Daniel A Dombeck

List of Publications by Year
in descending order

34 papers	6,671 citations	257450 24 h-index	395702 33 g-index
37 all docs	37 docs citations	37 times ranked	7036 citing authors

#	Article	IF	Citations
1	The functional organization of excitatory synaptic input to place cells. Nature Communications, 2021, 12, 3558.	12.8	22
2	Information Theoretic Approaches to Deciphering the Neural Code with Functional Fluorescence Imaging. ENeuro, 2021, 8, ENEURO.0266-21.2021.	1.9	13
3	Behavior determines the hippocampal spatial mapping of a multisensory environment. Cell Reports, 2021, 36, 109444.	6.4	27
4	Sox6 expression distinguishes dorsally and ventrally biased dopamine neurons in the substantia nigra with distinctive properties and embryonic origins. Cell Reports, 2021, 37, 109975.	6.4	33
5	Inactivation of the Medial Entorhinal Cortex Selectively Disrupts Learning of Interval Timing. Cell Reports, 2020, 32, 108163.	6.4	31
6	Multicolor Polymeric Nanoparticle Neuronal Tracers. ACS Central Science, 2020, 6, 436-445.	11.3	4
7	Navigating Through Time: A Spatial Navigation Perspective on How the Brain May Encode Time. Annual Review of Neuroscience, 2020, 43, 73-93.	10.7	42
8	Dendritic mechanisms of hippocampal place field formation. Current Opinion in Neurobiology, 2019, 54, 1-11.	4.2	44
9	Coordination of rapid cholinergic and dopaminergic signaling in striatum during spontaneous movement. ELife, 2019, 8, .	6.0	64
10	An olfactory virtual reality system for mice. Nature Communications, 2018, 9, 839.	12.8	75
11	Evidence for a subcircuit in medial entorhinal cortex representing elapsed time during immobility. Nature Neuroscience, 2018, 21, 1574-1582.	14.8	91
12	Ultrafast neuronal imaging of dopamine dynamics with designed genetically encoded sensors. Science, 2018, 360, .	12.6	773
13	Mapping projections of molecularly defined dopamine neuron subtypes using intersectional genetic approaches. Nature Neuroscience, 2018, 21, 1260-1271.	14.8	283
14	Increased Prevalence of Calcium Transients across the Dendritic Arbor during Place Field Formation. Neuron, 2017, 96, 490-504.e5.	8.1	141
15	Rapid signalling in distinct dopaminergic axons during locomotion and reward. Nature, 2016, 535, 505-510.	27.8	462
16	The binding solution?. Nature Neuroscience, 2015, 18, 1060-1062.	14.8	9
17	Calcium transient prevalence across the dendritic arbour predicts place field properties. Nature, 2015, 517, 200-204.	27.8	211
18	The Functional Micro-organization of Grid Cells Revealed by Cellular-Resolution Imaging. Neuron, 2014, 84, 1079-1090.	8.1	117

#	Article	IF	Citations
19	Two-Photon Imaging of Neural Activity in Awake Mobile Mice. Cold Spring Harbor Protocols, 2014, 2014, pdb.top081810-pdb.top081810.	0.3	25
20	Widespread State-Dependent Shifts in Cerebellar Activity in Locomoting Mice. PLoS ONE, 2012, 7, e42650.	2.5	107
21	Real neuroscience in virtual worlds. Current Opinion in Neurobiology, 2012, 22, 3-10.	4.2	107
22	Functional imaging of hippocampal place cells at cellular resolution during virtual navigation. Nature Neuroscience, 2010, 13, 1433-1440.	14.8	742
23	Functional Clustering of Neurons in Motor Cortex Determined by Cellular Resolution Imaging in Awake Behaving Mice. Journal of Neuroscience, 2009, 29, 13751-13760.	3.6	183
24	Intracellular dynamics of hippocampal place cells during virtual navigation. Nature, 2009, 461, 941-946.	27.8	797
25	Polarized microtubule arrays in apical dendrites and axons. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11370-11375.	7.1	89
26	Serotonin Modulates Dendritic Calcium Influx in Commissural Interneurons in the Mouse Spinal Locomotor Network. Journal of Neurophysiology, 2007, 98, 2157-2167.	1.8	33
27	Two-Photon Calcium Imaging of Network Activity in XFP-Expressing Neurons in the Mouse. Journal of Neurophysiology, 2007, 97, 3118-3125.	1.8	49
28	Imaging Large-Scale Neural Activity with Cellular Resolution in Awake, Mobile Mice. Neuron, 2007, 56, 43-57.	8.1	993
29	Overcoming photodamage in second-harmonic generation microscopy: Real-time optical recording of neuronal action potentials. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3124-3129.	7.1	98
30	Optical Recording of Fast Neuronal Membrane Potential Transients in Acute Mammalian Brain Slices by Second-Harmonic Generation Microscopy. Journal of Neurophysiology, 2005, 94, 3628-3636.	1.8	132
31	Optical Recording of Action Potentials with Second-Harmonic Generation Microscopy. Journal of Neuroscience, 2004, 24, 999-1003.	3.6	162
32	In Vivo Multiphoton Microscopy of Deep Brain Tissue. Journal of Neurophysiology, 2004, 91, 1908-1912.	1.8	451
33	In vivo multiphoton microscopy of deep tissue with gradient index lenses. , 2004, , .		3
34	Uniform polarity microtubule assemblies imaged in native brain tissue by second-harmonic generation microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7081-7086.	7.1	253