Pablo Blinder

List of Publications by Year
in descending order

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46 papers	4,005 citations	331259 21 h-index	301761 39 g-index
52 all docs	52 docs citations	52 times ranked	5632 citing authors

#	Article	IF	Citations
1	Correlations of Neuronal and Microvascular Densities in Murine Cortex Revealed by Direct Counting and Colocalization of Nuclei and Vessels. Journal of Neuroscience, 2009, 29, 14553-14570.	1.7	500
2	The cortical angiome: an interconnected vascular network with noncolumnar patterns of blood flow. Nature Neuroscience, 2013, 16, 889-897.	7.1	471
3	Reduced IGF-1 Signaling Delays Age-Associated Proteotoxicity in Mice. Cell, 2009, 139, 1157-1169.	13.5	450
4	Chronic optical access through a polished and reinforced thinned skull. Nature Methods, 2010, 7, 981-984.	9.0	382
5	Cerebrospinal fluid influx drives acute ischemic tissue swelling. Science, 2020, 367, .	6.0	300
6	The smallest stroke: occlusion of one penetrating vessel leads to infarction and a cognitive deficit. Nature Neuroscience, 2013, 16, 55-63.	7.1	284
7	Topological basis for the robust distribution of blood to rodent neocortex. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12670-12675.	3.3	158
8	Large-Scale Automated Histology in the Pursuit of Connectomes. Journal of Neuroscience, 2011, 31, 16125-16138.	1.7	151
9	Linking brain vascular physiology to hemodynamic response in ultra-high field MRI. NeuroImage, 2018, 168, 279-295.	2.1	137
10	Rapid determination of particle velocity from space-time images using the Radon transform. Journal of Computational Neuroscience, 2010, 29, 5-11.	0.6	129
11	A Binary Cre Transgenic Approach Dissects Microglia and CNS Border-Associated Macrophages. Immunity, 2021, 54, 176-190.e7.	6.6	99
12	Astrocytes from old Alzheimer's disease mice are impaired in Aî² uptake and in neuroprotection. Neurobiology of Disease, 2016, 96, 84-94.	2.1	85
13	Compact self-wiring in cultured neural networks. Journal of Neural Engineering, 2006, 3, 95-101.	1.8	83
14	Plasma-mediated ablation: an optical tool for submicrometer surgery on neuronal and vascular systems. Current Opinion in Biotechnology, 2009, 20, 90-99.	3.3	81
15	Robust and Fragile Aspects of Cortical Blood Flow in Relation to the Underlying Angioarchitecture. Microcirculation, 2015, 22, 204-218.	1.0	78
16	A Guide to Delineate the Logic of Neurovascular Signaling in the Brain. Frontiers in Neuroenergetics, 2011, 3, 1.	5.3	71
17	Brain Capillary Networks Across Species: A few Simple Organizational Requirements Are Sufficient to Reproduce Both Structure and Function. Frontiers in Physiology, 2019, 10, 233.	1.3	70
18	Demystifying the extracellular matrix and its proteolytic remodeling in the brain: structural and functional insights. Cellular and Molecular Life Sciences, 2019, 76, 3229-3248.	2.4	63

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19	Understanding the neurovascular unit at multiple scales: Advantages and limitations of multi-photon and functional ultrasound imaging. Advanced Drug Delivery Reviews, 2017, 119, 73-100.	6.6	42
20	Prophylactic TLR9 stimulation reduces brain metastasis through microglia activation. PLoS Biology, 2019, 17, e2006859.	2.6	40
21	Unsupervised Microvascular Image Segmentation Using an Active Contours Mimicking Neural Network. , 2019, , .		31
22	Vectorization of optically sectioned brain microvasculature: Learning aids completion of vascular graphs by connecting gaps and deleting open-ended segments. Medical Image Analysis, 2012, 16, 1241-1258.	7.0	28
23	The pial vasculature of the mouse develops according to a sensory-independent program. Scientific Reports, 2018, 8, 9860.	1.6	26
24	Hyperbaric oxygen therapy alleviates vascular dysfunction and amyloid burden in an Alzheimerâ€™s disease mouse model and in elderly patients. Aging, 2021, 13, 20935-20961.	1.4	23
25	Cathepsin B inhibition ameliorates leukocyteâ€endothelial adhesion in the BTBR mouse model of autism. CNS Neuroscience and Therapeutics, 2019, 25, 476-485.	1.9	20
26	Growth of Neurites toward Neuriteâ€“ Neurite Contact Sites Increases Synaptic Clustering and Secretion and Is Regulated by Synaptic Activity. Cerebral Cortex, 2006, 16, 83-92.	1.6	19
27	Glyconanofluorides as Immunotracers with a Tunable Core Composition for Sensitive Hotspot Magnetic Resonance Imaging of Inflammatory Activity. ACS Nano, 2021, 15, 7563-7574.	7.3	19
28	Aragonite Crystalline Biomatrices Support Astrocytic Tissue Formation in Vitro and in Vivo. Tissue Engineering, 2006, 12, 1763-1773.	4.9	18
29	Interconnected Network of Ganglion-Like Neural Cell Spheres Formed on Hydrozoan Skeleton. Tissue Engineering, 2007, 13, 473-482.	4.9	16
30	Single Cortical Microinfarcts Lead to Widespread Microglia/Macrophage Migration Along the White Matter. Cerebral Cortex, 2021, 31, 248-266.	1.6	16
31	Comparing two classes of biological distribution systems using network analysis. PLoS Computational Biology, 2018, 14, e1006428.	1.5	15
32	Pax6 regulation of Sox9 in the retinal pigmented epithelium controls its timely differentiation and choroid vasculature development. Development (Cambridge), 2018, 145, .	1.2	15
33	PySight: plug and play photon counting for fast continuous volumetric intravital microscopy. Optica, 2018, 5, 1104.	4.8	14
34	Aragonite crystalline matrix as an instructive microenvironment for neural development. Journal of Tissue Engineering and Regenerative Medicine, 2008, 2, 463-471.	1.3	13
35	Functional Topology Classification of Biological Computing Networks. Natural Computing, 2005, 4, 339-361.	1.8	12
36	Convergence among Non-Sister Dendritic Branches: An Activity-Controlled Mean to Strengthen Network Connectivity. PLoS ONE, 2008, 3, e3782.	1.1	7

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37	Contacts among non-sister dendritic branches at bifurcations shape neighboring dendrites and pattern their synaptic inputs. Brain Research, 2009, 1251, 30-41.	1.1	5
38	Maintaining unperturbed cerebral blood flow is key in the study of brain metastasis and its interactions with stress and inflammatory responses. Brain, Behavior, and Immunity, 2017, 62, 265-276.	2.0	5
39	Blood glutamate scavengers increase pro-apoptotic signaling and reduce metastatic melanoma growth in-vivo. Scientific Reports, 2021, 11, 14644.	1.6	3
40	All-Optical In Situ Histology of Brain Tissue with Femtosecond Laser Pulses. Cold Spring Harbor Protocols, 2013, 2013, pdb.prot073858-pdb.prot073858.	0.2	1
41	Microvascular Dynamics from 4D Microscopy Using Temporal Segmentation. , 2019, , .		1
42	Optical Blood Flow Measurement in Microcirculatory Systems. , 0, , .		1
43	Ultra-short Laser Pulses as a Tool to Measure as Well as Perturb Neurovascular Activity in the Rodent Brain. , 2008, , .		0
44	Topology, dynamics, and control in cortical blood flow elucidated with optical techniques. Proceedings of SPIE, 2009, , .	0.8	0
45	Two-Photon Laser Scanning Microscopy as a Tool to Study Cortical Vasodynamics Under Normal and Ischemic Conditions. , 2009, , 245-261.		0
46	Improving In Vivo Multi-photon Microscopy Using Plug and Play Photon Counting. , 2019, , .		0