

Dawen Cai

List of Publications by Year in descending order

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Version: 2024-02-01

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	Microtubule Acetylation Promotes Kinesin-1 Binding and Transport. <i>Current Biology</i> , 2006, 16, 2166-2172.	3.9	784
2	Protein-retention expansion microscopy of cells and tissues labeled using standard fluorescent proteins and antibodies. <i>Nature Biotechnology</i> , 2016, 34, 987-992.	17.5	510
3	Tubulin modifications and their cellular functions. <i>Current Opinion in Cell Biology</i> , 2008, 20, 71-76.	5.4	442
4	Improved tools for the Brainbow toolbox. <i>Nature Methods</i> , 2013, 10, 540-547.	19.0	368
5	Iterative expansion microscopy. <i>Nature Methods</i> , 2017, 14, 593-599.	19.0	279
6	Single Molecule Imaging Reveals Differences in Microtubule Track Selection Between Kinesin Motors. <i>PLoS Biology</i> , 2009, 7, e1000216.	5.6	271
7	Two binding partners cooperate to activate the molecular motor Kinesin-1. <i>Journal of Cell Biology</i> , 2007, 176, 11-17.	5.2	202
8	Mammalian Kinesin-3 Motors Are Dimeric In Vivo and Move by Processive Motility upon Release of Autoinhibition. <i>PLoS Biology</i> , 2009, 7, e1000072.	5.6	166
9	Tracking Single Kinesin Molecules in the Cytoplasm of Mammalian Cells. <i>Biophysical Journal</i> , 2007, 92, 4137-4144.	0.5	139
10	Kinesin-1 structural organization and conformational changes revealed by FRET stoichiometry in live cells. <i>Journal of Cell Biology</i> , 2007, 176, 51-63.	5.2	133
11	A Lipid Receptor Sorts Polyomavirus from the Endolysosome to the Endoplasmic Reticulum to Cause Infection. <i>PLoS Pathogens</i> , 2009, 5, e1000465.	4.7	106
12	Autoinhibition of the kinesin-2 motor KIF17 via dual intramolecular mechanisms. <i>Journal of Cell Biology</i> , 2010, 189, 1013-1025.	5.2	102
13	Improved tools for the Brainbow toolbox. <i>Nature Methods</i> , 2013, 10, 540-7.	19.0	65
14	A method for multiprotein assembly in cells reveals independent action of kinesins in complex. <i>Journal of Cell Biology</i> , 2014, 207, 393-406.	5.2	60
15	Deterministic droplet-based co-encapsulation and pairing of microparticles via active sorting and downstream merging. <i>Lab on A Chip</i> , 2017, 17, 3664-3671.	6.0	60
16	Ultra-small carbon fiber electrode recording site optimization and improved <i>in vivo</i> chronic recording yield. <i>Journal of Neural Engineering</i> , 2020, 17, 026037.	3.5	51
17	Triple-Negative Breast Cancer Cells Recruit Neutrophils by Secreting TGF- β ² and CXCR2 Ligands. <i>Frontiers in Immunology</i> , 2021, 12, 659996.	4.8	50
18	Light microscopy based approach for mapping connectivity with molecular specificity. <i>Nature Communications</i> , 2020, 11, 4632.	12.8	32

#	ARTICLE	IF	CITATIONS
19	High density carbon fiber arrays for chronic electrophysiology, fast scan cyclic voltammetry, and correlative anatomy. <i>Journal of Neural Engineering</i> , 2020, 17, 056029.	3.5	32
20	Weakly Supervised Actor-Action Segmentation via Robust Multi-task Ranking. , 2017, , .		30
21	Single-cell RT-LAMP mRNA detection by integrated droplet sorting and merging. <i>Lab on A Chip</i> , 2019, 19, 2425-2434.	6.0	29
22	KIF5C S176 Phosphorylation Regulates Microtubule Binding and Transport Efficiency in Mammalian Neurons. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 57.	3.7	24
23	Multispectral tracing in densely labeled mouse brain with nTracer. <i>Bioinformatics</i> , 2019, 35, 3544-3546.	4.1	23
24	Photoelectrochemistry as a novel strategy for DNA hybridization detection. <i>Analyst, The</i> , 2000, 125, 1908-1910.	3.5	21
25	The molecular landscape of neural differentiation in the developing <i>Drosophila</i> brain revealed by targeted scRNA-seq and multi-informatic analysis. <i>Cell Reports</i> , 2021, 35, 109039.	6.4	21
26	Identification of Neuronal Lineages in the <i>Drosophila</i> Peripheral Nervous System with a "Digital" Multi-spectral Lineage Tracing System. <i>Cell Reports</i> , 2019, 29, 3303-3312.e3.	6.4	18
27	Two-photon imaging of multiple fluorescent proteins by phase-shaping and linear unmixing with a single broadband laser. <i>Optics Express</i> , 2013, 21, 17256.	3.4	15
28	RNA Degradation in Cell Extracts: A Real-Time Monitoring by Fluorescence Resonance Energy Transfer. <i>Journal of the American Chemical Society</i> , 2003, 125, 14230-14231.	13.7	14
29	Cellular-scale silicon probes for high-density, precisely localized neurophysiology. <i>Journal of Neurophysiology</i> , 2020, 124, 1578-1587.	1.8	11
30	Imaging Neural Architecture in Brainbow Samples. <i>Methods in Molecular Biology</i> , 2017, 1642, 211-228.	0.9	9
31	Pulse-shaping based two-photon FRET stoichiometry. <i>Optics Express</i> , 2015, 23, 3353.	3.4	8
32	Bitbow Enables Highly Efficient Neuronal Lineage Tracing and Morphology Reconstruction in Single <i>Drosophila</i> Brains. <i>Frontiers in Neural Circuits</i> , 2021, 15, 732183.	2.8	8
33	Recording Single Motor Proteins in the Cytoplasm of Mammalian Cells. <i>Methods in Enzymology</i> , 2010, 475, 81-107.	1.0	7
34	Long-range remote focusing by image-plane aberration correction. <i>Optics Express</i> , 2020, 28, 34008.	3.4	5
35	TraceMontage: A method for merging multiple independent neuronal traces. <i>Journal of Neuroscience Methods</i> , 2020, 332, 108560.	2.5	3
36	nGauge: Integrated and Extensible Neuron Morphology Analysis in Python. <i>Neuroinformatics</i> , 2022, 20, 755-764.	2.8	3

#	ARTICLE	IF	CITATIONS
37	Pulse shaping multiphoton FRET microscopy. , 2012, 8226, .		2
38	Sort'N merge: A deterministic microfluidic platform for co-encapsulating distinct particles in microdroplets. , 2018, , .		2
39	A Weakly Supervised Multi-task Ranking Framework for Actorâ€™Action Semantic Segmentation. International Journal of Computer Vision, 2020, 128, 1414-1432.	15.6	2
40	Unsupervised Neural Tracing In Densely Labeled Multispectral Brainbow Images. , 2021, , .		1