Dawen Cai

List of Publications by Year
in descending order

40 papers	4,121 citations	361413 20 h-index	345221 36 g-index
52 all docs	52 docs citations	52 times ranked	5839 citing authors

#	Article	IF	Citations
1	nGauge: Integrated and Extensible Neuron Morphology Analysis in Python. Neuroinformatics, 2022, 20, 755-764.	2.8	3
2	Unsupervised Neural Tracing In Densely Labeled Multispectral Brainbow Images. , 2021, , .		1
3	The molecular landscape of neural differentiation in the developing Drosophila brain revealed by targeted scRNA-seq and multi-informatic analysis. Cell Reports, 2021, 35, 109039.	6.4	21
4	Triple-Negative Breast Cancer Cells RecruitÂNeutrophils by Secreting TGF-Î² and CXCR2 Ligands. Frontiers in Immunology, 2021, 12, 659996.	4.8	50
5	Bitbow Enables Highly Efficient Neuronal Lineage Tracing and Morphology Reconstruction in Single Drosophila Brains. Frontiers in Neural Circuits, 2021, 15, 732183.	2.8	8
6	A Weakly Supervised Multi-task Ranking Framework for Actorâ€“Action Semantic Segmentation. International Journal of Computer Vision, 2020, 128, 1414-1432.	15.6	2
7	TraceMontage: A method for merging multiple independent neuronal traces. Journal of Neuroscience Methods, 2020, 332, 108560.	2.5	3
8	Cellular-scale silicon probes for high-density, precisely localized neurophysiology. Journal of Neurophysiology, 2020, 124, 1578-1587.	1.8	11
9	Light microscopy based approach for mapping connectivity with molecular specificity. Nature Communications, 2020, 11, 4632.	12.8	32
10	Ultra-small carbon fiber electrode recording site optimization and improved in vivo chronic recording yield. Journal of Neural Engineering, 2020, 17, 026037.	3.5	51
11	High density carbon fiber arrays for chronic electrophysiology, fast scan cyclic voltammetry, and correlative anatomy. Journal of Neural Engineering, 2020, 17, 056029.	3.5	32
12	Long-range remote focusing by image-plane aberration correction. Optics Express, 2020, 28, 34008.	3.4	5
13	Single-cell RT-LAMP mRNA detection by integrated droplet sorting and merging. Lab on A Chip, 2019, 19, 2425-2434.	6.0	29
14	Multispectral tracing in densely labeled mouse brain with nTracer. Bioinformatics, 2019, 35, 3544-3546.	4.1	23
15	Identification of Neuronal Lineages in the Drosophila Peripheral Nervous System with a â€œDigitalâ€• Multi-spectral Lineage Tracing System. Cell Reports, 2019, 29, 3303-3312.e3.	6.4	18
16	Sort'N merge: A deterministic microfluidic platform for co-encapsulating distinct particles in microdroplets. , 2018, , .		2
17	Iterative expansion microscopy. Nature Methods, 2017, 14, 593-599.	19.0	279
18	Imaging Neural Architecture in Brainbow Samples. Methods in Molecular Biology, 2017, 1642, 211-228.	0.9	9

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19	Deterministic droplet-based co-encapsulation and pairing of microparticles via active sorting and downstream merging. Lab on A Chip, 2017, 17, 3664-3671.	6.0	60
20	Weakly Supervised Actor-Action Segmentation via Robust Multi-task Ranking. , 2017, , .		30
21	KIF5C S176 Phosphorylation Regulates Microtubule Binding and Transport Efficiency in Mammalian Neurons. Frontiers in Cellular Neuroscience, 2016, 10, 57.	3.7	24
22	Protein-retention expansion microscopy of cells and tissues labeled using standard fluorescent proteins and antibodies. Nature Biotechnology, 2016, 34, 987-992.	17.5	510
23	Pulse-shaping based two-photon FRET stoichiometry. Optics Express, 2015, 23, 3353.	3.4	8
24	A method for multiprotein assembly in cells reveals independent action of kinesins in complex. Journal of Cell Biology, 2014, 207, 393-406.	5.2	60
25	Improved tools for the Brainbow toolbox. Nature Methods, 2013, 10, 540-547.	19.0	368
26	Two-photon imaging of multiple fluorescent proteins by phase-shaping and linear unmixing with a single broadband laser. Optics Express, 2013, 21, 17256.	3.4	15
27	Improved tools for the Brainbow toolbox. Nature Methods, 2013, 10, 540-7.	19.0	65
28	Pulse shaping multiphoton FRET microscopy. , 2012, 8226, .		2
29	Autoinhibition of the kinesin-2 motor KIF17 via dual intramolecular mechanisms. Journal of Cell Biology, 2010, 189, 1013-1025.	5.2	102
30	Recording Single Motor Proteins in the Cytoplasm of Mammalian Cells. Methods in Enzymology, 2010, 475, 81-107.	1.0	7
31	A Lipid Receptor Sorts Polyomavirus from the Endolysosome to the Endoplasmic Reticulum to Cause Infection. PLoS Pathogens, 2009, 5, e1000465.	4.7	106
32	Single Molecule Imaging Reveals Differences in Microtubule Track Selection Between Kinesin Motors. PLoS Biology, 2009, 7, e1000216.	5.6	271
33	Mammalian Kinesin-3 Motors Are Dimeric In Vivo and Move by Processive Motility upon Release of Autoinhibition. PLoS Biology, 2009, 7, e1000072.	5.6	166
34	Tubulin modifications and their cellular functions. Current Opinion in Cell Biology, 2008, 20, 71-76.	5.4	442
35	Two binding partners cooperate to activate the molecular motor Kinesin-1. Journal of Cell Biology, 2007, 176, 11-17.	5.2	202
36	Kinesin-1 structural organization and conformational changes revealed by FRET stoichiometry in live cells. Journal of Cell Biology, 2007, 176, 51-63.	5.2	133

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37	Tracking Single Kinesin Molecules in the Cytoplasm of Mammalian Cells. Biophysical Journal, 2007, 92, 4137-4144.	0.5	139
38	Microtubule Acetylation Promotes Kinesin-1 Binding and Transport. Current Biology, 2006, 16, 2166-2172.	3.9	784
39	RNA Degradation in Cell Extracts:Â Real-Time Monitoring by Fluorescence Resonance Energy Transfer. Journal of the American Chemical Society, 2003, 125, 14230-14231.	13.7	14
40	Photoelectrochemistry as a novel strategy for DNA hybridization detection. Analyst, The, 2000, 125, 1908-1910.	3.5	21