Misha B Ahrens

List of Publications by Year
in descending order

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38 papers	7,155 citations	168829 31 h-index	340414 39 g-index
50 all docs	50 docs citations	50 times ranked	8361 citing authors

#	Article	IF	Citations
1	Voltage imaging identifies spinal circuits that modulate locomotor adaptation in zebrafish. Neuron, 2022, 110, 1211-1222.e4.	3.8	30
2	Cre-Dependent Anterograde Transsynaptic Labeling and Functional Imaging in Zebrafish Using VSV With Reduced Cytotoxicity. Frontiers in Neuroanatomy, 2021, 15, 758350.	0.9	4
3	Brain-wide, scale-wide physiology underlying behavioral flexibility in zebrafish. Current Opinion in Neurobiology, 2020, 64, 151-160.	2.0	14
4	Bright and High-Performance Genetically Encoded Ca²⁺ Indicator Based on mNeonGreen Fluorescent Protein. ACS Sensors, 2020, 5, 1959-1968.	4.0	35
5	Precision Calcium Imaging of Dense Neural Populations via a Cell-Body-Targeted Calcium Indicator. Neuron, 2020, 107, 470-486.e11.	3.8	87
6	Bright and photostable chemigenetic indicators for extended in vivo voltage imaging. Science, 2019, 365, 699-704.	6.0	362
7	A genetically encoded fluorescent sensor for in vivo imaging of GABA. Nature Methods, 2019, 16, 763-770.	9.0	242
8	Zebrafish Neuroscience: Using Artificial Neural Networks to Help Understand Brains. Current Biology, 2019, 29, R1138-R1140.	1.8	6
9	Glia Accumulate Evidence that Actions Are Futile and Suppress Unsuccessful Behavior. Cell, 2019, 178, 27-43.e19.	13.5	226
10	A bidirectional network for appetite control in larval zebrafish. ELife, 2019, 8, .	2.8	50
11	A robotic multidimensional directed evolution approach applied to fluorescent voltage reporters. Nature Chemical Biology, 2018, 14, 352-360.	3.9	264
12	Integrative whole-brain neuroscience in larval zebrafish. Current Opinion in Neurobiology, 2018, 50, 136-145.	2.0	95
13	Brain-wide circuit interrogation at the cellular level guided by online analysis of neuronal function. Nature Methods, 2018, 15, 1117-1125.	9.0	54
14	Brain-wide Organization of Neuronal Activity and Convergent Sensorimotor Transformations in Larval Zebrafish. Neuron, 2018, 100, 876-890.e5.	3.8	134
15	Multi-scale approaches for high-speed imaging and analysis of large neural populations. PLoS Computational Biology, 2017, 13, e1005685.	1.5	35
16	Sensitive red protein calcium indicators for imaging neural activity. ELife, 2016, 5, .	2.8	813
17	Input-Specific Gain Modulation by Local Sensory Context Shapes Cortical and Thalamic Responses to Complex Sounds. Neuron, 2016, 91, 467-481.	3.8	58
18	A Practical Guide to Light Sheet Microscopy. Methods in Molecular Biology, 2016, 1451, 321-331.	0.4	1

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19	The Serotonergic System Tracks the Outcomes of Actions to Mediate Short-Term Motor Learning. Cell, 2016, 167, 933-946.e20.	13.5	130
20	Neural Circuits Underlying Visually Evoked Escapes in Larval Zebrafish. Neuron, 2016, 89, 613-628.	3.8	271
21	Calcium imaging of neural circuits with extended depth-of-field light-sheet microscopy. Optics Letters, 2016, 41, 855.	1.7	71
22	Brain-wide mapping of neural activity controlling zebrafish exploratory locomotion. ELife, 2016, 5, e12741.	2.8	246
23	Labeling of active neural circuits in vivo with designed calcium integrators. Science, 2015, 347, 755-760.	6.0	377
24	Visualizing Whole-Brain Activity and Development at the Single-Cell Level Using Light-Sheet Microscopy. Neuron, 2015, 85, 462-483.	3.8	215
25	Large-scale imaging in small brains. Current Opinion in Neurobiology, 2015, 32, 78-86.	2.0	69
26	Light-sheet imaging for systems neuroscience. Nature Methods, 2015, 12, 27-29.	9.0	62
27	Mapping brain activity at scale with cluster computing. Nature Methods, 2014, 11, 941-950.	9.0	257
28	Light-sheet functional imaging in fictively behaving zebrafish. Nature Methods, 2014, 11, 883-884.	9.0	294
29	Spinal Projection Neurons Control Turning Behaviors in Zebrafish. Current Biology, 2013, 23, 1566-1573.	1.8	101
30	Whole-brain functional imaging at cellular resolution using light-sheet microscopy. Nature Methods, 2013, 10, 413-420.	9.0	1,194
31	Identification of Nonvisual Photomotor Response Cells in the Vertebrate Hindbrain. Journal of Neuroscience, 2013, 33, 3834-3843.	1.7	98
32	Optogenetics in a transparent animal: circuit function in the larval zebrafish. Current Opinion in Neurobiology, 2013, 23, 119-126.	2.0	105
33	Two-photon calcium imaging during fictive navigation in virtual environments. Frontiers in Neural Circuits, 2013, 7, 104.	1.4	46
34	Brain-wide neuronal dynamics during motor adaptation in zebrafish. Nature, 2012, 485, 471-477.	13.7	621
35	Observers Exploit Stochastic Models of Sensory Change to Help Judge the Passage of Time. Current Biology, 2011, 21, 200-206.	1.8	58
36	Inferring input nonlinearities in neural encoding models. Network: Computation in Neural Systems, 2008, 19, 35-67.	2.2	69

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37	Nonlinearities and Contextual Influences in Auditory Cortical Responses Modeled with Multilinear Spectrotemporal Methods. Journal of Neuroscience, 2008, 28, 1929-1942.	1.7	137
38	Efficient Estimation of Detailed Single-Neuron Models. Journal of Neurophysiology, 2006, 96, 872-890.	0.9	112