Michel Bilello

List of Publications by Year
in descending order

42 papers	3,498 citations	279487 23 h-index	288905 40 g-index
42 all docs	42 docs citations	42 times ranked	4246 citing authors

#	Article	IF	Citations
1	Advancing The Cancer Genome Atlas glioma MRI collections with expert segmentation labels and radiomic features. Scientific Data, 2017, 4, 170117.	2.4	1,555
2	Imaging patterns predict patient survival and molecular subtype in glioblastoma via machine learning techniques. Neuro-Oncology, 2016, 18, 417-425.	0.6	243
3	GLISTR: Glioma Image Segmentation and Registration. IEEE Transactions on Medical Imaging, 2012, 31, 1941-1954.	5.4	181
4	Stroke After Aortic Valve Surgery. Circulation, 2014, 129, 2253-2261.	1.6	181
5	Epidermal Growth Factor Receptor Extracellular Domain Mutations in Glioblastoma Present Opportunities for Clinical Imaging and Therapeutic Development. Cancer Cell, 2018, 34, 163-177.e7.	7.7	145
6	Radiomic MRI signature reveals three distinct subtypes of glioblastoma with different clinical and molecular characteristics, offering prognostic value beyond IDH1. Scientific Reports, 2018, 8, 5087.	1.6	124
7	Imaging Surrogates of Infiltration Obtained Via Multiparametric Imaging Pattern Analysis Predict Subsequent Location of Recurrence of Glioblastoma. Neurosurgery, 2016, 78, 572-580.	0.6	116
8	Proposed Standardized Neurological Endpoints for Cardiovascular Clinical Trials. Journal of the American College of Cardiology, 2017, 69, 679-691.	1.2	110
9	Cancer imaging phenomics toolkit: quantitative imaging analytics for precision diagnostics and predictive modeling of clinical outcome. Journal of Medical Imaging, 2018, 5, 1.	0.8	110
10	Radiomic signature of infiltration in peritumoral edema predicts subsequent recurrence in glioblastoma: implications for personalized radiotherapy planning. Journal of Medical Imaging, 2018, 5, 1.	0.8	82
11	Correlating Cognitive Decline with White Matter Lesion and Brain Atrophy Magnetic Resonance Imaging Measurements inÂAlzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2015, 48, 987-994.	1.2	67
12	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
13	Population-based MRI atlases of spatial distribution are specific to patient and tumor characteristics in glioblastoma. NeuroImage: Clinical, 2016, 12, 34-40.	1.4	49
14	Automated Tumor Volumetry Using Computer-Aided Image Segmentation. Academic Radiology, 2015, 22, 653-661.	1.3	39
15	Proposed Standardized Neurological Endpoints for Cardiovascular Clinical Trials. European Heart Journal, 2018, 39, 1687-1697.	1.0	38
16	PORTR: Pre-Operative and Post-Recurrence Brain Tumor Registration. IEEE Transactions on Medical Imaging, 2014, 33, 651-667.	5.4	37
17	Brain extraction on MRI scans in presence of diffuse glioma: Multi-institutional performance evaluation of deep learning methods and robust modality-agnostic training. NeuroImage, 2020, 220, 117081.	2.1	35
18	Brain Cancer Imaging Phenomics Toolkit (brain-CaPTk): An Interactive Platform for Quantitative Analysis of Glioblastoma. Lecture Notes in Computer Science, 2018, 10670, 133-145.	1.0	32

#	Article	IF	Citations
19	Pathogenesis and Risk Factors for Cerebral Infarct After Surgical Aortic Valve Replacement. Stroke, 2016, 47, 2130-2132.	1.0	26
20	Cancer Imaging Phenomics via CaPTk: Multi-Institutional Prediction of Progression-Free Survival and Pattern of Recurrence in Glioblastoma. JCO Clinical Cancer Informatics, 2020, 4, 234-244.	1.0	26
21	Overall survival prediction in glioblastoma patients using structural magnetic resonance imaging (MRI): advanced radiomic features may compensate for lack of advanced MRI modalities. Journal of Medical Imaging, 2020, 7, 1.	0.8	26
22	Reproducibility analysis of multiâ€institutional paired expert annotations and radiomic features of the Ivy Glioblastoma Atlas Project (Ivy GAP) dataset. Medical Physics, 2020, 47, 6039-6052.	1.6	25
23	Sickle cell anemia: Intracranial stenosis and silent cerebral infarcts in children with low risk of stroke. Advances in Medical Sciences, 2014, 59, 108-113.	0.9	23
24	The impact of pontine disease on lower urinary tract symptoms in patients with multiple sclerosis. Neurourology and Urodynamics, 2017, 36, 453-456.	0.8	23
25	A level set method for multiple sclerosis lesion segmentation. Magnetic Resonance Imaging, 2018, 49, 94-100.	1.0	19
26	Do All Patients with Multiple Sclerosis Benefit from the Use of Contrast on Serial Follow-Up MR Imaging? A Retrospective Analysis. American Journal of Neuroradiology, 2018, 39, 2001-2006.	1.2	18
27	An energy minimization method for MS lesion segmentation from T1-w and FLAIR images. Magnetic Resonance Imaging, 2017, 39, 1-6.	1.0	14
28	An Initiative to Reduce Unnecessary Gadolinium-Based Contrast in Multiple Sclerosis Patients. Journal of the American College of Radiology, 2019, 16, 1158-1164.	0.9	14
29	Combining MRI and Histologic Imaging Features for Predicting Overall Survival in Patients with Glioma. Radiology Imaging Cancer, 2021, 3, e200108.	0.7	12
30	Multi-institutional noninvasive in vivo characterization of IDH, 1p/19q, and EGFRvIII in glioma using neuro-Cancer Imaging Phenomics Toolkit (neuro-CaPTk). Neuro-Oncology Advances, 2020, 2, iv22-iv34.	0.4	12
31	Statistical Atlas of Acute Stroke From Magnetic Resonance Diffusion-Weighted-Images of the Brain. Neuroinformatics, 2006, 4, 235-242.	1.5	8
32	Association between urinary symptom severity and white matter plaque distribution in women with multiple sclerosis. Neurourology and Urodynamics, 2020, 39, 339-346.	0.8	8
33	An Approach to Comparing Accuracies of Two Flair MR Sequences in the Detection of Multiple Sclerosis Lesions in the Brain in the Absence of Gold Standard. Academic Radiology, 2010, 17, 686-695.	1.3	7
34	Limbic pathway lesions in patients with multiple sclerosis. Acta Radiologica, 2016, 57, 341-347.	0.5	7
35	A Deep Network for Joint Registration and Reconstruction of Images with Pathologies. Lecture Notes in Computer Science, 2020, 12436, 342-352.	1.0	7
36	Patient-Specific Registration of Pre-operative and Post-recurrence Brain Tumor MRI Scans. Lecture Notes in Computer Science, 2019, 11383, 105-114.	1.0	6

#	Article	IF	Citations
37	Integrative radiomic analysis for pre-surgical prognostic stratification of glioblastoma patients: from advanced to basic MRI protocols. , 2020, 11315, .		4
38	Economic impact of selective use of contrast for routine followâ€up MRI of patients with multiple sclerosis. Journal of Neuroimaging, 2022, 32, 656-666.	1.0	3
39	What Makes New Ischemic Lesions Symptomatic after Aortic Valve Replacement?. Journal of Stroke and Cerebrovascular Diseases, 2017, 26, 2943-2948.	0.7	2
40	Neuro-Thoracic Radiologists â€œCornerâ€• Incidental Pulmonary Findings on a Neck MRI Leading to the Diagnosis of COVID-19. American Journal of Neuroradiology, 2020, 41, E78-E79.	1.2	2
41	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. Stroke, 2021, 52, 3419-3426.	1.0	1
42	Multimodal Ensemble-Based Segmentation of White Matter Lesions and Analysis of Their Differential Characteristics across Major Brain Regions. Applied Sciences (Switzerland), 2020, 10, 1903.	1.3	0