

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	A Review of Indocyanine Green Fluorescent Imaging in Surgery. International Journal of Biomedical Imaging, 2012, 2012, 1-26.	3.9	972
2	NATURAL HISTORY OF BRAIN ARTERIOVENOUS MALFORMATIONS. Neurosurgery, 2008, 63, 823-831.	1.1	435
3	Saccular intracranial aneurysm: pathology and mechanisms. Acta Neuropathologica, 2012, 123, 773-786.	7.7	353
4	Natural History of Brain Arteriovenous Malformations. Neurosurgery, 2008, 62, 1402.	1.1	275
5	Susceptibility loci for intracranial aneurysm in European and Japanese populations. Nature Genetics, 2008, 40, 1472-1477.	21.4	247
6	Long-term Excess Mortality in 623 Patients with Brain Arteriovenous Malformations. Neurosurgery, 2008, 63, 244-255.	1.1	233
7	Dopaminergic Supersensitivity in G Protein-Coupled Receptor Kinase 6-Deficient Mice. Neuron, 2003, 38, 291-303.	8.1	208
8	C957T polymorphism of the dopamine D2 receptor (DRD2) gene affects striatal DRD2 availability in vivo. Molecular Psychiatry, 2004, 9, 1060-1061.	7.9	197
9	Microscope-integrated near-infrared indocyanine green videoangiography during surgery of intracranial aneurysms: the Helsinki experience. World Neurosurgery, 2009, 71, 543-550.	1.3	186
10	Interactions of selective serotonin reuptake inhibitors with the serotonin 5-HT2C receptor. Psychopharmacology, 1996, 126, 234-240.	3.1	185
11	Sex differences in striatal presynaptic dopamine synthesis capacity in healthy subjects. Biological Psychiatry, 2002, 52, 759-763.	1.3	181
12	Protocol for motor and language mapping by navigated TMS in patients and healthy volunteers; workshop report. Acta Neurochirurgica, 2017, 159, 1187-1195.	1.7	165
13	C957T polymorphism of dopamine D2 receptor gene affects striatal DRD2 in vivo availability by changing the receptor affinity. Synapse, 2009, 63, 907-912.	1.2	156
14	Striatal Dopamine Transporter Binding in Neuroleptic-Naive Patients With Schizophrenia Studied With Positron Emission Tomography. American Journal of Psychiatry, 2000, 157, 269-271.	7.2	146
15	The A1 allele of the human D2 dopamine receptor gene is associated with increased activity of striatal L-amino acid decarboxylase in healthy subjects. Pharmacogenetics and Genomics, 2005, 15, 387-391.	1.5	139
16	Sustained elevation of extracellular dopamine causes motor dysfunction and selective degeneration of striatal GABAergic neurons. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11035-11040.	7.1	135
17	Personality Traits and Striatal Dopamine Synthesis Capacity in Healthy Subjects. American Journal of Psychiatry, 2003, 160, 904-910.	7.2	104
18	Decreased striatal dopamine transporter binding in vivo in chronic schizophrenia. Schizophrenia Research, 2001, 52, 115-120.	2.0	102

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19	Arteriovenous Malformations: Epidemiology and Clinical Presentation. <i>Neurosurgery Clinics of North America</i> , 2012, 23, 1-6.	1.7	98
20	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
21	Striatal presynaptic dopamine function in type 1 alcoholics measured with positron emission tomography. <i>Molecular Psychiatry</i> , 1998, 3, 156-161.	7.9	80
22	Experimental Genetic Approaches to Addiction. <i>Neuron</i> , 2002, 36, 213-228.	8.1	78
23	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
24	A volumetric MRI study of the entorhinal cortex in first episode neuroleptic-naive schizophrenia. <i>Biological Psychiatry</i> , 2002, 51, 1005-1007.	1.3	71
25	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
26	Distal Posterior Inferior Cerebellar Artery Aneurysms: Clinical Features and Outcome of 80 Patients. <i>World Neurosurgery</i> , 2014, 82, 702-713.	1.3	61
27	Lateral Supraorbital Approach Applied to Tuberculum Sellae Meningiomas. <i>Neurosurgery</i> , 2012, 70, 1504-1519.	1.1	59
28	[18F]CFT ([18F]WIN 35,428), a radioligand to study the dopamine transporter with PET: Characterization in human subjects. , 1998, 28, 244-250.		58
29	Lateral Supraorbital Approach Applied to Anterior Clinoidal Meningiomas: Experience With 73 Consecutive Patients. <i>Neurosurgery</i> , 2011, 68, 1632-1647.	1.1	56
30	High Risk Population Isolate Reveals Low Frequency Variants Predisposing to Intracranial Aneurysms. <i>PLoS Genetics</i> , 2014, 10, e1004134.	3.5	55
31	Intertumoral heterogeneity in patient-specific drug sensitivities in treatment-naïve glioblastoma. <i>BMC Cancer</i> , 2019, 19, 628.	2.6	55
32	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
33	Genome-Wide Association Study of Intracranial Aneurysm Identifies a New Association on Chromosome 7. <i>Stroke</i> , 2014, 45, 3194-3199.	2.0	52
34	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
35	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
36	PET Studies of Brain Monoamine Transporters. <i>Current Pharmaceutical Design</i> , 2000, 6, 1611-1623.	1.9	48

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37	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
38	[18F]CFT ([18F]WIN 35,428), a radioligand to study the dopamine transporter with PET: Biodistribution in rats. , 1996, 23, 321-327.		45
39	Shared Genetic Risk Factors of Intracranial, Abdominal, and Thoracic Aneurysms. <i>Journal of the American Heart Association</i> , 2016, 5, .	3.7	45
40	De Novo and Recurrent Aneurysms in Pediatric Patients With Cerebral Aneurysms. <i>Stroke</i> , 2013, 44, 1436-1439.	2.0	43
41	Up-regulation of β ²¹ -adrenergic receptors in rat brain after chronic citalopram and fluoxetine treatments. <i>Psychopharmacology</i> , 1994, 115, 543-546.	3.1	42
42	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
43	Genetic NMDA Receptor Deficiency Disrupts Acute and Chronic Effects of Cocaine but not Amphetamine. <i>Neuropsychopharmacology</i> , 2008, 33, 2701-2714.	5.4	42
44	A morphometric MRI study of the hippocampus in first-episode, neuroleptic-naïve schizophrenia. <i>Schizophrenia Research</i> , 2001, 50, 3-7.	2.0	41
45	Microsurgery for Previously Coiled Aneurysms: Experience With 81 Patients. <i>Neurosurgery</i> , 2011, 68, 140-154.	1.1	41
46	A Proposed Grading System of Brain and Spinal Cavernomas. <i>Neurosurgery</i> , 2011, 69, 807-814.	1.1	40
47	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
48	Comparison of Operating Microscope and Exoscope in a Highly Challenging Experimental Setting. <i>World Neurosurgery</i> , 2021, 147, e468-e475.	1.3	38
49	LONG-TERM OUTCOME OF PATIENTS WITH MULTIPLE CEREBRAL CAVERNOUS MALFORMATIONS. <i>Neurosurgery</i> , 2009, 65, 450-455.	1.1	37
50	Microneurosurgical Management of Anterior Choroid Artery Aneurysms. <i>World Neurosurgery</i> , 2010, 73, 486-499.	1.3	36
51	Present State of Microneurosurgery of Cerebral Arteriovenous Malformations. <i>Acta Neurochirurgica Supplementum</i> , 2010, 107, 71-76.	1.0	31
52	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
53	Complications of Anterior Craniotomy Through Lateral Supraorbital Approach. <i>World Neurosurgery</i> , 2012, 77, 698-703.	1.3	30
54	Long-term Excess Mortality in Pediatric Patients With Cerebral Aneurysms. <i>Stroke</i> , 2012, 43, 2091-2096.	2.0	29

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55	Characteristics and Long-Term Outcome of 127 Children With Cerebral Arteriovenous Malformations. <i>Neurosurgery</i> , 2019, 84, 151-159.	1.1	29
56	Intracellular Signaling Pathways and Size, Shape, and Rupture History of Human Intracranial Aneurysms. <i>Neurosurgery</i> , 2012, 70, 1565-1573.	1.1	28
57	Genetic risk load according to the site of intracranial aneurysms. <i>Neurology</i> , 2014, 83, 34-39.	1.1	28
58	Natural History of Arteriovenous Malformations: Presentation, Risk of Hemorrhage and Mortality. <i>Acta Neurochirurgica Supplementum</i> , 2010, 107, 65-69.	1.0	28
59	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
60	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
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	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
63	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
64	Tailored Anterior Clinoidectomy Through the Lateral Supraorbital Approach: Experience with 82 Consecutive Patients. <i>World Neurosurgery</i> , 2012, 77, 512-517.	1.3	24
65	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
66	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
67	Intracranial Vertebral Artery Aneurysms: Clinical Features and Outcome of 190 Patients. <i>World Neurosurgery</i> , 2015, 84, 380-389.	1.3	21
68	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
69	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
70	Comparison of Conventional Microscopic and Exoscopic Experimental Bypass Anastomosis: A Technical Analysis. <i>World Neurosurgery</i> , 2020, 135, e293-e299.	1.3	20
71	Microscope Integrated Indocyanine Green Video-Angiography in Cerebrovascular Surgery. <i>Acta Neurochirurgica Supplementum</i> , 2011, 109, 247-250.	1.0	19
72	Prospective Flutemetamol Positron Emission Tomography and Histopathology in Normal Pressure Hydrocephalus. <i>Neurodegenerative Diseases</i> , 2014, 13, 237-245.	1.4	18

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73	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
74	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
75	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
76	Motor outcome and electrode location in deep brain stimulation in Parkinson's disease. <i>Brain and Behavior</i> , 2018, 8, e01003.	2.2	15
77	Timing of surgery for ruptured supratentorial arteriovenous malformations. <i>Acta Neurochirurgica</i> , 2017, 159, 2103-2112.	1.7	13
78	Isolation, culture, and characterization of smooth muscle cells from human intracranial aneurysms. <i>Acta Neurochirurgica</i> , 2011, 153, 311-318.	1.7	12
79	Slack brain in meningioma surgery through lateral supraorbital approach. , 2011, 2, 167.		12
80	Inflammation and neutrophil extracellular traps in cerebral cavernous malformation. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 206.	5.4	12
81	Integrating nTMS Data into a Radiology Picture Archiving System. <i>Journal of Digital Imaging</i> , 2015, 28, 428-432.	2.9	11
82	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
83	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
84	Microsurgical Principles for Anterior Circulation Aneurysms. <i>Acta Neurochirurgica Supplementum</i> , 2010, 107, 3-7.	1.0	9
85	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
86	Eye Movement Abnormalities After a Ruptured Intracranial Aneurysm. <i>World Neurosurgery</i> , 2015, 83, 362-367.	1.3	8
87	Long-term health-related quality of life in 262 patients with brain arteriovenous malformation. <i>Neurology</i> , 2019, 93, e1374-e1384.	1.1	8
88	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
89	Spontaneous angiogram-negative subarachnoid hemorrhage: a retrospective single center cohort study. <i>Acta Neurochirurgica</i> , 2022, 164, 129-140.	1.7	6
90	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

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91	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
92	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
93	Visual field findings after a ruptured intracranial aneurysm. <i>Acta Neurochirurgica</i> , 2014, 156, 1273-1279.	1.7	2
94	Epidemiology and Natural History of AVMs. , 2017, , 37-49.		2
95	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
96	A new home for the Helsinki Neurosurgical Department – closure of Töölön Hospital after 90 years of neurosurgical history. <i>Acta Neurochirurgica</i> , 2022, 164, 1447-1452.	1.7	2
97	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
98	Perioperative Treatment of Brain Arteriovenous Malformations Between 2006 and 2014: The Helsinki Protocol. <i>Neurocritical Care</i> , 2019, 31, 346-356.	2.4	1
99	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
100	nTMS Language Mapping: Basic Principles and Clinical Use. , 2017, , 131-150.		1
101	Natural History in Patients with Spetzler-Martin Grade IV and V Arteriovenous Malformations. <i>Neurosurgery</i> , 2009, 65, 404-405.	1.1	0
102	Noxious Blood or Faulty Vessels – The Mystery of Vasospasm. <i>World Neurosurgery</i> , 2012, 78, 226-227.	1.3	0
103	Surgery of Posterior Fossa AVM. , 2019, , 171-183.		0
104	Drs. Laakso and Hietala Reply. <i>American Journal of Psychiatry</i> , 2001, 158, 327-b-328.	7.2	0
105	Dopamine Receptors. , 2004, , 39-43.		0
106	On the Role of Modeling Choices in Estimation of Cerebral Aneurysm Wall Tension. , 2011, , .		0
107	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