

Robert E Harbaugh

List of Publications by Citations

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134
papers

6,723
citations

34
h-index

81
g-index

149
ext. papers

7,457
ext. citations

3.7
avg, IF

5.11
L-index

#	Paper	IF	Citations
134	Guidelines for prevention of stroke in patients with ischemic stroke or transient ischemic attack: a statement for healthcare professionals from the American Heart Association/American Stroke Association Council on Stroke: co-sponsored by the Council on Cardiovascular Radiology and Intervention, the American Academy of Neurology, and the American College of Radiology. <i>Stroke</i> , 2006 , 37, 1617-1626	6.7	1174
133	Guidelines for the management of aneurysmal subarachnoid hemorrhage: a statement for healthcare professionals from a special writing group of the Stroke Council, American Heart Association. <i>Stroke</i> , 2009 , 40, 994-1025	6.7	1059
132	Update to the AHA/ASA recommendations for the prevention of stroke in patients with stroke and transient ischemic attack. <i>Stroke</i> , 2008 , 39, 1647-52	6.7	388
131	Recommendations for imaging of acute ischemic stroke: a scientific statement from the American Heart Association. <i>Stroke</i> , 2009 , 40, 3646-78	6.7	315
130	Quantified aneurysm shape and rupture risk. <i>Journal of Neurosurgery</i> , 2005 , 102, 355-62	3.2	279
129	Guidelines for carotid endarterectomy: a statement for healthcare professionals from a special writing group of the Stroke Council, American Heart Association. <i>Stroke</i> , 1998 , 29, 554-62	6.7	247
128	Expression of angiogenic factors and structural proteins in central nervous system vascular malformations. <i>Neurosurgery</i> , 1996 , 38, 915-24; discussion 924-5	3.2	202
127	Cortical biopsy in Alzheimer's disease: diagnostic accuracy and neurochemical, neuropathological, and cognitive correlations. Intraventricular Bethanecol Study Group. <i>Annals of Neurology</i> , 1992 , 32, 625-32	3.2	193
126	Potential use of nerve growth factor to treat Alzheimer's disease. <i>Neurobiology of Aging</i> , 1989 , 10, 205-7	5.6	150
125	Preliminary report: intracranial cholinergic drug infusion in patients with Alzheimer's disease. <i>Neurosurgery</i> , 1984 , 15, 514-8	3.2	146
124	Neuroprotective effects of preischemia intraarterial magnesium sulfate in reversible focal cerebral ischemia. <i>Journal of Neurosurgery</i> , 1996 , 85, 117-24	3.2	140
123	Microsurgical treatment of arteriovenous malformations: analysis and comparison with stereotactic radiosurgery. <i>Journal of Neurosurgery</i> , 1998 , 88, 641-6	3.2	132
122	Three-dimensional geometrical characterization of cerebral aneurysms. <i>Annals of Biomedical Engineering</i> , 2004 , 32, 264-73	4.7	123
121	Misdiagnosis of symptomatic cerebral aneurysm. Prevalence and correlation with outcome at four institutions. <i>Stroke</i> , 1996 , 27, 1558-63	6.7	108
120	Results of routine ventriculostomy with external ventricular drainage for acute hydrocephalus following subarachnoid haemorrhage. <i>Acta Neurochirurgica</i> , 1992 , 115, 8-14	3	97
119	Microsurgical and standard removal of the protruded lumbar disc: a comparative study. <i>Neurosurgery</i> , 1981 , 8, 422-7	3.2	95
118	Three-dimensional computed tomographic angiography in the preoperative evaluation of cerebrovascular lesions. <i>Neurosurgery</i> , 1995 , 36, 320-6; discussion 326-7	3.2	90

117	Three-dimensional computerized tomography angiography in the diagnosis of cerebrovascular disease. <i>Journal of Neurosurgery</i> , 1992 , 76, 408-14	3.2	82
116	The Albumin in Subarachnoid Hemorrhage (ALISAH) multicenter pilot clinical trial: safety and neurologic outcomes. <i>Stroke</i> , 2012 , 43, 683-90	6.7	64
115	Implanted continuous epidural morphine infusion system. Preliminary report. <i>Journal of Neurosurgery</i> , 1982 , 56, 803-6	3.2	57
114	Nano- Bio- Textile Sensors with Mobile Wireless Platform for Wearable Health Monitoring of Neurological and Cardiovascular Disorders. <i>Journal of the Electrochemical Society</i> , 2014 , 161, B3116-B3130	3.0	52
113	Wearable Wireless Cardiovascular Monitoring Using Textile-Based Nanosensor and Nanomaterial Systems. <i>Electronics (Switzerland)</i> , 2014 , 3, 504-520	2.6	51
112	Use of implantable pumps for central nervous system drug infusions to treat neurological disease. <i>Neurosurgery</i> , 1988 , 23, 693-8	3.2	50
111	Administration of intravenous urea and normal saline for the treatment of hyponatremia in neurosurgical patients. <i>Journal of Neurosurgery</i> , 1989 , 70, 201-6	3.2	48
110	Continuous ICV infusion of scopolamine impairs sustained attention of rhesus monkeys. <i>Neurobiology of Aging</i> , 1993 , 14, 147-51	5.6	45
109	More on ISAT. <i>Lancet, The</i> , 2003 , 361, 783-4; author reply 784	4.0	42
108	Why calls for more routine carotid stenting are currently inappropriate: an international, multispecialty, expert review and position statement. <i>Stroke</i> , 2013 , 44, 1186-90	6.7	38
107	External ventricular drainage for initial treatment of neonatal posthemorrhagic hydrocephalus: surgical and neurodevelopmental outcome. <i>Pediatric Neurosurgery</i> , 1987 , 13, 255-62	0.9	38
106	Intracerebroventricular bethanechol chloride infusion in Alzheimer's disease. Results of a collaborative double-blind study. <i>Journal of Neurosurgery</i> , 1989 , 71, 481-6	3.2	37
105	Forebrain commissurotomy for epilepsy. Review of 20 consecutive cases. <i>Acta Neurochirurgica</i> , 1983 , 68, 263-75	3	37
104	Early discharge after carotid endarterectomy. <i>Neurosurgery</i> , 1995 , 37, 219-24; discussion 224-5	3.2	36
103	Clinical outcomes after carotid endarterectomy: comparison of the use of regional and general anesthetics. <i>Journal of Neurosurgery</i> , 2000 , 92, 291-6	3.2	35
102	Training Standards in Neuroendovascular Surgery: Program Accreditation and Practitioner Certification. <i>Stroke</i> , 2017 , 48, 2318-2325	6.7	34
101	Nonlinear anisotropic stress analysis of anatomically realistic cerebral aneurysms. <i>Journal of Biomechanical Engineering</i> , 2007 , 129, 88-96	2.1	34
100	Systematic Review and Meta-analysis of Chiropractic Care and Cervical Artery Dissection: No Evidence for Causation. <i>Cureus</i> , 2016 , 8, e498	1.2	33

99	Patient-specific wall stress analysis in cerebral aneurysms using inverse shell model. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 478-89	4.7	32
98	Optimizing the Definitions of Stroke, Transient Ischemic Attack, and Infarction for Research and Application in Clinical Practice. <i>Frontiers in Neurology</i> , 2017 , 8, 537	4.1	31
97	Anticonvulsant activity of intracerebroventricularly administered glial GABA uptake inhibitors and other GABAmimetics in chemical seizure models. <i>Epilepsy Research</i> , 1989 , 4, 34-41	3	31
96	Methods and design considerations for randomized clinical trials evaluating surgical or endovascular treatments for cerebrovascular diseases. <i>Neurosurgery</i> , 2004 , 54, 248-64; discussion 264-7	3.2	30
95	Continuous Intratumoral Infusion of Methotrexate for Recurrent Glioblastoma: A Pilot Study. <i>Neurosurgery</i> , 1991 , 28, 752-761	3.2	28
94	Inception of a national multidisciplinary registry for stereotactic radiosurgery. <i>Journal of Neurosurgery</i> , 2016 , 124, 155-62	3.2	27
93	Misconceptions regarding the adequacy of best medical intervention alone for asymptomatic carotid stenosis. <i>Journal of Vascular Surgery</i> , 2020 , 71, 257-269	3.5	27
92	Arteriovenous malformations in elderly patients. <i>Neurosurgery</i> , 1994 , 35, 579-84	3.2	26
91	Novel CNS-directed drug delivery systems in Alzheimer's disease and other neurological disorders. <i>Neurobiology of Aging</i> , 1989 , 10, 623-9	5.6	26
90	Hemangioma calcificans. Case report. <i>Journal of Neurosurgery</i> , 1984 , 60, 417-9	3.2	25
89	Neurological surgery milestones. <i>Journal of Graduate Medical Education</i> , 2013 , 5, 24-35	1.6	24
88	The impact of surgical specialty on outcomes for carotid endarterectomy. <i>Journal of Surgical Research</i> , 2010 , 159, 595-602	2.5	24
87	Training residents in endovascular neurosurgery. <i>Neurosurgery</i> , 2006 , 59, S277-81; discussion S3-13	3.2	24
86	External ventricular drainage for control of posthemorrhagic hydrocephalus in premature infants. <i>Journal of Neurosurgery</i> , 1981 , 55, 766-70	3.2	24
85	Assessment of image-derived risk factors for natural course of unruptured cerebral aneurysms. <i>Journal of Neurosurgery</i> , 2016 , 124, 288-95	3.2	22
84	Intracellular signaling pathways and size, shape, and rupture history of human intracranial aneurysms. <i>Neurosurgery</i> , 2012 , 70, 1565-72; discussion 1572-3	3.2	21
83	Clinical outcomes for patients at high risk who underwent carotid endarterectomy with regional anesthesia. <i>Neurosurgery</i> , 1999 , 45, 786-91; discussion 791-2	3.2	21
82	Predictive Model for Medical and Surgical Readmissions Following Elective Lumbar Spine Surgery: A National Study of 33,674 Patients. <i>Spine</i> , 2019 , 44, 588-600	3.3	20

81	Telencephalic theory of generalized epilepsy: observations in split-brain patients. <i>Neurosurgery</i> , 1982 , 10, 725-32	3.2	20
80	An evaluation of human neurophysin production in Alzheimer's disease: preliminary observations. <i>Neurobiology of Aging</i> , 1992 , 13, 261-5	5.6	19
79	Idiopathic hypertrophic spinal pachymeningitis. <i>Journal of Neurosurgery: Spine</i> , 2011 , 15, 195-201	2.8	18
78	Anticonvulsant activity of the glial GABA uptake inhibitor, THAO, in chemical seizures. <i>European Journal of Pharmacology</i> , 1989 , 168, 265-8	5.3	18
77	Neurosurgical Education in a Changing Healthcare and Regulatory Environment: A Consensus Statement from 6 Programs. <i>Neurosurgery</i> , 2017 , 80, S75-S82	3.2	17
76	Impact of improved documentation on an academic neurosurgical practice. <i>Journal of Neurosurgery</i> , 2014 , 120, 756-63	3.2	17
75	AVM Management Equipose Survey: physician opinions regarding the management of brain arteriovenous malformations. <i>Journal of NeuroInterventional Surgery</i> , 2014 , 6, 748-53	7.8	17
74	Intentional hypertension during dissection of carotid arteries in endarterectomy prevents postoperative development of new cerebral ischemic lesions caused by intraoperative microemboli. <i>Neurosurgery</i> , 2011 , 69, 301-7	3.2	17
73	External ventricular drain practice variations: results from a nationwide survey. <i>Journal of Neurosurgery</i> , 2017 , 127, 1190-1197	3.2	15
72	Pediatric cerebellar infarction: case report and review of the literature. <i>Neurosurgery</i> , 1982 , 10, 593-6	3.2	15
71	The future of practice science: challenges and opportunities for neurosurgery. <i>Neurosurgical Focus</i> , 2013 , 34, E8	4.2	14
70	Quality Outcomes Database Spine Care Project 2012-2020: milestones achieved in a collaborative North American outcomes registry to advance value-based spine care and evolution to the American Spine Registry. <i>Neurosurgical Focus</i> , 2020 , 48, E2	4.2	14
69	Nonoperative management of odontoid fractures: a review of 59 cases. <i>Clinical Neurology and Neurosurgery</i> , 2013 , 115, 1653-6	2	13
68	Pathologic evidence that the T188R mutation in PRNP is associated with prion disease. <i>Journal of Neuropathology and Experimental Neurology</i> , 2010 , 69, 1220-7	3.1	13
67	Encephalomeningocele presenting with spontaneous cerebrospinal fluid rhinorrhea in an elderly man: case report. <i>Neurosurgery</i> , 1988 , 23, 637-40	3.2	12
66	Heterostructured IrO ₂ /Au Nanowire Electrodes and Unit Recordings From Hippocampal Rat Brain. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2010 , 1,		11
65	Carotid-coronary artery bypass graft conundrum. <i>Neurosurgery</i> , 1998 , 43, 926-31	3.2	11
64	Sensitivity of Quantified Intracranial Aneurysm Geometry to Imaging Modality. <i>Cardiovascular Engineering and Technology</i> , 2013 , 4, 75-86	2.2	10

63	Training standards in endovascular neurosurgery. <i>Neurosurgery Clinics of North America</i> , 2005 , 16, 445-9, xi	4	10
62	Stratification of a population of intracranial aneurysms using blood flow metrics. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18, 1072-1082	2.1	9
61	Clinicoradiological review: bilateral ethmoidal artery dural arteriovenous fistulas. <i>Neurosurgery</i> , 2007 , 60, 131-5; discussion 135-6	3.2	9
60	Clinical outcomes of aneurysmal subarachnoid hemorrhage patients treated with oral diltiazem and limited intensive care management. <i>World Neurosurgery</i> , 2001 , 55, 138-46; discussion 146-7		9
59	Teratoma of the cavernous sinus: case report. <i>Neurosurgery</i> , 1995 , 36, 1020-3	3.2	9
58	The Impact of Neurophysiological Intraoperative Monitoring during Spinal Cord and Spine Surgery: A Critical Analysis of 121 Cases. <i>Cureus</i> , 2017 , 9, e1861	1.2	8
57	e-Nanoflex Sensor System: Smartphone-Based Roaming Health Monitor. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2011 , 2,		8
56	Intracerebroventricular bethanechol chloride administration in Alzheimer's disease. <i>Annals of the New York Academy of Sciences</i> , 1988 , 531, 174-9	6.5	8
55	Volumetric brain analysis in neurosurgery: Part 3. Volumetric CT analysis as a predictor of seizure outcome following temporal lobectomy. <i>Journal of Neurosurgery: Pediatrics</i> , 2015 , 15, 133-43	2.1	7
54	Carotid Endarterectomy Using Regional Anesthesia. <i>Neurosurgery Clinics of North America</i> , 2000 , 11, 299-307	4	7
53	Developing a neurosurgical carotid endarterectomy practice. <i>World Neurosurgery</i> , 1996 , 46, 545-8		7
52	Nerve growth factor as a potential treatment in Alzheimer's disease. <i>Biomedicine and Pharmacotherapy</i> , 1989 , 43, 483-5	7.5	7
51	A Review and Survey of Neurosurgeon-Hospital Relationships: Evolution and Options. <i>Neurosurgery</i> , 2017 , 80, S10-S18	3.2	6
50	Gamma Knife radiosurgery of saccular aneurysms in a rabbit model. <i>Journal of Neurosurgery</i> , 2018 , 129, 1530-1540	3.2	6
49	On the role of modeling choices in estimation of cerebral aneurysm wall tension. <i>Journal of Biomechanics</i> , 2012 , 45, 2914-9	2.9	6
48	Carotid endarterectomy in high risk patients. <i>Neurological Research</i> , 2002 , 24 Suppl 1, S66-70	2.7	6
47	Intra-abdominal hemorrhage complicating hypertensive therapy for cerebral vasospasm. <i>Critical Care Medicine</i> , 1995 , 23, 775-7	1.4	6
46	Neural activity based biofeedback therapy for Autism spectrum disorder through wearable wireless textile EEG monitoring system 2014 ,		5

45	Carotid endarterectomy with regional anesthesia. <i>Neurosurgery</i> , 2001 , 49, 642-5	3.2	5
44	Author's response to commentaries. <i>Neurobiology of Aging</i> , 1989 , 10, 648-650	5.6	5
43	Does Neck Disability Index Correlate With 12-Month Satisfaction After Elective Surgery for Cervical Radiculopathy? Results From a National Spine Registry. <i>Neurosurgery</i> , 2020 , 86, 736-741	3.2	5
42	Development of Titanium Needle Probes for Neural Recording and Evaluation of Magnetic Resonance Imaging Artifacts. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2010 , 1,		4
41	Carotid Endarterectomy with Regional Anesthesia. <i>Neurosurgery</i> , 2001 , 49, 642-645	3.2	4
40	Neural transplantation vs. central neurotransmitter augmentation in diseases of the nervous system. <i>Neurobiology of Aging</i> , 1985 , 6, 164-166	5.6	4
39	The 2015 AANS Presidential Address: Neurosurgery's founding principles. <i>Journal of Neurosurgery</i> , 2015 , 123, 1351-7	3.2	3
38	Why the United States Center for Medicare and Medicaid Services (CMS) should not extend reimbursement indications for carotid artery angioplasty/stenting. <i>Brain and Behavior</i> , 2012 , 2, 200-7	3.4	3
37	Why the US Center for Medicare and Medicaid Services should not extend reimbursement indications for carotid artery angioplasty/stenting. <i>Angiology</i> , 2012 , 63, 639-44	2.1	3
36	Outcomes Analysis of the Treatment of Carotid Artery Disease. <i>Neurosurgery Clinics of North America</i> , 2000 , 11, 377-388	4	3
35	Acute effects of a pedicled omental graft on cold-induced brain oedema in cats. <i>Acta Neurochirurgica</i> , 1991 , 112, 136-40	3	3
34	Modeling the Geometry, Hemodynamics and Tissue Mechanics of Cerebral Aneurysms 2004 ,		3
33	Introduction. Predictive analytics in medicine. <i>Neurosurgical Focus</i> , 2018 , 45, E1	4.2	3
32	Neurosurgery Knowledge Update 2015 ,		3
31	Subarachnoid Hemorrhage: A Sharp Needle in a Haystack. <i>Academic Emergency Medicine</i> , 2016 , 23, 1077-94	3.4	3
30	Surgical advances for extracranial carotid stenosis. <i>Neurosurgery</i> , 2014 , 74 Suppl 1, S83-91	3.2	2
29	The false fontanel. <i>Journal of Neurosurgery</i> , 1984 , 61, 71-5	3.2	2
28	How the science of practice will improve evidence-based care. <i>Neurosurgical Focus</i> , 2020 , 48, E7	4.2	2

27	Nanosensor system for monitoring brain activity and drowsiness 2015 ,		1
26	Commentary on: A risk-benefit assessment strategy to exclude cervical artery dissection in spinal manual therapy: a comprehensive review. <i>Annals of Medicine</i> , 2019 , 51, 330-331	1.5	1
25	In Reply: Neurosurgical Education in a Changing Healthcare and Regulatory Environment: A Consensus Statement From 6 Programs. <i>Neurosurgery</i> , 2017 , 81, E47	3.2	1
24	Why the United States Center for Medicare and Medicaid Services should not extend reimbursement indications for carotid artery angioplasty/stenting. <i>Vascular</i> , 2012 , 20, 1-7	1.3	1
23	Continuous drug delivery by an implantable pump. <i>The American Journal of Hospice Care</i> , 1984 , 1, 17-20		1
22	Smart e-Textile-Based Nanosensors for Cardiac Monitoring with Smart Phone and Wireless Mobile Platform. <i>Springer Tracts in Mechanical Engineering</i> , 2014 , 387-401	0.3	1
21	Launching the Quality Outcomes Database Tumor Registry: rationale, development, and pilot data. <i>Journal of Neurosurgery</i> , 2021 , 1-10	3.2	1
20	Biohybrid Circuits: Nanotransducers Linking Cells and Neural Electrodes95-113		1
19	Time trend analysis of database and registry use in the neurosurgical literature: evidence for the advance of registry science.. <i>Journal of Neurosurgery</i> , 2021 , 1-6	3.2	1
18	Introduction. Evolution of the Science of Practice. <i>Neurosurgical Focus</i> , 2020 , 48, E1	4.2	0
17	Reply. <i>Journal of Vascular Surgery</i> , 2020 , 72, 384-385	3.5	
16	The worst headache of my life: an unusual presentation of gunshot wound to the head. <i>American Journal of Emergency Medicine</i> , 1997 , 15, 105-6	2.9	
15	On Lumbar Disc Herniation, SPORT and We Told You So <i>Neurosurgery</i> , 2007 , 60, N6-N7	3.2	
14	The Science and Controversy of Spinal Fusion. <i>Neurosurgery</i> , 2004 , 54, N6-N6	3.2	
13	Deep-brain stimulator and control of Parkinson's disease 2004 , 5389, 314		
12	Carotid endarterectomy using regional anesthesia in high-risk patients. <i>International Congress Series</i> , 2002 , 1247, 357-365		
11	Comments. <i>Neurosurgery</i> , 2012 , 71, 45-6	3.2	
10	Letter to the Editor. Activity versus injury: further defining the risk/benefit ratio in the Neurosurgery Charity Softball Tournament. <i>Journal of Neurosurgery</i> , 2018 , 130, 333-334	3.2	

9	Achieving Success in Quality Reporting 2019 , 385-395	
8	Rectifying the misconceptions about current best management of asymptomatic carotid stenosis is not about revising history. <i>Journal of Vascular Surgery</i> , 2020 , 72, 765-767	3.5
7	Transcranial Doppler Ultrasonography. <i>Neurosurgery</i> , 1995 , 37, 157-157	3.2
6	Diagnosis and Monitoring of Cerebral Hyperperfusion after Carotid Endarterectomy with Single Photon Emission Computed Tomography: Case Report. <i>Neurosurgery</i> , 1998 , 43, 160-160	3.2
5	Outcomes Studies in Carotid Artery Disease. <i>Surgery for Cerebral Stroke</i> , 1999 , 27, 350-355	0
4	Neurosurgical options in cancer pain management. <i>Cancer Treatment and Research</i> , 1986 , 95-105	3.5
3	Harmonized outcome measures for use in degenerative lumbar spondylolisthesis patient registries and clinical practice. <i>Journal of Neurosurgery: Spine</i> , 2021 , 1-9	2.8
2	Letter to the Editor: Does physician specialty really matter?. <i>Journal of Neurosurgery</i> , 2016 , 125, 523-4	3.2
1	Commentary on: Chiropractic associated vertebral artery dissection: An analysis of 34 patients amongst a cohort of 310. <i>Clinical Neurology and Neurosurgery</i> , 2021 , 207, 106790	2