Ajay K Wakhloo

List of Publications by Year
in descending order

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128 papers	5,530 citations	66343 42 h-index	85541 71 g-index
129 all docs	129 docs citations	129 times ranked	3982 citing authors

#	Article	IF	Citations
1	Efficacy and current limitations of intravascular stents for intracranial internal carotid, vertebral, and basilar artery aneurysms. Journal of Neurosurgery, 1999, 91, 538-546.	1.6	283
2	Alteration of hemodynamics in aneurysm models by stenting: Influence of stent porosity. Annals of Biomedical Engineering, 1997, 25, 460-469.	2.5	248
3	Endovascular Treatment of Intracranial Aneurysms. Stroke, 2013, 44, 2046-2054.	2.0	233
4	Stenting and Secondary Coiling of Intracranial Internal Carotid Artery Aneurysm: Technical Case Report. Neurosurgery, 1998, 43, 1229-1233.	1.1	215
5	An Original Flow Diversion Device for the Treatment of Intracranial Aneurysms. Stroke, 2009, 40, 952-958.	2.0	206
6	Stents for Intracranial Aneurysms: The Beginning of a New Endovascular Era?. Neurosurgery, 1998, 43, 377-379.	1.1	197
7	Reduction in Distal Emboli With Proximal Flow Control During Mechanical Thrombectomy. Stroke, 2013, 44, 1396-1401.	2.0	193
8	Risk of distal embolization with stent retriever thrombectomy and ADAPT. Journal of NeuroInterventional Surgery, 2016, 8, 197-202.	3.3	182
9	New Generation of Flow Diverter (Surpass) for Unruptured Intracranial Aneurysms. Stroke, 2013, 44, 1567-1577.	2.0	155
10	Stent-Assisted Reconstructive Endovascular Repair of Cranial Fusiform Atherosclerotic and Dissecting Aneurysms. Stroke, 2008, 39, 3288-3296.	2.0	152
11	Particle Image Velocimetry Assessment of Stent Design Influence on Intra-Aneurysmal Flow. Annals of Biomedical Engineering, 2002, 30, 768-777.	2.5	149
12	ARTS (Aspirationâ€“Retriever Technique for Stroke): Initial clinical experience. Interventional Neuroradiology, 2016, 22, 325-332.	1.1	144
13	Temporary Balloon Protection As an Adjunct to Endosaccular Coiling of Wide-necked Cerebral Aneurysms: Technical Note. Neurosurgery, 1997, 41, 975-978.	1.1	120
14	Percutaneous transluminal angioplasty and stent placement for recurrent carotid artery stenosis. Journal of Neurosurgery, 1999, 90, 688-694.	1.6	120
15	Treatment of blood blister aneurysms of the internal carotid artery with flow diversion. Journal of NeuroInterventional Surgery, 2018, 10, 1074-1078.	3.3	97
16	Carotid artery angioplasty and use of stents in high-risk patients with contralateral occlusions. Journal of Neurosurgery, 1999, 90, 1031-1036.	1.6	95
17	Delayed aneurysm regrowth and recanalization after Guglielmi detachable coil treatment. Journal of Neurosurgery, 1998, 89, 142-145.	1.6	91
18	Brain Aneurysms and Arteriovenous Malformations. Stroke, 2007, 38, 1411-1417.	2.0	80

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19	Treatment of complex anterior cerebral artery aneurysms with Pipeline flow diversion: mid-term results. Journal of NeuroInterventional Surgery, 2017, 9, 147-151.	3.3	76
20	Dystonia and akinesia due to pallidoputaminal lesions after disulfiram intoxication. Movement Disorders, 1991, 6, 166-170.	3.9	72
21	Treatment of Rabbit Elastase-Induced Aneurysm Models by Flow Diverters: Development of Quantifiable Indexes of Device Performance Using Digital Subtraction Angiography. IEEE Transactions on Medical Imaging, 2009, 28, 1117-1125.	8.9	72
22	Review of current intracranial aneurysm flow diversion technology and clinical use. Journal of NeuroInterventional Surgery, 2021, 13, 54-62.	3.3	71
23	SCENT Trial. Stroke, 2019, 50, 1473-1479.	2.0	68
24	Retrieval of a Guglielmi Detachable Coil After Unraveling and Fracture. Neurosurgery, 1994, 35, 994-999.	1.1	67
25	Transradial Approach for Vertebral Artery Stenting: Technical Case Report. Neurosurgery, 2000, 46, 1524-1528.	1.1	67
26	In Vitro Evaluation of Flow Divertors in an Elastase-Induced Saccular Aneurysm Model in Rabbit. Journal of Biomechanical Engineering, 2007, 129, 863-872.	1.3	64
27	Advances in Acute Ischemic Stroke Therapy. Circulation Research, 2022, 130, 1230-1251.	4.5	63
28	Modeling the Interaction of Coils With the Local Blood Flow After Coil Embolization of Intracranial Aneurysms. Journal of Biomechanical Engineering, 2007, 129, 873.	1.3	62
29	Stent placement for the treatment of occlusive atherosclerotic carotid artery disease in patients with concomitant coronary artery disease. Journal of Neurosurgery, 2002, 96, 490-496.	1.6	60
30	Transvenous n-butyl-cyanoacrylate infusion for complex dural carotid cavernous fistulas: technical considerations and clinical outcome. American Journal of Neuroradiology, 2005, 26, 1888-97.	2.4	60
31	Safety, efficacy, and short-term follow-up of the use of Pipelineâ„¢ Embolization Device in small (<2.5mm) cerebral vessels for aneurysm treatment: single institution experience. Neuroradiology, 2016, 58, 267-275.	2.2	59
32	Polyglycolide/Polylactide-Coated Platinum Coils for Patients With Ruptured and Unruptured Cerebral Aneurysms. Stroke, 2005, 36, 1948-1953.	2.0	57
33	Carotid Artery Brain Aneurysm Model: In Vivo Molecular Enzyme-specific MR Imaging of Active Inflammation in a Pilot Study. Radiology, 2009, 252, 696-703.	7.3	55
34	Effects of a Mixture of a Low Concentration of n-Butylcyanoacrylate and Ethiodol on Tissue Reactions and the Permanence of Arterial Occlusion after Embolization. Neurosurgery, 2000, 47, 1197-1205.	1.1	52
35	A Grading Scale to Predict Outcomes after Intra-arterial Thrombolysis for Stroke Complicated by Contrast Extravasation. Neurosurgery, 2000, 46, 1307-1315.	1.1	52
36	Effect of glacial acetic acid and ethiodized oil concentration on embolization with N-butyl 2-cyanoacrylate: an in vivo investigation. American Journal of Neuroradiology, 2002, 23, 938-44.	2.4	52

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37	ANGIOGRAPHIC AND HEMODYNAMIC EFFECT OF HIGH CONCENTRATION OF INTRA-ARTERIAL NICARDIPINE IN CEREBRAL VASOSPASM. Neurosurgery, 2008, 63, 1080-1087.	1.1	51
38	Myeloperoxidase in Human Intracranial Aneurysms. Stroke, 2014, 45, 1474-1477.	2.0	51
39	SEMI-JAILING TECHNIQUE FOR COIL EMBOLIZATION OF COMPLEX, WIDE-NECKED INTRACRANIAL ANEURYSMS. Neurosurgery, 2009, 65, 1131-1139.	1.1	50
40	Endovascular treatment of tandem vascular occlusions in acute ischemic stroke. Journal of NeuroInterventional Surgery, 2015, 7, 158-163.	3.3	50
41	Preclinical acute ischemic stroke modeling. Journal of NeuroInterventional Surgery, 2012, 4, 307-313.	3.3	49
42	Techniques for Endovascular Treatment of Acute Ischemic Stroke. Stroke, 2015, 46, 909-914.	2.0	48
43	Revolution in Aneurysm Treatment. Neurosurgery, 2014, 61, 111-120.	1.1	45
44	Targeted Drug Delivery to Flow-Obstructed Blood Vessels Using Mechanically Activated Nanotherapeutics. JAMA Neurology, 2015, 72, 119.	9.0	43
45	Shear-Activated Nanoparticle Aggregates Combined With Temporary Endovascular Bypass to Treat Large Vessel Occlusion. Stroke, 2015, 46, 3507-3513.	2.0	39
46	Endovascular Treatment of Experimental Aneurysms with Liquid Polymers: The Protective Potential of Stents. Neurosurgery, 1996, 38, 339-347.	1.1	38
47	Endovascular reconstruction of unruptured intradural vertebral artery dissecting aneurysms with the Pipeline embolization device. Journal of NeuroInterventional Surgery, 2016, 8, 1048-1051.	3.3	37
48	Grading of Regional Apposition after Flow-Diverter Treatment (GRAFT): a comparative evaluation of VasoCT and intravascular OCT. Journal of NeuroInterventional Surgery, 2016, 8, 847-852.	3.3	36
49	In situ tissue engineering: endothelial growth patterns as a function of flow diverter design. Journal of NeuroInterventional Surgery, 2017, 9, 994-998.	3.3	32
50	Use of the Pipeline embolization device for recurrent and residual cerebral aneurysms: a safety and efficacy analysis with short-term follow-up. Journal of NeuroInterventional Surgery, 2017, 9, 1208-1213.	3.3	31
51	Quantitative analysis of high-resolution, contrast-enhanced, cone-beam CT for the detection of intracranial in-stent hyperplasia. Journal of NeuroInterventional Surgery, 2015, 7, 118-125.	3.3	29
52	Stent-assisted coil placement in a wide-necked persistent trigeminal artery aneurysm with jailing of the trigeminal artery: a case report. American Journal of Neuroradiology, 2002, 23, 437-41.	2.4	28
53	Flow diversion treatment for acutely ruptured aneurysms. Journal of NeuroInterventional Surgery, 2020, 12, 283-288.	3.3	27
54	Ischaemic stroke associated with COVID-19 and racial outcome disparity in North America. Journal of Neurology, Neurosurgery and Psychiatry, 2020, 91, 1362-1364.	1.9	27

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55	Internal Carotid Artery Stenting in Patients over 80 Years of Age: Singleâ€Center Experience and Review of the Literature. Journal of Neuroimaging, 2009, 19, 158-163.	2.0	26
56	Preclinical Investigations for Thrombectomy Devicesâ€"Does it Translate to Humans?. Stroke, 2013, 44, S7-S10.	2.0	26
57	Flow diverter stents for unruptured saccular anterior circulation perforating artery aneurysms: safety, efficacy, and short-term follow-up. Journal of NeuroInterventional Surgery, 2015, 7, 634-640.	3.3	26
58	A novel approach to flow quantification in brain arteriovenous malformations prior to enbucrilate embolization: use of insoluble contrast (Ethiodol droplet) angiography. Journal of Neurosurgery, 1998, 89, 395-404.	1.6	25
59	Aneurysm permeability following coil embolization: packing density and coil distribution. Journal of NeuroInterventional Surgery, 2015, 7, 676-681.	3.3	25
60	Hemodynamics of Carotid Artery Atherosclerotic Occlusive Disease. Journal of Vascular and Interventional Radiology, 2004, 15, S111-S121.	0.5	24
61	First clinical experience with the new Surpass Evolve flow diverter: technical and clinical considerations. Journal of NeuroInterventional Surgery, 2020, 12, 974-980.	3.3	24
62	Morphology of elastase-induced cerebral aneurysm model in rabbit and rapid prototyping of elastomeric transparent replicas. Biorheology, 2005, 42, 345-61.	0.4	24
63	Angiographic Assessment of the Performance of Flow Divertors to Treat Cerebral Aneurysms. , 2006, 2006, 3210-3.		23
64	High-resolution Imaging of Myeloperoxidase Activity Sensors in Human Cerebrovascular Disease. Scientific Reports, 2018, 8, 7687.	3.3	23
65	Advances in Interventional Neuroradiology. Stroke, 2010, 41, e81-7.	2.0	22
66	Use of self-expanding stents for better intracranial flow diverter wall apposition. Interventional Neuroradiology, 2017, 23, 129-136.	1.1	21
67	Endovascular techniques for achievement of better flow diverter wall apposition. Interventional Neuroradiology, 2019, 25, 344-347.	1.1	21
68	Wingspan experience in the treatment of symptomatic intracranial atherosclerotic disease after antithrombotic failure. Journal of NeuroInterventional Surgery, 2013, 5, 302-305.	3.3	19
69	Stent-assisted coil embolization of aneurysms with small parent vessels: safety and efficacy analysis. Journal of NeuroInterventional Surgery, 2016, 8, 581-585.	3.3	19
70	Flow-diverter stents for endovascular management of non-fetal posterior communicating artery aneurysmsâ€"analysis on aneurysm occlusion, vessel patency, and patient outcome. Interventional Neuroradiology, 2018, 24, 363-374.	1.1	19
71	Dantrolene for cerebral vasospasm after subarachnoid haemorrhage: a randomised double blind placebo-controlled safety trial. Journal of Neurology, Neurosurgery and Psychiatry, 2015, 86, 1029-1035.	1.9	18
72	RETRIEVABLE CLOSED CELL INTRACRANIAL STENT FOR FOREIGN BODY AND CLOT REMOVAL. Operative Neurosurgery, 2008, 62, ONS390-ONS394.	0.8	17

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73	A thromboembolic model for the efficacy and safety evaluation of combined mechanical and pharmacologic revascularization strategies. Journal of NeuroInterventional Surgery, 2013, 5, i85-i89.	3.3	17
74	Facial Myokymia and Spastic Paretic Facial Contracture as the Result of Anaplastic Pontocerebellar Glioma. Neurosurgery, 1993, 32, 1031-1034.	1.1	16
75	Pipeline Embolization Device for Pericallosal Artery Aneurysms: A Retrospective Single Center Safety and Efficacy Study. Operative Neurosurgery, 2018, 14, 351-358.	0.8	16
76	Transvenous sonographically guided percutaneous access for treatment of an indirect carotid cavernous fistula. American Journal of Neuroradiology, 2003, 24, 1548-51.	2.4	16
77	Direct percutaneous puncture of a cervical internal carotid artery aneurysm for coil placement after previous incomplete stent-assisted endovascular treatment. American Journal of Neuroradiology, 2003, 24, 1230-3.	2.4	16
78	FUNCTIONAL ANGIOGRAPHY. Critical Reviews in Biomedical Engineering, 2005, 33, 1-102.	0.9	14
79	Advances in Interventional Neuroradiology. Stroke, 2009, 40, .	2.0	13
80	Stent placement for vertebral artery occlusive disease: preliminary clinical experience. Neurosurgical Focus, 1998, 5, E17.	2.3	12
81	Republished: Successful treatment of a giant pediatric fusiform basilar trunk aneurysm with surpass flow diverter. Journal of NeuroInterventional Surgery, 2016, 8, e23-e23.	3.3	12
82	Onyx embolization in distal dissecting posterior inferior cerebellar artery aneurysms. Journal of NeuroInterventional Surgery, 2016, 8, 501-506.	3.3	12
83	Age and Acute Ischemic Stroke Outcome in North American Patients With COVIDâ€19. Journal of the American Heart Association, 2021, 10, e021046.	3.7	12
84	Target delineation for radiosurgery of a small brain arteriovenous malformation using high-resolution contrast-enhanced cone beam CT. Journal of NeuroInterventional Surgery, 2014, 6, e34-e34.	3.3	11
85	Advances in Interventional Neuroradiology. Stroke, 2009, 40, e305-e312.	2.0	11
86	Vein Graft-Coated Vascular Stents: A Feasibility Study in a Canine Model. CardioVascular and Interventional Radiology, 1998, 21, 158-164.	2.0	10
87	Intravascular stents for intracranial internal carotid and vertebral artery aneurysms: preliminary clinical experience. Neurosurgical Focus, 1998, 5, E5.	2.3	10
88	A next-generation, flow-diverting implant used to treat brain aneurysms: in vitro evaluation of magnetic field interactions, heating and artifacts at 3-T. Magnetic Resonance Imaging, 2013, 31, 145-149.	1.8	10
89	A Novel Endovascular Device for Emboli Rerouting. Stroke, 2008, 39, 2860-2866.	2.0	9
90	A Finite Element Method to Predict Adverse Events in Intracranial Stenting Using Microstents: In Vitro Verification and Patient Specific Case Study. Annals of Biomedical Engineering, 2016, 44, 442-452.	2.5	9

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91	Republished: Trigeminocardiac reflex caused by selective angiography of the middle meningeal artery. Journal of NeuroInterventional Surgery, 2017, 9, e10-e10.	3.3	8
92	A Contemporary Review of Endovascular Treatment of Wide-Neck Large and Giant Aneurysms. World Neurosurgery, 2019, 130, 523-529.e2.	1.3	8
93	Utilization of a New Intracranial Support Catheter as an Intermediate Aspiration Catheter in the Treatment of Acute Ischemic Stroke: Technical Report on Initial Experience. Cureus, 2016, 8, e617.	0.5	8
94	Visualization of a small hidden intracranial aneurysm during endovascular thrombectomy for acute MCA occlusion. Journal of Vascular and Interventional Neurology, 2014, 7, 47-9.	1.1	8
95	Carotid Angioplasty and Stenting Before Coronary Artery By pass Grafting. Neurosurgery, 1998, 43, 686-686.	1.1	7
96	Limitations of Flow Diverters in Posterior Communicating Artery Aneurysms. Brain Sciences, 2021, 11, 349.	2.3	7
97	Angioplasty and stenting for carotid artery stenosis: indications, techniques, results, and complications. Neurosurgical Focus, 1998, 5, E5.	2.3	6
98	Impact of age on cerebral aneurysm occlusion after flow diversion. Journal of Clinical Neuroscience, 2019, 65, 23-27.	1.5	6
99	Outcomes after Flow Diverter Treatment in Subarachnoid Hemorrhage: A Meta-Analysis and Development of a Clinical Prediction Model (OUTFLOW). Brain Sciences, 2022, 12, 394.	2.3	6
100	Use of Intermediate Guide Catheters as an Adjunct in Extracranial Embolization to Avoid Onyx Reflux into the Anastomotic Vasculature. Interventional Neuroradiology, 2014, 20, 424-427.	1.1	5
101	Successful treatment of a giant pediatric fusiform basilar trunk aneurysm with surpass flow diverter. BMJ Case Reports, 2015, 2015, bcr2015011718-bcr2015011718.	0.5	5
102	Endovascular Treatment of Dural Carotid Cavernous Sinus Fistulas. Journal of Neuro-Ophthalmology, 2009, 29, 1-2.	0.8	4
103	Experimental Models of Vascular Occlusions for Evaluation of Thrombectomy Devices. Cardiovascular Engineering and Technology, 2013, 4, 309-322.	1.6	3
104	Flow diverter for endovascular treatment of intracranial mirror segment internal carotid artery aneurysms. Interventional Neuroradiology, 2019, 25, 4-11.	1.1	3
105	Treatment of large and giant posterior communicating artery aneurysms with the Surpass streamline flow diverter: results from the SCENT trial. Journal of NeuroInterventional Surgery, 2023, 15, 679-683.	3.3	3
106	Intracranial Aneurysms: Clinical Assessment and Treatment Options. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2011, , 331-372.	1.0	2
107	Advances in Stroke. Stroke, 2014, 45, 365-367.	2.0	2
108	Trigeminocardiac reflex caused by selective angiography of the middle meningeal artery. BMJ Case Reports, 2016, 2016, bcr2016012517.	0.5	2

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109	Open-cell stent and use of cone-beam CT enables a safe and effective coil embolization of true ophthalmic artery and anterior choroidal artery aneurysms with preservation of parent vessel: Clinical and angiographic results. Interventional Neuroradiology, 2018, 24, 135-139.	1.1	2
110	Double Barrel Stent-supported Supranominal Flow Diverter Expansion for Treatment of Symptomatic Basilar Trunk Aneurysm. Clinical Neuroradiology, 2022, 32, 863-867.	1.9	2
111	Letters to the Editor. Movement Disorders, 1992, 7, 188-189.	3.9	1
112	Autologous Vein-covered Stent Repair of a Cervical Internal Carotid Artery Pseudoaneurysm: Technical Case Report. Neurosurgery, 1998, 42, 413-413.	1.1	1
113	Carotid Angioplasty and Stenting for High-risk Patients with Complete Contralateral Carotid Occlusion. Neurosurgery, 1998, 43, 671-671.	1.1	1
114	Reduction of Intra-Aneurysmal Kinetic Energy by Intralumenal Flow Diverting Devices. , 2007, , 195.		1
115	Endovascular Treatment of Cerebral Aneurysms. , 2016, , 1071-1088.e6.		1
116	Pitfalls and Complications of Carotid Stenting. Journal of Vascular and Interventional Radiology, 1999, 10, 39-41.	0.5	0
117	Treatment of Cerebral Aneurysms With Flow Divertors: Long Term Results in an In Vivo Model. , 2007, , .		0
118	An Innovative Method to Construct Silicone Cerebrovascular Replicas. , 2008, , .		0
119	Endovascular Treatment of Cerebral Aneurysms. , 2011, , 1241-1254.		0
120	Stent Induced Changes to the Radius of Curvature of the Cerebrovasculature. , 2012, , .		0
121	Endovascular Treatment of Intracranial Aneurysms. , 2022, , 985-1000.e4.		0
122	Magnetic Resonance Detection of Inflammation in Elastase-Induced Aneurysms. , 2008, , .		0
123	Targeted Enzyme-Specific Molecular MR Imaging of Focal Catheter-Induced Vacscular Injury. , 2009, , .		0
124	Validation of Di-5-HT-Gd-DTPA, an Enzyme-Specific MR Contrast Agent for Myeloperoxidase, in the Rabbit Elastase Model of Cerebrovascular Aneurysm. , 2009, , .		0
125	Quantitative In Vivo Evaluation of Neointimal Hyperplasia Using High-Resolution Contrast-Enhanced Cone-Beam Computed Tomography. , 2013, , .		0
126	Modeling Unstable Brain Aneurysms: MR Molecular Imaging of Myeloperoxidase in Vascular Wall and Correlation With Human Pathology. , 2013, , .		0

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127	Arteriovenous Malformations: Endovascular Indications and Technique. , 2019, , 309-320.		0
128	Angiographic Assessment of the Performance of Flow Divertors to Treat Cerebral Aneurysms. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0