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	Tumor-Associated Macrophages/Microglia in Glioblastoma Oncolytic Virotherapy: A Double-Edged Sword. International Journal of Molecular Sciences, 2022, 23, 1808.	4.1	15
2	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
3	Survival Prediction After Neurosurgical Resection of Brain Metastases: A Machine Learning Approach. Neurosurgery, 2022, Publish Ahead of Print, .	1.1	1
4	Intracranial complications of hypercoagulability and superinfection in the setting of COVID-19: illustrative cases. Journal of Neurosurgery Case Lessons, 2022, 3, .	0.3	5
5	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
6	The Surgical Resection of Brainstem Glioma: Outcomes and Prognostic Factors. World Neurosurgery, 2021, 146, e639-e650.	1.3	17
7	Therapeutic cancer vaccines for pediatric malignancies: advances, challenges, and emerging technologies. Neuro-Oncology Advances, 2021, 3, vdab027.	0.7	13
8	Classification of glioblastoma versus primary central nervous system lymphoma using convolutional neural networks. Scientific Reports, 2021, 11, 15219.	3.3	21
9	Deep Learning for Adjacent Segment Disease at Preoperative MRI for Cervical Radiculopathy. Radiology, 2021, 301, 664-671.	7.3	10
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	Fibrinolytics and Intraventricular Hemorrhage: A Systematic Review and Meta-analysis. Neurocritical Care, 2020, 32, 262-271.	2.4	19
12	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
13	Unexpected Resolution of a Symptomatic Tarlov Cyst Following Hysterectomy. JAMA Neurology, 2020, 77, 1032.	9.0	1
14	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
15	Artificial intelligence for management of patients with intracranial neoplasms. , 2020, , 203-230.		0
16	Letter: Adaptation Under Fire: Two Harvard Neurosurgical Services During the COVID-19 Pandemic. Neurosurgery, 2020, 87, E173-E177.	1.1	30
17	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
18	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

#	Article	IF	Citations
19	Automated Meningioma Detection and Segmentation Using Deep Neural Networks. , 2020, 81, .		0
20	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
21	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
22	SURG-02. SURVIVAL PREDICTION AFTER NEUROSURGICAL RESECTION OF BRAIN METASTASES: A MACHINE LEARNING APPROACH. Neuro-Oncology, 2020, 22, ii203-ii203.	1.2	0
23	Machine Learning Models can Detect Aneurysm Rupture and Identify Clinical Features Associated with Rupture. World Neurosurgery, 2019, 131, e46-e51.	1.3	45
24	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
25	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
26	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
27	Artificial intelligence in cancer imaging: Clinical challenges and applications. Ca-A Cancer Journal for Clinicians, 2019, 69, 127-157.	329.8	965
28	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
29	Natural and Artificial Intelligence in Neurosurgery: A Systematic Review. Neurosurgery, 2018, 83, 181-192.	1.1	182
30	Surgical Resection and Adjuvant Radiation Therapy in the Treatment of Skull Base Chordomas. World Neurosurgery, 2018, 115, e13-e21.	1.3	24
31	Machine Learning and Neurosurgical Outcome Prediction: A Systematic Review. World Neurosurgery, 2018, 109, 476-486.e1.	1.3	302
32	Residual Convolutional Neural Network for the Determination of *IDH* Status in Low- and High-Grade Gliomas from MR Imaging. Clinical Cancer Research, 2018, 24, 1073-1081.	7.0	297
33	An introduction and overview of machine learning in neurosurgical care. Acta Neurochirurgica, 2018, 160, 29-38.	1.7	116
34	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
35	Information-Based Medicine in Glioma Patients: A Clinical Perspective. Computational and Mathematical Methods in Medicine, 2018, 2018, 1-6.	1.3	9
36	Combined petrosal approach for petroclival meningioma. Neurosurgical Focus, 2017, 43, V6.	2.3	11

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37	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
38	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
39	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
40	Intracranial Retrievable Stenting for Septic Emboli. World Neurosurgery, 2012, 77, 470-471.	1.3	1
41	Endovascular Stenting of Extracranial Carotid and Vertebral Artery Dissections: A Systematic Review of the Literature. Neurosurgery, 2011, 68, 856-866.	1.1	143
42	Moyamoya disease: a review of histopathology, biochemistry, and genetics. Neurosurgical Focus, 2011, 30, E20.	2.3	76
43	Decompressive hemicraniectomy after malignant middle cerebral artery infarction: rationale and controversies. Neurosurgical Focus, 2011, 30, E18.	2.3	29
44	Thrombin Inhibition in Subarachnoid Hemorrhage. Neurosurgery, 2009, 65, N9-N10.	1.1	0