

Matthew A Howard

List of Publications by Year in descending order

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161
papers

7,621
citations

50276

46
h-index

66911

78
g-index

166
all docs

166
docs citations

166
times ranked

9187
citing authors

#	ARTICLE	IF	CITATIONS
1	The Amygdala Is a Chemosensor that Detects Carbon Dioxide and Acidosis to Elicit Fear Behavior. <i>Cell</i> , 2009, 139, 1012-1021.	28.9	361
2	Single-neuron responses to emotional visual stimuli recorded in human ventral prefrontal cortex. <i>Nature Neuroscience</i> , 2001, 4, 15-16.	14.8	338
3	Seizure termination by acidosis depends on ASIC1a. <i>Nature Neuroscience</i> , 2008, 11, 816-822.	14.8	325
4	O ₂ and H ₂ O ₂ -Mediated Disruption of Fe Metabolism Causes the Differential Susceptibility of NSCLC and GBM Cancer Cells to Pharmacological Ascorbate. <i>Cancer Cell</i> , 2017, 31, 487-500.e8.	16.8	316
5	Genome-wide DNA methylation comparison between live human brain and peripheral tissues within individuals. <i>Translational Psychiatry</i> , 2019, 9, 47.	4.8	279
6	Temporal Envelope of Time-Compressed Speech Represented in the Human Auditory Cortex. <i>Journal of Neuroscience</i> , 2009, 29, 15564-15574.	3.6	217
7	Breathing Inhibited When Seizures Spread to the Amygdala and upon Amygdala Stimulation. <i>Journal of Neuroscience</i> , 2015, 35, 10281-10289.	3.6	180
8	Coding of Repetitive Transients by Auditory Cortex on Heschl's Gyrus. <i>Journal of Neurophysiology</i> , 2009, 102, 2358-2374.	1.8	177
9	Acute subdural hematomas: an age-dependent clinical entity. <i>Journal of Neurosurgery</i> , 1989, 71, 858-863.	1.6	174
10	A chronic microelectrode investigation of the tonotopic organization of human auditory cortex. <i>Brain Research</i> , 1996, 724, 260-264.	2.2	159
11	Sensory-motor networks involved in speech production and motor control: An fMRI study. <i>NeuroImage</i> , 2015, 109, 418-428.	4.2	144
12	Risk of ventriculostomy-related hemorrhage in patients with acutely ruptured aneurysms treated using stent-assisted coiling. <i>Journal of Neurosurgery</i> , 2011, 114, 1021-1027.	1.6	140
13	Neural signatures of perceptual inference. <i>ELife</i> , 2016, 5, e11476.	6.0	138
14	Functional Segregation of Cortical Regions Underlying Speech Timing and Articulation. <i>Neuron</i> , 2016, 89, 1187-1193.	8.1	121
15	Value Encoding in Single Neurons in the Human Amygdala during Decision Making. <i>Journal of Neuroscience</i> , 2011, 31, 331-338.	3.6	118
16	Risk factors and outcomes associated with surgical site infections after craniotomy or craniectomy. <i>Journal of Neurosurgery</i> , 2014, 120, 509-521.	1.6	117
17	Functional Connections Between Auditory Cortex on Heschl's Gyrus and on the Lateral Superior Temporal Gyrus in Humans. <i>Journal of Neurophysiology</i> , 2003, 90, 3750-3763.	1.8	107
18	Intracortical Responses in Human and Monkey Primary Auditory Cortex Support a Temporal Processing Mechanism for Encoding of the Voice Onset Time Phonetic Parameter. <i>Cerebral Cortex</i> , 2004, 15, 170-186.	2.9	104

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19	Human Auditory Cortical Activation during Self-Vocalization. PLoS ONE, 2011, 6, e14744.	2.5	101
20	Direct Recordings of Pitch Responses from Human Auditory Cortex. Current Biology, 2010, 20, 1128-1132.	3.9	100
21	Decoding Face Information in Time, Frequency and Space from Direct Intracranial Recordings of the Human Brain. PLoS ONE, 2008, 3, e3892.	2.5	94
22	A Segmentation-Based Method for Metal Artifact Reduction. Academic Radiology, 2007, 14, 495-504.	2.5	93
23	Intracranial Study of Speech-Elicited Activity on the Human Posterolateral Superior Temporal Gyrus. Cerebral Cortex, 2011, 21, 2332-2347.	2.9	91
24	A Functional Connection Between Inferior Frontal Gyrus and Orofacial Motor Cortex in Human. Journal of Neurophysiology, 2004, 92, 1153-1164.	1.8	83
25	Intracranial Mapping of a Cortical Tinnitus System using Residual Inhibition. Current Biology, 2015, 25, 1208-1214.	3.9	83
26	Functional organization of human auditory cortex: Investigation of response latencies through direct recordings. NeuroImage, 2014, 101, 598-609.	4.2	78
27	Processing of Facial Emotion in the Human Fusiform Gyrus. Journal of Cognitive Neuroscience, 2012, 24, 1358-1370.	2.3	71
28	Risk of hemorrhagic complication associated with ventriculoperitoneal shunt placement in aneurysmal subarachnoid hemorrhage patients on dual antiplatelet therapy. Journal of Neurosurgery, 2013, 119, 937-942.	1.6	71
29	Direct Physiologic Evidence of a Heteromodal Convergence Region for Proper Naming in Human Left Anterior Temporal Lobe. Journal of Neuroscience, 2015, 35, 1513-1520.	3.6	69
30	Neural Correlates of Vocal Production and Motor Control in Human Heschl's Gyrus. Journal of Neuroscience, 2016, 36, 2302-2315.	3.6	69
31	Effects of preparative parameters on the properties of chitosan hydrogel beads containing Candida rugosa lipase. Biomaterials, 2004, 25, 2645-2655.	11.4	67
32	Intracerebral drug delivery in rats with lesion-induced memory deficits. Journal of Neurosurgery, 1989, 71, 105-112.	1.6	65
33	Functional localization of auditory cortical fields of human: Click-train stimulation. Hearing Research, 2008, 238, 12-24.	2.0	63
34	Predictive Coding and Pitch Processing in the Auditory Cortex. Journal of Cognitive Neuroscience, 2011, 23, 3084-3094.	2.3	61
35	Coding of repetitive transients by auditory cortex on posterolateral superior temporal gyrus in humans: an intracranial electrophysiology study. Journal of Neurophysiology, 2013, 109, 1283-1295.	1.8	61
36	Functional connections within the human inferior frontal gyrus. Journal of Comparative Neurology, 2007, 503, 550-559.	1.6	60

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37	Sensory-Motor Interactions for Vocal Pitch Monitoring in Non-Primary Human Auditory Cortex. PLoS ONE, 2013, 8, e60783.	2.5	60
38	Experimental study of the magnetic stereotaxis system for catheter manipulation within the brain. Journal of Neurosurgery, 2000, 93, 282-288.	1.6	58
39	Electrophysiological correlates of reward prediction error recorded in the human prefrontal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8351-8356.	7.1	57
40	Spinal Cord Stimulation for Spasticity: Historical Approaches, Current Status, and Future Directions. Neuromodulation, 2017, 20, 307-321.	0.8	57
41	Sequence learning modulates neural responses and oscillatory coupling in human and monkey auditory cortex. PLoS Biology, 2017, 15, e2000219.	5.6	56
42	Clinical significance of positive cranial bone flap cultures and associated risk of surgical site infection after craniotomies or craniectomies. Journal of Neurosurgery, 2011, 114, 1746-1754.	1.6	55
43	A hybrid clinical research depth electrode for acute and chronic in vivo microelectrode recording of human brain neurons. Journal of Neurosurgery, 1996, 84, 129-132.	1.6	54
44	The effect of the aqueous solubility of xanthine derivatives on the release mechanism from ethylcellulose matrix tablets. International Journal of Pharmaceutics, 1999, 179, 97-105.	5.2	54
45	Auditory Predictive Coding across Awareness States under Anesthesia: An Intracranial Electrophysiology Study. Journal of Neuroscience, 2018, 38, 8441-8452.	3.6	52
46	Invasive recordings in the human auditory cortex. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2015, 129, 225-244.	1.8	50
47	Don't take the plunge: avoiding adverse events with cranial perforators. Journal of Neurosurgery, 2011, 115, 570-575.	1.6	47
48	Spectral Organization of the Human Lateral Superior Temporal Gyrus Revealed by Intracranial Recordings. Cerebral Cortex, 2014, 24, 340-352.	2.9	47
49	A Sound-Sensitive Source of Alpha Oscillations in Human Non-Primary Auditory Cortex. Journal of Neuroscience, 2019, 39, 8679-8689.	3.6	47
50	Analysis of Single-Unit Responses to Emotional Scenes in Human Ventromedial Prefrontal Cortex. Journal of Cognitive Neuroscience, 2005, 17, 1509-1518.	2.3	45
51	Hearing suppression induced by electrical stimulation of human auditory cortex. Brain Research, 2006, 1118, 75-83.	2.2	45
52	The pathophysiology of infant subdural haematomas. British Journal of Neurosurgery, 1993, 7, 355-365.	0.8	43
53	A method for placing Heschl gyrus depth electrodes. Journal of Neurosurgery, 2010, 112, 1301-1307.	1.6	43
54	A device for cooling localized regions of human cerebral cortex. Journal of Neurosurgery, 2003, 99, 604-608.	1.6	42

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55	Intracranial EEG for seizure focus localization: evolving techniques, outcomes, complications, and utility of combining surface and depth electrodes. <i>Journal of Neurosurgery</i> , 2019, 130, 1180-1192.	1.6	42
56	A noninvasive, reattachable skull fiducial marker system. <i>Journal of Neurosurgery</i> , 1995, 83, 372-376.	1.6	40
57	Mapping effective connectivity in the human brain with concurrent intracranial electrical stimulation and BOLD-fMRI. <i>Journal of Neuroscience Methods</i> , 2017, 277, 101-112.	2.5	39
58	Extruded and Spheronized Beads Containing No Microcrystalline Cellulose: Influence of Formulation and Process Variables. <i>Pharmaceutical Development and Technology</i> , 2004, 9, 197-217.	2.4	38
59	Loss of Acid Sensing Ion Channel-1a and Bicarbonate Administration Attenuate the Severity of Traumatic Brain Injury. <i>PLoS ONE</i> , 2013, 8, e72379.	2.5	37
60	Physiologic effects of nucleus basalis magnocellularis stimulation on rat barrel cortex neurons. <i>Experimental Brain Research</i> , 1994, 102, 21-33.	1.5	35
61	A "neurosurgical crisis" of sickle cell disease. <i>Journal of Neurosurgery: Pediatrics</i> , 2009, 4, 532-535.	1.3	35
62	Differential activation of human core, non-core and auditory-related cortex during speech categorization tasks as revealed by intracranial recordings. <i>Frontiers in Neuroscience</i> , 2014, 8, 240.	2.8	35
63	Sound identification in human auditory cortex: Differential contribution of local field potentials and high gamma power as revealed by direct intracranial recordings. <i>Brain and Language</i> , 2015, 148, 37-50.	1.6	35
64	Processing of auditory novelty across the cortical hierarchy: An intracranial electrophysiology study. <i>NeuroImage</i> , 2018, 183, 412-424.	4.2	35
65	Traumatic Intracranial Hemorrhage in Patients Taking Dabigatran. <i>Neurosurgery</i> , 2013, 73, E368-E374.	1.1	33
66	Risk factors associated with distal catheter migration following ventriculoperitoneal shunt placement. <i>Journal of Clinical Neuroscience</i> , 2016, 25, 46-49.	1.5	32
67	Functional connections between auditory cortical fields in humans revealed by Granger causality analysis of intra-cranial evoked potentials to sounds: Comparison of two methods. <i>BioSystems</i> , 2007, 89, 198-207.	2.0	31
68	Comparison of spinal cord stimulation profiles from intra- and extradural electrode arrangements by finite element modelling. <i>Medical and Biological Engineering and Computing</i> , 2014, 52, 531-538.	2.8	31
69	Spinal dura mater: biophysical characteristics relevant to medical device development. <i>Journal of Medical Engineering and Technology</i> , 2018, 42, 128-139.	1.4	29
70	Common fronto-temporal effective connectivity in humans and monkeys. <i>Neuron</i> , 2021, 109, 852-868.e8.	8.1	28
71	Conscious Perception as Integrated Information Patterns in Human Electroencephalography. <i>ENeuro</i> , 2017, 4, ENEURO.0085-17.2017.	1.9	28
72	Vagus nerve stimulation after lead revision. <i>Neurosurgical Focus</i> , 2012, 32, E11.	2.3	27

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73	A new device concept for directly modulating spinal cord pathways: initial <i>in vivo</i> experimental results. <i>Physiological Measurement</i> , 2012, 33, 2003-2015.	2.1	26
74	PEO and MPEG in high drug load extruded and spheronized beads that are devoid of MCC. <i>International Journal of Pharmaceutics</i> , 2006, 307, 66-76.	5.2	25
75	Clinical and radiographic predictors of neurological outcome following posterior fossa decompression for spontaneous cerebellar hemorrhage. <i>Journal of Clinical Neuroscience</i> , 2012, 19, 1236-1241.	1.5	25
76	Modulation of response patterns in human auditory cortex during a target detection task: An intracranial electrophysiology study. <i>International Journal of Psychophysiology</i> , 2015, 95, 191-201.	1.0	25
77	Role of the temporal pole in temporal lobe epilepsy seizure networks: an intracranial electrode investigation. <i>Journal of Neurosurgery</i> , 2018, 129, 165-173.	1.6	25
78	Intracranial Somatosensory Responses with Direct Spinal Cord Stimulation in Anesthetized Sheep. <i>PLoS ONE</i> , 2013, 8, e56266.	2.5	25
79	Magnetic Movement of a Brain Thermoceptor. <i>Neurosurgery</i> , 1989, 24, 444-448.	1.1	24
80	Comparing the Extent of Hippocampal Removal to the Outcome in Terms of Seizure Control. <i>Stereotactic and Functional Neurosurgery</i> , 1994, 62, 232-237.	1.5	24
81	Kinematic analysis of the gait of adult sheep during treadmill locomotion: Parameter values, allowable total error, and potential for use in evaluating spinal cord injury. <i>Journal of the Neurological Sciences</i> , 2015, 358, 107-112.	0.6	24
82	Electrophysiology of the Human Superior Temporal Sulcus during Speech Processing. <i>Cerebral Cortex</i> , 2021, 31, 1131-1148.	2.9	24
83	Vancomycin pharmacokinetics in hydrocephalic shunt prophylaxis and relationship to ventricular volume. <i>World Neurosurgery</i> , 1990, 34, 366-372.	1.3	23
84	Direct Recordings from the Auditory Cortex in a Cochlear Implant User. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2013, 14, 435-450.	1.8	23
85	Localization of musicogenic epilepsy to Heschl's gyrus and superior temporal plane: case report. <i>Journal of Neurosurgery</i> , 2018, 129, 157-164.	1.6	23
86	Genome-wide DNA methylation investigation of glucocorticoid exposure within buccal samples. <i>Psychiatry and Clinical Neurosciences</i> , 2019, 73, 323-330.	1.8	23
87	Case Report: Stimulation of the Right Amygdala Induces Transient Changes in Affective Bias. <i>Brain Stimulation</i> , 2014, 7, 690-693.	1.6	22
88	An ovine model of spinal cord injury. <i>Journal of Spinal Cord Medicine</i> , 2017, 40, 346-360.	1.4	22
89	Intrathecal Therapeutics: Device Design, Access Methods, and Complication Mitigation. <i>Neuromodulation</i> , 2018, 21, 625-640.	0.8	22
90	Causal mapping of emotion networks in the human brain: Framework and initial findings. <i>Neuropsychologia</i> , 2020, 145, 106571.	1.6	22

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91	Electrocorticographic delineation of human auditory cortical fields based on effects of propofol anesthesia. <i>NeuroImage</i> , 2017, 152, 78-93.	4.2	21
92	Oscillatory correlates of auditory working memory examined with human electrocorticography. <i>Neuropsychologia</i> , 2021, 150, 107691.	1.6	21
93	A transient deficit of motion perception in human. <i>Vision Research</i> , 2000, 40, 3435-3446.	1.4	20
94	Ovine Tests of a Novel Spinal Cord Neuromodulator and Dentate Ligament Fixation Method. <i>Journal of Investigative Surgery</i> , 2012, 25, 366-374.	1.3	20
95	Differential responses to spectrally degraded speech within human auditory cortex: An intracranial electrophysiology study. <i>Hearing Research</i> , 2019, 371, 53-65.	2.0	20
96	Magnetic Stereotaxis: A Technique to Deliver Stereotactic Hyperthermia. <i>Neurosurgery</i> , 1990, 27, 1010-1016.	1.1	19
97	Conditioned place preference and spontaneous dorsal horn neuron activity in chronic constriction injury model in rats. <i>Pain</i> , 2015, 156, 2562-2571.	4.2	19
98	Effects of brain derived neurotrophic factor Val66Met polymorphism in patients with cervical spondylotic myelopathy. <i>Journal of Clinical Neuroscience</i> , 2016, 24, 117-121.	1.5	19
99	Direct electrophysiological mapping of human pitch-related processing in auditory cortex. <i>NeuroImage</i> , 2019, 202, 116076.	4.2	19
100	Stereotactic Atlas-Based Depth Electrode Localization in the Human Amygdala. <i>Stereotactic and Functional Neurosurgery</i> , 2009, 87, 219-228.	1.5	18
101	Mapping the temporal pole with a specialized electrode array: technique and preliminary results. <i>Physiological Measurement</i> , 2014, 35, 323-337.	2.1	18
102	Volume of Brain Herniation in Patients with Ischemic Stroke After Decompressive Craniectomy. <i>World Neurosurgery</i> , 2016, 96, 101-106.	1.3	17
103	Intracranial markers of conscious face perception in humans. <i>NeuroImage</i> , 2017, 162, 322-343.	4.2	17
104	Decoding movement-related cortical potentials from electrocorticography. <i>Neurosurgical Focus</i> , 2009, 27, E11.	2.3	16
105	Surgical Management of Tumors Involving Meckel's Cave and Cavernous Sinus: Role of an Extended Middle Fossa and Lateral Sphenoidectomy Approach. <i>Otology and Neurotology</i> , 2018, 39, 82-91.	1.3	16
106	Chronic Microelectrode Investigations of Normal Human Brain Physiology Using a Hybrid Depth Electrode. <i>Stereotactic and Functional Neurosurgery</i> , 1997, 68, 236-242.	1.5	15
107	Postsurgical Pathologies Associated with Intradural Electrical Stimulation in the Central Nervous System: Design Implications for a New Clinical Device. <i>BioMed Research International</i> , 2014, 2014, 1-10.	1.9	15
108	Beta modulation reflects name retrieval in the human anterior temporal lobe: an intracranial recording study. <i>Journal of Neurophysiology</i> , 2016, 115, 3052-3061.	1.8	15

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109	Treatment of Lateral Skull Base and Posterior Cranial Fossa Lesions Utilizing the Extended Middle Cranial Fossa Approach. <i>Otology and Neurotology</i> , 2017, 38, 742-750.	1.3	14
110	Neural phase locking predicts BOLD response in human auditory cortex. <i>NeuroImage</i> , 2018, 169, 286-301.	4.2	14
111	Ovine model of neuropathic pain for assessing mechanisms of spinal cord stimulation therapy via dorsal horn recordings, von Frey filaments, and gait analysis. <i>Journal of Pain Research</i> , 2018, Volume 11, 1147-1162.	2.0	14
112	Measurement of in vivo spinal cord displacement and strain fields of healthy and myelopathic cervical spinal cord. <i>Journal of Neurosurgery: Spine</i> , 2019, 31, 53-59.	1.7	14
113	Can you hear me yet? An intracranial investigation of speech and non-speech audiovisual interactions in human cortex. <i>Language, Cognition and Neuroscience</i> , 2016, 31, 284-302.	1.2	13
114	Russell Meyers (1905â€“1999): pioneer of functional and ultrasonic neurosurgery. <i>Journal of Neurosurgery</i> , 2016, 125, 1589-1595.	1.6	13
115	Paradoxical vocal changes in a trained singer by focally cooling the right superior temporal gyrus. <i>Cortex</i> , 2017, 89, 111-119.	2.4	13
116	Volume of Brain Herniation After Decompressive Craniectomy in Patients with Traumatic Brain Injury. <i>World Neurosurgery</i> , 2018, 118, e414-e421.	1.3	13
117	Cerebral Blood Flow Dynamics and Head-of-Bed Changes in the Setting of Subarachnoid Hemorrhage. <i>BioMed Research International</i> , 2013, 2013, 1-4.	1.9	12
118	Comparison of Conventional and Kilohertz Frequency Epidural Stimulation in Patients Undergoing Trialing for Spinal Cord Stimulation: Clinical Considerations. <i>World Neurosurgery</i> , 2016, 88, 586-591.	1.3	12
119	Power and signal transmission protocol for a contactless subdural spinal cord stimulation device. <i>Biomedical Microdevices</i> , 2013, 15, 27-36.	2.8	11
120	Syringomyelia and spinal arachnoiditis resulting from aneurysmal subarachnoid hemorrhage: Report of two cases and review of the literature. <i>Journal of Craniovertebral Junction and Spine</i> , 2014, 5, 47.	0.8	11
121	Utility and safety of depth electrodes within the supratemporal plane for intracranial EEG. <i>Journal of Neurosurgery</i> , 2019, 131, 772-780.	1.6	11
122	Postoperative radiographic findings in patients undergoing intracranial electrode monitoring for medically refractory epilepsy. <i>Journal of Neurosurgery</i> , 2010, 112, 449-454.	1.6	10
123	Use of confirmatory imaging studies to illustrate adequate treatment of cerebrospinal fluid leak in spontaneous intracranial hypotension. <i>Journal of Neurosurgery</i> , 2010, 113, 955-960.	1.6	10
124	Sparse Spectro-Temporal Receptive Fields Based on Multi-Unit and High-Gamma Responses in Human Auditory Cortex. <i>PLoS ONE</i> , 2015, 10, e0137915.	2.5	10
125	Intraventricular foramen of Monro cavernous malformation. <i>Journal of Clinical Neuroscience</i> , 2015, 22, 1690-1693.	1.5	10
126	Catenin delta-1 (CTNND1) phosphorylation controls the mesenchymal to epithelial transition in astrocytic tumors. <i>Human Molecular Genetics</i> , 2016, 25, 4201-4210.	2.9	10

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127	Brain xenografts: the effect of cyclosporin A on graft survival. <i>Journal of Neurosurgery</i> , 1988, 69, 121-126.	1.6	9
128	A Unique Case of Primary Ewing's Sarcoma of the Cervical Spine in a 53-Year-Old Male: A Case Report and Review of the Literature. <i>Case Reports in Medicine</i> , 2015, 2015, 1-6.	0.7	8
129	Effect of Surgery on Gait and Sensory Motor Performance in Patients With Cervical Spondylotic Myelopathy. <i>Neurosurgery</i> , 2016, 79, 701-707.	1.1	7
130	Decomposition of higher-order spectra for blind multiple-input deconvolution, pattern identification and separation. <i>Signal Processing</i> , 2019, 165, 357-379.	3.7	7
131	Pharmacokinetics of Intraventricular Vancomycin in Hydrocephalic Rats. <i>Neurosurgery</i> , 1986, 18, 725-729.	1.1	6
132	Posterior ligamentous complex healing following disruption in thoracolumbar fractures. <i>Medical Hypotheses</i> , 2013, 81, 117-118.	1.5	6
133	Finite-Element Study of the Performance Characteristics of an Intradural Spinal Cord Stimulator. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014, 8, .	0.7	6
134	Contemporary Approaches to Preventing and Treating Infections of Novel Intrathecal Neurostimulation Devices. <i>World Neurosurgery</i> , 2019, 128, e397-e408.	1.3	6
135	Durotomy Surrogate and Seals for Intradural Spinal Cord Stimulators: Apparatus and Review of Clinical Methods and Materials. <i>Neuromodulation</i> , 2019, 22, 916-929.	0.8	6
136	Intracranial electrophysiology of the human orbitofrontal cortex. , 2006, , 355-376.		6
137	An Integrated Multipurpose Lesion-making Electrode. <i>Neurosurgery</i> , 1998, 42, 137-141.	1.1	5
138	Paraparesis induced by inflammatory contents of a pneumonectomy cavity. <i>Journal of Neurosurgery</i> , 2000, 93, 1065-1068.	1.6	5
139	Precision surgery of rolandic glioma and insights from extended functional mapping. <i>Clinical Neurology and Neurosurgery</i> , 2017, 163, 60-66.	1.4	5
140	Drug-resistant epilepsy development following stem cell transplant and cyclosporine neurotoxicity induced seizures: Case report in an adult and analysis of reported cases in the literature. <i>Epilepsy & Behavior Case Reports</i> , 2018, 10, 8-13.	1.5	5
141	Investigating the Anterior Temporal Lobe With Direct Intracranial Recordings. <i>Neurosurgery</i> , 2015, 62, 185-189.	1.1	4
142	When neuroscience met clinical pathology: partitioning experimental variation to aid data interpretation in neuroscience. <i>European Journal of Neuroscience</i> , 2018, 47, 371-379.	2.6	4
143	Bone flap elevation for intracranial EEG monitoring: technical note. <i>Journal of Neurosurgery</i> , 2018, 129, 182-187.	1.6	4
144	Magnetic Neurosurgery. <i>Stereotactic and Functional Neurosurgery</i> , 1996, 66, 102-107.	1.5	3

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145	Using speech and electrocorticography to map human auditory cortex. , 2014, 2014, 6798-801.		3
146	A Novel Dural Reconstruction Method Following Spinal Tumor Resection. Neurosurgery Quarterly, 2016, 26, 251-255.	0.1	3
147	From Russian Refugee to Iowa's First Neurosurgeon and Pioneer of Cranial Hemostasis: The Legacy of Anatole Kolodny (1892-1948). Neurosurgery, 2016, 80, 159-164.	1.1	3
148	The origins and persistence of psychosurgery in the state of Iowa. Neurosurgical Focus, 2017, 43, E8.	2.3	3
149	Reversible basilar artery blood flow in subclavian steal syndrome. Journal of Stroke and Cerebrovascular Diseases, 1991, 1, 103-108.	1.6	2
150	A Combined Surgical-Endovascular Device Concept for Giant Aneurysm Neck Occlusion. Neurosurgery, 1998, 42, 1364-1368.	1.1	2
151	The next 100 years of neurosurgery. Lancet, The, 1999, 354, SIV36.	13.7	2
152	Methods and Devices for Posterior Ventriculoperitoneal Shunt Placement Surgery: 25 Years of Iterative Refinement. World Neurosurgery, 2019, 129, 514-521.e3.	1.3	2
153	Successful conservative management of an intrathecal catheter-associated inflammatory mass. Spine Journal, 2013, 13, 1708-1709.	1.3	1
154	Functional MRI detection of hemodynamic response of repeated median nerve stimulation. Magnetic Resonance Imaging, 2013, 31, 550-554.	1.8	1
155	Shunt scissors: technical note. Journal of Neurosurgery, 2018, 129, 1200-1202.	1.6	1
156	The Wishbone: A Cranial Midline Localizing Device. World Neurosurgery, 2019, 128, 600-605.e1.	1.3	1
157	Review of Magnetic Neurosurgery Research. Computer Aided Surgery, 1995, 1, 295-299.	1.8	0
158	Giant Thrombosed Intracranial Aneurysm. New England Journal of Medicine, 2016, 375, 778-778.	27.0	0
159	Letter: Reconsidering Bone Morphogenetic Protein in the Cervical Spine: Selective Use for Managing Type II Odontoid Fractures in the Elderly. Operative Neurosurgery, 2017, 13, E39-E42.	0.8	0
160	John C. Vangilder (1935â€“2007): Neurosurgical Leader and Founder of the Department of Neurosurgery at the University of Iowa. World Neurosurgery, 2018, 114, 259-263.	1.3	0
161	Localized controlled fibrin glue application with gelatin sponge for hemostasis and dural defect repair: Technical note. Interdisciplinary Neurosurgery: Advanced Techniques and Case Management, 2019, 18, 100476.	0.3	0