

# Axel Nimmerjahn

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

12,105  
citations

257450

24  
h-index

377865

34  
g-index

39  
all docs

39  
docs citations

39  
times ranked

15663  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resting Microglial Cells Are Highly Dynamic Surveillants of Brain Parenchyma in Vivo. <i>Science</i> , 2005, 308, 1314-1318.	12.6	4,723
2	Miniaturized integration of a fluorescence microscope. <i>Nature Methods</i> , 2011, 8, 871-878.	19.0	962
3	The Role of Microglia in the Healthy Brain: Figure 1.. <i>Journal of Neuroscience</i> , 2011, 31, 16064-16069.	3.6	800
4	Ultrafast neuronal imaging of dopamine dynamics with designed genetically encoded sensors. <i>Science</i> , 2018, 360, .	12.6	773
5	Sulforhodamine 101 as a specific marker of astroglia in the neocortex in vivo. <i>Nature Methods</i> , 2004, 1, 31-37.	19.0	736
6	Automated Analysis of Cellular Signals from Large-Scale Calcium Imaging Data. <i>Neuron</i> , 2009, 63, 747-760.	8.1	616
7	Stepwise Recruitment of Transcellular and Paracellular Pathways Underlies Blood-Brain Barrier Breakdown in Stroke. <i>Neuron</i> , 2014, 82, 603-617.	8.1	489
8	TAM receptors regulate multiple features of microglial physiology. <i>Nature</i> , 2016, 532, 240-244.	27.8	441
9	Lentivirus-based genetic manipulations of cortical neurons and their optical and electrophysiological monitoring in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 18206-18211.	7.1	436
10	High-speed, miniaturized fluorescence microscopy in freely moving mice. <i>Nature Methods</i> , 2008, 5, 935-938.	19.0	352
11	Motor Behavior Activates Bergmann Glial Networks. <i>Neuron</i> , 2009, 62, 400-412.	8.1	272
12	Miniaturized two-photon microscope based on a flexible coherent fiber bundle and a gradient-index lens objective. <i>Optics Letters</i> , 2004, 29, 2521.	3.3	250
13	Microglia use TAM receptors to detect and engulf amyloid $\beta$ plaques. <i>Nature Immunology</i> , 2021, 22, 586-594.	14.5	228
14	In Vivo Calcium Imaging of Circuit Activity in Cerebellar Cortex. <i>Journal of Neurophysiology</i> , 2005, 94, 1636-1644.	1.8	116
15	Distortion-free delivery of nanojoule femtosecond pulses from a Ti:sapphire laser through a hollow-core photonic crystal fiber. <i>Optics Letters</i> , 2004, 29, 1285.	3.3	109
16	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.	11.1	108
17	Imaging large-scale cellular activity in spinal cord of freely behaving mice. <i>Nature Communications</i> , 2016, 7, 11450.	12.8	104
18	Astrocytes going live: advances and challenges. <i>Journal of Physiology</i> , 2009, 587, 1639-1647.	2.9	84

#	ARTICLE	IF	CITATIONS
19	The Challenge of Connecting the Dots in the B.R.A.I.N.. <i>Neuron</i> , 2013, 80, 270-274.	8.1	73
20	Sindbis vector SINrep(nsP2S726): a tool for rapid heterologous expression with attenuated cytotoxicity in neurons. <i>Journal of Neuroscience Methods</i> , 2004, 133, 81-90.	2.5	70
21	Phosphatidylserine Exposure Controls Viral Innate Immune Responses by Microglia. <i>Neuron</i> , 2017, 93, 574-586.e8.	8.1	64
22	Functional imaging in freely moving animals. <i>Current Opinion in Neurobiology</i> , 2012, 22, 45-53.	4.2	58
23	Large-scale recording of astrocyte activity. <i>Current Opinion in Neurobiology</i> , 2015, 32, 95-106.	4.2	56
24	Imaging neuromodulators with high spatiotemporal resolution using genetically encoded indicators. <i>Nature Protocols</i> , 2019, 14, 3471-3505.	12.0	33
25	Two-Photon Imaging of Microglia in the Mouse Cortex In Vivo. <i>Cold Spring Harbor Protocols</i> , 2012, 2012, pdb.prot069294.	0.3	31
26	Imaging spinal cord activity in behaving animals. <i>Experimental Neurology</i> , 2019, 320, 112974.	4.1	24
27	A perspective on astrocyte regulation of neural circuit function and animal behavior. <i>Glia</i> , 2022, 70, 1554-1580.	4.9	18
28	Single-domain near-infrared protein provides a scaffold for antigen-dependent fluorescent nanobodies. <i>Nature Methods</i> , 2022, 19, 740-750.	19.0	18
29	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. <i>Neurophotronics</i> , 2022, 9, 013001.	3.3	17
30	Optical Window Preparation for Two-Photon Imaging of Microglia in Mice: Figure 1.. <i>Cold Spring Harbor Protocols</i> , 2012, 2012, pdb.prot069286.	0.3	14
31	Electro-optical mechanically flexible coaxial microprobes for minimally invasive interfacing with intrinsic neural circuits. <i>Nature Communications</i> , 2022, 13, .	12.8	8
32	Surgical Implantation of a Head Plate in Mice in Preparation for In Vivo Two-Photon Imaging of Microglia: Figure 1.. <i>Cold Spring Harbor Protocols</i> , 2012, 2012, pdb.prot069278.	0.3	4
33	Monitoring neuronal health. <i>Science</i> , 2020, 367, 510-511.	12.6	3
34	Astrocyte regulation of neural circuit function and animal behavior. <i>Glia</i> , 2022, 70, 1453-1454.	4.9	2
35	Editorial for “In vivo spinal cord imaging in health, injury and disease” <i>Experimental Neurology</i> , 2019, 322, 113038.	4.1	0