Ron D Frostig

List of Publications by Year
in descending order

25	669	623734	610901
papers	citations	14 h-index	24 g-index

26	26	26	663
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Triphasic Intrinsic Signal: Implications for Functional Imaging. Journal of Neuroscience, 2007, 27, 4572-4586.	3.6	93
2	Large-Scale Organization of Rat Sensorimotor Cortex Based on a Motif of Large Activation Spreads. Journal of Neuroscience, 2008, 28, 13274-13284.	3.6	90
3	Mild Sensory Stimulation Completely Protects the Adult Rodent Cortex from Ischemic Stroke. PLoS ONE, 2010, 5, e11270.	2.5	63
4	Unimodal primary sensory cortices are directly connected by long-range horizontal projections in the rat sensory cortex. Frontiers in Neuroanatomy, 2014, 8, 93.	1.7	61
5	Functional organization and plasticity in the adult rat barrel cortex: moving out-of-the-box. Current Opinion in Neurobiology, 2006, 16, 445-450.	4.2	45
6	Mild Sensory Stimulation Reestablishes Cortical Function during the Acute Phase of Ischemia. Journal of Neuroscience, 2011, 31, 11495-11504.	3.6	37
7	In vivo modulation of a cortical functional sensory representation shortly after topical cholinergic agent application. Journal of Comparative Neurology, 2002, 452, 38-50.	1.6	31
8	A Ratâ€™s Whiskers Point the Way toward a Novel Stimulus-Dependent, Protective Stroke Therapy. Neuroscientist, 2013, 19, 313-328.	3.5	25
9	Complete protection from impending stroke following permanent middle cerebral artery occlusion in awake, behaving rats. European Journal of Neuroscience, 2014, 40, 3413-3421.	2.6	25
10	Early stimulation treatment provides complete sensoryâ€induced protection from ischemic stroke under isoflurane anesthesia. European Journal of Neuroscience, 2013, 38, 2445-2452.	2.6	23
11	Fully distributed absolute blood flow velocity measurement for middle cerebral arteries using Doppler optical coherence tomography. Biomedical Optics Express, 2016, 7, 601.	2.9	23
12	Amount but Not Pattern of Protective Sensory Stimulation Alters Recovery After Permanent Middle Cerebral Artery Occlusion. Stroke, 2011, 42, 792-798.	2.0	21
13	Mild Sensory Stimulation Protects the Aged Rodent From Cortical Ischemic Stroke After Permanent Middle Cerebral Artery Occlusion. Journal of the American Heart Association, 2012, 1, e001255.	3.7	18
14	Emergence of spatiotemporal invariance in large neuronal ensembles in rat barrel cortex. Frontiers in Neural Circuits, 2015, 9, 34.	2.8	18
15	Hyperspectral optical tomography of intrinsic signals in the rat cortex. Neurophotonics, 2015, 2, 045003.	3.3	14
16	Permanent Cerebral Vessel Occlusion via Double Ligature and Transection. Journal of Visualized Experiments, 2013, , .	0.3	13
17	Photonics meets connectomics: case of diffuse, long-range horizontal projections in rat cortex. Neurophotonics, 2015, 2, 041403.	3.3	13
18	Sensory Stimulation-Based Complete Protection from Ischemic Stroke Remains Stable at 4 Months Post-Occlusion of MCA. Journal of Neurological Disorders, 2013, 01, 135.	0.1	12

#	Article	IF	Citations
19	Testing the effects of sensory stimulation as a collateral-based therapeutic for ischemic stroke in C57BL/6J and CD1 mouse strains. PLoS ONE, 2017, 12, e0183909.	2.5	12
20	Spatiotemporal dynamics of pial collateral blood flow following permanent middle cerebral artery occlusion in a rat model of sensory-based protection: a Doppler optical coherence tomography study. Neurophotonics, 2019, 6, 1.	3.3	11
21	What Has Intrinsic Signal Optical Imaging Taught Us About NGF-Induced Rapid Plasticity in Adult Cortex and Its Relationship to the Cholinergic System?. Molecular Imaging and Biology, 2005, 7, 14-21.	2.6	8
22	Sensory stimulation-based protection from impending stroke following MCA occlusion is correlated with desynchronization of widespread spontaneous local field potentials. Scientific Reports, 2022, 12, 1744.	3.3	6
23	Rapid development of strong, persistent, spatiotemporally extensive cortical synchrony and underlying oscillations following acute MCA focal ischemia. Scientific Reports, 2020, 10, 21441.	3.3	4
24	Hypertension prevents a sensory stimulation-based collateral therapeutic from protecting the cortex from impending ischemic stroke damage in a spontaneously hypersensitive rat model. PLoS ONE, 2018, 13, e0206291.	2.5	3
25	Special Section Guest Editorial: Pioneers in Neurophotonics: Special Section Honoring Professor Amiram Grinvald. Neurophotonics, 2017, 4, 1.	3.3	0