

# Alfredo Quinones-Hinojosa

## List of Publications by Year in descending order

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259  
papers

10,335  
citations

28274

55  
h-index

46799

89  
g-index

268  
all docs

268  
docs citations

268  
times ranked

12890  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular composition and cytoarchitecture of the adult human subventricular zone: A niche of neural stem cells. <i>Journal of Comparative Neurology</i> , 2006, 494, 415-434.	1.6	501
2	EXTENT OF SURGICAL RESECTION IS INDEPENDENTLY ASSOCIATED WITH SURVIVAL IN PATIENTS WITH HEMISPHERIC INFILTRATING LOW-GRADE GLIOMAS. <i>Neurosurgery</i> , 2008, 63, 700-708.	1.1	476
3	Establishing percent resection and residual volume thresholds affecting survival and recurrence for patients with newly diagnosed intracranial glioblastoma. <i>Neuro-Oncology</i> , 2014, 16, 113-122.	1.2	400
4	Detection of tumor-derived DNA in cerebrospinal fluid of patients with primary tumors of the brain and spinal cord. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9704-9709.	7.1	317
5	Advances in Brain Tumor Surgery for Glioblastoma in Adults. <i>Brain Sciences</i> , 2017, 7, 166.	2.3	213
6	Treatment of brain metastases with stereotactic radiosurgery and immune checkpoint inhibitors: An international meta-analysis of individual patient data. <i>Radiotherapy and Oncology</i> , 2019, 130, 104-112.	0.6	189
7	Multiple resections for patients with glioblastoma: prolonging survival. <i>Journal of Neurosurgery</i> , 2013, 118, 812-820.	1.6	166
8	Surgical outcomes for older patients with glioblastoma multiforme: preoperative factors associated with decreased survival. <i>Journal of Neurosurgery</i> , 2011, 114, 587-594.	1.6	156
9	Next-generation sequencing in neuropathologic diagnosis of infections of the nervous system. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2016, 3, e251.	6.0	142
10	Regulation of Brain Tumor Dispersal by NKCC1 Through a Novel Role in Focal Adhesion Regulation. <i>PLoS Biology</i> , 2012, 10, e1001320.	5.6	140
11	When Gross Total Resection of a Glioblastoma Is Possible, How Much Resection Should Be Achieved?. <i>World Neurosurgery</i> , 2014, 82, e257-e265.	1.3	140
12	Changes in transcranial motor evoked potentials during intramedullary spinal cord tumor resection correlate with postoperative motor function. <i>Neurosurgery</i> , 2005, 56, 982-93; discussion 982-93.	1.1	138
13	Non-viral gene delivery nanoparticles based on Poly( $\beta$ -amino esters) for treatment of glioblastoma. <i>Biomaterials</i> , 2011, 32, 5402-5410.	11.4	133
14	Preoperative correlation of intraoperative cortical mapping with magnetic resonance imaging landmarks to predict localization of the Broca area. <i>Journal of Neurosurgery</i> , 2003, 99, 311-318.	1.6	130
15	Awake Craniotomy vs Craniotomy Under General Anesthesia for Periolandic Gliomas: Evaluating Perioperative Complications and Extent of Resection. <i>Neurosurgery</i> , 2017, 81, 481-489.	1.1	130
16	Human astrocytes develop physiological morphology and remain quiescent in a novel 3D matrix. <i>Biomaterials</i> , 2015, 42, 134-143.	11.4	129
17	The human subventricular zone: A source of new cells and a potential source of brain tumors. <i>Experimental Neurology</i> , 2007, 205, 313-324.	4.1	127
18	A proposed classification system that projects outcomes based on preoperative variables for adult patients with glioblastoma multiforme. <i>Journal of Neurosurgery</i> , 2010, 112, 997-1004.	1.6	125

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19	Augmented reality for the surgeon: Systematic review. International Journal of Medical Robotics and Computer Assisted Surgery, 2018, 14, e1914.	2.3	124
20	Brain-on-a-chip model enables analysis of human neuronal differentiation and chemotaxis. Lab on A Chip, 2016, 16, 4152-4162.	6.0	119
21	Trends in glioblastoma: outcomes over time and type of intervention: a systematic evidence based analysis. Journal of Neuro-Oncology, 2020, 147, 297-307.	2.9	116
22	The Value of Extent of Resection of Glioblastomas: Clinical Evidence and Current Approach. Current Neurology and Neuroscience Reports, 2015, 15, 517.	4.2	113
23	Switch-like enhancement of epithelial-mesenchymal transition by YAP through feedback regulation of WTI and Rho-family GTPases. Nature Communications, 2019, 10, 2797.	12.8	105
24	Transcranial Motor Evoked Potentials during Basilar Artery Aneurysm Surgery: Technique Application for 30 Consecutive Patients. Neurosurgery, 2004, 54, 916-924.	1.1	104
25	Identifying Recurrent Malignant Glioma after Treatment Using Amide Proton Transfer-Weighted MR Imaging: A Validation Study with Image-Guided Stereotactic Biopsy. Clinical Cancer Research, 2019, 25, 552-561.	7.0	104
26	The butterfly effect on glioblastoma: is volumetric extent of resection more effective than biopsy for these tumors?. Journal of Neuro-Oncology, 2014, 120, 625-634.	2.9	101
27	HMMR Maintains the Stemness and Tumorigenicity of Glioblastoma Stem-like Cells. Cancer Research, 2014, 74, 3168-3179.	0.9	101
28	The role of astrocytes in the progression of brain cancer: complicating the picture of the tumor microenvironment. Tumor Biology, 2016, 37, 61-69.	1.8	97
29	Factors involved in maintaining prolonged functional independence following supratentorial glioblastoma resection. Journal of Neurosurgery, 2011, 114, 604-612.	1.6	96
30	Spinal Cord Mapping as an Adjunct for Resection of Intramedullary Tumors: Surgical Technique with Case Illustrations. Neurosurgery, 2002, 51, 1199-1207.	1.1	92
31	Disparities in Access to Neuro-oncologic Care in the United States. Archives of Surgery, 2010, 145, 247.	2.2	91
32	Non-virally engineered human adipose mesenchymal stem cells produce BMP4, target brain tumors, and extend survival. Biomaterials, 2016, 100, 53-66.	11.4	84
33	A leak pathway for luminal protons in endosomes drives oncogenic signalling in glioblastoma. Nature Communications, 2015, 6, 6289.	12.8	82
34	DNMT-dependent suppression of microRNA regulates the induction of GBM tumor-propagating phenotype by Oct4 and Sox2. Oncogene, 2015, 34, 3994-4004.	5.9	82
35	Characterization of PTEN mutations in brain cancer reveals that pten mono-ubiquitination promotes protein stability and nuclear localization. Oncogene, 2017, 36, 3673-3685.	5.9	82
36	Intraoperative Speech Mapping in 17 Bilingual Patients Undergoing Resection of a Mass Lesion. Neurosurgery, 2004, 54, 113-118.	1.1	81

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37	Assessment of Image Guided Accuracy in a Skull Model: Comparison of Frameless Stereotaxy Techniques vs. Frame-Based Localization. <i>Journal of Neuro-Oncology</i> , 2006, 76, 65-70.	2.9	79
38	Minimally Invasive Trans-Portal Resection of Deep Intracranial Lesions. <i>Minimally Invasive Neurosurgery</i> , 2011, 54, 5-11.	0.9	76
39	The role of EGFR and ErbB family related proteins in the oligodendrocyte specification in germinal niches of the adult mammalian brain. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 258.	3.7	76
40	Progress Toward Long-Term Survivors of Glioblastoma. <i>Mayo Clinic Proceedings</i> , 2019, 94, 1278-1286.	3.0	72
41	Seizure Control for Patients Undergoing Meningioma Surgery. <i>World Neurosurgery</i> , 2013, 79, 515-524.	1.3	69
42	Cancer-selective nanoparticles for combinatorial siRNA delivery to primary human GBM in vitro and in vivo. <i>Biomaterials</i> , 2019, 209, 79-87.	11.4	69
43	Kruppel-like Factor-9 (KLF9) Inhibits Glioblastoma Stemness through Global Transcription Repression and Integrin $\alpha 6$ Inhibition. <i>Journal of Biological Chemistry</i> , 2014, 289, 32742-32756.	3.4	67
44	The reliability of YouTube videos in patients education for Glioblastoma Treatment. <i>Journal of Clinical Neuroscience</i> , 2018, 55, 1-4.	1.5	67
45	The FGFR/MEK/ERK/brachyury pathway is critical for chordoma cell growth and survival. <i>Carcinogenesis</i> , 2014, 35, 1491-1499.	2.8	66
46	Melatonin Enhances Cisplatin and Radiation Cytotoxicity in Head and Neck Squamous Cell Carcinoma by Stimulating Mitochondrial ROS Generation, Apoptosis, and Autophagy. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-12.	4.0	65
47	Neurophysiological monitoring for safe surgical tethered cord syndrome release in adults. <i>World Neurosurgery</i> , 2004, 62, 127-133.	1.3	64
48	Glucose-6-phosphatase Is a Key Metabolic Regulator of Glioblastoma Invasion. <i>Molecular Cancer Research</i> , 2014, 12, 1547-1559.	3.4	64
49	Awake Craniotomy Anesthesia: A Comparison of the Monitored Anesthesia Care and Asleep-Awake-Asleep Techniques. <i>World Neurosurgery</i> , 2017, 104, 679-686.	1.3	64
50	Migration Phenotype of Brain-Cancer Cells Predicts Patient Outcomes. <i>Cell Reports</i> , 2016, 15, 2616-2624.	6.4	63
51	Hypoxia-cultured human adipose-derived mesenchymal stem cells are non-oncogenic and have enhanced viability, motility, and tropism to brain cancer. <i>Cell Death and Disease</i> , 2014, 5, e1567-e1567.	6.3	62
52	A Human iPSC-derived 3D platform using primary brain cancer cells to study drug development and personalized medicine. <i>Scientific Reports</i> , 2019, 9, 1407.	3.3	61
53	Disparities in Access to Pediatric Neurooncological Surgery in the United States. <i>Pediatrics</i> , 2009, 124, e688-e696.	2.1	60
54	Revascularization with Saphenous Vein Bypasses for Complex Intracranial Aneurysms. <i>Skull Base</i> , 2005, 15, 119-132.	0.4	59

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55	The Cost of Brain Surgery: Awake vs Asleep Craniotomy for Periolandic Region Tumors. <i>Neurosurgery</i> , 2017, 81, 307-314.	1.1	59
56	Brachyury-YAP Regulatory Axis Drives Stemness and Growth in Cancer. <i>Cell Reports</i> , 2017, 21, 495-507.	6.4	59
57	Techniques to assess the proliferative potential of brain tumors. <i>Journal of Neuro-Oncology</i> , 2005, 74, 19-30.	2.9	58
58	The Human Brain Subventricular Zone: Stem Cells in This Niche and Its Organization. <i>Neurosurgery Clinics of North America</i> , 2007, 18, 15-20.	1.7	58
59	Exploring the role of inflammation in the malignant transformation of low-grade gliomas. <i>Journal of Neuroimmunology</i> , 2016, 297, 132-140.	2.3	58
60	NKCC1 Regulates Migration Ability of Glioblastoma Cells by Modulation of Actin Dynamics and Interacting with Cofilin. <i>EBioMedicine</i> , 2017, 21, 94-103.	6.1	58
61	Pre-Exposure of Human Adipose Mesenchymal Stem Cells to Soluble Factors Enhances Their Homing to Brain Cancer. <i>Stem Cells Translational Medicine</i> , 2015, 4, 239-251.	3.3	57
62	Supramolecular Crafting of Self-Assembling Camptothecin Prodrugs with Enhanced Efficacy against Primary Cancer Cells. <i>Theranostics</i> , 2016, 6, 1065-1074.	10.0	56
63	Epigenetic modulation of a miR-296-5p:HMGA1 axis regulates Sox2 expression and glioblastoma stem cells. <i>Oncogene</i> , 2016, 35, 4903-4913.	5.9	55
64	Self-assembling and self-formulating prodrug hydrogelator extends survival in a glioblastoma resection and recurrence model. <i>Journal of Controlled Release</i> , 2020, 319, 311-321.	9.9	53
65	Predictors of Neurosurgical Career Choice Among Residents and Residency Applicants. <i>Neurosurgery</i> , 2007, 60, 934-939.	1.1	52
66	Quantification of cellular and nuclear uptake rates of polymeric gene delivery nanoparticles and DNA plasmids via flow cytometry. <i>Acta Biomaterialia</i> , 2016, 37, 120-130.	8.3	52
67	Falcotentorial meningiomas: clinical, neuroimaging, and surgical features in six patients. <i>Neurosurgical Focus</i> , 2003, 14, 1-7.	2.3	51
68	Emerging links between endosomal pH and cancer. <i>Cancer and Metastasis Reviews</i> , 2020, 39, 519-534.	5.9	49
69	In Situ Bypass in the Management of Complex Intracranial Aneurysms: Technique Application in 13 Patients. <i>Operative Neurosurgery</i> , 2005, 57, 140-145.	0.8	48
70	Survival Benefit of Maximal Resection for Glioblastoma Reoperation in the Temozolomide Era: A Meta-Analysis. <i>World Neurosurgery</i> , 2019, 127, 31-37.	1.3	47
71	Volumetric Analysis of Extent of Resection, Survival, and Surgical Outcomes for Insular Gliomas. <i>World Neurosurgery</i> , 2017, 103, 265-274.	1.3	46
72	Comparative volumetric analysis of the extent of resection of molecularly and histologically distinct low grade gliomas and its role on survival. <i>Journal of Neuro-Oncology</i> , 2017, 134, 65-74.	2.9	46

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73	Continuous microfluidic assembly of biodegradable poly(beta-amino ester)/DNA nanoparticles for enhanced gene delivery. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1813-1825.	4.0	44
74	Extending the resection beyond the contrast-enhancement for glioblastoma: feasibility, efficacy, and outcomes. <i>British Journal of Neurosurgery</i> , 2018, 32, 528-535.	0.8	44
75	Engineered nanoparticles for systemic siRNA delivery to malignant brain tumours. <i>Nanoscale</i> , 2019, 11, 20045-20057.	5.6	44
76	Molecularly cleavable bioinks facilitate high-performance digital light processing-based bioprinting of functional volumetric soft tissues. <i>Nature Communications</i> , 2022, 13, .	12.8	43
77	Accuracy Over Space and Time of Computer-Assisted Fluoroscopic Navigation in the Lumbar Spine In Vivo. <i>Journal of Spinal Disorders and Techniques</i> , 2006, 19, 109-113.	1.9	42
78	Long-term clinical outcome of minimally invasive versus open single-level transforaminal lumbar interbody fusion for degenerative lumbar diseases: a meta-analysis. <i>Spine Journal</i> , 2021, 21, 2049-2065.	1.3	42
79	Intraoperative Seizures in Awake Craniotomy for Peritumoral Glioma Resections That Undergo Cortical Mapping. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , 2018, 79, 239-246.	0.8	41
80	Awake vs. asleep motor mapping for glioma resection: a systematic review and meta-analysis. <i>Acta Neurochirurgica</i> , 2020, 162, 1709-1720.	1.7	41
81	PAR1 inhibition suppresses the self-renewal and growth of A2B5-defined glioma progenitor cells and their derived gliomas in vivo. <i>Oncogene</i> , 2016, 35, 3817-3828.	5.9	39
82	Complications of glioma surgery. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2016, 134, 201-218.	1.8	38
83	Engineering Three-Dimensional Tumor Models to Study Glioma Cancer Stem Cells and Tumor Microenvironment. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 558381.	3.7	38
84	A microfluidic cell-migration assay for the prediction of progression-free survival and recurrence time of patients with glioblastoma. <i>Nature Biomedical Engineering</i> , 2021, 5, 26-40.	22.5	38
85	IN SITU BYPASS IN THE MANAGEMENT OF COMPLEX INTRACRANIAL ANEURYSMS. <i>Neurosurgery</i> , 2008, 62, SHC1442-SHC1449.	1.1	37
86	Postoperative Mortality After Surgery for Brain Tumors by Patient Insurance Status in the United States. <i>Archives of Surgery</i> , 2012, 147, 1017.	2.2	37
87	Potential influence of IDH1 mutation and MGMT gene promoter methylation on glioma-related preoperative seizures and postoperative seizure control. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2019, 69, 283-289.	2.0	37
88	Cellular microenvironment modulates the galvanotaxis of brain tumor initiating cells. <i>Scientific Reports</i> , 2016, 6, 21583.	3.3	36
89	Endoscopic Versus Microscopic Transsphenoidal Approach for Pituitary Adenomas: Comparison of Outcomes During the Transition of Methods of a Single Surgeon. <i>World Neurosurgery</i> , 2017, 97, 317-325.	1.3	36
90	Evaluating extent of resection in pediatric glioblastoma: a multiple propensity score-adjusted population-based analysis. <i>Child's Nervous System</i> , 2016, 32, 493-503.	1.1	35

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91	Overlapping migratory mechanisms between neural progenitor cells and brain tumor stem cells. Cellular and Molecular Life Sciences, 2019, 76, 3553-3570.	5.4	35
92	A Sox2:miR-486-5p Axis Regulates Survival of GBM Cells by Inhibiting Tumor Suppressor Networks. Cancer Research, 2020, 80, 1644-1655.	0.9	34
93	Polymeric nanoparticle-based delivery of TRAIL DNA for cancer-specific killing. Bioengineering and Translational Medicine, 2016, 1, 149-159.	7.1	33
94	Anatomical Engineering and 3D Printing for Surgery and Medical Devices: International Review and Future Exponential Innovations. BioMed Research International, 2022, 2022, 1-28.	1.9	32
95	AI-Assisted <i>In Situ</i> Detection of Human Glioma Infiltration Using a Novel Computational Method for Optical Coherence Tomography. Clinical Cancer Research, 2019, 25, 6329-6338.	7.0	31
96	Reprogramming Transcription Factors Oct4 and Sox2 Induce a BRD-Dependent Immunosuppressive Transcriptome in GBM-Propagating Cells. Cancer Research, 2021, 81, 2457-2469.	0.9	31
97	Pre-Operative Factors Affecting Resectability of Giant Intracranial Meningiomas. Canadian Journal of Neurological Sciences, 2009, 36, 623-630.	0.5	29
98	Photocrosslinked Bioreducible Polymeric Nanoparticles for Enhanced Systemic siRNA Delivery as Cancer Therapy. Advanced Functional Materials, 2021, 31, 2009768.	14.9	29
99	Influence of supramarginal resection on survival outcomes after gross-total resection of IDH-wild-type glioblastoma. Journal of Neurosurgery, 2022, 136, 1-8.	1.6	29
100	High-frequency oscillations in awake patients undergoing brain tumor-related epilepsy surgery. Neurology, 2018, 90, e1119-e1125.	1.1	28
101	Influence of Basement Membrane Proteins and Endothelial Cell-Derived Factors on the Morphology of Human Fetal-Derived Astrocytes in 2D. PLoS ONE, 2014, 9, e92165.	2.5	27
102	Heterozygous IDH1R132H/WT created by single base editing inhibits human astroglial cell growth by downregulating YAP. Oncogene, 2018, 37, 5160-5174.	5.9	27
103	Treatment of posterior circulation non-saccular aneurysms with flow diversion versus stent-assisted coiling: a systematic review and meta-analysis. Journal of NeuroInterventional Surgery, 2021, 13, 159-163.	3.3	27
104	Predictors of access to pituitary tumor resection in the United States, 1988-2005. European Journal of Endocrinology, 2009, 161, 259-265.	3.7	26
105	Management and Survival of Adult Patients with Pilocytic Astrocytoma in the National Cancer Database. World Neurosurgery, 2018, 112, e881-e887.	1.3	26
106	Factors associated with survival and recurrence for patients undergoing surgery of cerebellar metastases. Neurological Research, 2014, 36, 13-25.	1.3	25
107	A microphysiological model of the bronchial airways reveals the interplay of mechanical and biochemical signals in bronchospasm. Nature Biomedical Engineering, 2019, 3, 532-544.	22.5	25
108	Intraoperative Motor Mapping of the Cerebral Peduncle during Resection of a Midbrain Cavernous Malformation: Technical Case Report. Operative Neurosurgery, 2005, 56, ONS-E439-ONS-E439.	0.8	24

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109	Melatonin Targets Metabolism in Head and Neck Cancer Cells by Regulating Mitochondrial Structure and Function. <i>Antioxidants</i> , 2021, 10, 603.	5.1	24
110	SURGICAL CONSIDERATIONS IN THE MANAGEMENT OF FALCOTENTORIAL MENINGIOMAS. <i>Operative Neurosurgery</i> , 2009, 64, ons260-ons268.	0.8	23
111	Implications of irradiating the subventricular zone stem cell niche. <i>Stem Cell Research</i> , 2016, 16, 387-396.	0.7	23
112	Rapid Induction of Therapeutic Hypothermia Using Transnasal High Flow Dry Air. <i>Therapeutic Hypothermia and Temperature Management</i> , 2017, 7, 50-56.	0.9	23
113	Hypofractionated versus standard radiation therapy in combination with temozolomide for glioblastoma in the elderly: a meta-analysis. <i>Journal of Neuro-Oncology</i> , 2019, 143, 177-185.	2.9	23
114	Telemedicine Utilization in Neurosurgery During the COVID-19 Pandemic: A Glimpse Into the Future?. <i>Mayo Clinic Proceedings Innovations, Quality &amp; Outcomes</i> , 2020, 4, 736-744.	2.4	23
115	Regulation of Glioblastoma Tumor-Propagating Cells by the Integrin Partner Tetraspanin CD151. <i>Neoplasia</i> , 2016, 18, 185-198.	5.3	22
116	HIV-1 Envelope Protein gp120 Promotes Proliferation and the Activation of Glycolysis in Glioma Cell. <i>Cancers</i> , 2018, 10, 301.	3.7	22
117	Prognostic factors and survival in low grade gliomas of the spinal cord: A population-based analysis from 2006 to 2012. <i>Journal of Clinical Neuroscience</i> , 2019, 61, 14-21.	1.5	22
118	Robotic-Assisted vs Nonrobotic-Assisted Minimally Invasive Transforaminal Lumbar Interbody Fusion: A Cost-Utility Analysis. <i>Neurosurgery</i> , 2022, 90, 192-198.	1.1	22
119	Harvey Cushing's contributions to motor mapping: 1902-1912. <i>Cortex</i> , 2012, 48, 7-14.	2.4	21
120	MGMT inactivation and clinical response in newly diagnosed GBM patients treated with Gliadel. <i>Journal of Clinical Neuroscience</i> , 2015, 22, 1938-1942.	1.5	21
121	Establishment and Biological Characterization of a Panel of Glioblastoma Multiforme (GBM) and GBM Variant Oncosphere Cell Lines. <i>PLoS ONE</i> , 2016, 11, e0150271.	2.5	21
122	Postoperative Cerebral Vasospasm Following Transsphenoidal Pituitary Adenoma Surgery. <i>World Neurosurgery</i> , 2016, 92, 7-14.	1.3	21
123	IDH-wild-type glioblastoma cell density and infiltration distribution influence on supramarginal resection and its impact on overall survival: a mathematical model. <i>Journal of Neurosurgery</i> , 2022, 136, 1567-1575.	1.6	20
124	Technical feasibility and safety of image-guided parieto-occipital ventricular catheter placement with the assistance of a wearable head-up display. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2017, 13, e1836.	2.3	19
125	Central neurocytoma: Clinical characteristics, patterns of care, and survival. <i>Journal of Clinical Neuroscience</i> , 2018, 53, 106-111.	1.5	19
126	Results of Percutaneous Balloon Compression in Trigeminal Pain Syndromes. <i>World Neurosurgery</i> , 2018, 114, e892-e899.	1.3	19



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127	Evidences in Neurological Surgery and a Cutting Edge Classification of the Trigemino-cardiac Reflex: A Systematic Review. <i>World Neurosurgery</i> , 2018, 117, 4-10.	1.3	19
128	Outcomes of large vestibular schwannomas following subtotal resection: early post-operative volume regression and facial nerve function. <i>Journal of Neuro-Oncology</i> , 2019, 143, 281-288.	2.9	19
129	Cancer Mortality Rates Increasing vs Cardiovascular Disease Mortality Decreasing in the World: Future Implications. <i>Mayo Clinic Proceedings Innovations, Quality &amp; Outcomes</i> , 2021, 5, 645-653.	2.4	19
130	Minimally Invasive Surgical Outcomes for Deep-Seated Brain Lesions Treated with Different Tubular Retraction Systems: A Systematic Review and Meta-Analysis. <i>World Neurosurgery</i> , 2020, 143, 537-545.e3.	1.3	18
131	A Triple-Fluorophore-Labeled Nucleic Acid pH Nanosensor to Investigate Non-viral Gene Delivery. <i>Molecular Therapy</i> , 2017, 25, 1697-1709.	8.2	18
132	Rapid malignant transformation of low-grade astrocytomas: report of 2 cases and review of the literature. <i>World Neurosurgery</i> , 2010, 73, 53-62.	1.3	17
133	Long-term hydrocephalus alters the cytoarchitecture of the adult subventricular zone. <i>Experimental Neurology</i> , 2014, 261, 236-244.	4.1	17
134	Interference with Protease-activated Receptor 1 Alleviates Neuronal Cell Death Induced by Lipopolysaccharide-Stimulated Microglial Cells through the PI3K/Akt Pathway. <i>Scientific Reports</i> , 2016, 6, 38247.	3.3	17
135	Somatic retrotransposition is infrequent in glioblastomas. <i>Mobile DNA</i> , 2016, 7, 22.	3.6	17
136	Ablation of neuropilin-1 improves the therapeutic response in conventional drug-resistant glioblastoma multiforme. <i>Oncogene</i> , 2020, 39, 7114-7126.	5.9	17
137	3D bioprinting of glioblastoma models. <i>Journal of 3D Printing in Medicine</i> , 2020, 4, 113-125.	2.0	17
138	Geographic disparities in access to glioblastoma treatment based on Hispanic ethnicity in the United States: Insights from a national database. <i>Journal of Neuro-Oncology</i> , 2020, 147, 711-720.	2.9	17
139	Electrophoresis of cell membrane heparan sulfate regulates galvanotaxis in glial cells. <i>Journal of Cell Science</i> , 2017, 130, 2459-2467.	2.0	16
140	Cost-Effective Method for 3-Dimensional Printing Dynamic Multiobject and Patient-Specific Brain Tumor Models: Technical Note. <i>World Neurosurgery</i> , 2020, 140, 173-179.	1.3	16
141	Circulatory shear stress induces molecular changes and side population enrichment in primary tumor-derived lung cancer cells with higher metastatic potential. <i>Scientific Reports</i> , 2021, 11, 2800.	3.3	16
142	Neuromonitoring during surgery for metastatic tumors to the spine: intraoperative interpretation and management strategies. <i>Neurosurgery Clinics of North America</i> , 2004, 15, 537-547.	1.7	15
143	Comparative analysis of monotherapy versus duotherapy antiseizure drug management for postoperative seizure control in patients undergoing an awake craniotomy. <i>Journal of Neurosurgery</i> , 2018, 128, 1661-1667.	1.6	15
144	The Reliability of YouTube Videos Describing Stereotactic Radiosurgery: A Call for Action. <i>World Neurosurgery</i> , 2019, 125, e398-e402.	1.3	15

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145	Ketamine in seizure management and future pharmacogenomic considerations. <i>Pharmacogenomics Journal</i> , 2020, 20, 351-354.	2.0	15
146	Label-free imaging of human brain tissue at subcellular resolution for potential rapid intra-operative assessment of glioma surgery. <i>Theranostics</i> , 2021, 11, 7222-7234.	10.0	15
147	Awake Robotic Minimally Invasive L4-5 Transforaminal Lumbar Interbody Fusion. <i>World Neurosurgery</i> , 2021, 148, 93.	1.3	15
148	Metabolic effects of hypothermia and its neuroprotective effects on the recovery of metabolic and electrophysiological function in the ischemic retina in vitro. <i>Neurosurgery</i> , 2003, 52, 1178-86; discussion 1186-7.	1.1	15
149	Path to Reopening Surgery in the COVID-19 Pandemic: Neurosurgery Experience. <i>Mayo Clinic Proceedings Innovations, Quality &amp; Outcomes</i> , 2020, 4, 557-564.	2.4	14
150	Nanomedicine Revisited: Next Generation Therapies for Brain Cancer. <i>Advanced Therapeutics</i> , 2020, 3, 2000118.	3.2	14
151	Improved 3-year survival rates for glioblastoma multiforme are associated with trends in treatment: analysis of the national cancer database from 2004 to 2013. <i>Journal of Neuro-Oncology</i> , 2020, 148, 69-79.	2.9	14
152	Time Is Brain: Prehospital Emergency Medical Services Response Times for Suspected Stroke and Effects of Prehospital Interventions. <i>Mayo Clinic Proceedings</i> , 2021, 96, 1446-1457.	3.0	14
153	Astrocytes: everything but the glue. <i>Neuroimmunology and Neuroinflammation</i> , 2015, 2, 115.	1.4	13
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