

Axel Montagne

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54
papers

5,828
citations

27
h-index

69
g-index

69
ext. papers

7,901
ext. citations

11.9
avg, IF

6.17
L-index

#	Paper	IF	Citations
54	Blood-brain barrier breakdown in the aging human hippocampus. <i>Neuron</i> , 2015 , 85, 296-302	13.9	1023
53	Blood-Brain Barrier: From Physiology to Disease and Back. <i>Physiological Reviews</i> , 2019 , 99, 21-78	47.9	647
52	Blood-brain barrier breakdown is an early biomarker of human cognitive dysfunction. <i>Nature Medicine</i> , 2019 , 25, 270-276	50.5	577
51	Cerebral blood flow regulation and neurovascular dysfunction in Alzheimer disease. <i>Nature Reviews Neuroscience</i> , 2017 , 18, 419-434	13.5	538
50	APOE4 leads to blood-brain barrier dysfunction predicting cognitive decline. <i>Nature</i> , 2020 , 581, 71-76	50.4	356
49	The role of brain vasculature in neurodegenerative disorders. <i>Nature Neuroscience</i> , 2018 , 21, 1318-1331	25.5	338
48	Alzheimer's disease: A matter of blood-brain barrier dysfunction?. <i>Journal of Experimental Medicine</i> , 2017 , 214, 3151-3169	16.6	312
47	Vascular dysfunction-The disregarded partner of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2019 , 15, 158-167	1.2	265
46	Pericyte degeneration causes white matter dysfunction in the mouse central nervous system. <i>Nature Medicine</i> , 2018 , 24, 326-337	50.5	211
45	Perivascular spaces in the brain: anatomy, physiology and pathology. <i>Nature Reviews Neurology</i> , 2020 , 16, 137-153	15	161
44	Pericyte loss leads to circulatory failure and pleiotrophin depletion causing neuron loss. <i>Nature Neuroscience</i> , 2019 , 22, 1089-1098	25.5	144
43	Brain imaging of neurovascular dysfunction in Alzheimer's disease. <i>Acta Neuropathologica</i> , 2016 , 131, 687-707	14.3	124
42	Impact of tissue plasminogen activator on the neurovascular unit: from clinical data to experimental evidence. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 2119-34	7.3	85
41	Ultra-sensitive molecular MRI of vascular cell adhesion molecule-1 reveals a dynamic inflammatory penumbra after strokes. <i>Stroke</i> , 2013 , 44, 1988-96	6.7	76
40	Optimal acquisition and modeling parameters for accurate assessment of low Ktrans blood-brain barrier permeability using dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1967-77	4.4	70
39	Tissue plasminogen activator prevents white matter damage following stroke. <i>Journal of Experimental Medicine</i> , 2011 , 208, 1229-42	16.6	60
38	Regional early and progressive loss of brain pericytes but not vascular smooth muscle cells in adult mice with disrupted platelet-derived growth factor receptor-β signaling. <i>PLoS ONE</i> , 2017 , 12, e0176225	3.7	60

37	Blood-Brain Barrier Permeability and Gadolinium: Benefits and Potential Pitfalls in Research. <i>JAMA Neurology</i> , 2016 , 73, 13-4	17.2	56
36	Molecular magnetic resonance imaging of brain-immune interactions. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 389	6.1	55
35	Glutamate controls tPA recycling by astrocytes, which in turn influences glutamatergic signals. <i>Journal of Neuroscience</i> , 2012 , 32, 5186-99	6.6	55
34	Ultra-sensitive molecular MRI of cerebrovascular cell activation enables early detection of chronic central nervous system disorders. <i>NeuroImage</i> , 2012 , 63, 760-70	7.9	54
33	GpIb β /VWF blockade restores vessel patency by dissolving platelet aggregates formed under very high shear rate in mice. <i>Blood</i> , 2014 , 123, 3354-63	2.2	53
32	NR2D-containing NMDA receptors mediate tissue plasminogen activator-promoted neuronal excitotoxicity. <i>Cell Death and Differentiation</i> , 2010 , 17, 860-71	12.7	45
31	ROCKETSHIP: a flexible and modular software tool for the planning, processing and analysis of dynamic MRI studies. <i>BMC Medical Imaging</i> , 2015 , 15, 19	2.9	44
30	Unveiling an exceptional zymogen: the single-chain form of tPA is a selective activator of NMDA receptor-dependent signaling and neurotoxicity. <i>Cell Death and Differentiation</i> , 2012 , 19, 1983-91	12.7	43
29	Urokinase versus Alteplase for intraventricular hemorrhage fibrinolysis. <i>Neuropharmacology</i> , 2014 , 85, 158-65	5.5	37
28	Vascular plasticity and cognition during normal aging and dementia. <i>JAMA Neurology</i> , 2015 , 72, 495-6	17.2	27
27	Memantine improves safety of thrombolysis for stroke. <i>Stroke</i> , 2012 , 43, 2774-81	6.7	27
26	Selective inhibition of GluN2D-containing N-methyl-D-aspartate receptors prevents tissue plasminogen activator-promoted neurotoxicity both in vitro and in vivo. <i>Molecular Neurodegeneration</i> , 2011 , 6, 68	19	23
25	A novel sensitive assay for detection of a biomarker of pericyte injury in cerebrospinal fluid. <i>Alzheimers and Dementia</i> , 2020 , 16, 821-830	1.2	22
24	Cranial Suture Regeneration Mitigates Skull and Neurocognitive Defects in Craniosynostosis. <i>Cell</i> , 2021 , 184, 243-256.e18	56.2	22
23	Tissue Plasminogen Activator Expression Is Restricted to Subsets of Excitatory Pyramidal Glutamatergic Neurons. <i>Molecular Neurobiology</i> , 2016 , 53, 5000-12	6.2	21
22	Alzheimer's pathogenic mechanisms and underlying sex difference. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 4907-4920	10.3	19
21	Permeability imaging as a predictor of delayed cerebral ischemia after aneurysmal subarachnoid hemorrhage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018 , 38, 973-979	7.3	17
20	Endothelial LRP1 protects against neurodegeneration by blocking cyclophilin A. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	17

19	accelerates advanced-stage vascular and neurodegenerative disorder in old Alzheimer's mice via cyclophilin A independently of amyloid- β . <i>Nature Aging</i> , 2021 , 1, 506-520		16
18	Immunotherapy blocking the tissue plasminogen activator-dependent activation of N-methyl-D-aspartate glutamate receptors improves hemorrhagic stroke outcome. <i>Neuropharmacology</i> , 2013 , 67, 267-71	5.5	14
17	Intracerebral hematomas disappear on T2*-weighted images during normobaric oxygen therapy. <i>Stroke</i> , 2013 , 44, 3482-9	6.7	13
16	Comparison Between Blood-Brain Barrier Water Exchange Rate and Permeability to Gadolinium-Based Contrast Agent in an Elderly Cohort. <i>Frontiers in Neuroscience</i> , 2020 , 14, 571480	5.1	12
15	A Review of Translational Magnetic Resonance Imaging in Human and Rodent Experimental Models of Small Vessel Disease. <i>Translational Stroke Research</i> , 2021 , 12, 15-30	7.8	11
14	Undetectable gadolinium brain retention in individuals with an age-dependent blood-brain barrier breakdown in the hippocampus and mild cognitive impairment. <i>Alzheimers and Dementia</i> , 2019 , 15, 1568-1575 ^{1,2} ¹⁰		
13	New Mechanistic Insights, Novel Treatment Paradigms, and Clinical Progress in Cerebrovascular Diseases. <i>Frontiers in Aging Neuroscience</i> , 2021 , 13, 623751	5.3	9
12	Impact of alcohol consumption on the outcome of ischemic stroke and thrombolysis: role of the hepatic clearance of tissue-type plasminogen activator. <i>Stroke</i> , 2015 , 46, 1641-50	6.7	8
11	7T Multi-shell Hybrid Diffusion Imaging (HYDI) for Mapping Brain Connectivity in Mice. <i>Proceedings of SPIE</i> , 2015 , 9413,	1.7	7
10	Interplay between Brain Pericytes and Endothelial Cells in Dementia. <i>American Journal of Pathology</i> , 2021 , 191, 1917-1931	5.8	7
9	Magnetic Resonance Imaging of Blood-Brain Barrier permeability in Dementia. <i>Neuroscience</i> , 2021 , 474, 14-29	3.9	5
8	Blood-brain barrier link to human cognitive impairment and Alzheimer's Disease. 2022 , 1, 108-115		3
7	Evidence that blood-CSF barrier transport, but not inflammatory biomarkers, change in migraine, while CSF sVCAM1 associates with migraine frequency and CSF fibrinogen. <i>Headache</i> , 2021 , 61, 536-545 ^{4,2}		3
6	Air Pollution Particulate Matter Exposure and Chronic Cerebral Hypoperfusion and Measures of White Matter Injury in a Murine Model. <i>Environmental Health Perspectives</i> , 2021 , 129, 87006	8.4	3
5	Protection of ischemic white matter and oligodendrocytes in mice by 3K3A-activated protein C. <i>Journal of Experimental Medicine</i> , 2022 , 219,	16.6	2
4	Air Pollution Particulate Matter Amplifies White Matter Vascular Pathology and Demyelination Caused by Hypoperfusion. <i>Frontiers in Immunology</i> , 2021 , 12, 785519	8.4	2
3	Prenatal disruption of blood-brain barrier formation via cyclooxygenase activation leads to lifelong brain inflammation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2113310119	11.5	2
2	Atp13a5 Marker Reveals Pericytes of The Central Nervous System in Mice		1

1 Imaging subtle leaks in the blood-brain barrier in the aging human brain: potential pitfalls, challenges, and possible solutions.. *GeroScience*, **2022**, 1 8.9 1