

# Teiji Tominaga

## List of Publications by Year in descending order

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113  
papers

4,671  
citations

101543  
36  
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106344  
65  
g-index

114  
all docs

114  
docs citations

114  
times ranked

3933  
citing authors

#	ARTICLE	IF	CITATIONS
1	A genome-wide association study identifies RNF213 as the first Moyamoya disease gene. Journal of Human Genetics, 2011, 56, 34-40.	2.3	582
2	Effects of Extracranial-Intracranial Bypass for Patients With Hemorrhagic Moyamoya Disease. Stroke, 2014, 45, 1415-1421.	2.0	533
3	Temporary neurologic deterioration due to cerebral hyperperfusion after superficial temporal artery-middle cerebral artery anastomosis in patients with adult-onset moyamoya disease. World Neurosurgery, 2007, 67, 273-282.	1.3	207
4	Incidence and risk factors for symptomatic cerebral hyperperfusion after superficial temporal artery-middle cerebral artery anastomosis in patients with moyamoya disease. World Neurosurgery, 2009, 71, 442-447.	1.3	195
5	Significance of Focal Cerebral Hyperperfusion as a Cause of Transient Neurologic Deterioration After Extracranial-Intracranial Bypass for Moyamoya Disease: Comparative Study With Non-Moyamoya Patients Using N-Isopropyl-p-[123I]Iodoamphetamine Single-Photon Emission Computed Tomography. Neurosurgery, 2011, 68, 957-965.	1.1	185
6	Dual antiplatelet therapy using cilostazol for secondary prevention in patients with high-risk ischaemic stroke in Japan: a multicentre, open-label, randomised controlled trial. Lancet Neurology, The, 2019, 18, 539-548.	10.2	132
7	Postoperative neurological deterioration in pediatric moyamoya disease: watershed shift and hyperperfusion. Journal of Neurosurgery: Pediatrics, 2010, 6, 73-81.	1.3	127
8	Increased expression of serum matrix metalloproteinase-9 in patients with moyamoya disease. World Neurosurgery, 2009, 72, 476-480.	1.3	113
9	Significance of the Hemorrhagic Site for Recurrent Bleeding. Stroke, 2016, 47, 37-43.	2.0	113
10	Prediction model for 3-year rupture risk of unruptured cerebral aneurysms in Japanese patients. Annals of Neurology, 2015, 77, 1050-1059.	5.3	111
11	Cohort Profile: Tohoku Medical Megabank Project Birth and Three-Generation Cohort Study (TMM) Tj ETQq1 1 0.784314 rgBT /Overlock 2020, 49, 18-19m.	1.9	107
12	Efficacy of Prophylactic Blood Pressure Lowering according to a Standardized Postoperative Management Protocol to Prevent Symptomatic Cerebral Hyperperfusion after Direct Revascularization Surgery for Moyamoya Disease. Cerebrovascular Diseases, 2012, 33, 436-445.	1.7	100
13	Delayed intracerebral hemorrhage after superficial temporal artery-middle cerebral artery anastomosis in a patient with moyamoya disease: possible involvement of cerebral hyperperfusion and increased vascular permeability. World Neurosurgery, 2009, 71, 223-227.	1.3	99
14	Minocycline Prevents Focal Neurological Deterioration Due to Cerebral Hyperperfusion After Extracranial-Intracranial Bypass for Moyamoya Disease. Neurosurgery, 2014, 74, 163-170.	1.1	99
15	Lessons Learned From Moyamoya Disease: Outcome of Direct/Indirect Revascularization Surgery for 150 Affected Hemispheres. Neurologia Medico-Chirurgica, 2012, 52, 327-332.	2.2	94
16	Study Profile of the Tohoku Medical Megabank Community-Based Cohort Study. Journal of Epidemiology, 2021, 31, 65-76.	2.4	81
17	Annual rupture risk of growing unruptured cerebral aneurysms detected by magnetic resonance angiography. Journal of Neurosurgery, 2012, 117, 20-25.	1.6	78
18	Relative Residence Time Prolongation in Intracranial Aneurysms. Neurosurgery, 2013, 73, 767-776.	1.1	74

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19	2021 Japanese Guidelines for the Management of Moyamoya Disease: Guidelines from the Research Committee on Moyamoya Disease and Japan Stroke Society. <i>Neurologia Medico-Chirurgica</i> , 2022, 62, 165-170.	2.2	71
20	Enhanced post-ischemic angiogenesis in mice lacking RNF213; a susceptibility gene for moyamoya disease. <i>Brain Research</i> , 2015, 1594, 310-320.	2.2	67
21	ADDITIONAL SURGERY FOR POSTOPERATIVE ISCHEMIC SYMPTOMS IN PATIENTS WITH MOYAMOYA DISEASE. <i>Neurosurgery</i> , 2009, 64, E195-E196.	1.1	64
22	Cerebral ischemia owing to compression of the brain by swollen temporal muscle used for encephalo-myo-synangiosis in moyamoya disease. <i>Neurosurgical Review</i> , 2009, 32, 245-249.	2.4	63
23	Quantitative Assessment of Circumferential Enhancement along the Wall of Cerebral Aneurysms Using MR Imaging. <i>American Journal of Neuroradiology</i> , 2016, 37, 1262-1266.	2.4	61
24	High-Convexity Tightness Predicts the Shunt Response in Idiopathic Normal Pressure Hydrocephalus. <i>American Journal of Neuroradiology</i> , 2016, 37, 1831-1837.	2.4	60
25	Blood Flow Into Basilar Tip Aneurysms. <i>Stroke</i> , 2016, 47, 2541-2547.	2.0	60
26	Efficacy of superficial temporal artery–middle cerebral artery anastomosis with routine postoperative cerebral blood flow measurement during the acute stage in childhood moyamoya disease. <i>Child's Nervous System</i> , 2008, 24, 827-832.	1.1	57
27	Temporal profile of the vascular anatomy evaluated by 9.4-tesla magnetic resonance angiography and histological analysis in mice with the R4859K mutation of RNF213, the susceptibility gene for moyamoya disease. <i>Brain Research</i> , 2015, 1624, 497-505.	2.2	55
28	CD40/CD40L expression correlates with the survival of patients with glioblastomas and an augmentation in CD40 signaling enhances the efficacy of vaccinations against glioma models. <i>Neuro-Oncology</i> , 2015, 17, 1453-1462.	1.2	52
29	Circumferential Wall Enhancement on Magnetic Resonance Imaging is Useful to Identify Rupture Site in Patients with Multiple Cerebral Aneurysms. <i>Neurosurgery</i> , 2018, 82, 638-644.	1.1	52
30	Activation of the NRF2 pathway and its impact on the prognosis of anaplastic glioma patients. <i>Neuro-Oncology</i> , 2015, 17, 555-565.	1.2	48
31	Recommendations for the Management of Moyamoya Disease: A Statement from Research Committee on Spontaneous Occlusion of the Circle of Willis (Moyamoya Disease) [2nd Edition]. <i>Surgery for Cerebral Stroke</i> , 2018, 46, 1-24.	0.0	43
32	A study of prognostic factors in 45 cases of atypical meningioma. <i>Acta Neurochirurgica</i> , 2016, 158, 1661-1667.	1.7	42
33	Hydrogel-Based Organic Subdural Electrode with High Conformability to Brain Surface. <i>Scientific Reports</i> , 2019, 9, 13379.	3.3	42
34	Quantitative analysis of early postoperative cerebral blood flow contributes to the prediction and diagnosis of cerebral hyperperfusion syndrome after revascularization surgery for moyamoya disease. <i>Neurological Research</i> , 2015, 37, 131-138.	1.3	41
35	Uneven cerebral hemodynamic change as a cause of neurological deterioration in the acute stage after direct revascularization for moyamoya disease: cerebral hyperperfusion and remote ischemia caused by the “watershed shift”™. <i>Neurosurgical Review</i> , 2017, 40, 507-512.	2.4	40
36	Preventive Effect of Clazosentan against Cerebral Vasospasm after Clipping Surgery for Aneurysmal Subarachnoid Hemorrhage in Japanese and Korean Patients. <i>Cerebrovascular Diseases</i> , 2017, 44, 59-67.	1.7	39

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37	A Prospective, Multicenter, Randomized Study of the Efficacy of Eicosapentaenoic Acid for Cerebral Vasospasm: The EVAS Study. <i>World Neurosurgery</i> , 2014, 81, 309-315.	1.3	36
38	Circumferential wall enhancement in evolving intracranial aneurysms on magnetic resonance vessel wall imaging. <i>Journal of Neurosurgery</i> , 2019, 131, 1262-1268.	1.6	36
39	Incidence and Risk Factors of the Watershed Shift Phenomenon after Superficial Temporal Artery-Middle Cerebral Artery Anastomosis for Adult Moyamoya Disease. <i>Cerebrovascular Diseases</i> , 2019, 47, 178-187.	1.7	35
40	Increased serum production of soluble CD163 and CXCL5 in patients with moyamoya disease: Involvement of intrinsic immune reaction in its pathogenesis. <i>Brain Research</i> , 2018, 1679, 39-44.	2.2	34
41	Effects of clazosentan on cerebral vasospasm-related morbidity and all-cause mortality after aneurysmal subarachnoid hemorrhage: two randomized phase 3 trials in Japanese patients. <i>Journal of Neurosurgery</i> , 2022, 137, 1707-1717.	1.6	33
42	Angiographic Circulation Time and Cerebral Blood Flow during Balloon Test Occlusion of the Internal Carotid Artery. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 136-143.	4.3	32
43	Significance of Quantitative Cerebral Blood Flow Measurement in the Acute Stage after Revascularization Surgery for Adult Moyamoya Disease: Implication for the Pathological Threshold of Local Cerebral Hyperperfusion. <i>Cerebrovascular Diseases</i> , 2019, 48, 217-225.	1.7	25
44	Temporal profile of magnetic resonance angiography and decreased ratio of regulatory T cells after immunological adjuvant administration to mice lacking RNF213, a susceptibility gene for moyamoya disease. <i>Brain Research</i> , 2016, 1642, 1-9.	2.2	24
45	Exclusively epidural spinal metameric arteriovenous shunts: case report and literature review. <i>Spine Journal</i> , 2015, 15, e15-e22.	1.3	22
46	Direct Evidence of in Vivo Nitric Oxide Production and Inducible Nitric Oxide Synthase mRNA Expression in the Brain of Living Rat during Experimental Meningitis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999, 19, 1175-1178.	4.3	19
47	Canadian CT head rule and New Orleans Criteria in mild traumatic brain injury: comparison at a tertiary referral hospital in Japan. <i>SpringerPlus</i> , 2016, 5, 176.	1.2	19
48	Complications of Endovascular Treatments for Brain Arteriovenous Malformations: A Nationwide Surveillance. <i>American Journal of Neuroradiology</i> , 2020, 41, 669-675.	2.4	17
49	Malignant clinical features of anaplastic gliomas without IDH mutation. <i>Neuro-Oncology</i> , 2015, 17, 136-144.	1.2	16
50	Identification of HLA-DRB1*04:10 allele as risk allele for Japanese moyamoya disease and its association with autoimmune thyroid disease: A case-control study. <i>PLoS ONE</i> , 2019, 14, e0220858.	2.5	15
51	The role of 5-aminolevulinic acid in spinal tumor surgery: a review. <i>Journal of Neuro-Oncology</i> , 2019, 141, 575-584.	2.9	15
52	Dual Antiplatelet Therapy Using Cilostazol in Patients With Stroke and Intracranial Arterial Stenosis. <i>Journal of the American Heart Association</i> , 2021, 10, e022575.	3.7	15
53	Computational Hemodynamic Analysis for the Diagnosis of Atherosclerotic Changes in Intracranial Aneurysms: A Proof-of-Concept Study Using 3 Cases Harboring Atherosclerotic and Nonatherosclerotic Aneurysms Simultaneously. <i>Computational and Mathematical Methods in Medicine</i> , 2016, 2016, 1-12.	1.3	13
54	Stereotactic radiosurgery as a feasible treatment for intramedullary spinal arteriovenous malformations: a single-center observation. <i>Neurosurgical Review</i> , 2017, 40, 259-266.	2.4	13

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55	Scoping Review of Hospital Business Continuity Plans to Validate the Improvement after the 2011 Great East Japan Earthquake and Tsunami. <i>Tohoku Journal of Experimental Medicine</i> , 2020, 251, 147-159.	1.2	13
56	Preoperative Risks of Cerebral Infarction in Pediatric Moyamoya Disease. <i>Stroke</i> , 2021, 52, 2302-2310.	2.0	12
57	Hybrid magneto-fluorescent nano-probe for live apoptotic cells monitoring at brain cerebral ischemia. <i>Materials Science and Engineering C</i> , 2019, 100, 485-492.	7.3	11
58	Prolonged/delayed cerebral hyperperfusion in adult patients with moyamoya disease with RNF213 gene polymorphism c.14576G>A (rs112735431) after superficial temporal artery–middle cerebral artery anastomosis. <i>Journal of Neurosurgery</i> , 2020, , 1-8.	1.6	11
59	Prediction of Cerebral Hyperperfusion after Superficial Temporal Artery-Middle Cerebral Artery Anastomosis by Three-Dimensional-Time-of-Flight Magnetic Resonance Angiography in Adult Patients with Moyamoya Disease. <i>Cerebrovascular Diseases</i> , 2020, 49, 396-403.	1.7	10
60	Flow-augmentation bypass for moyamoya disease. <i>Journal of Neurosurgical Sciences</i> , 2021, 65, 277-286.	0.6	10
61	Prediction of Functional Outcome in Patients with Acute Stroke by Measuring tRNA Derivatives. <i>Cerebrovascular Diseases</i> , 2020, 49, 639-646.	1.7	10
62	Associations among cardiovascular and cerebrovascular diseases: Analysis of the nationwide claims-based JROAD-DPC dataset. <i>PLoS ONE</i> , 2022, 17, e0264390.	2.5	10
63	Noninvasive targeting delivery and in vivo magnetic resonance tracking method for live apoptotic cells in cerebral ischemia with functional Fe <sub>2</sub> O <sub>3</sub> magnetic nanoparticles. <i>Journal of Nanobiotechnology</i> , 2016, 14, 19.	9.1	9
64	Single-Session Hematoma Removal and Transcranial Coil Embolization for a Cavernous Sinus Dural Arteriovenous Fistula: A Technical Case Report. <i>World Neurosurgery</i> , 2017, 104, 1046.e7-1046.e12.	1.3	9
65	Totally transparent hydrogel-based subdural electrode with patterned salt bridge. <i>Biomedical Microdevices</i> , 2020, 22, 57.	2.8	9
66	Symptomatic Cerebral Hyperperfusion After Cerebral Vasospasm Associated with Aneurysmal Subarachnoid Hemorrhage. <i>World Neurosurgery</i> , 2020, 137, 379-383.	1.3	9
67	An investigation into the effects and prognostic factors of cognitive decline following subthalamic nucleus stimulation in patients with Parkinson’s disease. <i>Journal of Clinical Neuroscience</i> , 2017, 44, 164-168.	1.5	8
68	Clinical Characteristics of Lumbosacral Spinal Dural Arteriovenous Fistula (DAVF)–Comparison with Thoracic DAVF. <i>World Neurosurgery</i> , 2018, 110, e383-e388.	1.3	8
69	Pre-operative higher hematocrit and lower total protein levels are independent risk factors for cerebral hyperperfusion syndrome after superficial temporal artery–middle cerebral artery anastomosis with pial synangiosis in adult moyamoya disease patients–case-control study. <i>Neurosurgical Review</i> , 2020, 44, 2191-2200.	2.4	8
70	Targeting of Apoptotic Cells Using Functionalized Fe <sub>2</sub> O <sub>3</sub> Nanoparticles. <i>Nanomaterials</i> , 2015, 5, 874-884.	4.1	7
71	Evaluation of a newly developed piezo actuator-driven pulsed water jet system for liver resection in a surviving swine animal model. <i>BioMedical Engineering OnLine</i> , 2016, 15, 9.	2.7	7
72	Intraspinal dissemination of intracranial hemangiopericytoma: Case report and literature review. , 2016, 7, 1016.		7

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73	dbTMM: an integrated database of large-scale cohort, genome and clinical data for the Tohoku Medical Megabank Project. <i>Human Genome Variation</i> , 2021, 8, 44.	0.7	7
74	RNF213 loss of function reshapes vascular transcriptome and spliceosome leading to disrupted angiogenesis and aggravated vascular inflammatory responses. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 2107-2122.	4.3	7
75	Three case reports of radiation-induced glioblastoma after complete remission of acute lymphoblastic leukemia. <i>Brain Tumor Pathology</i> , 2018, 35, 114-122.	1.7	6
76	Bilateral Upper Cerebellar Hemorrhage Due to Pial Arteriovenous Fistula and Its Pathophysiological Insight. <i>World Neurosurgery</i> , 2018, 115, 388-392.	1.3	6
77	Quantitative assessment of microstructural evolution of intracranial aneurysm wall by vessel wall imaging. <i>Neuroradiology</i> , 2022, 64, 1343-1350.	2.2	6
78	Convection-enhanced delivery of a hydrophilic nitrosourea ameliorates deficits and suppresses tumor growth in experimental spinal cord glioma models. <i>Acta Neurochirurgica</i> , 2017, 159, 939-946.	1.7	5
79	Difference in Transcranial Doppler Velocity and Patient Age between Proximal and Distal Middle Cerebral Artery Vasospasms after Aneurysmal Subarachnoid Hemorrhage. <i>Cerebrovascular Diseases Extra</i> , 2017, 6, 32-39.	1.5	5
80	Newly Diagnosed Acquired Hemophilia A Manifesting as Massive Intracranial Hemorrhage Following a Neurosurgical Procedure. <i>World Neurosurgery</i> , 2018, 111, 175-180.	1.3	5
81	Diagnostic Value of Contrast-Enhanced Magnetic Resonance Vessel Wall Imaging on the Onset Type of Vertebral Artery Dissection. <i>Cerebrovascular Diseases</i> , 2019, 48, 124-131.	1.7	5
82	Transient Global Cerebral Hypoperfusion as a Characteristic Cerebral Hemodynamic Pattern in the Acute Stage after Combined Revascularization Surgery for Pediatric Moyamoya Disease: N-Isopropyl-P-[ <sup>123</sup> I] Iodoamphetamine Single-Photon Emission Computed Tomography Study. <i>Cerebrovascular Diseases</i> , 2022, 51, 453-460.	1.7	5
83	Efficacy of Superficial Temporal Artery-Middle Cerebral Artery Double Anastomoses in a Patient with Rapidly Progressive Moyamoya Disease: Case Report. <i>Neurologia Medico-Chirurgica</i> , 2014, 54, 836-840.	2.2	4
84	Expression of CD133 as a Putative Prognostic Biomarker to Predict Intracranial Dissemination of Primary Spinal Cord Astrocytoma. <i>World Neurosurgery</i> , 2018, 110, e715-e726.	1.3	4
85	Giant intraosseous meningioma associated with calvarial hyperostosis and subcutaneous invasion: Case reports and literature review. <i>Journal of Innovative Optical Health Sciences</i> , 2021, 16, 589-594.	1.0	4
86	Massive Intramedullary Hemorrhage After Subarachnoid Hemorrhage in Patient with Vertebrovertebral Arteriovenous Fistula. <i>World Neurosurgery</i> , 2019, 129, 432-436.	1.3	3
87	A Super-selective Wada Test Successfully Detected an Artery That Supplied Broca's Area in a Case of Left Frontal Lobe Glioblastoma: Technical Case Report. <i>Neurologia Medico-Chirurgica</i> , 2021, 61, 661-666.	2.2	3
88	Lumbar tap-induced subarachnoid hemorrhage in a case of spinal epidural arteriovenous fistula. <i>Journal of Neurosurgery: Spine</i> , 2018, 29, 535-540.	1.7	2
89	Neuro-endoscopic management of hemorrhagic moyamoya disease in the acute stage: single institute experience. <i>Neurological Research</i> , 2019, 41, 1097-1103.	1.3	2
90	Regression of Recurrent Spinal Cord High-Grade Glioma After Convection-Enhanced Delivery of Nimustine Hydrochloride: Case Reports and Literature Review. <i>Operative Neurosurgery</i> , 2020, 18, 451-459.	0.8	2

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91	Focal Cerebellar Hyperperfusion After Bypass Surgery for Vertebrobasilar Ischemia: Effect of Cerebrovascular Reactivity as a Potential Predictor of Hyperperfusion. World Neurosurgery, 2020, 140, 101-106.	1.3	2
92	Thoracic Dural Arteriovenous Fistula Presenting with Isolated Pseudobulbar Palsy Mimicking Brainstem Lesion. World Neurosurgery, 2020, 136, 157-160.	1.3	2
93	Ocular neuromyotonia caused by a recurrent sphenoidal ridge meningioma. , 2021, 12, 219.		2
94	Cord Compression Caused by a Tangled and Warped Lumbar Catheter After Lumboperitoneal Shunt Placement. Neurospine, 2019, 16, 368-372.	2.9	2
95	A surgical case of cerebellar tuberculoma caused by a paradoxical reaction while on therapy for tuberculosis spondylitis. , 2019, 10, 162.		2
96	Association between <i>RNF213</i> c.14576G>A Variant (rs112735431) and Peripheral Pulmonary Artery Stenosis in Moyamoya Disease. Cerebrovascular Diseases, 2022, 51, 282-287.	1.7	2
97	Efficacy of intra-arterial indocyanine green angiography for the microsurgical treatment of dural arteriovenous fistula: A case report. , 2020, 11, 46.		2
98	Intractable Hiccups as the Primary Symptom of a Perimedullary Arteriovenous Fistula at the Craniocervical Junction. World Neurosurgery, 2020, 141, 64-68.	1.3	1
99	Efficacy of ultra-high-resolution computed tomographic angiography for postoperative evaluation of intracranial aneurysm after clipping surgery: A case report. , 2022, 13, 85.		1
100	New strategy for firm ventricular wall tap. Innovative Neurosurgery, 2014, 2, 1-4.	0.1	0
101	Cerebral Hyperperfusion and Concomitant Reversible Lesion at the Splenium after Direct Revascularization Surgery for Adult Moyamoya Disease: Possible Involvement of MERS and Watershed Shift Phenomenon. NMC Case Report Journal, 2021, 8, 451-456.	0.5	0
102	Current Surgical Treatment Strategy for Spinal Cord Tumors. Japanese Journal of Neurosurgery, 2021, 30, 590-597.	0.0	0
103	Basilar artery dissection with rupture 6 years after accidental detection: A case report. , 2021, 12, 4.		0
104	Differences Between Subarachnoid Hemorrhage Seen in Daily Practice and Aneurysms That Rupture During Follow-Up. Stroke, 2021, 52, e491-e493.	2.0	0
105	Mechanism of early brain injury after subarachnoid hemorrhage. No Junkan Taisha = Cerebral Blood Flow and Metabolism, 2014, 25, 81-84.	0.0	0
106	1G11 Comparison of hemodynamic parameters and wall characteristics of cerebral aneurysms. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 207-208.	0.0	0
107	2A24 Investigation of setting of upstream boundary in computational hemodynamic analysis in a cerebral aneurysm. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 317-318.	0.0	0
108	Study of Hemodynamic Parameters to Identify Thickening and Thinning Parts of Cerebral Aneurysm Wall. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2018, 2018.29, 1C25.	0.0	0



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109	Microsurgical Approaches and Strategies for the Resection of Brainstem Cavernous Angiomas. Surgery for Cerebral Stroke, 2019, 47, 260-265.	0.0	0
110	Use of Contralateral Trans-Anterior Communicating Artery Snare to Rescue Lost Access to a Pipeline Embolization Device Unsheathed in an Aneurysm. Journal of Neuroendovascular Therapy, 2020, 14, 508-513.	0.1	0
111	Quantification of Tumor Blush of Highly Vascularized Tumors with Slow Feeding System: Representative Use for Giant Pituitary Adenomas. Journal of Neurological Surgery, Part A: Central European Neurosurgery, 2022, 83, 110-117.	0.8	0
112	Surgical Approaches for Brainstem Cavernous Angiomas. Surgery for Cerebral Stroke, 2022, 50, 130-135.	0.0	0
113	Plasma tRNA derivatives concentrations for detecting early brain damage in patients with acute large vessel occlusion and predicting clinical outcomes after endovascular thrombectomy. Clinical Neurology and Neurosurgery, 2022, 220, 107358.	1.4	0