Omar Arnaout

List of Publications by Year
in descending order

44 papers	2,881 citations	361413 20 h-index	315739 38 g-index
45 all docs	45 docs citations	45 times ranked	4319 citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial intelligence in cancer imaging: Clinical challenges and applications. Ca-A Cancer Journal for Clinicians, 2019, 69, 127-157.	329.8	965
2	Machine Learning and Neurosurgical Outcome Prediction: A Systematic Review. World Neurosurgery, 2018, 109, 476-486.e1.	1.3	302
3	Residual Convolutional Neural Network for the Determination of <i>IDH</i> Status in Low- and High-Grade Gliomas from MR Imaging. Clinical Cancer Research, 2018, 24, 1073-1081.	7.0	297
4	Natural and Artificial Intelligence in Neurosurgery: A Systematic Review. Neurosurgery, 2018, 83, 181-192.	1.1	182
5	Endovascular Stenting of Extracranial Carotid and Vertebral Artery Dissections: A Systematic Review of the Literature. Neurosurgery, 2011, 68, 856-866.	1.1	143
6	Automatic assessment of glioma burden: a deep learning algorithm for fully automated volumetric and bidimensional measurement. Neuro-Oncology, 2019, 21, 1412-1422.	1.2	128
7	An introduction and overview of machine learning in neurosurgical care. Acta Neurochirurgica, 2018, 160, 29-38.	1.7	116
8	Machine learning reveals multimodal MRI patterns predictive of isocitrate dehydrogenase and 1p/19q status in diffuse low- and high-grade gliomas. Journal of Neuro-Oncology, 2019, 142, 299-307.	2.9	98
9	Moyamoya disease: a review of histopathology, biochemistry, and genetics. Neurosurgical Focus, 2011, 30, E20.	2.3	76
10	An Online Calculator for the Prediction of Survival in Glioblastoma Patients Using Classical Statistics and Machine Learning. Neurosurgery, 2020, 86, E184-E192.	1.1	75
11	Machine Learning Models can Detect Aneurysm Rupture and Identify Clinical Features Associated with Rupture. World Neurosurgery, 2019, 131, e46-e51.	1.3	45
12	The Effectiveness of Antiepileptic Medications as Prophylaxis of Early Seizure in Patients with Traumatic Brain Injury Compared with Placebo or No Treatment: A Systematic Review and Meta-Analysis. World Neurosurgery, 2019, 122, 433-440.	1.3	42
13	Contemporary assessment of extent of resection in molecularly defined categories of diffuse low-grade glioma: a volumetric analysis. Journal of Neurosurgery, 2020, 133, 1291-1301.	1.6	35
14	Letter: Adaptation Under Fire: Two Harvard Neurosurgical Services During the COVID-19 Pandemic. Neurosurgery, 2020, 87, E173-E177.	1.1	30
15	Decompressive hemicraniectomy after malignant middle cerebral artery infarction: rationale and controversies. Neurosurgical Focus, 2011, 30, E18.	2.3	29
16	Natural Language Processing for Automated Quantification of Brain Metastases Reported in Free-Text Radiology Reports. JCO Clinical Cancer Informatics, 2019, 3, 1-9.	2.1	28
17	De Novo Large Fusiform Posterior Circulation Intracranial Aneurysm Presenting With Subarachnoid Hemorrhage 7 Years After Therapeutic Internal Carotid Artery Occlusion. Neurosurgery, 2012, 71, E764-E771.	1.1	26
18	Survival after surgery and stereotactic radiosurgery for patients with multiple intracranial metastases: results of a single-center retrospective study. Journal of Neurosurgery, 2014, 121, 839-845.	1.6	26

#	Article	IF	Citations
19	Survival prediction of glioblastoma patients—are we there yet? A systematic review of prognostic modeling for glioblastoma and its clinical potential. Neurosurgical Review, 2021, 44, 2047-2057.	2.4	25
20	Reconstruction of pterional defects after frontotemporal and orbitozygomatic craniotomy using Medpor Titan implant: Cosmetic results in 98 patients. Clinical Neurology and Neurosurgery, 2013, 115, 1716-1720.	1.4	24
21	Surgical Resection and Adjuvant Radiation Therapy in the Treatment of Skull Base Chordomas. World Neurosurgery, 2018, 115, e13-e21.	1.3	24
22	Classification of glioblastoma versus primary central nervous system lymphoma using convolutional neural networks. Scientific Reports, 2021, 11, 15219.	3.3	21
23	Fibrinolytics and Intraventricular Hemorrhage: A Systematic Review and Meta-analysis. Neurocritical Care, 2020, 32, 262-271.	2.4	19
24	The Surgical Resection of Brainstem Glioma: Outcomes and Prognostic Factors. World Neurosurgery, 2021, 146, e639-e650.	1.3	17
25	Automating Clinical Chart Review: An Open-Source Natural Language Processing Pipeline Developed on Free-Text Radiology Reports From Patients With Glioblastoma. JCO Clinical Cancer Informatics, 2020, 4, 25-34.	2.1	15
26	Tumor-Associated Macrophages/Microglia in Glioblastoma Oncolytic Virotherapy: A Double-Edged Sword. International Journal of Molecular Sciences, 2022, 23, 1808.	4.1	15
27	Therapeutic cancer vaccines for pediatric malignancies: advances, challenges, and emerging technologies. Neuro-Oncology Advances, 2021, 3, vdab027.	0.7	13
28	Clinical utility of targeted next-generation sequencing assay in IDH-wildtype glioblastoma for therapy decision-making. Neuro-Oncology, 2022, 24, 1140-1149.	1.2	13
29	Combined petrosal approach for petroclival meningioma. Neurosurgical Focus, 2017, 43, V6.	2.3	11
30	Deep Learning for Adjacent Segment Disease at Preoperative MRI for Cervical Radiculopathy. Radiology, 2021, 301, 664-671.	7.3	10
31	Information-Based Medicine in Glioma Patients: A Clinical Perspective. Computational and Mathematical Methods in Medicine, 2018, 2018, 1-6.	1.3	9
32	Severe Radiation Necrosis Refractory to Surgical Resection in Patients with Melanoma and Brain Metastases Managed with Ipilimumab/Nivolumab and Brain-Directed Stereotactic Radiation Therapy. World Neurosurgery, 2020, 139, 226-231.	1.3	5
33	CTNI-12. PRELIMINARY RESULTS OF THE ABEMACICLIB ARM IN THE INDIVIDUALIZED SCREENING TRIAL OF INNOVATIVE GLIOBLASTOMA THERAPY (INSIGHT): A PHASE II PLATFORM TRIAL USING BAYESIAN ADAPTIVE RANDOMIZATION. Neuro-Oncology, 2020, 22, ii44-ii44.	1.2	5
34	Intracranial complications of hypercoagulability and superinfection in the setting of COVID-19: illustrative cases. Journal of Neurosurgery Case Lessons, 2022, 3, .	0.3	5
35	CTNI-11. CC-115 IN NEWLY DIAGNOSED MGMT UNMETHYLATED GLIOBLASTOMA IN THE INDIVIDUALIZED SCREENING TRIAL OF INNOVATIVE GLIOBLASTOMA THERAPY (INSIGHT): A PHASE II RANDOMIZED BAYESIAN ADAPTIVE PLATFORM TRIAL. Neuro-Oncology, 2020, 22, ii43-ii44.	1.2	3
36	Intracranial Retrievable Stenting for Septic Emboli. World Neurosurgery, 2012, 77, 470-471.	1.3	1

#	Article	IF	Citations
37	Unexpected Resolution of a Symptomatic Tarlov Cyst Following Hysterectomy. JAMA Neurology, 2020, 77, 1032.	9.0	1
38	Survival Prediction After Neurosurgical Resection of Brain Metastases: A Machine Learning Approach. Neurosurgery, 2022, Publish Ahead of Print, .	1.1	1
39	Thrombin Inhibition in Subarachnoid Hemorrhage. Neurosurgery, 2009, 65, N9-N10.	1.1	0
40	HOUT-20. AN ONLINE CALCULATOR FOR THE PREDICTION OF SURVIVAL AND ADJUVANT TREATMENT BENEFIT IN GLIOBLASTOMA PATIENTS. Neuro-Oncology, 2018, 20, vi117-vi117.	1.2	0
41	Artificial intelligence for management of patients with intracranial neoplasms. , 2020, , 203-230.		0
42	Automated Meningioma Detection and Segmentation Using Deep Neural Networks. , 2020, 81, .		0
43	TMOD-34. PATIENT-DERIVED XENOGRAFT AND CELL LINE MODELS FACILITATE NOVEL TREATMENT DISCOVERY IN CENTRAL NERVOUS SYSTEM LYMPHOMAS. Neuro-Oncology, 2020, 22, ii235-ii235.	1.2	0
44	SURG-02. SURVIVAL PREDICTION AFTER NEUROSURGICAL RESECTION OF BRAIN METASTASES: A MACHINE LEARNING APPROACH. Neuro-Oncology, 2020, 22, ii203-ii203.	1.2	0