

# Andy Y Shih

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

6,625  
citations

109321

35  
h-index

110387

64  
g-index

78  
all docs

78  
docs citations

78  
times ranked

7433  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pericyte Control of Blood Flow Across Microvascular Zones in the Central Nervous System. Annual Review of Physiology, 2022, 84, 331-354.	13.1	86
2	Expanding the horizon of research into the pathogenesis of the white matter diseases: Proceedings of the 2021 Annual Workshop of the Albert Research Institute for White Matter and Cognition. GeroScience, 2022, 44, 25-37.	4.6	1
3	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
4	Brain capillary obstruction during neurotoxicity in a mouse model of anti-CD19 chimeric antigen receptor T-cell therapy. Brain Communications, 2022, 4, fcab309.	3.3	8
5	Distinct features of brain perivascular fibroblasts and mural cells revealed by <i>in vivo</i> two-photon imaging. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 966-978.	4.3	33
6	In vivo Single Cell Optical Ablation of Brain Pericytes. Frontiers in Neuroscience, 2022, 16, .	2.8	3
7	Antibody-based in vivo leukocyte label for two-photon brain imaging in mice. Neurophotonics, 2022, 9, .	3.3	5
8	Reinforced thinned-skull window for repeated imaging of the neonatal mouse brain. Neurophotonics, 2022, 9, .	3.3	4
9	In Vivo Optical Imaging and Manipulation of Brain Pericytes. Pancreatic Islet Biology, 2021, , 1-37.	0.3	1
10	Multiphoton-Guided Creation of Complex Organ-Specific Microvasculature. Advanced Healthcare Materials, 2021, 10, e2100031.	7.6	34
11	Brain capillary pericytes exert a substantial but slow influence on blood flow. Nature Neuroscience, 2021, 24, 633-645.	14.8	195
12	Endothelial Nitric Oxide Synthase-Deficient Mice. American Journal of Pathology, 2021, 191, 1932-1945.	3.8	22
13	Three-dimensional ultrastructure of the brain pericyte-endothelial interface. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2185-2200.	4.3	34
14	Imaging the construction of capillary networks in the neonatal mouse brain. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	48
15	Postnatal development of cerebrovascular structure and the neuroglivascular unit. Wiley Interdisciplinary Reviews: Developmental Biology, 2020, 9, e363.	5.9	84
16	In vivo two-photon imaging of neuronal and brain vascular responses in mice chronically exposed to ethanol. Alcohol, 2020, 85, 41-47.	1.7	11
17	Mild pericyte deficiency is associated with aberrant brain microvascular flow in aged PDGFR <sup>2</sup> mice. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 2387-2400.	4.3	28
18	Rapid, Nitric Oxide Synthesis-Dependent Activation of MMP-9 at Pericyte Somata During Capillary Ischemia in vivo. Frontiers in Physiology, 2020, 11, 619230.	2.8	4

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19	VasoMetrics: unbiased spatiotemporal analysis of microvascular diameter in multi-photon imaging applications. Quantitative Imaging in Medicine and Surgery, 2020, 11, 969-982.	2.0	34
20	Sharpening the tools for pericyte research. Nature Neuroscience, 2019, 22, 1041-1043.	14.8	7
21	Combining serial block face and focused ion beam scanning electron microscopy for 3D studies of rare events. Methods in Cell Biology, 2019, 152, 87-101.	1.1	12
22	Higher prevalence of spontaneous cerebral vasculopathy and cerebral infarcts in a mouse model of sickle cell disease. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 342-351.	4.3	27
23	Organizational hierarchy and structural diversity of microvascular pericytes in adult mouse cortex. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 411-425.	4.3	175
24	Rodent Models of Cerebral Microinfarct and Microhemorrhage. Stroke, 2018, 49, 803-810.	2.0	37
25	Dynamic Remodeling of Pericytes In Vivo Maintains Capillary Coverage in the Adult Mouse Brain. Cell Reports, 2018, 22, 8-16.	6.4	152
26	Does pathology of small venules contribute to cerebral microinfarcts and dementia?. Journal of Neurochemistry, 2018, 144, 517-526.	3.9	44
27	Pericyte Structural Remodeling in Cerebrovascular Health and Homeostasis. Frontiers in Aging Neuroscience, 2018, 10, 210.	3.4	77
28	Optogenetic stimulation of pericytes lacking alpha smooth muscle actin produces a decrease in capillary blood flow in the living mouse brain. FASEB Journal, 2018, 32, 708.1.	0.5	3
29	Functional deficits induced by cortical microinfarcts. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3599-3614.	4.3	84
30	Structural plasticity of the ventral stream and aphasia recovery. Annals of Neurology, 2017, 82, 147-151.	5.3	40
31	Entrainment of Arteriole Vasomotor Fluctuations by Neural Activity Is a Basis of Blood-Oxygenation-Level-Dependent "Resting-State" Connectivity. Neuron, 2017, 96, 936-948.e3.	8.1	233
32	Detection, risk factors, and functional consequences of cerebral microinfarcts. Lancet Neurology, The, 2017, 16, 730-740.	10.2	225
33	Pericytes as Inducers of Rapid, Matrix Metalloproteinase-9-Dependent Capillary Damage during Ischemia. Journal of Neuroscience, 2017, 37, 129-140.	3.6	143
34	In vivo Optical Imaging and Manipulation of Pericytes in the Mouse Brain. , 2017, , .		2
35	Pericytes as Inducers of Rapid, Matrix Metalloproteinase-9-Dependent Capillary Damage during Ischemia. Journal of Neuroscience, 2017, 37, 129-140.	3.6	16
36	Photothrombotic Induction of Capillary Ischemia in the Mouse Cortex during in vivo Two-Photon Imaging. Bio-protocol, 2017, 7, .	0.4	8

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37	Microvascular basis for growth of small infarcts following occlusion of single penetrating arterioles in mouse cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1357-1373.	4.3	47
38	Robust and Fragile Aspects of Cortical Blood Flow in Relation to the Underlying Angioarchitecture. <i>Microcirculation</i> , 2015, 22, 204-218.	1.8	78
39	Pericyte structure and distribution in the cerebral cortex revealed by high-resolution imaging of transgenic mice. <i>Neurophotonics</i> , 2015, 2, 041402.	3.3	241
40	A Murine Toolbox for Imaging the Neurovascular Unit. <i>Microcirculation</i> , 2015, 22, 168-182.	1.8	39
41	The smallest stroke: occlusion of one penetrating vessel leads to infarction and a cognitive deficit. <i>Nature Neuroscience</i> , 2013, 16, 55-63.	14.8	284
42	Targeted Occlusion of Individual Pial Vessels of Mouse Cortex. <i>Bio-protocol</i> , 2013, 3, .	0.4	9
43	A Polished and Reinforced Thinned-skull Window for Long-term Imaging of the Mouse Brain. <i>Journal of Visualized Experiments</i> , 2012, , .	0.3	104
44	Two-Photon Microscopy as a Tool to Study Blood Flow and Neurovascular Coupling in the Rodent Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 1277-1309.	4.3	405
45	A Guide to Delineate the Logic of Neurovascular Signaling in the Brain. <i>Frontiers in Neuroenergetics</i> , 2011, 3, 1.	5.3	71
46	Fluctuating and sensory-induced vasodynamics in rodent cortex extend arteriole capacity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8473-8478.	7.1	257
47	Photon counting, censor corrections, and lifetime imaging for improved detection in two-photon microscopy. <i>Journal of Neurophysiology</i> , 2011, 105, 3106-3113.	1.8	35
48	Rapid determination of particle velocity from space-time images using the Radon transform. <i>Journal of Computational Neuroscience</i> , 2010, 29, 5-11.	1.0	129
49	Chronic optical access through a polished and reinforced thinned skull. <i>Nature Methods</i> , 2010, 7, 981-984.	19.0	382
50	Topological basis for the robust distribution of blood to rodent neocortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12670-12675.	7.1	158
51	Automatic Identification of Fluorescently Labeled Brain Cells for Rapid Functional Imaging. <i>Journal of Neurophysiology</i> , 2010, 104, 1803-1811.	1.8	53
52	Active Dilation of Penetrating Arterioles Restores Red Blood Cell Flux to Penumbra Neocortex after Focal Stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 738-751.	4.3	125
53	Acute Vascular Disruption and Aquaporin 4 Loss After Stroke. <i>Stroke</i> , 2009, 40, 2182-2190.	2.0	62
54	The glial cell response is an essential component of hypoxia-induced erythropoiesis in mice. <i>Journal of Clinical Investigation</i> , 2009, 119, 3373-83.	8.2	82

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55	Nrf2 gene deletion fails to alter psychostimulant-induced behavior or neurotoxicity. <i>Brain Research</i> , 2007, 1127, 26-35.	2.2	17
56	Dopamine activates Nrf2-regulated neuroprotective pathways in astrocytes and meningeal cells. <i>Journal of Neurochemistry</i> , 2006, 101, 109-119.	3.9	48
57	Two-photon Imaging of Glutathione Levels in Intact Brain Indicates Enhanced Redox Buffering in Developing Neurons and Cells at the Cerebrospinal Fluid and Blood-Brain Interface. <i>Journal of Biological Chemistry</i> , 2006, 281, 17420-17431.	3.4	79
58	Policing the Police: Astrocytes Modulate Microglial Activation. <i>Journal of Neuroscience</i> , 2006, 26, 3887-3888.	3.6	40
59	Cystine/Glutamate Exchange Modulates Glutathione Supply for Neuroprotection from Oxidative Stress and Cell Proliferation. <i>Journal of Neuroscience</i> , 2006, 26, 10514-10523.	3.6	269
60	Induction of the Nrf2-driven Antioxidant Response Confers Neuroprotection during Mitochondrial Stress in Vivo. <i>Journal of Biological Chemistry</i> , 2005, 280, 22925-22936.	3.4	237
61	A Small-Molecule-Inducible Nrf2-Mediated Antioxidant Response Provides Effective Prophylaxis against Cerebral Ischemia <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2005, 25, 10321-10335.	3.6	395
62	NF-E2-related Factor-2 Mediates Neuroprotection against Mitochondrial Complex I Inhibitors and Increased Concentrations of Intracellular Calcium in Primary Cortical Neurons. <i>Journal of Biological Chemistry</i> , 2003, 278, 37948-37956.	3.4	279
63	Coordinate Regulation of Glutathione Biosynthesis and Release by Nrf2-Expressing Glia Potently Protects Neurons from Oxidative Stress. <i>Journal of Neuroscience</i> , 2003, 23, 3394-3406.	3.6	684
64	xCT Cystine Transporter Expression in HEK293 Cells: Pharmacology and Localization. <i>Biochemical and Biophysical Research Communications</i> , 2001, 282, 1132-1137.	2.1	44