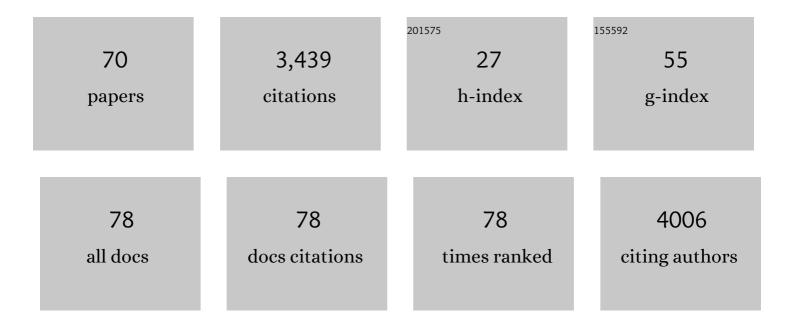
## Sava Sakadžić

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/630720/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Optical measurement of microvascular oxygenation and blood flow responses in awake mouse cortex during functional activation. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 510-525.	2.4	24
2	Intracranial pressure spikes trigger spreading depolarizations. Brain, 2022, 145, 194-207.	3.7	13
3	Cortical Spreading Depolarizations in a Mouse Model of Subarachnoid Hemorrhage. Neurocritical Care, 2022, 37, 123-132.	1.2	5
4	CADASIL mutations sensitize the brain to ischemia via spreading depolarizations and abnormal extracellular potassium homeostasis. Journal of Clinical Investigation, 2022, 132, .	3.9	5
5	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. Neurophotonics, 2022, 9, 013001.	1.7	17
6	Rho-Kinase Inhibition Improves the Outcome of Focal Subcortical White Matter Lesions. Stroke, 2022, 53, 2369-2376.	1.0	1
7	Effects of voluntary exercise on cerebral microcirculation and oxygenation in aged mice. , 2022, , .		Ο
8	Dynamic capillary stalls in reperfused ischemic penumbra contribute to injury: A hyperacute role for neutrophils in persistent traffic jams. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 236-252.	2.4	73
9	Simulation of oxygen transport and estimation of tissue perfusion in extensive microvascular networks: Application to cerebral cortex. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 656-669.	2.4	25
10	Quantification of Capillary Perfusion in an Animal Model of Acute Intracranial Hypertension. Journal of Neurotrauma, 2021, 38, 446-454.	1.7	5
11	Subarachnoid hemorrhage leads to early and persistent functional connectivity and behavioral changes in mice. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 975-985.	2.4	18
12	Rapid hematoma growth triggers spreading depolarizations in experimental intracortical hemorrhage. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 1264-1276.	2.4	6
13	Quantifying Intestinal Capillary Oxygenation Using Twoâ€photon Phosphorescence Lifetime Microscopy. FASEB Journal, 2021, 35, .	0.2	0
14	Focal Subcortical White Matter Lesions Disrupt Resting State Cortical Interhemispheric Functional Connectivity in Mice. Cerebral Cortex, 2021, 31, 4958-4969.	1.6	1
15	A suite of neurophotonic tools to underpin the contribution of internal brain states in fMRI. Current Opinion in Biomedical Engineering, 2021, 18, 100273.	1.8	6
16	Circadian Biology and Stroke. Stroke, 2021, 52, 2180-2190.	1.0	38
17	Quantitation of cerebral oxygen tension using phasor analysis and phosphorescence lifetime imaging microscopy (PLIM). Biomedical Optics Express, 2021, 12, 4192.	1.5	2
18	Fourier-Based Quantification of Cerebral Oxygen Pressure Using Phosphorescence Lifetime		0

Microscopy., 2021,,.

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19	Differential effects of anesthetics on resting state functional connectivity in the mouse. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 875-884.	2.4	32
20	Neurovascular coupling during optogenetic functional activation: Local and remote stimulus-response characteristics, and uncoupling by spreading depression. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 808-822.	2.4	17
21	Two-photon microscopic imaging of capillary red blood cell flux in mouse brain reveals vulnerability of cerebral white matter to hypoperfusion. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 501-512.	2.4	38
22	The mass transfer coefficient for oxygen transport from blood to tissue in cerebral cortex. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1634-1646.	2.4	13
23	<i>In vivo</i> deep-tissue microscopy with UCNP/Janus-dendrimers as imaging probes: resolution at depth and feasibility of ratiometric sensing. Nanoscale, 2020, 12, 2657-2672.	2.8	18
24	Peri-Infarct Hot-Zones Have Higher Susceptibility to Optogenetic Functional Activation-Induced Spreading Depolarizations. Stroke, 2020, 51, 2526-2535.	1.0	7
25	Potential circadian effects on translational failure for neuroprotection. Nature, 2020, 582, 395-398.	13.7	85
26	Interferometric diffuse correlation spectroscopy improves measurements at long source–detector separation and low photon count rate. Journal of Biomedical Optics, 2020, 25, .	1.4	21
27	Anatomical Modeling of Brain Vasculature in Two-Photon Microscopy by Generalizable Deep Learning. BME Frontiers, 2020, 2020, .	2.2	7
28	The Problem of Estimating Tissue Perfusion from Observations of Microvascular Flow. FASEB Journal, 2020, 34, 1-1.	0.2	0
29	Characterization of continuous wave ultrasound for acousto-optic modulated diffuse correlation spectroscopy (AOM-DCS). Biomedical Optics Express, 2020, 11, 3071.	1.5	14
30	Spatially resolved estimation of metabolic oxygen consumption from optical measurements in cortex. Neurophotonics, 2020, 7, 035005.	1.7	4
31	Long-Term Monitoring of Capillary Flow to Measure Hypoxic Effects of Capillary Flow Disruptions. , 2020, , .		0
32	cGMP-dependent protein kinase I in vascular smooth muscle cells improves ischemic stroke outcome in mice. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 2379-2391.	2.4	8
33	Atherosclerosis is associated with a decrease in cerebral microvascular blood flow and tissue oxygenation. PLoS ONE, 2019, 14, e0221547.	1.1	12
34	Dependence of the MR signal on the magnetic susceptibility of blood studied with models based on real microvascular networks. Magnetic Resonance in Medicine, 2019, 81, 3865-3874.	1.9	12
35	Awake Mouse Imaging: From Two-Photon Microscopy to Blood Oxygen Level–Dependent Functional Magnetic Resonance Imaging. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2019, 4, 533-542.	1.1	49
36	Determinants of Optogenetic Cortical Spreading Depolarizations. Cerebral Cortex, 2019, 29, 1150-1161.	1.6	35

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37	More homogeneous capillary flow and oxygenation in deeper cortical layers correlate with increased oxygen extraction. ELife, 2019, 8, .	2.8	68
38	Intrinsic optical signal imaging of the blood volume changes is sufficient for mapping the resting state functional connectivity in the rodent cortex. Journal of Neural Engineering, 2018, 15, 035003.	1.8	34
39	Shearâ€induced diffusion of red blood cells measured with dynamic light scatteringâ€optical coherence tomography. Journal of Biophotonics, 2018, 11, e201700070.	1.1	28
40	Real-time non-invasive in vivo visible light detection of cortical spreading depolarizations in mice. Journal of Neuroscience Methods, 2018, 309, 143-146.	1.3	30
41	Two-photon phosphorescence lifetime microscopy of retinal capillary plexus oxygenation in mice. Journal of Biomedical Optics, 2018, 23, 1.	1.4	6
42	Cerebral metabolism in a mouse model of Alzheimer's disease characterized by two-photon fluorescence lifetime microscopy of intrinsic NADH. Neurophotonics, 2018, 5, 1.	1.7	16
43	Phasor analysis of NADH FLIM identifies pharmacological disruptions to mitochondrial metabolic processes in the rodent cerebral cortex. PLoS ONE, 2018, 13, e0194578.	1.1	20
44	Magnetic resonance fingerprinting based on realistic vasculature in mice. NeuroImage, 2017, 149, 436-445.	2.1	17
45	Pericyte degeneration leads to neurovascular uncoupling and limits oxygen supply to brain. Nature Neuroscience, 2017, 20, 406-416.	7.1	383
46	Modelâ€based inference from microvascular measurements: Combining experimental measurements and model predictions using a Bayesian probabilistic approach. Microcirculation, 2017, 24, e12343.	1.0	8
47	Fluorescence lifetime microscopy of NADH distinguishes alterations in cerebral metabolism in vivo. Biomedical Optics Express, 2017, 8, 2368.	1.5	60
48	Modeling of Cerebral Oxygen Transport Based on In vivo Microscopic Imaging of Microvascular Network Structure, Blood Flow, and Oxygenation. Frontiers in Computational Neuroscience, 2016, 10, 82.	1.2	60
49	Cell type specificity of neurovascular coupling in cerebral cortex. ELife, 2016, 5, .	2.8	176
50	The roadmap for estimation of cell-type-specific neuronal activity from non-invasive measurements. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150356.	1.8	41
51	Validation and optimization of hypercapnic-calibrated fMRI from oxygen-sensitive two-photon microscopy. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150359.	1.8	27
52	Two-photon microscopy measurement of cerebral metabolic rate of oxygen using periarteriolar oxygen concentration gradients. Neurophotonics, 2016, 3, 045005.	1.7	39
53	Establishing the diffuse correlation spectroscopy signal relationship with blood flow. Neurophotonics, 2016, 3, 031412.	1.7	131
54	CD200 restrains macrophage attack on oligodendrocyte precursors via toll-like receptor 4 downregulation. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 781-793.	2.4	35

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55	Effect of electrical forepaw stimulation on capillary transit-time heterogeneity (CTH). Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 2072-2086.	2.4	64
56	Multimodal reconstruction of microvascular-flow distributions using combined two-photon microscopy and Doppler optical coherence tomography. Neurophotonics, 2015, 2, 015008.	1.7	28
57	Supply-Demand Mismatch Transients in Susceptible Peri-infarct Hot Zones Explain the Origins of Spreading Injury Depolarizations. Neuron, 2015, 85, 1117-1131.	3.8	154
58	Quantifying the Microvascular Origin of BOLD-fMRI from First Principles with Two-Photon Microscopy and an Oxygen-Sensitive Nanoprobe. Journal of Neuroscience, 2015, 35, 3663-3675.	1.7	196
59	High-resolution in vivo optical imaging of stroke injury and repair. Brain Research, 2015, 1623, 174-192.	1.1	36
60	At Long Last, PAT Hats for the Lab Rats. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1223-1223.	2.4	1
61	Multimodal optical imaging system for in vivo investigation of cerebral oxygen delivery and energy metabolism. Biomedical Optics Express, 2015, 6, 4994.	1.5	31
62	Large arteriolar component of oxygen delivery implies a safe margin of oxygen supply to cerebral tissue. Nature Communications, 2014, 5, 5734.	5.8	165
63	Cerebral Blood Oxygenation Measurement Based on Oxygen-dependent Quenching of Phosphorescence. Journal of Visualized Experiments, 2011, , .	0.2	17
64	"Overshoot―of O <sub>2</sub> Is Required to Maintain Baseline Tissue Oxygenation at Locations Distal to Blood Vessels. Journal of Neuroscience, 2011, 31, 13676-13681.	1.7	175
65	Two-photon high-resolution measurement of partial pressure of oxygen in cerebral vasculature and tissue. Nature Methods, 2010, 7, 755-759.	9.0	415
66	Recent advances in Cr: Colquiriite laser technology. , 2009, , .		0
67	Optical monitoring of oxygen tension in cortical microvessels with confocal microscopy. Optics Express, 2009, 17, 22341.	1.7	58
68	Simultaneous imaging of cerebral partial pressure of oxygen and blood flow during functional activation and cortical spreading depression. Applied Optics, 2009, 48, D169.	2.1	58
69	Dendritic Phosphorescent Probes for Oxygen Imaging in Biological Systems. ACS Applied Materials & Interfaces, 2009, 1, 1292-1304.	4.0	194
70	Multi-photon microscopy with a low-cost and highly efficient Cr:LiCAF laser. Optics Express, 2008, 16, 20848.	1.7	46