Annika Keller

List of Publications by Year
in descending order

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51	12,544	147801	182427
papers	citations	31 h-index	51 g-index

61	61	61	16434
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pericytes regulate the bloodâ€“brain barrier. Nature, 2010, 468, 557-561.	27.8	2,214
2	Pericytes: Developmental, Physiological, and Pathological Perspectives, Problems, and Promises. Developmental Cell, 2011, 21, 193-215.	7.0	2,123
3	Endothelial/Pericyte Interactions. Circulation Research, 2005, 97, 512-523.	4.5	1,748
4	A molecular atlas of cell types and zonation in the brain vasculature. Nature, 2018, 554, 475-480.	27.8	1,310
5	Apolipoprotein E controls cerebrovascular integrity via cyclophilin A. Nature, 2012, 485, 512-516.	27.8	1,019
6	Endothelial-Mural Cell Signaling in Vascular Development and Angiogenesis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 630-638.	2.4	784
7	Pericytes and vascular stability. Experimental Cell Research, 2006, 312, 623-629.	2.6	435
8	Follicular Dendritic Cells Emerge from Ubiquitous Perivascular Precursors. Cell, 2012, 150, 194-206.	28.9	329
9	Single-cell RNA sequencing of mouse brain and lung vascular and vessel-associated cell types. Scientific Data, 2018, 5, 180160.	5.3	316
10	Mutations in the gene encoding PDGF-B cause brain calcifications in humans and mice. Nature Genetics, 2013, 45, 1077-1082.	21.4	273
11	Analysis of the brain mural cell transcriptome. Scientific Reports, 2016, 6, 35108.	3.3	185
12	Ephrin-A2 reverse signaling negatively regulates neural progenitor proliferation and neurogenesis. Genes and Development, 2005, 19, 462-471.	5.9	178
13	Notch3 Is Necessary for Blood Vessel Integrity in the Central Nervous System. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 409-420.	2.4	106
14	Role of the GLUT1 Glucose Transporter in Postnatal CNS Angiogenesis and Blood-Brain Barrier Integrity. Circulation Research, 2020, 127, 466-482.	4.5	103
15	Pericytes Stimulate Oligodendrocyte Progenitor Cell Differentiation during CNS Remyelination. Cell Reports, 2017, 20, 1755-1764.	6.4	100
16	Single-Cell Analysis of Blood-Brain Barrier Response to Pericyte Loss. Circulation Research, 2021, 128, e46-e62.	4.5	98
17	Identification of a Core Set of 58 Gene Transcripts With Broad and Specific Expression in the Microvasculature. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 1469-1476.	2.4	95
18	The Cytoplasmic Tyrosines of Integrin Subunit Î²1 Are Involved in Focal Adhesion Kinase Activation. Molecular and Cellular Biology, 2000, 20, 5758-5765.	2.3	87

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19	Pericytes regulate vascular immune homeostasis in the CNS. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	86
20	PDGFâ€Β signaling is important for murine cardiac development: Its role in developing atrioventricular valves, coronaries, and cardiac innervation. Developmental Dynamics, 2008, 237, 494-503.	1.8	78
21	Functional Characterization of Germline Mutations in PDGFB and PDGFRB in Primary Familial Brain Calcification. PLoS ONE, 2015, 10, e0143407.	2.5	77
22	Determination of the Border between the Transmembrane and Cytoplasmic Domains of Human Integrin Subunits. Journal of Biological Chemistry, 1999, 274, 37030-37034.	3.4	71
23	Trafficking of Endogenous Immunoglobulins by Endothelial Cells at the Blood-Brain Barrier. Scientific Reports, 2016, 6, 25658.	3.3	70
24	The Role of the NADPH Oxidase NOX2 in Prion Pathogenesis. PLoS Pathogens, 2014, 10, e1004531.	4.7	57
25	Expression of Integrin Subunit Î²1B in Integrin Î²1-Deficient GD25 Cells Does Not Interfere with Î±VÎ²3 Functions. Experimental Cell Research, 2000, 254, 55-63.	2.6	52
26	Determination of N- and C-terminal Borders of the Transmembrane Domain of Integrin Subunits. Journal of Biological Chemistry, 2004, 279, 21200-21205.	3.4	50
27	Ossified blood vessels in primary familial brain calcification elicit a neurotoxic astrocyte response. Brain, 2019, 142, 885-902.	7.6	50
28	Getting to Know the Cast - Cellular Interactions and Signaling at the Neurovascular Unit. Current Pharmaceutical Design, 2011, 17, 2750-2754.	1.9	44
29	<scp>PDGF</scp>, Pericytes and the Pathogenesis of Idiopathic Basal Ganglia Calcification (<scp>IBGC</scp>). Brain Pathology, 2014, 24, 387-395.	4.1	42
30	The Integrin Î²1 Subunit Transmembrane Domain Regulates Phosphatidylinositol 3-Kinase-dependent Tyrosine Phosphorylation of Crk-associated Substrate. Molecular Biology of the Cell, 2004, 15, 2558-2567.	2.1	39
31	Pericytes and the bloodâ€“brain barrier: recent advances and implications for the delivery of CNS therapy. Therapeutic Delivery, 2011, 2, 419-422.	2.2	34
32	Distinct signatures of calcium activity in brain mural cells. ELife, 2021, 10, .	6.0	31
33	Adult-induced genetic ablation distinguishes PDGFB roles in blood-brain barrier maintenance and development. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 264-279.	4.3	25
34	Blood-brain barrier alterations in human brain tumors revealed by genome-wide transcriptomic profiling. Neuro-Oncology, 2021, 23, 2095-2106.	1.2	23
35	Microglia control small vessel calcification via TREM2. Science Advances, 2021, 7, .	10.3	22
36	Breaking and building the wall: the biology of the blood-brain barrier in health and disease. Swiss Medical Weekly, 2013, 143, w13892.	1.6	21

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37	Prolonged systemic hyperglycemia does not cause pericyte loss and permeability at the mouse blood-brain barrier. Scientific Reports, 2018, 8, 17462.	3.3	19
38	Characterization of the bloodâ€“brain barrier in genetically diverse laboratory mouse strains. Fluids and Barriers of the CNS, 2021, 18, 34.	5.0	18
39	Vascular and Tissue Changes of Magnetic Susceptibility in the Mouse Brain After Transient Cerebral Ischemia. Translational Stroke Research, 2018, 9, 426-435.	4.2	17
40	SWI and phase imaging reveal intracranial calcifications in the P301L mouse model of human tauopathy. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 769-781.	2.0	16
41	Public Volume Electron Microscopy Data: An Essential Resource to Study the Brain Microvasculature. Frontiers in Cell and Developmental Biology, 2022, 10, 849469.	3.7	15
42	Pericytes in Primary Familial Brain Calcification. Advances in Experimental Medicine and Biology, 2019, 1147, 247-264.	1.6	10
43	The Interplay Between Brain Vascular Calcification and Microglia. Frontiers in Aging Neuroscience, 2022, 14, 848495.	3.4	10
44	Prion pathogenesis is unaltered in a mouse strain with a permeable blood-brain barrier. PLoS Pathogens, 2018, 14, e1007424.	4.7	9
45	Molecular Signature of Brain Arteriovenous Malformation Hemorrhage: A Systematic Review. World Neurosurgery, 2022, 157, 143-151.	1.3	6
46	The dural sinus hub: more than just a brain drain. Cell, 2021, 184, 858-860.	28.9	5
47	New Insights in the Complexity and Functionality of the Neurovascular Unit. Handbook of Experimental Pharmacology, 2020, , 33-57.	1.8	5
48	Outcome Comparison Between Surgically Treated Brain Arteriovenous Malformation Hemorrhage and Spontaneous Intracerebral Hemorrhage. World Neurosurgery, 2020, 139, e807-e811.	1.3	4
49	Role of Pericytes in Vascular Biology. Frontiers in Diabetes, 2009, , 194-202.	0.4	1
50	Reply: Osteoclast imbalance in primary familial brain calcification: evidence for its role in brain calcification. Brain, 2020, 143, e2-e2.	7.6	1
51	A gain-of-function approach to analyze the role of PDGF-B in pericyte recruitment to microvessels. Journal of the Neurological Sciences, 2009, 283, 289.	0.6	0