Jaime Grutzendler

List of Publications by Year
in descending order

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48 papers	10,122 citations	147566 31 h-index	233125 45 g-index
71 all docs	71 docs citations	71 times ranked	13884 citing authors

#	Article	IF	Citations
1	ATP mediates rapid microglial response to local brain injury in vivo. Nature Neuroscience, 2005, 8, 752-758.	7.1	3,272
2	Long-term dendritic spine stability in the adult cortex. Nature, 2002, 420, 812-816.	13.7	1,084
3	Regional Blood Flow in the Normal and Ischemic Brain Is Controlled by Arteriolar Smooth Muscle Cell Contractility and Not by Capillary Pericytes. Neuron, 2015, 87, 95-110.	3.8	587
4	TREM2-mediated early microglial response limits diffusion and toxicity of amyloid plaques. Journal of Experimental Medicine, 2016, 213, 667-675.	4.2	565
5	TREM2 Haplodeficiency in Mice and Humans Impairs the Microglia Barrier Function Leading to Decreased Amyloid Compaction and Severe Axonal Dystrophy. Neuron, 2016, 90, 724-739.	3.8	528
6	Microglia constitute a barrier that prevents neurotoxic protofibrillar AÎ²42 hotspots around plaques. Nature Communications, 2015, 6, 6176.	5.8	450
7	Thinned-skull cranial window technique for long-term imaging of the cortex in live mice. Nature Protocols, 2010, 5, 201-208.	5.5	386
8	Lifelong cortical myelin plasticity and age-related degeneration in the live mammalian brain. Nature Neuroscience, 2018, 21, 683-695.	7.1	321
9	Massive accumulation of luminal protease-deficient axonal lysosomes at Alzheimerâ€™s disease amyloid plaques. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3699-708.	3.3	313
10	CX3CR1 in Microglia Regulates Brain Amyloid Deposition through Selective Protofibrillar Amyloid-Î² Phagocytosis. Journal of Neuroscience, 2010, 30, 17091-17101.	1.7	241
11	Astrocytes and microglia play orchestrated roles and respect phagocytic territories during neuronal corpse removal in vivo. Science Advances, 2020, 6, eaba3239.	4.7	176
12	Label-free in vivo imaging of myelinated axons in health and disease with spectral confocal reflectance microscopy. Nature Medicine, 2014, 20, 443-449.	15.2	159
13	In Vivo Imaging of Cerebral Microvascular Plasticity from Birth to Death. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 146-156.	2.4	158
14	Modulation of oligodendrocyte generation during a critical temporal window after NG2 cell division. Nature Neuroscience, 2014, 17, 1518-1527.	7.1	154
15	Embolus extravasation is an alternative mechanism for cerebral microvascular recanalization. Nature, 2010, 465, 478-482.	13.7	152
16	Various Dendritic Abnormalities Are Associated with Fibrillar Amyloid Deposits in Alzheimer's Disease. Annals of the New York Academy of Sciences, 2007, 1097, 30-39.	1.8	124
17	Perturbed neural activity disrupts cerebral angiogenesis during a postnatal critical period. Nature, 2014, 505, 407-411.	13.7	103
18	Increased Nanoparticle Delivery to Brain Tumors by Autocatalytic Priming for Improved Treatment and Imaging. ACS Nano, 2016, 10, 4209-4218.	7.3	103

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19	Oxalate-curcuminâ€“based probe for micro- and macroimaging of reactive oxygen species in Alzheimerâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12384-12389.	3.3	102
20	Multicolor time-stamp reveals the dynamics and toxicity of amyloid deposition. Scientific Reports, 2011, 1, 19.	1.6	90
21	A bifunctional curcumin analogue for two-photon imaging and inhibiting crosslinking of amyloid beta in Alzheimer's disease. Chemical Communications, 2014, 50, 11550-11553.	2.2	86
22	Microglia-Mediated Neuroprotection, TREM2 , and Alzheimerâ€™s Disease: Evidence From OpticalÂImaging. Biological Psychiatry, 2018, 83, 377-387.	0.7	84
23	Genetic variants associated with autoimmunity drive NFÎºB signaling and responses to inflammatory stimuli. Science Translational Medicine, 2015, 7, 291ra93.	5.8	81
24	A fluoro-Nissl dye identifies pericytes as distinct vascular mural cells during in vivo brain imaging. Nature Neuroscience, 2017, 20, 1023-1032.	7.1	81
25	Attenuation of Î²-Amyloid Deposition and Neurotoxicity by Chemogenetic Modulation of Neural Activity. Journal of Neuroscience, 2016, 36, 632-641.	1.7	78
26	Angiophagy Prevents Early Embolus Washout But Recanalizes Microvessels Through Embolus Extravasation. Science Translational Medicine, 2014, 6, 226ra31.	5.8	71
27	â€œSmall Blood Vessels: Big Health Problems?â€: Scientific Recommendations of the National Institutes of Health Workshop. Journal of the American Heart Association, 2016, 5, .	1.6	67
28	In vivo imaging of oligodendrocytes with sulforhodamine 101. Nature Methods, 2014, 11, 1081-1082.	9.0	62
29	Activation of pial and dural macrophages and dendritic cells by cortical spreading depression. Annals of Neurology, 2018, 83, 508-521.	2.8	59
30	Cellular Control of Brain Capillary Blood Flow: In Vivo Imaging Veritas. Trends in Neurosciences, 2019, 42, 528-536.	4.2	48
31	Rapid labeling of neuronal populations by ballistic delivery of fluorescent dyes. Methods, 2003, 30, 79-85.	1.9	46
32	Targeted two-photon chemical apoptotic ablation of defined cell types in vivo. Nature Communications, 2017, 8, 15837.	5.8	41
33	3D super-resolution deep-tissue imaging in living mice. Optica, 2021, 8, 442.	4.8	39
34	Emerging technologies to study glial cells. Glia, 2020, 68, 1692-1728.	2.5	32
35	Imaging and optogenetic modulation of vascular mural cells in the live brain. Nature Protocols, 2021, 16, 472-496.	5.5	32
36	Transcranial Two-Photon Imaging of the Living Mouse Brain. Cold Spring Harbor Protocols, 2011, 2011, pdb.prot065474.	0.2	28

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37	TREM2: Modulator of Lipid Metabolism in Microglia. Neuron, 2020, 105, 759-761.	3.8	26
38	Caveolae-mediated Tie2 signaling contributes to CCM pathogenesis in a brain endothelial cell-specific Pdcd10-deficient mouse model. Nature Communications, 2021, 12, 504.	5.8	22
39	Uncovering the biology of myelin with optical imaging of the live brain. Glia, 2019, 67, 2008-2019.	2.5	19
40	KCNJ8/ABCC9-containing K-ATP channel modulates brain vascular smooth muscle development and neurovascular coupling. Developmental Cell, 2022, 57, 1383-1399.e7.	3.1	16
41	Angiophagy. Stroke, 2013, 44, S84-6.	1.0	12
42	Flexible Learning-Free Segmentation and Reconstruction of Neural Volumes. Scientific Reports, 2018, 8, 14247.	1.6	12
43	Intravital Imaging of Neocortical Heterotopia Reveals Aberrant Axonal Pathfinding and Myelination around Ectopic Neurons. Cerebral Cortex, 2021, 31, 4340-4356.	1.6	5
44	Neurovascular and Immuno-Imaging: From Mechanisms to Therapies. Proceedings of the Inaugural Symposium. Frontiers in Neuroscience, 2016, 10, 46.	1.4	3
45	O1â€12â€04: Near Infrared Fluorescence Imaging of Reactive Oxygen Species in Alzheimerâ€™s Disease Via Transformation From â€œVisibleâ€•to â€œInvisibleâ€• Alzheimer's and Dementia, 2016, 12, P206.	0.4	1
46	Optical Imaging of Synaptic Disruption in a Mouse Model of Alzheimer's Disease. Microscopy and Microanalysis, 2004, 10, 166-167.	0.2	0
47	O2â€07â€02: Trem2â€Mediated Early Response by Resident Microglia Limits Diffusion and Toxicity of Amyloid Plaques. Alzheimer's and Dementia, 2016, 12, P241.	0.4	0
48	Unlocking Pericyte Function in the Adult Blood Brain Barrier One Cell at a Time. Circulation Research, 2021, 128, 511-512.	2.0	0