

# Nozomi Nishimura

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76  
papers

4,136  
citations

29  
h-index

64  
g-index

114  
ext. papers

5,265  
ext. citations

7.3  
avg, IF

5.15  
L-index

#	Paper	IF	Citations
76	Differential regulation of progranulin derived granulin peptides.. <i>Molecular Neurodegeneration</i> , <b>2022</b> , 17, 15	19	1
75	Neurological and Inflammatory Effects of Radio Frequency and Cryoablation in a Rat Sciatic Nerve Model of Submucosal Nerve Ablation.. <i>American Journal of Rhinology and Allergy</i> , <b>2022</b> , 19458924221099377	3.4	0
74	Genetically engineered mice for combinatorial cardiovascular optobiology. <i>ELife</i> , <b>2021</b> , 10,	8.9	1
73	Causes and consequences of baseline cerebral blood flow reductions in Alzheimer's disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2021</b> , 41, 1501-1516	7.3	12
72	High fat diet worsens Alzheimer's disease-related behavioral abnormalities and neuropathology in APP/PS1 mice, but not by synergistically decreasing cerebral blood flow. <i>Scientific Reports</i> , <b>2020</b> , 10, 9884	4.9	21
71	Intravital Microscopy of the Beating Murine Heart to Understand Cardiac Leukocyte Dynamics. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 92	8.4	7
70	Hyperspectral multiphoton microscopy for visualization of multiple, spectrally overlapped fluorescent labels. <i>Optica</i> , <b>2020</b> , 7, 1587-1601	8.6	12
69	Intravital Multiphoton Microscopy of the Beating Mouse Heart Reveals Altered Cardiomyocyte Contraction Dynamics and Increased Microvascular Patrolling by Leukocytes during Cardiac Hypertrophy. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
68	Microvessel occlusions alter amyloid-beta plaque morphology in a mouse model of Alzheimer's disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2020</b> , 40, 2115-2131	7.3	5
67	A topological encoding convolutional neural network for segmentation of 3D multiphoton images of brain vasculature using persistent homology. <i>IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops</i> , <b>2020</b> , 2020, 4262-4271	1.3	5
66	Special topic section: linkages among cerebrovascular, cardiovascular, and cognitive disorders: Preventing dementia by preventing stroke: The Berlin Manifesto. <i>International Journal of Stroke</i> , <b>2019</b> , 1747493019871915	6.3	8
65	Endothelial cells promote 3D invasion of GBM by IL-8-dependent induction of cancer stem cell properties. <i>Scientific Reports</i> , <b>2019</b> , 9, 9069	4.9	45
64	Brain Capillary Networks Across Species: A few Simple Organizational Requirements Are Sufficient to Reproduce Both Structure and Function. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 233	4.6	29
63	Deep convolutional neural networks for segmenting 3D in vivo multiphoton images of vasculature in Alzheimer disease mouse models. <i>PLoS ONE</i> , <b>2019</b> , 14, e0213539	3.7	29
62	Aspirin treatment does not increase microhemorrhage size in young or aged mice. <i>PLoS ONE</i> , <b>2019</b> , 14, e0204295	3.7	2
61	Neutrophil adhesion in brain capillaries reduces cortical blood flow and impairs memory function in Alzheimer's disease mouse models. <i>Nature Neuroscience</i> , <b>2019</b> , 22, 413-420	25.5	152
60	Preventing dementia by preventing stroke: The Berlin Manifesto. <i>Alzheimers and Dementia</i> , <b>2019</b> , 15, 961-984	1.2	113

59	Advanced Circuit and Cellular Imaging Methods in Nonhuman Primates. <i>Journal of Neuroscience</i> , <b>2019</b> , 39, 8267-8274	6.6	12
58	Computed optical coherence microscopy of mouse brain ex vivo. <i>Journal of Biomedical Optics</i> , <b>2019</b> , 24, 1-18	3.5	4
57	In Vivo Multiphoton Microscopy of the Beating Mouse Heart in Health and Disease <b>2019</b> ,		1
56	Comparison of convolutional neural and fully convolutional networks for segmentation of 3D in vivo multiphoton microscopy images of brain vasculature <b>2019</b> ,		1
55	An intravital window to image the colon in real time. <i>Nature Communications</i> , <b>2019</b> , 10, 5647	17.4	13
54	In Vivo Femtosecond Laser Subsurface Cortical Microtransections Attenuate Acute Rat Focal Seizures. <i>Cerebral Cortex</i> , <b>2019</b> , 29, 3415-3426	5.1	2
53	Label-free imaging of atherosclerotic plaques using third-harmonic generation microscopy. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 214-229	3.5	9
52	Intestinal crypts recover rapidly from focal damage with coordinated motion of stem cells that is impaired by aging. <i>Scientific Reports</i> , <b>2018</b> , 8, 10989	4.9	14
51	Calcium Imaging of Cardiomyocytes in the Beating Mouse Heart With Multiphoton Microscopy. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 969	4.6	22
50	Experimentally constrained circuit model of cortical arteriole networks for understanding flow redistribution due to occlusion and neural activation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2018</b> , 38, 38-44	7.3	5
49	Diverse Inflammatory Response After Cerebral Microbleeds Includes Coordinated Microglial Migration and Proliferation. <i>Stroke</i> , <b>2018</b> , 49, 1719-1726	6.7	27
48	In vivo three-photon imaging of activity of GCaMP6-labeled neurons deep in intact mouse brain. <i>Nature Methods</i> , <b>2017</b> , 14, 388-390	21.6	265
47	A Notch positive feedback in the intestinal stem cell niche is essential for stem cell self-renewal. <i>Molecular Systems Biology</i> , <b>2017</b> , 13, 927	12.2	29
46	Impaired prosaposin lysosomal trafficking in frontotemporal lobar degeneration due to progranulin mutations. <i>Nature Communications</i> , <b>2017</b> , 8, 15277	17.4	53
45	Simultaneous optical and electrical in vivo analysis of the enteric nervous system. <i>Nature Communications</i> , <b>2016</b> , 7, 11800	17.4	39
44	In-Vivo Three-Photon Excited Fluorescence Imaging in the Spinal Cord of Awake, Locomoting Mouse <b>2016</b> ,		1
43	A circuit motif in the zebrafish hindbrain for a two alternative behavioral choice to turn left or right. <i>ELife</i> , <b>2016</b> , 5,	8.9	33
42	Higher-Order Multiphoton Microscopy of the Beating Mouse Heart Using Resonant Scanning <b>2016</b> ,		2

41	Growth and hemodynamics after early embryonic aortic arch occlusion. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2015</b> , 14, 735-51	3.8	23
40	Robust and fragile aspects of cortical blood flow in relation to the underlying angioarchitecture. <i>Microcirculation</i> , <b>2015</b> , 22, 204-218	2.9	62
39	Use of Tethered Enzymes as a Platform Technology for Rapid Analyte Detection. <i>PLoS ONE</i> , <b>2015</b> , 10, e0142326	3.7	5
38	In vivo Three Photon Imaging of Neuronal Activities from Hippocampus in Intact Mouse Brain. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1721-1722	0.5	
37	A mathematical model relating cortical oxygenated and deoxygenated hemoglobin flows and volumes to neural activity. <i>Journal of Neural Engineering</i> , <b>2015</b> , 12, 046013	5	
36	Comprehensive models of human primary and metastatic colorectal tumors in immunodeficient and immunocompetent mice by chemokine targeting. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 656-60	44.5	25
35	Stalled cerebral capillary blood flow in mouse models of essential thrombocythemia and polycythemia vera revealed by in vivo two-photon imaging. <i>Journal of Thrombosis and Haemostasis</i> , <b>2014</b> , 12, 2120-30	15.4	30
34	In Vivo Three-photon Calcium Imaging of Brain Activity from Layer 6 Neurons in Mouse Brain <b>2014</b> ,		10
33	Mechanistic insight into the TH1-biased immune response to recombinant subunit vaccines delivered by probiotic bacteria-derived outer membrane vesicles. <i>PLoS ONE</i> , <b>2014</b> , 9, e112802	3.7	33
32	Optoporation and genetic manipulation of cells using femtosecond laser pulses. <i>Biophysical Journal</i> , <b>2013</b> , 105, 862-71	2.9	47
31	Big effects from tiny vessels: imaging the impact of microvascular clots and hemorrhages on the brain. <i>Stroke</i> , <b>2013</b> , 44, S90-2	6.7	14
30	Three-photon excited fluorescence imaging of unstained tissue using a GRIN lens endoscope. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 652-8	3.5	31
29	Optically induced occlusion of single blood vessels in rodent neocortex. <i>Cold Spring Harbor Protocols</i> , <b>2013</b> , 2013, 1153-60	1.2	11
28	Stimulus-evoked calcium transients in somatosensory cortex are temporarily inhibited by a nearby microhemorrhage. <i>PLoS ONE</i> , <b>2013</b> , 8, e65663	3.7	25
27	Real-time imaging of perivascular transport of nanoparticles during convection-enhanced delivery in the rat cortex. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 292-303	4.7	35
26	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> , <b>2012</b> , 32, 1277-309	7.3	288
25	In vivo two-photon excited fluorescence microscopy reveals cardiac- and respiration-dependent pulsatile blood flow in cortical blood vessels in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2012</b> , 302, H1367-77	5.2	95
24	Cortical microhemorrhages cause local inflammation but do not trigger widespread dendrite degeneration. <i>PLoS ONE</i> , <b>2011</b> , 6, e26612	3.7	56

23	Sub-surface, micrometer-scale incisions produced in rodent cortex using tightly-focused femtosecond laser pulses. <i>Lasers in Surgery and Medicine</i> , <b>2011</b> , 43, 382-91	3.6	10
22	Preictal and ictal neurovascular and metabolic coupling surrounding a seizure focus. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 13292-300	6.6	87
21	Occlusion of cortical ascending venules causes blood flow decreases, reversals in flow direction, and vessel dilation in upstream capillaries. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2011</b> , 31, 2243-54	7.3	64
20	Age-related intimal stiffening enhances endothelial permeability and leukocyte transmigration. <i>Science Translational Medicine</i> , <b>2011</b> , 3, 112ra122	17.5	254
19	Limitations of collateral flow after occlusion of a single cortical penetrating arteriole. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2010</b> , 30, 1914-27	7.3	88
18	In vivo deep tissue imaging with long wavelength multiphoton excitation <b>2010</b> ,		1
17	Two-photon microscopy-guided femtosecond-laser photoablation of avian cardiogenesis: noninvasive creation of localized heart defects. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2010</b> , 299, H1728-35	5.2	29
16	Stimulus-Evoked Calcium Transients in Somatosensory Cortex are Inhibited After a Nearby Microhemorrhage <b>2010</b> ,		1
15	In Vivo Imaging of Cerebral Circulation In Mouse Models of Polycythemia Vera. <i>Blood</i> , <b>2010</b> , 116, 4091-4091		
14	Flexible microfluidic devices supported by biodegradable insertion scaffolds for convection-enhanced neural drug delivery. <i>Biomedical Microdevices</i> , <b>2009</b> , 11, 915-24	3.7	50
13	Deep tissue multiphoton microscopy using longer wavelength excitation. <i>Optics Express</i> , <b>2009</b> , 17, 13354-64	5.64	391
12	Suppressed neuronal activity and concurrent arteriolar vasoconstriction may explain negative blood oxygenation level-dependent signal. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 4452-9	6.6	307
11	Penetrating arterioles are a bottleneck in the perfusion of neocortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 365-70	11.5	268
10	Two-photon imaging of cortical surface microvessels reveals a robust redistribution in blood flow after vascular occlusion. <i>PLoS Biology</i> , <b>2006</b> , 4, e22	9.7	274
9	In vivo manipulation of biological systems with femtosecond laser pulses <b>2006</b> ,		7
8	Targeted insult to subsurface cortical blood vessels using ultrashort laser pulses: three models of stroke. <i>Nature Methods</i> , <b>2006</b> , 3, 99-108	21.6	235
7	All-optical thrombotic stroke model for near-surface blood vessels in rat: focal illumination of exogenous photosensitizers combined with real-time two-photon imaging <b>2003</b> ,		1
6	Principles, Design, and Construction of a Two-Photon Laser-Scanning Microscope for In Vitro and In Vivo Brain Imaging. <i>Frontiers in Neuroscience</i> , <b>2002</b> ,		16

5	Dynamics of femtosecond laser-induced breakdown in water from femtoseconds to microseconds. <i>Optics Express</i> , <b>2002</b> , 10, 196-203	3-3	191
4	Laser-induced microexplosions in transparent materials: microstructuring with nanojoules <b>1999</b> ,		6
3	Thresholds for femtosecond laser-induced breakdown in bulk transparent solids and water <b>1998</b> , 3451, 2		12
2	Ultrafast laser-induced microexplosions: explosive dynamics and submicrometer structures <b>1998</b> , 3269, 36		15
1	Minimally disruptive laser-induced breakdown in water. <i>Optics Letters</i> , <b>1997</b> , 22, 1817-9	3	58