

Aki Laakso

List of Publications by Year in descending order

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Version: 2024-02-01

107
papers

6,965
citations

71102

41
h-index

60623

81
g-index

110
all docs

110
docs citations

110
times ranked

8855
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous angiogram-negative subarachnoid hemorrhage: a retrospective single center cohort study. <i>Acta Neurochirurgica</i> , 2022, 164, 129-140.	1.7	6
2	Inflammation and neutrophil extracellular traps in cerebral cavernous malformation. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 206.	5.4	12
3	A new home for the Helsinki Neurosurgical Department – closure of TÄÄÄ Hospital after 90 years of neurosurgical history. <i>Acta Neurochirurgica</i> , 2022, 164, 1447-1452.	1.7	2
4	Method for the Intraoperative Detection of IDH Mutation in Gliomas with Differential Mobility Spectrometry. <i>Current Oncology</i> , 2022, 29, 3252-3258.	2.2	2
5	Long-term health-related quality of life in patients with ruptured arteriovenous malformations treated in childhood. <i>Journal of Neurosurgery: Pediatrics</i> , 2022, 30, 292-300.	1.3	0
6	Utility of indocyanine green in the detection of radiologically silent hemangioblastomas: case report. <i>Journal of Neurosurgery</i> , 2021, 135, 1173-1179.	1.6	1
7	Comparison of Operating Microscope and Exoscope in a Highly Challenging Experimental Setting. <i>World Neurosurgery</i> , 2021, 147, e468-e475.	1.3	38
8	Comparing health-related quality of life in modified Rankin Scale grades: 15D results from 323 patients with brain arteriovenous malformation and population controls. <i>Acta Neurochirurgica</i> , 2021, 163, 2037-2046.	1.7	2
9	Comparison of Conventional Microscopic and Exoscopic Experimental Bypass Anastomosis: A Technical Analysis. <i>World Neurosurgery</i> , 2020, 135, e293-e299.	1.3	20
10	Cigarette Smoking Is More Prevalent in Patients With Brain Arteriovenous Malformations Compared to General Population: A Cross-Sectional Population-Based Study. <i>Neurosurgery</i> , 2020, 87, E657-E662.	1.1	4
11	The Application of the Novel Grading Scale (Lawton-Young Grading System) to Predict the Outcome of Brain Arteriovenous Malformation. <i>Neurosurgery</i> , 2019, 84, 529-536.	1.1	25
12	Intertumoral heterogeneity in patient-specific drug sensitivities in treatment-naïve glioblastoma. <i>BMC Cancer</i> , 2019, 19, 628.	2.6	55
13	Rat subthalamic stimulation: Evaluating stimulation-induced dyskinesias, choosing stimulation currents and evaluating the anti-akinetic effect in the cylinder test. <i>MethodsX</i> , 2019, 6, 2384-2395.	1.6	4
14	Perioperative Treatment of Brain Arteriovenous Malformations Between 2006 and 2014: The Helsinki Protocol. <i>Neurocritical Care</i> , 2019, 31, 346-356.	2.4	1
15	Feasibility study of using high-throughput drug sensitivity testing to target recurrent glioblastoma stem cells for individualized treatment. <i>Clinical and Translational Medicine</i> , 2019, 8, 33.	4.0	20
16	Long-term health-related quality of life in 262 patients with brain arteriovenous malformation. <i>Neurology</i> , 2019, 93, e1374-e1384.	1.1	8
17	Surgery of Posterior Fossa AVM. , 2019, , 171-183.		0
18	Characteristics and Long-Term Outcome of 127 Children With Cerebral Arteriovenous Malformations. <i>Neurosurgery</i> , 2019, 84, 151-159.	1.1	29

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19	Combination of CDNF and Deep Brain Stimulation Decreases Neurological Deficits in Late-stage Model Parkinson's Disease. <i>Neuroscience</i> , 2018, 374, 250-263.	2.3	27
20	Motor outcome and electrode location in deep brain stimulation in Parkinson's disease. <i>Brain and Behavior</i> , 2018, 8, e01003.	2.2	15
21	Arteriovenous Malformations of the Posterior Fossa: Focus on Surgically Treated Patients Presenting with Hemorrhage. <i>World Neurosurgery</i> , 2018, 116, e934-e943.	1.3	6
22	Protocol for motor and language mapping by navigated TMS in patients and healthy volunteers; workshop report. <i>Acta Neurochirurgica</i> , 2017, 159, 1187-1195.	1.7	165
23	Motility of glioblastoma cells is driven by netrin-1 induced gain of stemness. <i>Journal of Experimental and Clinical Cancer Research</i> , 2017, 36, 9.	8.6	21
24	Timing of surgery for ruptured supratentorial arteriovenous malformations. <i>Acta Neurochirurgica</i> , 2017, 159, 2103-2112.	1.7	13
25	Epidemiology and Natural History of AVMs. , 2017, , 37-49.		2
26	nTMS Language Mapping: Basic Principles and Clinical Use. , 2017, , 131-150.		1
27	Shared Genetic Risk Factors of Intracranial, Abdominal, and Thoracic Aneurysms. <i>Journal of the American Heart Association</i> , 2016, 5, .	3.7	45
28	Absorption, elimination and cerebrospinal fluid concentrations of nimodipine in healthy beagle dogs receiving human intravenous and oral formulation. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , 2016, 41, 295-300.	1.6	4
29	Intracranial Biodegradable Silica-Based Nimodipine Drug Release Implant for Treating Vasospasm in Subarachnoid Hemorrhage in an Experimental Healthy Pig and Dog Model. <i>BioMed Research International</i> , 2015, 2015, 1-10.	1.9	10
30	Neuro-Ophthalmic Presentation and Surgical Results of Unruptured Intracranial Aneurysms—Prospective Helsinki Experience of 142 Patients. <i>World Neurosurgery</i> , 2015, 83, 614-619.	1.3	8
31	Integrating nTMS Data into a Radiology Picture Archiving System. <i>Journal of Digital Imaging</i> , 2015, 28, 428-432.	2.9	11
32	Intracranial Vertebral Artery Aneurysms: Clinical Features and Outcome of 190 Patients. <i>World Neurosurgery</i> , 2015, 84, 380-389.	1.3	21
33	Eye Movement Abnormalities After a Ruptured Intracranial Aneurysm. <i>World Neurosurgery</i> , 2015, 83, 362-367.	1.3	8
34	Prospective Flutemetamol Positron Emission Tomography and Histopathology in Normal Pressure Hydrocephalus. <i>Neurodegenerative Diseases</i> , 2014, 13, 237-245.	1.4	18
35	Genome-Wide Association Study of Intracranial Aneurysm Identifies a New Association on Chromosome 7. <i>Stroke</i> , 2014, 45, 3194-3199.	2.0	52
36	High Risk Population Isolate Reveals Low Frequency Variants Predisposing to Intracranial Aneurysms. <i>PLoS Genetics</i> , 2014, 10, e1004134.	3.5	55

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37	Genetic risk load according to the site of intracranial aneurysms. <i>Neurology</i> , 2014, 83, 34-39.	1.1	28
38	Distal Posterior Inferior Cerebellar Artery Aneurysms: Clinical Features and Outcome of 80 Patients. <i>World Neurosurgery</i> , 2014, 82, 702-713.	1.3	61
39	Comparison of CT and clinical findings of Terson's syndrome in 121 patients: a 1-year prospective study. <i>Journal of Neurosurgery</i> , 2014, 120, 1172-1178.	1.6	17
40	Visual field findings after a ruptured intracranial aneurysm. <i>Acta Neurochirurgica</i> , 2014, 156, 1273-1279.	1.7	2
41	Seventy Aneurysms of the Posterior Inferior Cerebellar Artery: Anatomical Features and Value of Computed Tomography Angiography in Microneurosurgery. <i>World Neurosurgery</i> , 2014, 82, 1106-1112.	1.3	16
42	Early and long-term excess mortality in 227 patients with intracranial dural arteriovenous fistulas. <i>Journal of Neurosurgery</i> , 2013, 119, 164-171.	1.6	24
43	De Novo and Recurrent Aneurysms in Pediatric Patients With Cerebral Aneurysms. <i>Stroke</i> , 2013, 44, 1436-1439.	2.0	43
44	Oxidative Stress Is Associated With Cell Death, Wall Degradation, and Increased Risk of Rupture of the Intracranial Aneurysm Wall. <i>Neurosurgery</i> , 2013, 72, 109-117.	1.1	38
45	Determination of Serotonin and Dopamine Metabolites in Human Brain Microdialysis and Cerebrospinal Fluid Samples by UPLC-MS/MS: Discovery of Intact Glucuronide and Sulfate Conjugates. <i>PLoS ONE</i> , 2013, 8, e68007.	2.5	53
46	A Review of Indocyanine Green Fluorescent Imaging in Surgery. <i>International Journal of Biomedical Imaging</i> , 2012, 2012, 1-26.	3.9	972
47	Long-term Excess Mortality in Pediatric Patients With Cerebral Aneurysms. <i>Stroke</i> , 2012, 43, 2091-2096.	2.0	29
48	Intracellular Signaling Pathways and Size, Shape, and Rupture History of Human Intracranial Aneurysms. <i>Neurosurgery</i> , 2012, 70, 1565-1573.	1.1	28
49	Lateral Supraorbital Approach Applied to Tuberculum Sellae Meningiomas. <i>Neurosurgery</i> , 2012, 70, 1504-1519.	1.1	59
50	On the role of modeling choices in estimation of cerebral aneurysm wall tension. <i>Journal of Biomechanics</i> , 2012, 45, 2914-2919.	2.1	10
51	Noxious Blood or Faulty Vessels? The Mystery of Vasospasm. <i>World Neurosurgery</i> , 2012, 78, 226-227.	1.3	0
52	Arteriovenous Malformations: Epidemiology and Clinical Presentation. <i>Neurosurgery Clinics of North America</i> , 2012, 23, 1-6.	1.7	98
53	Complications of Anterior Craniotomy Through Lateral Supraorbital Approach. <i>World Neurosurgery</i> , 2012, 77, 698-703.	1.3	30
54	Saccular intracranial aneurysm: pathology and mechanisms. <i>Acta Neuropathologica</i> , 2012, 123, 773-786.	7.7	353

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55	Tailored Anterior Craniotomy Through the Lateral Supraorbital Approach: Experience with 82 Consecutive Patients. <i>World Neurosurgery</i> , 2012, 77, 512-517.	1.3	24
56	Microscope Integrated Indocyanine Green Video-Angiography in Cerebrovascular Surgery. <i>Acta Neurochirurgica Supplementum</i> , 2011, 109, 247-250.	1.0	19
57	Microsurgery for Previously Coiled Aneurysms: Experience With 81 Patients. <i>Neurosurgery</i> , 2011, 68, 140-154.	1.1	41
58	A Proposed Grading System of Brain and Spinal Cavernomas. <i>Neurosurgery</i> , 2011, 69, 807-814.	1.1	40
59	Lateral Supraorbital Approach Applied to Anterior Clinoidal Meningiomas: Experience With 73 Consecutive Patients. <i>Neurosurgery</i> , 2011, 68, 1632-1647.	1.1	56
60	Risk of Hemorrhage in Patients With Untreated Spetzler-Martin Grade IV and V Arteriovenous Malformations: A Long-term Follow-up Study in 63 Patients. <i>Neurosurgery</i> , 2011, 68, 372-378.	1.1	90
61	Multiscale imaging characterization of dopamine transporter knockout mice reveals regional alterations in spine density of medium spiny neurons. <i>Brain Research</i> , 2011, 1390, 41-49.	2.2	26
62	Isolation, culture, and characterization of smooth muscle cells from human intracranial aneurysms. <i>Acta Neurochirurgica</i> , 2011, 153, 311-318.	1.7	12
63	Slack brain in meningioma surgery through lateral supraorbital approach. , 2011, 2, 167.		12
64	On the Role of Modeling Choices in Estimation of Cerebral Aneurysm Wall Tension. , 2011, , .		0
65	Microneurosurgical Management of Anterior Choroid Artery Aneurysms. <i>World Neurosurgery</i> , 2010, 73, 486-499.	1.3	36
66	Present State of Microneurosurgery of Cerebral Arteriovenous Malformations. <i>Acta Neurochirurgica Supplementum</i> , 2010, 107, 71-76.	1.0	31
67	Application of Microscope Integrated Indocyanine Green Video-Angiography During Microneurosurgical Treatment of Intracranial Aneurysms: A Review. <i>Acta Neurochirurgica Supplementum</i> , 2010, 107, 107-109.	1.0	27
68	Semantic processing in comatose patients with intact temporal lobes as reflected by the N400 event-related potential. <i>Neuroscience Letters</i> , 2010, 474, 88-92.	2.1	24
69	Microsurgical Principles for Anterior Circulation Aneurysms. <i>Acta Neurochirurgica Supplementum</i> , 2010, 107, 3-7.	1.0	9
70	Natural History of Arteriovenous Malformations: Presentation, Risk of Hemorrhage and Mortality. <i>Acta Neurochirurgica Supplementum</i> , 2010, 107, 65-69.	1.0	28
71	C957T polymorphism of dopamine D2 receptor gene affects striatal DRD2 in vivo availability by changing the receptor affinity. <i>Synapse</i> , 2009, 63, 907-912.	1.2	156
72	Microscope-integrated near-infrared indocyanine green videoangiography during surgery of intracranial aneurysms: the Helsinki experience. <i>World Neurosurgery</i> , 2009, 71, 543-550.	1.3	186

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73	LONG-TERM OUTCOME OF PATIENTS WITH MULTIPLE CEREBRAL CAVERNOUS MALFORMATIONS. <i>Neurosurgery</i> , 2009, 65, 450-455.	1.1	37
74	Natural History in Patients with Spetzler-Martin Grade IV and V Arteriovenous Malformations. <i>Neurosurgery</i> , 2009, 65, 404-405.	1.1	0
75	Susceptibility loci for intracranial aneurysm in European and Japanese populations. <i>Nature Genetics</i> , 2008, 40, 1472-1477.	21.4	247
76	Involvement of Mitogen-Activated Protein Kinase Signaling in Growth and Rupture of Human Intracranial Aneurysms. <i>Stroke</i> , 2008, 39, 886-892.	2.0	48
77	Genetic NMDA Receptor Deficiency Disrupts Acute and Chronic Effects of Cocaine but not Amphetamine. <i>Neuropsychopharmacology</i> , 2008, 33, 2701-2714.	5.4	42
78	NATURAL HISTORY OF BRAIN ARTERIOVENOUS MALFORMATIONS. <i>Neurosurgery</i> , 2008, 63, 823-831.	1.1	435
79	Long-term Excess Mortality in 623 Patients with Brain Arteriovenous Malformations. <i>Neurosurgery</i> , 2008, 63, 244-255.	1.1	233
80	Natural History of Brain Arteriovenous Malformations. <i>Neurosurgery</i> , 2008, 62, 1402.	1.1	275
81	Combined Treatment with Citalopram and Buspirone: Effects on Serotonin 5-HT _{2A} and 5-HT _{2C} Receptors in the Rat Brain. <i>Pharmacopsychiatry</i> , 2006, 39, 1-8.	3.3	17
82	The A1 allele of the human D2 dopamine receptor gene is associated with increased activity of striatal L-amino acid decarboxylase in healthy subjects. <i>Pharmacogenetics and Genomics</i> , 2005, 15, 387-391.	1.5	139
83	Visualization and Quantification of Neurokinin-1 (NK1) Receptors in the Human Brain. <i>Molecular Imaging and Biology</i> , 2005, 7, 262-272.	2.6	51
84	Magnetic resonance imaging at microscopic resolution reveals subtle morphological changes in a mouse model of dopaminergic hyperfunction. <i>NeuroImage</i> , 2005, 26, 83-90.	4.2	49
85	C957T polymorphism of the dopamine D2 receptor (DRD2) gene affects striatal DRD2 availability in vivo. <i>Molecular Psychiatry</i> , 2004, 9, 1060-1061.	7.9	197
86	Dopamine Receptors. , 2004, , 39-43.		0
87	Regional brain morphology and duration of illness in never-medicated first-episode patients with schizophrenia. <i>Schizophrenia Research</i> , 2003, 64, 79-81.	2.0	21
88	The amygdala and schizophrenia: a volumetric magnetic resonance imaging study in first-episode, neuroleptic-naive patients. <i>Biological Psychiatry</i> , 2003, 54, 1302-1304.	1.3	76
89	Dopaminergic Supersensitivity in G Protein-Coupled Receptor Kinase 6-Deficient Mice. <i>Neuron</i> , 2003, 38, 291-303.	8.1	208
90	Sustained elevation of extracellular dopamine causes motor dysfunction and selective degeneration of striatal GABAergic neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11035-11040.	7.1	135

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91	Personality Traits and Striatal Dopamine Synthesis Capacity in Healthy Subjects. <i>American Journal of Psychiatry</i> , 2003, 160, 904-910.	7.2	104
92	A volumetric MRI study of the entorhinal cortex in first episode neuroleptic-naïve schizophrenia. <i>Biological Psychiatry</i> , 2002, 51, 1005-1007.	1.3	71
93	Sex differences in striatal presynaptic dopamine synthesis capacity in healthy subjects. <i>Biological Psychiatry</i> , 2002, 52, 759-763.	1.3	181
94	Experimental Genetic Approaches to Addiction. <i>Neuron</i> , 2002, 36, 213-228.	8.1	78
95	Decreased striatal dopamine transporter binding in vivo in chronic schizophrenia. <i>Schizophrenia Research</i> , 2001, 52, 115-120.	2.0	102
96	A morphometric MRI study of the hippocampus in first-episode, neuroleptic-naïve schizophrenia. <i>Schizophrenia Research</i> , 2001, 50, 3-7.	2.0	41
97	Sertindole is a serotonin 5-HT _{2c} inverse agonist and decreases agonist but not antagonist binding to 5-HT _{2c} receptors after chronic treatment. <i>Psychopharmacology</i> , 2001, 157, 180-187.	3.1	30
98	Drs. Laakso and Hietala Reply. <i>American Journal of Psychiatry</i> , 2001, 158, 327-b-328.	7.2	0
99	Prediction of Detached Personality in Healthy Subjects by Low Dopamine Transporter Binding. <i>American Journal of Psychiatry</i> , 2000, 157, 290-292.	7.2	66
100	Striatal Dopamine Transporter Binding in Neuroleptic-Naïve Patients With Schizophrenia Studied With Positron Emission Tomography. <i>American Journal of Psychiatry</i> , 2000, 157, 269-271.	7.2	146
101	PET Studies of Brain Monoamine Transporters. <i>Current Pharmaceutical Design</i> , 2000, 6, 1611-1623.	1.9	48
102	Striatal presynaptic dopamine function in type 1 alcoholics measured with positron emission tomography. <i>Molecular Psychiatry</i> , 1998, 3, 156-161.	7.9	80
103	[¹⁸ F]CFT ([¹⁸ F]WIN 35,428), a radioligand to study the dopamine transporter with PET: Characterization in human subjects. , 1998, 28, 244-250.		58
104	Chronic Citalopram and Fluoxetine Treatments Upregulate 5-HT _{2C} Receptors in the Rat Choroid Plexus. <i>Neuropsychopharmacology</i> , 1996, 15, 143-151.	5.4	42
105	Interactions of selective serotonin reuptake inhibitors with the serotonin 5-HT _{2C} receptor. <i>Psychopharmacology</i> , 1996, 126, 234-240.	3.1	185
106	[¹⁸ F]CFT ([¹⁸ F]WIN 35,428), a radioligand to study the dopamine transporter with PET: Biodistribution in rats. , 1996, 23, 321-327.		45
107	Up-regulation of ¹²¹ I-adrenergic receptors in rat brain after chronic citalopram and fluoxetine treatments. <i>Psychopharmacology</i> , 1994, 115, 543-546.	3.1	42