

Philbert S Tsai

List of Publications by Year in descending order

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13
papers

2,666
citations

686830

13
h-index

1125271

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g-index

13
all docs

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docs citations

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times ranked

3649
citing authors

#	ARTICLE	IF	CITATIONS
1	Brain Capillary Networks Across Species: A few Simple Organizational Requirements Are Sufficient to Reproduce Both Structure and Function. <i>Frontiers in Physiology</i> , 2019, 10, 233.	1.3	70
2	Pericyte degeneration leads to neurovascular uncoupling and limits oxygen supply to brain. <i>Nature Neuroscience</i> , 2017, 20, 406-416.	7.1	383
3	Entrainment of Arteriole Vasomotor Fluctuations by Neural Activity Is a Basis of Blood-Oxygenation-Level-Dependent "Resting-State" Connectivity. <i>Neuron</i> , 2017, 96, 936-948.e3.	3.8	233
4	The impact of vessel size, orientation and intravascular contribution on the neurovascular fingerprint of BOLD bSSFP fMRI. <i>NeuroImage</i> , 2017, 163, 13-23.	2.1	49
5	The capillary bed offers the largest hemodynamic resistance to the cortical blood supply. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 52-68.	2.4	186
6	Depth-dependent flow and pressure characteristics in cortical microvascular networks. <i>PLoS Computational Biology</i> , 2017, 13, e1005392.	1.5	99
7	Robust and Fragile Aspects of Cortical Blood Flow in Relation to the Underlying Angioarchitecture. <i>Microcirculation</i> , 2015, 22, 204-218.	1.0	78
8	The smallest stroke: occlusion of one penetrating vessel leads to infarction and a cognitive deficit. <i>Nature Neuroscience</i> , 2013, 16, 55-63.	7.1	284
9	The cortical angiome: an interconnected vascular network with noncolumnar patterns of blood flow. <i>Nature Neuroscience</i> , 2013, 16, 889-897.	7.1	471
10	Vectorization of optically sectioned brain microvasculature: Learning aids completion of vascular graphs by connecting gaps and deleting open-ended segments. <i>Medical Image Analysis</i> , 2012, 16, 1241-1258.	7.0	28
11	Correlations of Neuronal and Microvascular Densities in Murine Cortex Revealed by Direct Counting and Colocalization of Nuclei and Vessels. <i>Journal of Neuroscience</i> , 2009, 29, 14553-14570.	1.7	500
12	Plasma-mediated ablation: an optical tool for submicrometer surgery on neuronal and vascular systems. <i>Current Opinion in Biotechnology</i> , 2009, 20, 90-99.	3.3	81
13	All-Optical Histology Using Ultrashort Laser Pulses. <i>Neuron</i> , 2003, 39, 27-41.	3.8	204