

Martin Thunemann

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,625
citations

361045

20
h-index

315357

38
g-index

64
all docs

64
docs citations

64
times ranked

2868
citing authors

#	ARTICLE	IF	CITATIONS
1	Microglia turnover with aging and in an Alzheimer's model via long-term in vivo single-cell imaging. <i>Nature Neuroscience</i> , 2017, 20, 1371-1376.	7.1	277
2	Cell type specificity of neurovascular coupling in cerebral cortex. <i>ELife</i> , 2016, 5, .	2.8	176
3	Deep 2-photon imaging and artifact-free optogenetics through transparent graphene microelectrode arrays. <i>Nature Communications</i> , 2018, 9, 2035.	5.8	143
4	Anemia and splenomegaly in cGKI-deficient mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6771-6776.	3.3	135
5	Intercellular signaling via cyclic GMP diffusion through gap junctions restarts meiosis in mouse ovarian follicles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5527-5532.	3.3	134
6	Transgenic Mice for cGMP Imaging. <i>Circulation Research</i> , 2013, 113, 365-371.	2.0	66
7	Sildenafil Potentiates a cGMP-Dependent Pathway to Promote Melanoma Growth. <i>Cell Reports</i> , 2016, 14, 2599-2610.	2.9	58
8	Selective Formation of Porous Pt Nanorods for Highly Electrochemically Efficient Neural Electrode Interfaces. <i>Nano Letters</i> , 2019, 19, 6244-6254.	4.5	51
9	Awake Mouse Imaging: From Two-Photon Microscopy to Blood Oxygen Level-Dependent Functional Magnetic Resonance Imaging. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 533-542.	1.1	49
10	The roadmap for estimation of cell-type-specific neuronal activity from non-invasive measurements. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150356.	1.8	41
11	<i>In Vivo</i> Two-Photon Voltage Imaging with Sulfonated Rhodamine Dyes. <i>ACS Central Science</i> , 2018, 4, 1371-1378.	5.3	41
12	Two-photon microscopic imaging of capillary red blood cell flux in mouse brain reveals vulnerability of cerebral white matter to hypoperfusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 501-512.	2.4	38
13	Monolithic and Scalable Au Nanorod Substrates Improve PEDOT-Metal Adhesion and Stability in Neural Electrodes. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800923.	3.9	35
14	Cre/lox-assisted non-invasive in vivo tracking of specific cell populations by positron emission tomography. <i>Nature Communications</i> , 2017, 8, 444.	5.8	33
15	A shear-dependent NO-cGMP-cGKI cascade in platelets acts as an auto-regulatory brake of thrombosis. <i>Nature Communications</i> , 2018, 9, 4301.	5.8	32
16	Correlation Structure in Micro-EECoG Recordings is Described by Spatially Coherent Components. <i>PLoS Computational Biology</i> , 2019, 15, e1006769.	1.5	32
17	Noninvasive Nuclear Imaging Enables the In Vivo Quantification of Striatal Dopamine Receptor Expression and Raclopride Affinity in Mice. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1133-1141.	2.8	29
18	Visualization of cGMP with cGi Biosensors. <i>Methods in Molecular Biology</i> , 2013, 1020, 89-120.	0.4	28

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19	H2O2 lowers the cytosolic Ca ²⁺ concentration via activation of cGMP-dependent protein kinase $\hat{I}\pm$. Free Radical Biology and Medicine, 2012, 53, 1574-1583.	1.3	27
20	Chronic Cranial Windows for Long Term Multimodal Neurovascular Imaging in Mice. Frontiers in Physiology, 2020, 11, 612678.	1.3	25
21	Correlative intravital imaging of cGMP signals and vasodilation in mice. Frontiers in Physiology, 2014, 5, 394.	1.3	21
22	Scalable Thousand Channel Penetrating Microneedle Arrays on Flex for Multimodal and Large Area Coverage BrainMachine Interfaces. Advanced Functional Materials, 2022, 32, .	7.8	19
23	Phosphorescent Pt(<i>scp</i>) complexes spatially arrayed in micellar polymeric nanoparticles providing dual readout for multimodal imaging. Chemical Communications, 2019, 55, 501-504.	2.2	18
24	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. Neurophotonics, 2022, 9, 013001.	1.7	17
25	Efficient non-degenerate two-photon excitation for fluorescence microscopy. Optics Express, 2019, 27, 28022.	1.7	16
26	Genetic Inducible Fate Mapping in Adult Mice Using Tamoxifen-Dependent Cre Recombinases. Methods in Molecular Biology, 2014, 1194, 113-139.	0.4	13
27	<i>Endless</i> : A Purine-binding RNA Motif that Can Be Expressed in Cells. Angewandte Chemie - International Edition, 2014, 53, 9198-9202.	7.2	11
28	Measurement of the relative non-degenerate two-photon absorption cross-section for fluorescence microscopy. Optics Express, 2019, 27, 8335.	1.7	10
29	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
30	Apolipoprotein E derived from CD11c+ cells ameliorates atherosclerosis. Science, 2022, 25, 103677.	1.9	5
31	Upon the photostability of 8-nitro-cGMP and its caging as a 7-dimethylaminocoumarinyl ester. Chemical Communications, 2014, 50, 7120.	2.2	4
32	Neurovascular Network Explorer 2.0: A Database of 2-Photon Single-Vessel Diameter Measurements from Mouse SI Cortex in Response To Optogenetic Stimulation. Frontiers in Neuroinformatics, 2017, 11, 4.	1.3	4
33	Impact of Brain Surface Boundary Conditions on Electrophysiology and Implications for Electrooculography. Frontiers in Neuroscience, 2020, 14, 763.	1.4	3
34	All-Optical Electrophysiology in hiPSC-Derived Neurons With Synthetic Voltage Sensors. Frontiers in Cellular Neuroscience, 2021, 15, 671549.	1.8	3
35	A flexible head fixation system for optical imaging and electrophysiology in awake mice. , 2020, , .		3
36	Analysis of cGMP signalling with transgenic mice expressing FRET-based cGMP sensors. BMC Pharmacology & Toxicology, 2013, 14, .	1.0	1

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37	Chronic 2-photon calcium imaging through transparent PEDOT:PSS microelectrode arrays in awake mice. , 2020, , .		1
38	Does Light Propagate Better Along Pyramidal Apical Dendrites in Cerebral Cortex?. , 2018, , .		1
39	Estimation of Cortical Oxygen Metabolism in Awake Mice using Two-photon Imaging of Oxyphor 2P. , 2020, , .		1
40	Cyclic GMP-mediated intercellular communication in mammalian ovarian follicles. BMC Pharmacology & Toxicology, 2013, 14, .	1.0	0
41	A CNP-cGMP-cGKI-MAPK pathway promotes melanoma growth in vitro and in vivo in mice. BMC Pharmacology & Toxicology, 2015, 16, .	1.0	0
42	Correlation of vascular smooth muscle cell phenotype and cGMP signalling. BMC Pharmacology & Toxicology, 2015, 16, .	1.0	0
43	Comparative analysis of established and new biosensors for cyclic nucleotides. BMC Pharmacology & Toxicology, 2015, 16, .	1.0	0
44	Real-time imaging of cGMP signals in platelets. BMC Pharmacology & Toxicology, 2015, 16, .	1.0	0
45	Neurovascular Network Explorer 2.0: A Simple Tool for Exploring and Sharing a Database of Optogenetically-evoked Vasomotion in Mouse Cortex In Vivo. Journal of Visualized Experiments, 2018, , .	0.2	0
46	Advantages of Non-degenerate Two-photon Microscopy for Deep Tissue Imaging. Biophysical Journal, 2020, 118, 311a.	0.2	0
47	Two-photon microscopic measurements of the effect of bilateral carotid artery stenosis on the cerebral and retinal microcirculation. , 2021, , .		0
48	Chronic 2-photon imaging through a wearable PEDOT:PSS neurointerface. , 2021, , .		0
49	Transparent neural interface for in vivo interrogation of human organoids. , 2021, , .		0
50	Two-photon microscopic imaging of the circadian rhythm induced changes in the cerebral microvascular blood flow. , 2021, , .		0
51	Implementation of Deep 2-Photon Microscopy and Optogenetics to Dissect Cell-Type-Specific Mechanisms of Cerebrovascular Regulation. , 2017, , .		0
52	In Vivo Brain Imaging with Non-Degenerate 2-Photon Microscopy. , 2018, , .		0
53	Predictability of non-degenerate two-photon absorption spectra (Conference Presentation). , 2019, , .		0
54	Increased penetration depth by non-degenerate two-photon microscopy. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
55	BOLD fMRI in Mice with Large-Scale Optical Cranial Windows. , 2021, , .		0
56	Overcoming the Fundamental Limit of Two-Photon Microscopy With Non-Degenerate Excitation. , 2020, , .		0
57	All-Optical Electrophysiology in iPSC-Derived Neurons with Synthetic NIR Voltage Reporter. , 2020, , .		0
58	Multimodal Monitoring of Human Brain Organoids Implanted in Mice Using Transparent Microelectrodes. , 2021, , .		0