Tingwei Quan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6411915/publications.pdf

Version: 2024-02-01

26	624	759233 12	610901 24
papers	citations	h-index	g-index

26	26	26	704
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	NeuroGPS-Tree: automatic reconstruction of large-scale neuronal populations with dense neurites. Nature Methods, 2016, 13, 51-54.	19.0	112
2	Ultra-fast, high-precision image analysis for localization-based super resolution microscopy. Optics Express, 2010, 18, 11867.	3.4	76
3	High-density localization of active molecules using Structured Sparse Model and Bayesian Information Criterion. Optics Express, 2011, 19, 16963.	3.4	74
4	Robust whole slide image analysis for cervical cancer screening using deep learning. Nature Communications, 2021, 12, 5639.	12.8	58
5	NeuroGPS: automated localization of neurons for brain circuits using L1 minimization model. Scientific Reports, 2013, 3, 1414.	3.3	56
6	StainNet: A Fast and Robust Stain Normalization Network. Frontiers in Medicine, 2021, 8, 746307.	2.6	33
7	GTree: an Open-source Tool for Dense Reconstruction of Brain-wide Neuronal Population. Neuroinformatics, 2021, 19, 305-317.	2.8	25
8	A platform for stereological quantitative analysis of the brain-wide distribution of type-specific neurons. Scientific Reports, 2017, 7, 14334.	3.3	24
9	SparseTracer: the Reconstruction of Discontinuous Neuronal Morphology in Noisy Images. Neuroinformatics, 2017, 15, 133-149.	2.8	22
10	Weakly Supervised Learning of 3D Deep Network for Neuron Reconstruction. Frontiers in Neuroanatomy, 2020, 14, 38.	1.7	22
11	Penetration model for chemical reactivation for resin-embedded green fluorescent protein imaging. Journal of Biomedical Optics, 2018, 24, 1.	2.6	19
12	Optimization of Traced Neuron Skeleton Using Lasso-Based Model. Frontiers in Neuroanatomy, 2019, 13, 18.	1.7	15
13	Digital reconstruction of the cell body in dense neural circuits using a spherical-coordinated variational model. Scientific Reports, 2014, 4, 4970.	3.3	12
14	Identifying Weak Signals in Inhomogeneous Neuronal Images for Large-Scale Tracing of Sparsely Distributed Neurites. Neuroinformatics, 2019, 17, 497-514.	2.8	12
15	DeepBouton: Automated Identification of Single-Neuron Axonal Boutons at the Brain-Wide Scale. Frontiers in Neuroinformatics, 2019, 13, 25.	2.5	12
16	Brain-Wide Shape Reconstruction of a Traced Neuron Using the Convex Image Segmentation Method. Neuroinformatics, 2020, 18, 199-218.	2.8	11
17	Large-scale localization of touching somas from 3D images using density-peak clustering. BMC Bioinformatics, 2016, 17, 375.	2.6	9
18	Modelling brain-wide neuronal morphology via rooted Cayley trees. Scientific Reports, 2018, 8, 15666.	3.3	8

#	Article	IF	Citations
19	Reconstruction of burst activity from calcium imaging of neuronal population via Lq minimization and interval screening. Biomedical Optics Express, 2016, 7, 2103.	2.9	7
20	Automated Neuron Tracing Using Content-Aware Adaptive Voxel Scooping on CNN Predicted Probability Map. Frontiers in Neuroanatomy, 2021, 15, 712842.	1.7	4
21	Minimizing Probability Graph Connectivity Cost for Discontinuous Filamentary Structures Tracing in Neuron Image. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3092-3103.	6.3	4
22	Super-resolution Segmentation Network for Reconstruction of Packed Neurites. Neuroinformatics, 2022, 20, 1155-1167.	2.8	4
23	Reconstruction of micron resolution mouse brain surface from large-scale imaging dataset using resampling-based variational model. Scientific Reports, 2015, 5, 12782.	3.3	3
24	Error estimation for reconstruction of neuronal spike firing from fast calcium imaging. Biomedical Optics Express, 2015, 6, 421.	2.9	1
25	Neural spike train reconstruction from calcium imaging via a signal-shape composition model. Science China Life Sciences, 2020, 63, 1829-1832.	4.9	1
26	Foreground Estimation in Neuronal Images With a Sparse-Smooth Model for Robust Quantification. Frontiers in Neuroanatomy, 2021, 15, 716718.	1.7	0