Issam A Awad

List of Publications by Year
in descending order

246 papers	17,731 citations	11651 70 h-index	16183 124 g-index
258 all docs	258 docs citations	258 times ranked	9907 citing authors

#	Article	IF	Citations
1	Natural history of the cavernous angioma. Journal of Neurosurgery, 1991, 75, 709-714.	1.6	861
2	Guidelines for the Prevention of Stroke in Women. Stroke, 2014, 45, 1545-1588.	2.0	754
3	Intracranial dural arteriovenous malformations: factors predisposing to an aggressive neurological course. Journal of Neurosurgery, 1990, 72, 839-850.	1.6	732
4	Efficacy and safety of minimally invasive surgery with thrombolysis in intracerebral haemorrhage evacuation (MISTIE III): a randomised, controlled, open-label, blinded endpoint phase 3 trial. Lancet, The, 2019, 393, 1021-1032.	13.7	534
5	Intractable Epilepsy and Structural Lesions of the Brain: Mapping, Resection Strategies, and Seizure Outcome. Epilepsia, 1991, 32, 179-186.	5.1	365
6	Intracranial Cavernous Malformations. Neurosurgery, 1995, 37, 591-605.	1.1	365
7	Thrombolytic removal of intraventricular haemorrhage in treatment of severe stroke: results of the randomised, multicentre, multiregion, placebo-controlled CLEAR III trial. Lancet, The, 2017, 389, 603-611.	13.7	364
8	Synopsis of Guidelines for the Clinical Management of Cerebral Cavernous Malformations: Consensus Recommendations Based on Systematic Literature Review by the Angioma Alliance Scientific Advisory Board Clinical Experts Panel. Neurosurgery, 2017, 80, 665-680.	1.1	334
9	Multilocus linkage identifies two new loci for a mendelian form of stroke, cerebral cavernous malformation, at 7p15-13 and 3q25.2-27. Human Molecular Genetics, 1998, 7, 1851-1858.	2.9	331
10	Mixed Vascular Malformations of the Brain. Neurosurgery, 1993, 33, 179-188.	1.1	306
11	Cerebral cavernous malformations proteins inhibit Rho kinase to stabilize vascular integrity. Journal of Experimental Medicine, 2010, 207, 881-896.	8.5	303
12	Minimally Invasive Surgery Plus Recombinant Tissue-type Plasminogen Activator for Intracerebral Hemorrhage Evacuation Decreases Perihematomal Edema. Stroke, 2013, 44, 627-634.	2.0	301
13	Safety and efficacy of minimally invasive surgery plus alteplase in intracerebral haemorrhage evacuation (MISTIE): a randomised, controlled, open-label, phase 2 trial. Lancet Neurology, The, 2016, 15, 1228-1237.	10.2	292
14	A Founder Mutation as a Cause of Cerebral Cavernous Malformation in Hispanic Americans. New England Journal of Medicine, 1996, 334, 946-951.	27.0	257
15	Cerebral cavernous malformations arise from endothelial gain of MEKK3â€“KLF2/4 signalling. Nature, 2016, 532, 122-126.	27.8	249
16	Endothelial TLR4 and the microbiome drive cerebral cavernous malformations. Nature, 2017, 545, 305-310.	27.8	247
17	Hemorrhage From Cavernous Malformations of the Brain. Stroke, 2008, 39, 3222-3230.	2.0	230
18	Expression of Angiogenic Factors and Structural Proteins in Central Nervous System Vascular Malformations. Neurosurgery, 1996, 38, 915-925.	1.1	221

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19	Coronary Risk Evaluation in Patients With Transient Ischemic Attack and Ischemic Stroke. Circulation, 2003, 108, 1278-1290.	1.6	214
20	Symptomatic Chiari Malformation in Adults: A New Classification Based on Magnetic Resonance Imaging with Clinical and Prognostic Significance. Neurosurgery, 1991, 28, 639-645.	1.1	197
21	Biology of Vascular Malformations of the Brain. Stroke, 2009, 40, e694-702.	2.0	194
22	A Comparison of the Clinical Profile of Cavernous Malformations with and without Associated Venous Malformations. Neurosurgery, 1999, 44, 41-46.	1.1	188
23	Ultrastructural Pathological Features of Cerebrovascular Malformations: A Preliminary Report. Neurosurgery, 2000, 46, 1454-1459.	1.1	170
24	Low-Dose Recombinant Tissue-Type Plasminogen Activator Enhances Clot Resolution in Brain Hemorrhage. Stroke, 2011, 42, 3009-3016.	2.0	169
25	Intracranial cavernous angioma: a practical review of clinical and biological aspects. World Neurosurgery, 2005, 63, 319-328.	1.3	153
26	Biallelic Somatic and Germ LineCCM1Truncating Mutations in a Cerebral Cavernous Malformation Lesion. Stroke, 2005, 36, 872-874.	2.0	152
27	Vascular Malformations and Epilepsy: Clinical Considerations and Basic Mechanisms. Epilepsia, 1994, 35, S30-43.	5.1	150
28	Spontaneous Angiographic Obliteration of Cerebral Arteriovenous Malformations. Neurosurgery, 1999, 44, 280-287.	1.1	150
29	Factors Predisposing to Clinical Disability in Patients with Cavernous Malformations of the Brain. Neurosurgery, 1993, 32, 730-736.	1.1	149
30	Recommendations for the Management of Patients With Unruptured Intracranial Aneurysms. Circulation, 2000, 102, 2300-2308.	1.6	148
31	BRAINSTEM CAVERNOUS MALFORMATIONS. Neurosurgery, 2009, 64, E805-E818.	1.1	144
32	Recommendations for the Management of Intracranial Arteriovenous Malformations. Circulation, 2001, 103, 2644-2657.	1.6	141
33	Extent of Resection in Temporal Lobectomy for Epilepsy. II. Memory Changes and Neurologic Complications. Epilepsia, 1989, 30, 763-771.	5.1	137
34	Coronary Risk Evaluation in Patients With Transient Ischemic Attack and Ischemic Stroke. Stroke, 2003, 34, 2310-2322.	2.0	137
35	Stereotactic Computed Tomographicâ€“Guided Aspiration and Thrombolysis of Intracerebral Hematoma. Stroke, 2000, 31, 834-840.	2.0	133
36	Misdiagnosis of Symptomatic Cerebral Aneurysm. Stroke, 1996, 27, 1558-1563.	2.0	131

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37	Fasudil Decreases Lesion Burden in a Murine Model of Cerebral Cavernous Malformation Disease. Stroke, 2012, 43, 571-574.	2.0	130
38	Accuracy of the ABC/2 Score for Intracerebral Hemorrhage. Stroke, 2015, 46, 2470-2476.	2.0	125
39	A novel mouse model of cerebral cavernous malformations based on the two-hit mutation hypothesis recapitulates the human disease. Human Molecular Genetics, 2011, 20, 211-222.	2.9	120
40	The Modified Graeb Score. Stroke, 2013, 44, 635-641.	2.0	119
41	Extent of Resection in Temporal Lobectomy for Epilepsy. I. Interobserver Analysis and Correlation with Seizure Outcome. Epilepsia, 1989, 30, 756-762.	5.1	117
42	Lesions from patients with sporadic cerebral cavernous malformations harbor somatic mutations in the CCM genes: evidence for a common biochemical pathway for CCM pathogenesis. Human Molecular Genetics, 2014, 23, 4357-4370.	2.9	117
43	External Ventricular Drainage for Intraventricular Hemorrhage. Current Neurology and Neuroscience Reports, 2012, 12, 24-33.	4.2	116
44	Exceptional aggressiveness of cerebral cavernous malformation disease associated with PDCD10 mutations. Genetics in Medicine, 2015, 17, 188-196.	2.4	116
45	Pathological Heterogeneity of Angiographically Occult Vascular Malformations of the Brain. Neurosurgery, 1993, 33, 547-555.	1.1	115
46	Extracranial-Intracranial Bypass Surgery: A Critical Analysis in Light of the International Cooperative Study. Neurosurgery, 1986, 19, 655-664.	1.1	112
47	Intracarotid Amobarbital Procedure as a Predictor of Material-Specific Memory Change After Anterior Temporal Lobectomy. Epilepsia, 1995, 36, 857-865.	5.1	111
48	Extent of Mesiobasal Resection Determines Outcome after Temporal Lobectomy for Intractable Complex Partial Seizures. Neurosurgery, 1991, 29, 55-61.	1.1	109
49	Cerebral Hemorrhage: Pathophysiology, Treatment, and Future Directions. Circulation Research, 2022, 130, 1204-1229.	4.5	109
50	Toward More Rational Prediction of Outcome in Patients with High-grade Subarachnoid Hemorrhage. Neurosurgery, 2000, 46, 28-36.	1.1	108
51	Intracranial Meningiomas in the Aged: Surgical Outcome in the Era of Computed Tomography. Neurosurgery, 1989, 24, 557-560.	1.1	104
52	PIK3CA and CCM mutations fuel cavernomas through a cancer-like mechanism. Nature, 2021, 594, 271-276.	27.8	103
53	Cerebral Vascular Malformations Adjacent to Sensorimotor and Visual Cortex. Stroke, 1997, 28, 1130-1137.	2.0	103
54	A Multicenter, Randomized, Double-Blinded, Placebo-Controlled Phase III Study of Clot Lysis Evaluation of Accelerated Resolution of Intraventricular Hemorrhage (CLEAR III). International Journal of Stroke, 2014, 9, 536-542.	5.9	102

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55	Differential Gene Expression in Human Cerebrovascular Malformations. Neurosurgery, 2003, 52, 465-478.	1.1	101
56	Genomics of Human Intracranial Aneurysm Wall. Stroke, 2009, 40, 1252-1261.	2.0	101
57	Pathobiology of human cerebrovascular malformations: basic mechanisms and clinical relevance. Neurosurgery, 2004, 55, 1-16; discussion 16-7.	1.1	96
58	Leptomeningeal Metastasis from Supratentorial Malignant Gliomas. Neurosurgery, 1986, 19, 247-251.	1.1	93
59	Failure of the hypotensive provocative test during temporary balloon test occlusion of the internal carotid artery to predict delayed hemodynamic ischemia after therapeutic carotid occlusion. World Neurosurgery, 1998, 50, 147-156.	1.3	93
60	Emerging clinical imaging techniques for cerebral cavernous malformations: a systematic review. Neurosurgical Focus, 2010, 29, E6.	2.3	93
61	Surgical Performance Determines Functional Outcome Benefit in the Minimally Invasive Surgery Plus Recombinant Tissue Plasminogen Activator for Intracerebral Hemorrhage Evacuation (MISTIE) Procedure. Neurosurgery, 2019, 84, 1157-1168.	1.1	93
62	Vascular pressures and cortical blood flow in cavernous angioma of the brain. Journal of Neurosurgery, 1990, 73, 555-559.	1.6	87
63	Cavernous angiomas: deconstructing a neurosurgical disease. Journal of Neurosurgery, 2019, 131, 1-13.	1.6	87
64	RhoA Kinase Inhibition With Fasudil Versus Simvastatin in Murine Models of Cerebral Cavernous Malformations. Stroke, 2017, 48, 187-194.	2.0	86
65	Pathological Heterogeneity of Angiographically Occult Vascular Malformations of the Brain. Neurosurgery, 1993, 33, 547-555.	1.1	84
66	Evaluation of Iron Content in Human Cerebral Cavernous Malformation Using Quantitative Susceptibility Mapping. Investigative Radiology, 2014, 49, 498-504.	6.2	83
67	Cerebral Cavernous Malformation: From Mechanism to Therapy. Circulation Research, 2021, 129, 195-215.	4.5	82
68	Genetic Heterogeneity of Inherited Cerebral Cavernous Malformation. Neurosurgery, 1996, 38, 1265-1271.	1.1	82
69	Expression of Angiogenesis Factors and Selected Vascular Wall Matrix Proteins in Intracranial Saccular Aneurysms. Neurosurgery, 1996, 39, 537-546.	1.1	81
70	Comparative localization of auditory comprehension by using functional magnetic resonance imaging and cortical stimulation. Journal of Neurosurgery, 1999, 91, 626-635.	1.6	81
71	Resolution of Intraventricular Hemorrhage Varies by Ventricular Region and Dose of Intraventricular Thrombolytic. Stroke, 2012, 43, 1666-1668.	2.0	81
72	Magnetic Resonance Imaging Evaluation of Cerebral Cavernous Malformations With Susceptibility-Weighted Imaging. Neurosurgery, 2011, 68, 641-648.	1.1	80

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73	Thrombospondin1 (TSP1) replacement prevents cerebral cavernous malformations. Journal of Experimental Medicine, 2017, 214, 3331-3346.	8.5	80
74	Intracarotid Amobarbital Procedure: I. Prediction of Decreased Modalityâ€Specific Memory Scores After Temporal Lobectomy. Epilepsia, 1991, 32, 857-864.	5.1	72
75	Differences of In Vitro Electrophysiology of Hippocampal Neurons from Epileptic Patients with Mesiotemporal Sclerosis Versus Structural Lesions. Epilepsia, 1992, 33, 601-609.	5.1	72
76	CAVERNOUS MALFORMATIONS OF THE BASAL GANGLIA AND THALAMUS. Neurosurgery, 2009, 65, 7-19.	1.1	72
77	Natural History of Recurrent Seizures After Resective Surgery for Epilepsy. Epilepsia, 1991, 32, 851-856.	5.1	71
78	Expression of Endothelial Cell Angiogenesis Receptors in Human Cerebrovascular Malformations. Neurosurgery, 2001, 48, 359-368.	1.1	69
79	Occurrence and impact of intracranial pressure elevation during treatment of severe intraventricular hemorrhage*. Critical Care Medicine, 2012, 40, 1601-1608.	0.9	69
80	Patterns of functional magnetic resonance imaging activation in association with structural lesions in the rolandic region: a classification system. Journal of Neurosurgery, 2001, 94, 946-954.	1.6	68
81	CEREBRAL CAVERNOUS MALFORMATIONS. Neurosurgery, 2009, 65, 138-145.	1.1	68
82	Bleeding and Infection With External Ventricular Drainage. Neurosurgery, 2015, 76, 291-301.	1.1	67
83	Mutational analysis of 206 families with cavernous malformations. Journal of Neurosurgery, 2003, 99, 38-43.	1.6	66
84	Incidental Lesions Noted on Magnetic Resonance Imaging of the Brain: Prevalence and Clinical Significance in Various Age Groups. Neurosurgery, 1987, 20, 222-227.	1.1	65
85	Neuroendovascular Interventions for Intracranial Posterior Circulation Disease via the Transradial Approach: Technical Case Report. Neurosurgery, 2005, 56, E626-E626.	1.1	62
86	Cerebral cavernous malformations form an anticoagulant vascular domain in humans and mice. Blood, 2019, 133, 193-204.	1.4	60
87	Dynamic Permeability and Quantitative Susceptibility. Stroke, 2014, 45, 598-601.	2.0	59
88	The Effect of Propofol on the Electroencephalogram of Patients with Epilepsy. Anesthesia and Analgesia, 1994, 78, 275-279.	2.2	58
89	Atorvastatin Treatment of Cavernous Angiomas with Symptomatic Hemorrhage Exploratory Proof of Concept (AT CASH EPOC) Trial. Neurosurgery, 2019, 85, 843-853.	1.1	58
90	SPECTRUM OF GENOTYPE AND CLINICAL MANIFESTATIONS IN CEREBRAL CAVERNOUS MALFORMATIONS. Neurosurgery, 2006, 59, 1278-1285.	1.1	56

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91	Vascular Permeability in Cerebral Cavernous Malformations. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1632-1639.	4.3	55
92	Expression of Angiogenesis Factors and Selected Vascular Wall Matrix Proteins in Intracranial Saccular Aneurysms. Neurosurgery, 1996, 39, 537-547.	1.1	53
93	Intractable complex partial seizures associated with occult temporal lobe encephalocele and meningoangiomatosis: A case report. World Neurosurgery, 1990, 34, 318-322.	1.3	52
94	Immune Response in Human Cerebral Cavernous Malformations. Stroke, 2009, 40, 1659-1665.	2.0	52
95	Vascular Smooth Muscle Cell Differentiation in Human Cerebral Vascular Malformations. Neurosurgery, 2001, 49, 671-680.	1.1	51
96	Distinct cellular roles for PDCD10 define a gut-brain axis in cerebral cavernous malformation. Science Translational Medicine, 2019, 11, .	12.4	51
97	Plasma Biomarkers of Inflammation and Angiogenesis Predict Cerebral Cavernous Malformation Symptomatic Hemorrhage or Lesional Growth. Circulation Research, 2018, 122, 1716-1721.	4.5	47
98	ADVANCED MAGNETIC RESONANCE IMAGING OF CEREBRAL CAVERNOUS MALFORMATIONS. Neurosurgery, 2008, 63, 790-798.	1.1	46
99	Surgical Performance in Minimally Invasive Surgery Plus Recombinant Tissue Plasminogen Activator for Intracerebral Hemorrhage Evacuation Phase III Clinical Trial. Neurosurgery, 2017, 81, 860-866.	1.1	46
100	Multiple vertebral hemangiomas with neurological signs. Journal of Neurosurgery, 1992, 76, 1025-1028.	1.6	45
101	Expression of basement membrane and endothelial cell adhesion molecules in vascular malformations of the brain: Preliminary observations and working hypothesis. Neurological Research, 1995, 17, 49-58.	1.3	45
102	Intraoperative endovascular treatment as an adjunct to microsurgical clipping of paraclinoid aneurysms. Journal of Neurosurgery, 2000, 93, 554-560.	1.6	45
103	CONCEPTS AND HYPOTHESES. Neurosurgery, 2007, 61, 693-703.	1.1	45
104	Spontaneous Intracerebral and Intraventricular Hemorrhage. Neurosurgery, 2014, 74, S142-S150.	1.1	45
105	Plasma Biomarkers of Inflammation Reflect Seizures and Hemorrhagic Activity of Cerebral Cavernous Malformations. Translational Stroke Research, 2018, 9, 34-43.	4.2	45
106	Changes in intracranial stenotic lesions after extracranial-intracranial bypass surgery. Journal of Neurosurgery, 1984, 60, 771-776.	1.6	44
107	Vascular permeability and iron deposition biomarkers in longitudinal follow-up of cerebral cavernous malformations. Journal of Neurosurgery, 2017, 127, 102-110.	1.6	44
108	Intracranial Hypertension and Cerebral Perfusion Pressure Insults in Adult Hypertensive Intraventricular Hemorrhage: Occurrence and Associations With Outcome. Critical Care Medicine, 2019, 47, 1125-1134.	0.9	43

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109	Basic and Translational Research in Intracerebral Hemorrhage. Stroke, 2018, 49, 1308-1314.	2.0	41
110	Sensitivity of Magnetic Resonance Diffusion-Weighted Imaging and Regional Relationship Between the Apparent Diffusion Coefficient and Cerebral Blood Flow in Rat Focal Cerebral Ischemia. Stroke, 1995, 26, 667-675.	2.0	41
111	Surgical Management Of Syringomyelia: A Five Year Experience In The Era Of Magnetic Resonance Imaging[*]. Neurological Research, 1991, 13, 3-9.	1.3	40
112	Retrograde suction decompression of giant paraclinoid aneurysms using a No. 7 French balloonâ€"containing guide catheter. Journal of Neurosurgery, 2006, 105, 479-481.	1.6	40
113	Determinants of External Ventricular Drain Placement and Associated Outcomes in Patients with Spontaneous Intraventricular Hemorrhage. Neurocritical Care, 2014, 21, 426-434.	2.4	40
114	Rho Kinase Inhibition Blunts Lesion Development and Hemorrhage in Murine Models of Aggressive Pdcd10/Ccm3 Disease. Stroke, 2019, 50, 738-744.	2.0	40
115	Comprehensive transcriptome analysis of cerebral cavernous malformation across multiple species and genotypes. JCI Insight, 2019, 4, .	5.0	40
116	A Quality-of-Life Instrument for Young Hemorrhagic Stroke Patients. Stroke, 2001, 32, 687-695.	2.0	39
117	B-Cell Depletion Reduces the Maturation of Cerebral Cavernous Malformations in Murine Models. Journal of NeuroImmune Pharmacology, 2016, 11, 369-377.	4.1	39
118	Oligoclonal immune response in cerebral cavernous malformations. Journal of Neurosurgery, 2007, 107, 1023-1026.	1.6	38
119	A Pooled Analysis of Diffusion-Weighted Imaging Lesions in Patients With Acute Intracerebral Hemorrhage. JAMA Neurology, 2020, 77, 1390.	9.0	38
120	Endothelial Cell Culture From Human Cerebral Cavernous Malformations. Stroke, 1998, 29, 2426-2434.	2.0	36
121	Novel Murine Models of Cerebral Cavernous Malformations. Angiogenesis, 2020, 23, 651-666.	7.2	36
122	Ventricular Catheter Location and the Clearance of Intraventricular Hemorrhage. Neurosurgery, 2012, 70, 1258-1264.	1.1	35
123	Quantitative Susceptibility Mapping in Cerebral Cavernous Malformations: Clinical Correlations. American Journal of Neuroradiology, 2016, 37, 1209-1215.	2.4	35
124	Trial Readiness in Cavernous Angiomas With Symptomatic Hemorrhage (CASH). Neurosurgery, 2019, 84, 954-964.	1.1	34
125	Different spectra of genomic deletions within the CCM genes between Italian and American CCM patient cohorts. Neurogenetics, 2008, 9, 25-31.	1.4	33
126	Drainage Efficiency with Dual Versus Single Catheters in Severe Intraventricular Hemorrhage. Neurocritical Care, 2012, 16, 399-405.	2.4	32

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127	Astrocytes propel neurovascular dysfunction during cerebral cavernous malformation lesion formation. Journal of Clinical Investigation, 2021, 131, .	8.2	32
128	De novo development of a cavernous malformation of the spinal cord following spinal axis radiation. Journal of Neurosurgery: Spine, 1999, 90, 234-238.	1.7	31
129	Impact of Guglielmi detachable coils on outcomes of patients with intracranial aneurysms treated by a multidisciplinary team at a single institution. Journal of Neurosurgery, 2000, 93, 569-580.	1.6	31
130	Multiple Spinal Cavernous Malformations with Atypical Phenotype after Prior Irradiation: Case Report. Neurosurgery, 2004, 55, E1435-E1439.	1.1	31
131	Peripheral plasma vitamin D and non-HDL cholesterol reflect the severity of cerebral cavernous malformation disease. Biomarkers in Medicine, 2016, 10, 255-264.	1.4	31
132	3D Deep Neural Network Segmentation of Intracerebral Hemorrhage: Development and Validation for Clinical Trials. Neuroinformatics, 2021, 19, 403-415.	2.8	31
133	Longitudinal transcriptomics define the stages of myeloid activation in the living human brain after intracerebral hemorrhage. Science Immunology, 2021, 6, .	11.9	31
134	ADVANCED MAGNETIC RESONANCE IMAGING OF CEREBRAL CAVERNOUS MALFORMATIONS. Neurosurgery, 2008, 63, 782-789.	1.1	30
135	Radiosurgery for angiographically occult vascular malformations. Neurosurgical Focus, 2009, 26, E16.	2.3	30
136	Cerebral cavernous malformations are driven by ADAMTS5 proteolysis of versican. Journal of Experimental Medicine, 2020, 217, .	8.5	30
137	Ischemic stroke and intracranial multifocal cerebral arteriopathy in Williams syndrome. Journal of Pediatrics, 1995, 126, 945-948.	1.8	29
138	Permanent CSF shunting after intraventricular hemorrhage in the CLEAR III trial. Neurology, 2017, 89, 355-362.	1.1	29
139	Nocardial Osteomyelitis of the Spine with Epidural Spinal Cord Compression-a Case Report. Neurosurgery, 1984, 15, 254-256.	1.1	28
140	Propranolol inhibits cavernous vascular malformations by Î²1 adrenergic receptor antagonism in animal models. Journal of Clinical Investigation, 2021, 131, .	8.2	28
141	Transcriptome clarifies mechanisms of lesion genesis versus progression in models of Ccm3 cerebral cavernous malformations. Acta Neuropathologica Communications, 2019, 7, 132.	5.2	27
142	Permissive microbiome characterizes human subjects with a neurovascular disease cavernous angioma. Nature Communications, 2020, 11, 2659.	12.8	27
143	Modification of focal cerebral ischemia by prostacyclin and indomethacin. Journal of Neurosurgery, 1983, 58, 714-719.	1.6	26
144	Immune complex formation and in situ B-cell clonal expansion in human cerebral cavernous malformations. Journal of Neuroimmunology, 2014, 272, 67-75.	2.3	26

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145	A new class of electrodes of â€˜Intermediate Invasivenessâ€™: Preliminary experience with epidural pegs and foramen ovale electrodes in the mapping of seizure foci. Neurological Research, 1991, 13, 177-183.	1.3	25
146	Micro-computed tomography in murine models of cerebral cavernous malformations as a paradigm for brain disease. Journal of Neuroscience Methods, 2016, 271, 14-24.	2.5	25
147	Biomarkers of cavernous angioma with symptomatic hemorrhage. JCI Insight, 2019, 4, .	5.0	25
148	Phenotypic characterization of murine models of cerebral cavernous malformations. Laboratory Investigation, 2019, 99, 319-330.	3.7	24
149	Intracerebral Hemorrhage Volume Reduction and Timing of Intervention Versus Functional Benefit and Survival in the MISTIE III and STICH Trials. Neurosurgery, 2021, 88, 961-970.	1.1	24
150	Quantitative susceptibility mapping as a monitoring biomarker in cerebral cavernous malformations with recent hemorrhage. Journal of Magnetic Resonance Imaging, 2018, 47, 1133-1138.	3.4	23
151	A Brain-Targeted Orally Available ROCK2 Inhibitor Benefits Mild and Aggressive Cavernous Angioma Disease. Translational Stroke Research, 2020, 11, 365-376.	4.2	22
152	Application of magnetic resonance angiography to neurosurgical practice: A critical review of 150 cases. Neurological Research, 1992, 14, 360-368.	1.3	21
153	MRI-guided stereotactic placement of depth electrodes in temporal lobe epilepsy. British Journal of Neurosurgery, 1992, 6, 47-53.	0.8	21
154	Parenchymal Perianeurysmal Cystic Changes in the Brain: Report of Five Cases. Radiology, 2000, 215, 229-233.	7.3	21
155	The Incidence of Catheter Tract Hemorrhage and Catheter Placement Accuracy in the CLEAR III Trial. Neurocritical Care, 2018, 29, 23-32.	2.4	21
156	Developmental venous anomalies are a genetic primer for cerebral cavernous malformations. , 2022, 1, 246-252.		21
157	The Prospective Natural History of Cerebral Venous Malformations. Neurosurgery, 1998, 43, 200-201.	1.1	20
158	OUTCOME PREDICTORS AND SPECTRUM OF TREATMENT ELIGIBILITY WITH PROSPECTIVE PROTOCOLIZED MANAGEMENT OF INTRACEREBRAL HEMORRHAGE. Neurosurgery, 2009, 64, 436-446.	1.1	20
159	Cerebral Cavernous Malformation Proteins in Barrier Maintenance and Regulation. International Journal of Molecular Sciences, 2020, 21, 675.	4.1	20
160	Giant Aneurysms of the Proximal Anterior Cerebral Artery. Neurosurgery, 1993, 33, 120-124.	1.1	20
161	Neurological deterioration in a patient with a spinal arteriovenous malformation following lumbar puncture. Journal of Neurosurgery, 1990, 72, 650-653.	1.6	19
162	Current Updates in Perioperative Management of Intracerebral Hemorrhage. Neurologic Clinics, 2006, 24, 745-764.	1.8	19

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163	A randomized 500-subject open-label phase 3 clinical trial of minimally invasive surgery plus alteplase in intracerebral hemorrhage evacuation (MISTIE III). International Journal of Stroke, 2019, 14, 548-554.	5.9	19
164	Perioperative Management and Outcome after Surgical Treatment of Anterior Cerebral Artery Aneurysms. Canadian Journal of Neurological Sciences, 1991, 18, 120-125.	0.5	17
165	A Roadmap for Developing Plasma Diagnostic and Prognostic Biomarkers of Cerebral Cavernous Angioma With Symptomatic Hemorrhage (CASH). Neurosurgery, 2021, 88, 686-697.	1.1	17
166	Occipital Lobe Vascular Malformations: Prevalence of Visual Field Deficits and Prognosis after Therapeutic Intervention. Neurosurgery, 1998, 43, 415-421.	1.1	16
167	Thrombolytic Evacuation of Intracerebral and Intraventricular Hemorrhage. Current Cardiology Reports, 2012, 14, 754-760.	2.9	16
168	Unfolding knowledge on cerebral cavernous malformations. World Neurosurgery, 2005, 63, 317-318.	1.3	15
169	Galen's anecdote of the fallen sophist: on the certainty of science through anatomy. Journal of Neurosurgery, 1995, 83, 929-932.	1.6	14
170	Stereotactic laser interstitial thermal therapy for epilepsy associated with solitary and multiple cerebral cavernous malformations. Neurosurgical Focus, 2020, 48, E12.	2.3	14
171	Influence of Bleeding Pattern on Ischemic Lesions After Spontaneous Hypertensive Intracerebral Hemorrhage with Intraventricular Hemorrhage. Neurocritical Care, 2018, 29, 180-188.	2.4	13
172	Intraoperative Determination of the Extent of Corpus Callosotomy for Epilepsy: Two Simple Techniques. Neurosurgery, 1990, 26, 102-106.	1.1	12
173	Intraventricular Hemorrhage Secondary to Intranidal Aneurysm Ruptureâ€"Successful Management by Arteriovenous Malformation Embolization Followed by Intraventricular Tissue Plasminogen Activator: Case Report. Neurosurgery, 2011, 68, E581-E586.	1.1	12
174	CSF and serum inflammatory response and association with outcomes in spontaneous intracerebral hemorrhage with intraventricular extension: an analysis of the CLEAR-III Trial. Journal of Neuroinflammation, 2021, 18, 179.	7.2	12
175	A founder mutation in the Ashkenazi Jewish population affecting messenger RNA splicing of the CCM2 gene causes cerebral cavernous malformations. Genetics in Medicine, 2011, 13, 662-666.	2.4	12
176	Further Study of CD31 Protein and Messenger Ribonucleic Acid Expression in Human Cerebral Vascular Malformations. Neurosurgery, 2002, 50, 110-116.	1.1	11
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