

Amy F Smith

List of Publications by Year in descending order

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Version: 2024-02-01

10
papers

540
citations

1163117

8
h-index

1372567

10
g-index

10
all docs

10
docs citations

10
times ranked

835
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of oxygen transport and estimation of tissue perfusion in extensive microvascular networks: Application to cerebral cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 656-669.	4.3	25
2	A hybrid discrete-continuum approach for modelling microcirculatory blood flow. <i>Mathematical Medicine and Biology</i> , 2020, 37, 40-57.	1.2	17
3	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.	2.8	70
4	Neutrophil adhesion in brain capillaries reduces cortical blood flow and impairs memory function in Alzheimer's disease mouse models. <i>Nature Neuroscience</i> , 2019, 22, 413-420.	14.8	316
5	Model-based inference from microvascular measurements: Combining experimental measurements and model predictions using a Bayesian probabilistic approach. <i>Microcirculation</i> , 2017, 24, e12343.	1.8	8
6	Modeling of Cerebral Oxygen Transport Based on In vivo Microscopic Imaging of Microvascular Network Structure, Blood Flow, and Oxygenation. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 82.	2.1	60
7	Microvascular hemodynamics in the chick chorioallantoic membrane. <i>Microcirculation</i> , 2016, 23, 512-522.	1.8	12
8	Structure-Based Algorithms for Microvessel Classification. <i>Microcirculation</i> , 2015, 22, 99-108.	1.8	14
9	Transmural Variation and Anisotropy of Microvascular Flow Conductivity in the Rat Myocardium. <i>Annals of Biomedical Engineering</i> , 2014, 42, 1966-1977.	2.5	16
10	Free streamline flows with singularities. <i>Journal of Fluid Mechanics</i> , 2010, 647, 187-200.	3.4	2