

Brad E Zacharia

List of Publications by Citations

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117
papers

3,307
citations

32
h-index

54
g-index

124
ext. papers

4,019
ext. citations

3.8
avg, IF

4.93
L-index

#	Paper	IF	Citations
117	Smart wearable body sensors for patient self-assessment and monitoring. <i>Archives of Public Health</i> , 2014 , 72, 28	2.6	251
116	The surgical management of chronic subdural hematoma. <i>Neurosurgical Review</i> , 2012 , 35, 155-69; discussion 169	3.9	250
115	Intracranial infectious aneurysms: a comprehensive review. <i>Neurosurgical Review</i> , 2010 , 33, 37-46	3.9	170
114	Epidemiology of aneurysmal subarachnoid hemorrhage. <i>Neurosurgery Clinics of North America</i> , 2010 , 21, 221-33	4	158
113	A mouse model of intracerebral hemorrhage using autologous blood infusion. <i>Nature Protocols</i> , 2008 , 3, 122-8	18.8	110
112	The complement cascade as a therapeutic target in intracerebral hemorrhage. <i>Experimental Neurology</i> , 2009 , 219, 398-403	5.7	90
111	Incidence, treatment and survival of patients with craniopharyngioma in the surveillance, epidemiology and end results program. <i>Neuro-Oncology</i> , 2012 , 14, 1070-8	1	82
110	Herniation secondary to critical postcraniotomy cerebrospinal fluid hypovolemia. <i>Neurosurgery</i> , 2005 , 57, 286-92; discussion 286-92	3.2	74
109	Neutrophil-induced ferroptosis promotes tumor necrosis in glioblastoma progression. <i>Nature Communications</i> , 2020 , 11, 5424	17.4	73
108	Intranasal delivery of caspase-9 inhibitor reduces caspase-6-dependent axon/neuron loss and improves neurological function after stroke. <i>Journal of Neuroscience</i> , 2011 , 31, 8894-904	6.6	72
107	Volume-dependent effect of perihematoma oedema on outcome for spontaneous intracerebral haemorrhages. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2013 , 84, 488-93	5.5	70
106	Frailty in Geriatric Glioblastoma Patients: A Predictor of Operative Morbidity and Outcome. <i>World Neurosurgery</i> , 2016 , 89, 362-7	2.1	68
105	The promise of wearable activity sensors to define patient recovery. <i>Journal of Clinical Neuroscience</i> , 2014 , 21, 1089-93	2.2	66
104	C3a receptor antagonist attenuates brain injury after intracerebral hemorrhage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009 , 29, 98-107	7.3	64
103	Disparities in access to deep brain stimulation surgery for Parkinson disease: interaction between African American race and Medicaid use. <i>JAMA Neurology</i> , 2014 , 71, 291-9	17.2	63
102	Renal dysfunction as an independent predictor of outcome after aneurysmal subarachnoid hemorrhage: a single-center cohort study. <i>Stroke</i> , 2009 , 40, 2375-81	6.7	63
101	High response rates and prolonged survival in patients with corticotroph pituitary tumors and refractory Cushing disease from capecitabine and temozolomide (CAPTEM): a case series. <i>Neurosurgery</i> , 2014 , 74, E447-55; discussion E455	3.2	62

100	Impact of platelet transfusion on hematoma expansion in patients receiving antiplatelet agents before intracerebral hemorrhage. <i>Neurological Research</i> , 2010 , 32, 706-10	2.7	57
99	Complement inhibition promotes endogenous neurogenesis and sustained anti-inflammatory neuroprotection following reperfused stroke. <i>PLoS ONE</i> , 2012 , 7, e38664	3.7	57
98	Stroke among cancer patients. <i>Nature Communications</i> , 2019 , 10, 5172	17.4	54
97	Evaluation of First-line Radiosurgery vs Whole-Brain Radiotherapy for Small Cell Lung Cancer Brain Metastases: The FIRE-SCLC Cohort Study. <i>JAMA Oncology</i> , 2020 , 6, 1028-1037	13.4	51
96	Preoperative antiepileptic drug administration and the incidence of postoperative seizures following bur hole-treated chronic subdural hematoma. <i>Journal of Neurosurgery</i> , 2009 , 111, 1257-62	3.2	47
95	The role for adjuvant radiotherapy in the treatment of hemangiopericytoma: a Surveillance, Epidemiology, and End Results analysis. <i>Journal of Neurosurgery</i> , 2014 , 120, 300-8	3.2	44
94	Exacerbation of perihematomal edema and sterile meningitis with intraventricular administration of tissue plasminogen activator in patients with intracerebral hemorrhage. <i>Neurosurgery</i> , 2010 , 66, 648-55	3.2	44
93	Advances in vasospasm treatment and prevention. <i>Journal of the Neurological Sciences</i> , 2007 , 261, 134-43	3.2	44
92	Decompressive hemicraniectomy without clot evacuation in dominant-sided intracerebral hemorrhage with ICP crisis. <i>Neurosurgical Focus</i> , 2013 , 34, E4	4.2	43
91	Astrocytoma with pilomyxoid features presenting in an adult. <i>Neuropathology</i> , 2006 , 26, 89-93	2	40
90	The Safety of Surgery in Elderly Patients with Primary and Recurrent Glioblastoma. <i>World Neurosurgery</i> , 2015 , 84, 913-9	2.1	37
89	Interleukin-13 conjugated quantum dots for identification of glioma initiating cells and their extracellular vesicles. <i>Acta Biomaterialia</i> , 2017 , 58, 205-213	10.8	35
88	Exosomes impact survival to radiation exposure in cell line models of nervous system cancer. <i>Oncotarget</i> , 2018 , 9, 36083-36101	3.3	35
87	Technological advances in the management of unruptured intracranial aneurysms fail to improve outcome in New York state. <i>Stroke</i> , 2011 , 42, 2844-9	6.7	33
86	Management of ruptured brain arteriovenous malformations. <i>Current Atherosclerosis Reports</i> , 2012 , 14, 335-42	6	32
85	Variability in outcome after elective cerebral aneurysm repair in high-volume academic medical centers. <i>Stroke</i> , 2014 , 45, 1447-52	6.7	30
84	Approaches to anterior and anterolateral foramen magnum lesions: A critical review. <i>Journal of Craniovertebral Junction and Spine</i> , 2010 , 1, 86-99	1	29
83	Controversies in the endovascular management of cerebral vasospasm after intracranial aneurysm rupture and future directions for therapeutic approaches. <i>Neurosurgery</i> , 2008 , 62, 897-905; discussion 905-7	3.2	29

82	Telemedicine for Outpatient Neurosurgical Oncology Care: Lessons Learned for the Future During the COVID-19 Pandemic. <i>World Neurosurgery</i> , 2020 , 139, e859-e863	2.1	28
81	Incidence and risk factors for preoperative deep venous thrombosis in 314 consecutive patients undergoing surgery for spinal metastasis. <i>Journal of Neurosurgery: Spine</i> , 2017 , 27, 189-197	2.8	28
80	The Molecular Mechanisms that Promote Edema After Intracerebral Hemorrhage. <i>Translational Stroke Research</i> , 2012 , 3, 52-61	7.8	28
79	Predictors of long-term shunt-dependent hydrocephalus in patients with intracerebral hemorrhage requiring emergency cerebrospinal fluid diversion. <i>Neurosurgical Focus</i> , 2012 , 32, E5	4.2	28
78	J. Lawrence Pool, M.D.: a pioneer in vascular neurosurgery. <i>Neurosurgical Focus</i> , 2006 , 20, E2	4.2	28
77	Defining Glioblastoma Resectability Through the Wisdom of the Crowd: A Proof-of-Principle Study. <i>Neurosurgery</i> , 2017 , 80, 590-601	3.2	27
76	Incidence, cost, and mortality associated with hospital-acquired conditions after resection of cranial neoplasms. <i>Neurosurgery</i> , 2014 , 74, 638-47	3.2	26
75	Magnetic resonance imaging characteristics of pilomyxoid astrocytoma. <i>Neurological Research</i> , 2008 , 30, 945-51	2.7	26
74	Genetic determinants of cerebral vasospasm, delayed cerebral ischemia, and outcome after aneurysmal subarachnoid hemorrhage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010 , 30, 676-88	7.3	25
73	Critical postcraniotomy cerebrospinal fluid hypovolemia: risk factors and outcome analysis. <i>Neurosurgery</i> , 2006 , 59, 284-90; discussion 284-90	3.2	25
72	Radiographic characteristics fail to predict clinical course after subdural electrode placement. <i>Neurosurgery</i> , 2006 , 58, 120-5; discussion 120-5	3.2	24
71	The Neuroprotective Effect of Genetic Mannose-binding Lectin Deficiency is not Sustained in the Sub-acute Phase of Stroke. <i>Translational Stroke Research</i> , 2011 , 2, 588-99	7.8	23
70	Inferior short-term safety profile of endoscopic third ventriculostomy compared with ventriculoperitoneal shunt placement for idiopathic normal-pressure hydrocephalus: a population-based study. <i>Neurosurgery</i> , 2013 , 73, 951-60; discussion 960-1	3.2	21
69	Exosomes and their implications in central nervous system tumor biology. <i>Progress in Neurobiology</i> , 2019 , 172, 71-83	10.9	20
68	Endoscopic Endonasal Management of Craniopharyngioma. <i>Otolaryngologic Clinics of North America</i> , 2016 , 49, 201-12	2	19
67	The Role of Definitive Radiotherapy in Craniopharyngioma: A SEER Analysis. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2018 , 41, 807-812	2.7	18
66	Traumatic brain injury in pediatric patients: evidence for the effectiveness of decompressive surgery. <i>Neurosurgical Focus</i> , 2011 , 31, E5	4.2	18
65	Controversies in the surgical treatment of ruptured intracranial aneurysms: the First Annual J. Lawrence Pool Memorial Research Symposium--controversies in the management of cerebral aneurysms. <i>Neurosurgery</i> , 2008 , 62, 396-407; discussion 405-7	3.2	18

64	Atopy, helminths, and cancer. <i>Medical Hypotheses</i> , 2003 , 60, 1-5	3.8	18
63	Occlusive hyperemia versus normal perfusion pressure breakthrough after treatment of cranial arteriovenous malformations. <i>Neurosurgery Clinics of North America</i> , 2012 , 23, 147-51	4	17
62	Gain-of-function polymorphisms of cystathionine Synthase and delayed cerebral ischemia following aneurysmal subarachnoid hemorrhage. <i>Journal of Neurosurgery</i> , 2011 , 115, 101-7	3.2	17
61	Endoscopic Endonasal Management of Metastatic Lesions of the Anterior Skull Base: Case Series and Literature Review. <i>World Neurosurgery</i> , 2015 , 84, 1267-77	2.1	16
60	Unchanged safety outcomes in deep brain stimulation surgery for Parkinson disease despite a decentralization of care. <i>Journal of Neurosurgery</i> , 2013 , 119, 1546-55	3.2	16
59	Blood-Brain Barrier Disruption in Neuro-Oncology: Strategies, Failures, and Challenges to Overcome. <i>Frontiers in Oncology</i> , 2020 , 10, 563840	5.3	16
58	Functional outcome prediction following intracerebral hemorrhage. <i>Journal of Clinical Neuroscience</i> , 2012 , 19, 795-8	2.2	15
57	Letter: Surgical Management of Brain Tumor Patients in the COVID-19 Era. <i>Neurosurgery</i> , 2020 , 87, E197-E200	3.2	13
56	Pitfalls for the pediatrician: positional molding or craniosynostosis?. <i>Pediatric Annals</i> , 2006 , 35, 365-75	1.3	13
55	Association of Head and Neck Cancer With Mental Health Disorders in a Large Insurance Claims Database. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2019 , 145, 339-344	3.9	12
54	The use of custom 3D printed stereotactic frames for laser interstitial thermal ablation: technical note. <i>Neurosurgical Focus</i> , 2016 , 41, E3	4.2	12
53	Pharmacotherapy of cerebral ischemia. <i>Expert Opinion on Pharmacotherapy</i> , 2009 , 10, 1895-906	4	10
52	Toward objective quantification of perfusion-weighted computed tomography in subarachnoid hemorrhage: quantification of symmetry and automated delineation of vascular territories. <i>Academic Radiology</i> , 2005 , 12, 874-87	4.3	10
51	HFE genotype affects exosome phenotype in cancer. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 1921-1928	4	9
50	Stereotactic biopsy considerations for pineal tumors. <i>Neurosurgery Clinics of North America</i> , 2011 , 22, 359-66, viii	4	9
49	Complement inhibition as a proposed neuroprotective strategy following cardiac arrest. <i>Mediators of Inflammation</i> , 2009 , 2009, 124384	4.3	9
48	Aggressive cranial vault decompression for cranial hyperostosis: technical case report of two cases. <i>Operative Neurosurgery</i> , 2005 , 57, E212; discussion E212	1.6	9
47	The influence of race on outcome following subarachnoid hemorrhage. <i>Journal of Clinical Neuroscience</i> , 2010 , 17, 34-7	2.2	8

46	Making Milestones: Development and Implementation of a Formal Socioeconomic Curriculum in a Neurosurgical Residency Training Program. <i>Neurosurgery</i> , 2016 , 79, 492-8	3.2	8
45	The Orbit as Seen Through Different Surgical Windows: Extensive Anatomical Study. <i>World Neurosurgery</i> , 2017 , 106, 1030-1046	2.1	7
44	Letter: COVID-19 Pandemic: Safety Precautions for Stereotactic Radiosurgery. <i>Neurosurgery</i> , 2020 , 87, E201-E202	3.2	7
43	A phase I clinical trial of tiopronin, a putative neuroprotective agent, in aneurysmal subarachnoid hemorrhage. <i>Neurosurgery</i> , 2010 , 67, 182-5; discussion 186	3.2	7
42	Quality of Postoperative Venous Thromboembolism Prophylaxis in Neuro-oncologic Surgery. <i>Neurosurgery</i> , 2017 , 80, 73-81	3.2	7
41	Surgical management of juvenile nasopharyngeal angiofibroma. <i>Operative Techniques in Otolaryngology - Head and Neck Surgery</i> , 2019 , 30, 22-29	0.4	6
40	Impact of clinical trials on neurosurgical practice: an assessment of case volume. <i>World Neurosurgery</i> , 2015 , 83, 431-7	2.1	6
39	Prior malignancies in patients harboring glioblastoma: an institutional case-study of 2164 patients. <i>Journal of Neuro-Oncology</i> , 2017 , 134, 245-251	4.8	5
38	Metastatic epidural spinal cord compression among elderly patients with advanced prostate cancer. <i>Supportive Care in Cancer</i> , 2014 , 22, 1549-55	3.9	5
37	Epidemiological trends in the neurological intensive care unit from 2000 to 2008. <i>Journal of Clinical Neuroscience</i> , 2012 , 19, 1668-72	2.2	5
36	A Crowdsourced Consensus on Supratotal Resection Versus Gross Total Resection for Anatomically Distinct Primary Glioblastoma. <i>Neurosurgery</i> , 2021 , 89, 712-719	3.2	4
35	Traumatic Orbital Apex Syndrome: An Uncommon Sequela of Facial Trauma. <i>Ear, Nose and Throat Journal</i> , 2019 , 98, 609-612	1	3
34	Co-registration of radiographic and pathologic infarct territory in a non-human primate model of stroke. <i>Neurological Research</i> , 2005 , 27, 634-7	2.7	3
33	5-Aminolevulinic acid for enhanced surgical visualization of high-grade gliomas: a prospective, multicenter study. <i>Journal of Neurosurgery</i> , 2021 , 1-10	3.2	3
32	Mental health disorders in patients with untreated meningiomas: an observational cohort study using the nationwide MarketScan database. <i>Neuro-Oncology Practice</i> , 2020 , 7, 507-513	2.2	3
31	Vanishing Pituitary Macroadenoma: A Case Report. <i>Cureus</i> , 2016 , 8, e838	1.2	3
30	Navigable Channel-Based Trans-Sulcal Resection of Third Ventricular Colloid Cysts: A Multicenter Retrospective Case Series and Review of the Literature. <i>World Neurosurgery</i> , 2020 , 133, e702-e710	2.1	3
29	Expanded Endoscopic Endonasal Resection of Retrochiasmatic Craniopharyngioma. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2018 , 79, S194-S195	1.5	2

28	GM1485, a nonimmunosuppressive immunophilin ligand, promotes neurofunctional improvement and neural regeneration following stroke. <i>Journal of Neuroscience Research</i> , 2012 , 90, 1413-23	4.4	2
27	Internet-based neuro-oncology patient recruitment. <i>Neurosurgery</i> , 2006 , 58, 985-9; discussion 985-9	3.2	2
26	Endoscopic-Assisted Ommaya Reservoir Placement: Technical Note. <i>Cureus</i> , 2017 , 9, e1490	1.2	2
25	Diffusion of neuroendoscopy: guided by the light. <i>World Neurosurgery</i> , 2015 , 83, 752-3	2.1	1
24	Sexually dimorphic impact of the iron-regulating gene, , on survival in glioblastoma. <i>Neuro-Oncology Advances</i> , 2020 , 2, vdaa001	0.9	1
23	Dural Extranodal Marginal Zone Lymphoma in an XRCC2 Mutation Carrier. <i>Journal of Neuropathology and Experimental Neurology</i> , 2019 , 78, 1174-1177	3.1	1
22	The clinical implications of subarachnoid hemorrhage volume. <i>World Neurosurgery</i> , 2012 , 77, 613-4	2.1	1
21	Cervical spine disease may result in a negative lumbar spinal drainage trial in normal pressure hydrocephalus: case report. <i>Operative Neurosurgery</i> , 2008 , 63, 315; discussion 315	1.6	1
20	Evaluation of ischemic stroke hybrid segmentation in a rat model of temporary middle cerebral artery occlusion using ground truth from histologic and MR data 2005 ,		1
19	Role of cerebrospinal fluid (CSF) in the pathogenesis and treatment of patients with brain metastases.. <i>Journal of Clinical Oncology</i> , 2018 , 36, e14006-e14006	2.2	1
18	Mental Health Disorders Associated with Sinonasal and Skull Base Malignancies: A Large Cohort Study. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2020 , 81, 187-192	1.5	1
17	Launching the Quality Outcomes Database Tumor Registry: rationale, development, and pilot data. <i>Journal of Neurosurgery</i> , 2021 , 1-10	3.2	1
16	Stereotactic radiosurgery for treatment of radiation-induced meningiomas: a multiinstitutional study. <i>Journal of Neurosurgery</i> , 2021 , 1-9	3.2	1
15	Stereotactic radiosurgery for prostate cancer cerebral metastases: an international multicenter study. <i>Journal of Neurosurgery</i> , 2021 , 1-7	3.2	1
14	Management of Diffuse Low-Grade Glioma: The Renaissance of Robust Evidence. <i>Frontiers in Oncology</i> , 2020 , 10, 575658	5.3	0
13	Mental health disorders in newly diagnosed non-functional pituitary adenoma under initial observation: an observational cohort study using the nationwide MarketScan database. <i>Pituitary</i> , 2021 , 1	4.3	0
12	#Neurosurgery: A Temporal and Content Analysis of Academic Neurosurgery on Twitter. <i>World Neurosurgery</i> , 2021 , 153, e481-e487	2.1	0
11	Calcifications of the Medial Choroid in the Velum Interpositum: An Unrecognized Site of Physiologic Calcifications Evident on Multidetector Computed Tomography. <i>World Neurosurgery</i> , 2020 , 141, e160-e165	2.1	

- 10 Ground truth for evaluation of ischemic stroke hybrid segmentation in a rat model of temporary middle cerebral artery occlusion. *International Congress Series*, **2005**, 1281, 74-79
- 9 Internet-based approach to multi-institutional patient recruitment in the medico-legal age. *Journal of Clinical Oncology*, **2005**, 23, 4471-3 2.2
- 8 SURG-21. A CROWDSOURCED CONSENSUS ON SUPRATOTAL RESECTION VERSUS GROSS TOTAL RESECTION FOR ANATOMICALLY DISTINCT PRIMARY GLIOBLASTOMA. *Neuro-Oncology*, **2020**, 22, ii207-ii208 1
- 7 CSIG-16. SEXUAL DIMORPHISM IN IRON ACQUISITION IN GLIOBLASTOMA. *Neuro-Oncology*, **2020**, 22, ii31-ii31 1
- 6 CTIM-02. TWO OUNCES OF PREVENTION: A SYSTEMATIC REVIEW AND META-ANALYSIS OF VEGF AND IMMUNE CHECK POINT INHIBITION FOR PRIMARY AND SECONDARY PREVENTION OF BRAIN METASTASES. *Neuro-Oncology*, **2020**, 22, ii32-ii33 1
- 5 TAMI-17. RELATIONSHIP BETWEEN IRON METABOLISM, IMMUNE CELL INFILTRATION AND SEX-BASED SURVIVAL DIFFERENCES IN GLIOMAS. *Neuro-Oncology*, **2020**, 22, ii216-ii216 1
- 4 TAMI-23. NEUTROPHIL-TRIGGERED FERROPTOSIS PROMOTES TUMOR NECROSIS IN GLIOBLASTOMA PROGRESSION. *Neuro-Oncology*, **2020**, 22, ii218-ii218 1
- 3 BIOM-32. HIGH AFFINITY FLUORESCENT NANOPARTICLES FOR DETECTION IL13R α 2-POSITIVE EXTRACELLULAR VESICLES AND CELLS. *Neuro-Oncology*, **2020**, 22, ii8-ii8 1
- 2 BIOM-33. EV-ASSOCIATED IL13R α 2 AS A LIQUID BIOPSY BIOMARKER FOR GBM. *Neuro-Oncology*, **2021**, 23, vi18-vi18 1
- 1 TAMI-54. SEXUAL DIMORPHISM IN IRON ACQUISITION IN GLIOBLASTOMA. *Neuro-Oncology*, **2021**, 23, vi209-vi209 1