Timothy J. Buschman

List of Publications by Year in Descending Order

72 papers	23,016 citations	38 h-index	80 g-index
80 ext. papers	26,089 ext. citations	14.2 avg, IF	7.36 L-index

#	Paper	IF	Citations
72	In V1, attending is not learning to see.. *Neuron*, **2022**, 110, 561-563	13.9	
71	Shared mechanisms underlie the control of working memory and attention. *Nature*, **2021**, 592, 601-605	50.4	43
70	Rotational dynamics reduce interference between sensory and memory representations. *Nature Neuroscience*, **2021**, 24, 715-726	25.5	20
69	Is Activity Silent Working Memory Simply Episodic Memory?. *Trends in Cognitive Sciences*, **2021**, 25, 284-293	14	14
68	Balancing Flexibility and Interference in Working Memory. *Annual Review of Vision Science*, **2021**, 7, 367-388	8.2	3
67	Low-Dimensional Spatiotemporal Dynamics Underlie Cortex-wide Neural Activity. *Current Biology*, **2020**, 30, 2665-2680.e8	6.3	15
66	Drifting codes within a stable coding scheme for working memory. *PLoS Biology*, **2020**, 18, e3000625	9.7	14
65	Learning to control the brain through adaptive closed-loop patterned stimulation. *Journal of Neural Engineering*, **2020**, 17, 056007	5	4
64	Delay-period activity in frontal, parietal, and occipital cortex tracks noise and biases in visual working memory. *PLoS Biology*, **2020**, 18, e3000854	9.7	6
63	Drifting codes within a stable coding scheme for working memory **2020**, 18, e3000625		
62	Drifting codes within a stable coding scheme for working memory **2020**, 18, e3000625		
61	Drifting codes within a stable coding scheme for working memory **2020**, 18, e3000625		
60	Drifting codes within a stable coding scheme for working memory **2020**, 18, e3000625		
59	Drifting codes within a stable coding scheme for working memory **2020**, 18, e3000625		
58	Drifting codes within a stable coding scheme for working memory **2020**, 18, e3000625		
57	Delay-period activity in frontal, parietal, and occipital cortex tracks noise and biases in visual working memory **2020**, 18, e3000854		
56	Delay-period activity in frontal, parietal, and occipital cortex tracks noise and biases in visual working memory **2020**, 18, e3000854		

55	Delay-period activity in frontal, parietal, and occipital cortex tracks noise and biases in visual working memory **2020**, 18, e3000854		
54	Delay-period activity in frontal, parietal, and occipital cortex tracks noise and biases in visual working memory **2020**, 18, e3000854		
53	Delay-period activity in frontal, parietal, and occipital cortex tracks noise and biases in visual working memory **2020**, 18, e3000854		
52	Delay-period activity in frontal, parietal, and occipital cortex tracks noise and biases in visual working memory **2020**, 18, e3000854		
51	A Flexible Model of Working Memory. *Neuron*, **2019**, 103, 147-160.e8	13.9	61
50	Perineuronal Nets, Inhibitory Interneurons, and Anxiety-Related Ventral Hippocampal Neuronal Oscillations Are Altered by Early Life Adversity. *Biological Psychiatry*, **2019**, 85, 1011-1020	7.9	42
49	Error-correcting dynamics in visual working memory. *Nature Communications*, **2019**, 10, 3366	17.4	29
48	Working Memory Load Modulates Neuronal Coupling. *Cerebral Cortex*, **2019**, 29, 1670-1681	5.1	6
47	Evidence supporting a role for astrocytes in the regulation of cognitive flexibility and neuronal oscillations through the Ca2+ binding protein S100□*PLoS ONE*, **2018**, 13, e0195726	3.7	32
46	Intrinsic neuronal dynamics predict distinct functional roles during working memory. *Nature Communications*, **2018**, 9, 3499	17.4	53
45	Dynamic Coding for Flexible Cognitive Control **2017**, 221-241		7
44	Stimulus Load and Oscillatory Activity in Higher Cortex. *Cerebral Cortex*, **2016**, 26, 3772-84	5.1	43
43	Prefrontal Cortex Networks Shift from External to Internal Modes during Learning. *Journal of Neuroscience*, **2016**, 36, 9739-54	6.6	20
42	Gamma and Beta Bursts Underlie Working Memory. *Neuron*, **2016**, 90, 152-164	13.9	360
41	Working Memory Capacity: Limits on the Bandwidth of Cognition. *Daedalus*, **2015**, 144, 112-122	2	22
40	Cortical information flow during flexible sensorimotor decisions. *Science*, **2015**, 348, 1352-5	33.3	253
39	From Behavior to Neural Dynamics: An Integrated Theory of Attention. *Neuron*, **2015**, 88, 127-44	13.9	152
38	Paying Attention to the Details of Attention. *Neuron*, **2015**, 86, 1111-3	13.9	4

37	Goal-direction and top-down control. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369,	5.8	64
36	Prefrontal dopamine in associative learning and memory. *Neuroscience*, **2014**, 282, 217-29	3.9	68
35	PFC neurons reflect categorical decisions about ambiguous stimuli. *Journal of Cognitive Neuroscience*, **2014**, 26, 1283-91	3.1	23
34	Cortical circuits for the control of attention. *Current Opinion in Neurobiology*, **2013**, 23, 216-22	7.6	160
33	Synchronous oscillatory neural ensembles for rules in the prefrontal cortex. *Neuron*, **2012**, 76, 838-846	13.9	287
32	Comparison of primate prefrontal and premotor cortex neuronal activity during visual categorization. *Journal of Cognitive Neuroscience*, **2011**, 23, 3355-65	3.1	28
31	Neural substrates of cognitive capacity limitations. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 11252-5	11.5	182
30	Laminar differences in gamma and alpha coherence in the ventral stream. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 11262-7	11.5	431
29	Prefrontal cortex activity during flexible categorization. *Journal of Neuroscience*, **2010**, 30, 8519-28	6.6	101
28	Shifting the spotlight of attention: evidence for discrete computations in cognition. *Frontiers in Human Neuroscience*, **2010**, 4, 194	3.3	47
27	Serial, covert shifts of attention during visual search are reflected by the frontal eye fields and correlated with population oscillations. *Neuron*, **2009**, 63, 386-96	13.9	199
26	The representation of multiple objects in prefrontal neuronal delay activity. *Cerebral Cortex*, **2007**, 17 Suppl 1, i41-50	5.1	77
25	Top-down versus bottom-up control of attention in the prefrontal and posterior parietal cortices. *Science*, **2007**, 315, 1860-2	33.3	1604
24	A parieto-frontal network for visual numerical information in the monkey. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 7457-62	11.5	402
23	Single neurons in prefrontal cortex encode abstract rules. *Nature*, **2001**, 411, 953-6	50.4	749
22	Categorical representation of visual stimuli in the primate prefrontal cortex. *Science*, **2001**, 291, 312-6	33.3	799
21	An integrative theory of prefrontal cortex function. *Annual Review of Neuroscience*, **2001**, 24, 167-202	17	8548
20	The prefrontal cortex and cognitive control. *Nature Reviews Neuroscience*, **2000**, 1, 59-65	13.5	1451

19	Task-specific neural activity in the primate prefrontal cortex. *Journal of Neurophysiology*, **2000**, 84, 451-9	3.2	364
18	Prospective coding for objects in primate prefrontal cortex. *Journal of Neuroscience*, **1999**, 19, 5493-505	6.6	344
17	The prefrontal cortex: complex neural properties for complex behavior. *Neuron*, **1999**, 22, 15-7	13.9	224
16	Selective representation of relevant information by neurons in the primate prefrontal cortex. *Nature*, **1998**, 393, 577-9	50.4	500
15	Neural activity in the primate prefrontal cortex during associative learning. *Neuron*, **1998**, 21, 1399-407	13.9	460
14	Memory fields of neurons in the primate prefrontal cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 15008-13	11.5	241
13	Neural mechanisms of visual working memory in prefrontal cortex of the macaque. *Journal of Neuroscience*, **1996**, 16, 5154-67	6.6	1205
12	Parallel neuronal mechanisms for short-term memory. *Science*, **1994**, 263, 520-2	33.3	517
11	Activity of neurons in anterior inferior temporal cortex during a short-term memory task. *Journal of Neuroscience*, **1993**, 13, 1460-78	6.6	662
10	Scopolamine affects short-term memory but not inferior temporal neurons. *NeuroReport*, **1993**, 4, 81-4	1.7	55
9	A neural basis for visual search in inferior temporal cortex. *Nature*, **1993**, 363, 345-7	50.4	1115
8	Suppression of visual responses of neurons in inferior temporal cortex of the awake macaque by addition of a second stimulus. *Brain Research*, **1993**, 616, 25-9	3.7	182
7	Habituation-like decrease in the responses of neurons in inferior temporal cortex of the macaque. *Visual Neuroscience*, **1991**, 7, 357-62	1.7	136
6	A neural mechanism for working and recognition memory in inferior temporal cortex. *Science*, **1991**, 254, 1377-9	33.3	573
5	Low-Dimensional Spatio-Temporal Dynamics Underlie Cortex-Wide Neural Activity		2
4	Learning to Control the Brain through Adaptive Closed-Loop Patterned Stimulation		2
3	Selective control of working memory in prefrontal, parietal, and visual cortex		2
2	Error-correcting dynamics in visual working memory		3

1 Rotational Dynamics Reduce Interference Between Sensory and Memory Representations 2