

# Daniel A Dombeck

## List of Publications by Year in descending order

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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	Imaging Large-Scale Neural Activity with Cellular Resolution in Awake, Mobile Mice. <i>Neuron</i> , 2007, 56, 43-57.	8.1	993
2	Intracellular dynamics of hippocampal place cells during virtual navigation. <i>Nature</i> , 2009, 461, 941-946.	27.8	797
3	Ultrafast neuronal imaging of dopamine dynamics with designed genetically encoded sensors. <i>Science</i> , 2018, 360, .	12.6	773
4	Functional imaging of hippocampal place cells at cellular resolution during virtual navigation. <i>Nature Neuroscience</i> , 2010, 13, 1433-1440.	14.8	742
5	Rapid signalling in distinct dopaminergic axons during locomotion and reward. <i>Nature</i> , 2016, 535, 505-510.	27.8	462
6	In Vivo Multiphoton Microscopy of Deep Brain Tissue. <i>Journal of Neurophysiology</i> , 2004, 91, 1908-1912.	1.8	451
7	Mapping projections of molecularly defined dopamine neuron subtypes using intersectional genetic approaches. <i>Nature Neuroscience</i> , 2018, 21, 1260-1271.	14.8	283
8	Uniform polarity microtubule assemblies imaged in native brain tissue by second-harmonic generation microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 7081-7086.	7.1	253
9	Calcium transient prevalence across the dendritic arbour predicts place field properties. <i>Nature</i> , 2015, 517, 200-204.	27.8	211
10	Functional Clustering of Neurons in Motor Cortex Determined by Cellular Resolution Imaging in Awake Behaving Mice. <i>Journal of Neuroscience</i> , 2009, 29, 13751-13760.	3.6	183
11	Optical Recording of Action Potentials with Second-Harmonic Generation Microscopy. <i>Journal of Neuroscience</i> , 2004, 24, 999-1003.	3.6	162
12	Increased Prevalence of Calcium Transients across the Dendritic Arbor during Place Field Formation. <i>Neuron</i> , 2017, 96, 490-504.e5.	8.1	141
13	Optical Recording of Fast Neuronal Membrane Potential Transients in Acute Mammalian Brain Slices by Second-Harmonic Generation Microscopy. <i>Journal of Neurophysiology</i> , 2005, 94, 3628-3636.	1.8	132
14	The Functional Micro-organization of Grid Cells Revealed by Cellular-Resolution Imaging. <i>Neuron</i> , 2014, 84, 1079-1090.	8.1	117
15	Widespread State-Dependent Shifts in Cerebellar Activity in Locomoting Mice. <i>PLoS ONE</i> , 2012, 7, e42650.	2.5	107
16	Real neuroscience in virtual worlds. <i>Current Opinion in Neurobiology</i> , 2012, 22, 3-10.	4.2	107
17	Overcoming photodamage in second-harmonic generation microscopy: Real-time optical recording of neuronal action potentials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3124-3129.	7.1	98
18	Evidence for a subcircuit in medial entorhinal cortex representing elapsed time during immobility. <i>Nature Neuroscience</i> , 2018, 21, 1574-1582.	14.8	91

#	ARTICLE	IF	CITATIONS
19	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
20	An olfactory virtual reality system for mice. Nature Communications, 2018, 9, 839.	12.8	75
21	Coordination of rapid cholinergic and dopaminergic signaling in striatum during spontaneous movement. ELife, 2019, 8, .	6.0	64
22	Two-Photon Calcium Imaging of Network Activity in XFP-Expressing Neurons in the Mouse. Journal of Neurophysiology, 2007, 97, 3118-3125.	1.8	49
23	Dendritic mechanisms of hippocampal place field formation. Current Opinion in Neurobiology, 2019, 54, 1-11.	4.2	44
24	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
25	Serotonin Modulates Dendritic Calcium Influx in Commissural Interneurons in the Mouse Spinal Locomotor Network. Journal of Neurophysiology, 2007, 98, 2157-2167.	1.8	33
26	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
27	Inactivation of the Medial Entorhinal Cortex Selectively Disrupts Learning of Interval Timing. Cell Reports, 2020, 32, 108163.	6.4	31
28	Behavior determines the hippocampal spatial mapping of a multisensory environment. Cell Reports, 2021, 36, 109444.	6.4	27
29	Two-Photon Imaging of Neural Activity in Awake Mobile Mice. Cold Spring Harbor Protocols, 2014, 2014, pdb.top081810-pdb.top081810.	0.3	25
30	The functional organization of excitatory synaptic input to place cells. Nature Communications, 2021, 12, 3558.	12.8	22
31	Information Theoretic Approaches to Deciphering the Neural Code with Functional Fluorescence Imaging. ENeuro, 2021, 8, ENEURO.0266-21.2021.	1.9	13
32	The binding solution?. Nature Neuroscience, 2015, 18, 1060-1062.	14.8	9
33	Multicolor Polymeric Nanoparticle Neuronal Tracers. ACS Central Science, 2020, 6, 436-445.	11.3	4
34	In vivo multiphoton microscopy of deep tissue with gradient index lenses. , 2004, , .		3