

# Axel Nimmerjahn

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

12,105  
citations

257357

24  
h-index

377752

34  
g-index

39  
all docs

39  
docs citations

39  
times ranked

15663  
citing authors

#	ARTICLE	IF	CITATIONS
1	A perspective on astrocyte regulation of neural circuit function and animal behavior. <i>Glia</i> , 2022, 70, 1554-1580.	2.5	18
2	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. <i>Neurophotonics</i> , 2022, 9, 013001.	1.7	17
3	Astrocyte regulation of neural circuit function and animal behavior. <i>Glia</i> , 2022, 70, 1453-1454.	2.5	2
4	Single-domain near-infrared protein provides a scaffold for antigen-dependent fluorescent nanobodies. <i>Nature Methods</i> , 2022, 19, 740-750.	9.0	18
5	Electro-optical mechanically flexible coaxial microprobes for minimally invasive interfacing with intrinsic neural circuits. <i>Nature Communications</i> , 2022, 13, .	5.8	8
6	Microglia use TAM receptors to detect and engulf amyloid $\beta$ plaques. <i>Nature Immunology</i> , 2021, 22, 586-594.	7.0	228
7	Neural Stem Cell Grafts Form Extensive Synaptic Networks that Integrate with Host Circuits after Spinal Cord Injury. <i>Cell Stem Cell</i> , 2020, 27, 430-440.e5.	5.2	108
8	Monitoring neuronal health. <i>Science</i> , 2020, 367, 510-511.	6.0	3
9	Imaging neuromodulators with high spatiotemporal resolution using genetically encoded indicators. <i>Nature Protocols</i> , 2019, 14, 3471-3505.	5.5	33
10	Editorial for "In vivo spinal cord imaging in health, injury and disease". <i>Experimental Neurology</i> , 2019, 322, 113038.	2.0	0
11	Imaging spinal cord activity in behaving animals. <i>Experimental Neurology</i> , 2019, 320, 112974.	2.0	24
12	Ultrafast neuronal imaging of dopamine dynamics with designed genetically encoded sensors. <i>Science</i> , 2018, 360, .	6.0	773
13	Phosphatidylserine Exposure Controls Viral Innate Immune Responses by Microglia. <i>Neuron</i> , 2017, 93, 574-586.e8.	3.8	64
14	TAM receptors regulate multiple features of microglial physiology. <i>Nature</i> , 2016, 532, 240-244.	13.7	441
15	Imaging large-scale cellular activity in spinal cord of freely behaving mice. <i>Nature Communications</i> , 2016, 7, 11450.	5.8	104
16	Large-scale recording of astrocyte activity. <i>Current Opinion in Neurobiology</i> , 2015, 32, 95-106.	2.0	56
17	Stepwise Recruitment of Transcellular and Paracellular Pathways Underlies Blood-Brain Barrier Breakdown in Stroke. <i>Neuron</i> , 2014, 82, 603-617.	3.8	489
18	The Challenge of Connecting the Dots in the B.R.A.I.N.. <i>Neuron</i> , 2013, 80, 270-274.	3.8	73

#	ARTICLE	IF	CITATIONS
19	Two-Photon Imaging of Microglia in the Mouse Cortex In Vivo. Cold Spring Harbor Protocols, 2012, 2012, pdb.prot069294.	0.2	31
20	Optical Window Preparation for Two-Photon Imaging of Microglia in Mice: Figure 1.. Cold Spring Harbor Protocols, 2012, 2012, pdb.prot069286.	0.2	14
21	Surgical Implantation of a Head Plate in Mice in Preparation for In Vivo Two-Photon Imaging of Microglia: Figure 1.. Cold Spring Harbor Protocols, 2012, 2012, pdb.prot069278.	0.2	4
22	Functional imaging in freely moving animals. Current Opinion in Neurobiology, 2012, 22, 45-53.	2.0	58
23	Miniaturized integration of a fluorescence microscope. Nature Methods, 2011, 8, 871-878.	9.0	962
24	The Role of Microglia in the Healthy Brain: Figure 1.. Journal of Neuroscience, 2011, 31, 16064-16069.	1.7	800
25	Astrocytes going live: advances and challenges. Journal of Physiology, 2009, 587, 1639-1647.	1.3	84
26	Motor Behavior Activates Bergmann Glial Networks. Neuron, 2009, 62, 400-412.	3.8	272
27	Automated Analysis of Cellular Signals from Large-Scale Calcium Imaging Data. Neuron, 2009, 63, 747-760.	3.8	616
28	High-speed, miniaturized fluorescence microscopy in freely moving mice. Nature Methods, 2008, 5, 935-938.	9.0	352
29	Resting Microglial Cells Are Highly Dynamic Surveillants of Brain Parenchyma in Vivo. Science, 2005, 308, 1314-1318.	6.0	4,723
30	In Vivo Calcium Imaging of Circuit Activity in Cerebellar Cortex. Journal of Neurophysiology, 2005, 94, 1636-1644.	0.9	116
31	Sulforhodamine 101 as a specific marker of astroglia in the neocortex in vivo. Nature Methods, 2004, 1, 31-37.	9.0	736
32	Lentivirus-based genetic manipulations of cortical neurons and their optical and electrophysiological monitoring in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 18206-18211.	3.3	436
33	Sindbis vector SINrep(nsP2S726): a tool for rapid heterologous expression with attenuated cytotoxicity in neurons. Journal of Neuroscience Methods, 2004, 133, 81-90.	1.3	70
34	Distortion-free delivery of nanojoule femtosecond pulses from a Ti:sapphire laser through a hollow-core photonic crystal fiber. Optics Letters, 2004, 29, 1285.	1.7	109
35	Miniaturized two-photon microscope based on a flexible coherent fiber bundle and a gradient-index lens objective. Optics Letters, 2004, 29, 2521.	1.7	250