium is achieved by neutral competition of basal cell progenitors. *ELife*, **2013**, 2, e00966	8.9	87
11	Magnocellular and parvocellular pathway influences on location-based inhibition-of-return. *Perception*, **2012**, 41, 319-38	1.2	2
10	Suitability of endobronchial ultrasound-guided transbronchial needle aspiration specimens for subtyping and genotyping of non-small cell lung cancer: a multicenter study of 774 patients. *American Journal of Respiratory and Critical Care Medicine*, **2012**, 185, 1316-22	10.2	196
9	Combination of endobronchial ultrasound-guided transbronchial needle aspiration with standard bronchoscopic techniques for the diagnosis of stage I and stage II pulmonary sarcoidosis. *Respirology*, **2011**, 16, 467-72	3.6	82
8	The effect of a red background on location backward masking by structure. *Perception & Psychophysics*, **2008**, 70, 503-7		11
7	Effects of endogenous spatial attention on the detection and discrimination of spatial frequencies. *Perception*, **2006**, 35, 193-200	1.2	5
6	Schizophrenia and red light: fMRI evidence for a novel biobehavioral marker. *International Journal of Neuroscience*, **2006**, 116, 881-94	2	25
5	The path of visual attention. *Acta Psychologica*, **2006**, 121, 199-209	1.7	10
4	Proximity Sensing Using IEEE 802.15.4 Radios. *Lecture Notes in Computer Science*, **2006**, 248-249	0.9	
3	Does insulin therapy lead to an increased risk of cancer in type 2 diabetes mellitus?. *Practical Diabetes International: the International Journal for Diabetes Care Teams Worldwide*, **2005**, 22, 77-78		0
2	Functional magnetic resonance imaging examination of the magnocellular visual pathway in nonpsychotic relatives of persons with schizophrenia. *Schizophrenia Research*, **2004**, 71, 509-10	3.6	14
1	The magnocellular visual system and schizophrenia: what can the color red tell us?. *Schizophrenia Research*, **2003**, 63, 273-84	3.6	53