

Omar Arnaout

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

2,881
citations

361296

20
h-index

315616

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. <i>Ca-A Cancer Journal for Clinicians</i> , 2019, 69, 127-157.	157.7	965
2	Machine Learning and Neurosurgical Outcome Prediction: A Systematic Review. <i>World Neurosurgery</i> , 2018, 109, 476-486.e1.	0.7	302
3	Residual Convolutional Neural Network for the Determination of <i>IDH</i> Status in Low- and High-Grade Gliomas from MR Imaging. <i>Clinical Cancer Research</i> , 2018, 24, 1073-1081.	3.2	297
4	Natural and Artificial Intelligence in Neurosurgery: A Systematic Review. <i>Neurosurgery</i> , 2018, 83, 181-192.	0.6	182
5	Endovascular Stenting of Extracranial Carotid and Vertebral Artery Dissections: A Systematic Review of the Literature. <i>Neurosurgery</i> , 2011, 68, 856-866.	0.6	143
6	Automatic assessment of glioma burden: a deep learning algorithm for fully automated volumetric and bidimensional measurement. <i>Neuro-Oncology</i> , 2019, 21, 1412-1422.	0.6	128
7	An introduction and overview of machine learning in neurosurgical care. <i>Acta Neurochirurgica</i> , 2018, 160, 29-38.	0.9	116
8	Machine learning reveals multimodal MRI patterns predictive of isocitrate dehydrogenase and 1p/19q status in diffuse low- and high-grade gliomas. <i>Journal of Neuro-Oncology</i> , 2019, 142, 299-307.	1.4	98
9	Moyamoya disease: a review of histopathology, biochemistry, and genetics. <i>Neurosurgical Focus</i> , 2011, 30, E20.	1.0	76
10	An Online Calculator for the Prediction of Survival in Glioblastoma Patients Using Classical Statistics and Machine Learning. <i>Neurosurgery</i> , 2020, 86, E184-E192.	0.6	75
11	Machine Learning Models can Detect Aneurysm Rupture and Identify Clinical Features Associated with Rupture. <i>World Neurosurgery</i> , 2019, 131, e46-e51.	0.7	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. <i>World Neurosurgery</i> , 2019, 122, 433-440.	0.7	42
13	Contemporary assessment of extent of resection in molecularly defined categories of diffuse low-grade glioma: a volumetric analysis. <i>Journal of Neurosurgery</i> , 2020, 133, 1291-1301.	0.9	35
14	Letter: Adaptation Under Fire: Two Harvard Neurosurgical Services During the COVID-19 Pandemic. <i>Neurosurgery</i> , 2020, 87, E173-E177.	0.6	30
15	Decompressive hemicraniectomy after malignant middle cerebral artery infarction: rationale and controversies. <i>Neurosurgical Focus</i> , 2011, 30, E18.	1.0	29
16	Natural Language Processing for Automated Quantification of Brain Metastases Reported in Free-Text Radiology Reports. <i>JCO Clinical Cancer Informatics</i> , 2019, 3, 1-9.	1.0	28
17	De Novo Large Fusiform Posterior Circulation Intracranial Aneurysm Presenting With Subarachnoid Hemorrhage 7 Years After Therapeutic Internal Carotid Artery Occlusion. <i>Neurosurgery</i> , 2012, 71, E764-E771.	0.6	26
18	Survival after surgery and stereotactic radiosurgery for patients with multiple intracranial metastases: results of a single-center retrospective study. <i>Journal of Neurosurgery</i> , 2014, 121, 839-845.	0.9	26

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19	Survival prediction of glioblastoma patients“are we there yet? A systematic review of prognostic modeling for glioblastoma and its clinical potential. <i>Neurosurgical Review</i> , 2021, 44, 2047-2057.	1.2	25
20	Reconstruction of pterional defects after frontotemporal and orbitozygomatic craniotomy using Medpor Titan implant: Cosmetic results in 98 patients. <i>Clinical Neurology and Neurosurgery</i> , 2013, 115, 1716-1720.	0.6	24
21	Surgical Resection and Adjuvant Radiation Therapy in the Treatment of Skull Base Chordomas. <i>World Neurosurgery</i> , 2018, 115, e13-e21.	0.7	24
22	Classification of glioblastoma versus primary central nervous system lymphoma using convolutional neural networks. <i>Scientific Reports</i> , 2021, 11, 15219.	1.6	21
23	Fibrinolytics and Intraventricular Hemorrhage: A Systematic Review and Meta-analysis. <i>Neurocritical Care</i> , 2020, 32, 262-271.	1.2	19
24	The Surgical Resection of Brainstem Glioma: Outcomes and Prognostic Factors. <i>World Neurosurgery</i> , 2021, 146, e639-e650.	0.7	17
25	Automating Clinical Chart Review: An Open-Source Natural Language Processing Pipeline Developed on Free-Text Radiology Reports From Patients With Glioblastoma. <i>JCO Clinical Cancer Informatics</i> , 2020, 4, 25-34.	1.0	15
26	Tumor-Associated Macrophages/Microglia in Glioblastoma Oncolytic Virotherapy: A Double-Edged Sword. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1808.	1.8	15
27	Therapeutic cancer vaccines for pediatric malignancies: advances, challenges, and emerging technologies. <i>Neuro-Oncology Advances</i> , 2021, 3, vdab027.	0.4	13
28	Clinical utility of targeted next-generation sequencing assay in IDH-wildtype glioblastoma for therapy decision-making. <i>Neuro-Oncology</i> , 2022, 24, 1140-1149.	0.6	13
29	Combined petrosal approach for petroclival meningioma. <i>Neurosurgical Focus</i> , 2017, 43, V6.	1.0	11
30	Deep Learning for Adjacent Segment Disease at Preoperative MRI for Cervical Radiculopathy. <i>Radiology</i> , 2021, 301, 664-671.	3.6	10
31	Information-Based Medicine in Glioma Patients: A Clinical Perspective. <i>Computational and Mathematical Methods in Medicine</i> , 2018, 2018, 1-6.	0.7	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. <i>World Neurosurgery</i> , 2020, 139, 226-231.	0.7	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. <i>Neuro-Oncology</i> , 2020, 22, ii44-ii44.	0.6	5
34	Intracranial complications of hypercoagulability and superinfection in the setting of COVID-19: illustrative cases. <i>Journal of Neurosurgery Case Lessons</i> , 2022, 3, .	0.1	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. <i>Neuro-Oncology</i> , 2020, 22, ii43-ii44.	0.6	3
36	Intracranial Retrievable Stenting for Septic Emboli. <i>World Neurosurgery</i> , 2012, 77, 470-471.	0.7	1

#	ARTICLE	IF	CITATIONS
37	Unexpected Resolution of a Symptomatic Tarlov Cyst Following Hysterectomy. JAMA Neurology, 2020, 77, 1032.	4.5	1
38	Survival Prediction After Neurosurgical Resection of Brain Metastases: A Machine Learning Approach. Neurosurgery, 2022, Publish Ahead of Print, .	0.6	1
39	Thrombin Inhibition in Subarachnoid Hemorrhage. Neurosurgery, 2009, 65, N9-N10.	0.6	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.	0.6	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.	0.6	0
44	SURG-02. SURVIVAL PREDICTION AFTER NEUROSURGICAL RESECTION OF BRAIN METASTASES: A MACHINE LEARNING APPROACH. Neuro-Oncology, 2020, 22, ii203-ii203.	0.6	0