## Robert C Froemke

List of Publications by Year in descending order

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Version: 2024-02-01

77 papers 8,522 citations

39 h-index 79698 73 g-index

105 all docs

105
docs citations

105 times ranked 8678 citing authors

#	Article	IF	CITATIONS
1	Automatic mapping of multiplexed social receptive fields by deep learning and GPU-accelerated 3D videography. Nature Communications, 2022, 13, 593.	12.8	9
2	Transactivation of TrkB Receptors by Oxytocin and Its G Protein-Coupled Receptor. Frontiers in Molecular Neuroscience, 2022, $15$ , .	2.9	8
3	Development and characterization of a chronic implant mouse model for vagus nerve stimulation. ELife, 2021, 10, .	6.0	28
4	Body language signals for rodent social communication. Current Opinion in Neurobiology, 2021, 68, 91-106.	4.2	30
5	Oxytocin, Neural Plasticity, and Social Behavior. Annual Review of Neuroscience, 2021, 44, 359-381.	10.7	168
6	Oxytocin neurons enable social transmission of maternal behaviour. Nature, 2021, 596, 553-557.	27.8	113
7	Bidirectional control of infant rat social behavior via dopaminergic innervation of the basolateral amygdala. Neuron, 2021, 109, 4018-4035.e7.	8.1	26
8	Dementiaâ€linked TDPâ€43 dysregulation in astrocytes impairs memory, antiviral signaling, and chemokineâ€mediated astrocyticâ€neuronal interactions. Alzheimer's and Dementia, 2021, 17, e058562.	0.8	1
9	Auditory cortical plasticity in cochlear implant users. Current Opinion in Neurobiology, 2020, 60, 108-114.	4.2	43
10	Innate and plastic mechanisms for maternal behaviour in auditory cortex. Nature, 2020, 587, 426-431.	27.8	64
11	Social Feedback During Sensorimotor Synchronization Changes Salivary Oxytocin and Behavioral States. Frontiers in Psychology, 2020, 11, 531046.	2.1	5
12	The Temporal Association Cortex Plays a Key Role in Auditory-Driven Maternal Plasticity. Neuron, 2020, 107, 566-579.e7.	8.1	61
13	Heterosynaptic Plasticity Determines the Set Point for Cortical Excitatory-Inhibitory Balance. Neuron, 2020, 106, 842-854.e4.	8.1	53
14	Locus coeruleus activation accelerates perceptual learning. Brain Research, 2019, 1709, 39-49.	2.2	67
15	Neuromodulation of maternal circuits by oxytocin. Cell and Tissue Research, 2019, 375, 57-68.	2.9	43
16	Dissociating task acquisition from expression during learning reveals latent knowledge. Nature Communications, 2019, 10, 2151.	12.8	20
17	Capacities and neural mechanisms for auditory statistical learning across species. Hearing Research, 2019, 376, 97-110.	2.0	5
18	Biological mechanisms for observational learning. Current Opinion in Neurobiology, 2019, 54, 178-185.	4.2	35

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19	Spike-timing-dependent ensemble encoding by non-classically responsive cortical neurons. ELife, 2019, 8, .	6.0	43
20	Oxytocin Reduces Alcohol Cue-Reactivity in Alcohol-Dependent Rats and Humans. Neuropsychopharmacology, 2018, 43, 1235-1246.	5.4	85
21	Rare missense coding variants in oxytocin receptor (OXTR) in schizophrenia cases are associated with early trauma exposure, cognition and emotional processing. Journal of Psychiatric Research, 2018, 97, 58-64.	3.1	9
22	Oxytocin Transforms Firing Mode of CA2 Hippocampal Neurons. Neuron, 2018, 100, 593-608.e3.	8.1	102
23	A low-cost, scalable, current-sensing digital headstage for high channel count (i) $\hat{l}/4$ (i) ECoG. Journal of Neural Engineering, 2017, 14, 026009.	3.5	17
24	Food restriction induces synaptic incorporation of calciumâ€permeable AMPA receptors in nucleus accumbens. European Journal of Neuroscience, 2017, 45, 826-836.	2.6	21
25	Dynamics of auditory cortical activity during behavioural engagement and auditory perception. Nature Communications, 2017, 8, 14412.	12.8	82
26	Anisomorphic cortical reorganization in asymmetric sensorineural hearing loss. Journal of Neurophysiology, 2017, 118, 932-948.	1.8	4
27	Synaptic Transmission Optimization Predicts Expression Loci of Long-Term Plasticity. Neuron, 2017, 96, 177-189.e7.	8.1	36
28	Functions and dysfunctions of neocortical inhibitory neuron subtypes. Nature Neuroscience, 2017, 20, 1199-1208.	14.8	116
29	Parallel processing by cortical inhibition enables context-dependent behavior. Nature Neuroscience, 2017, 20, 62-71.	14.8	307
30	<scp>O</scp> xytocin modulation of neural circuits for social behavior. Developmental Neurobiology, 2017, 77, 169-189.	3.0	98
31	Oxytocin Modulation of Neural Circuits. Current Topics in Behavioral Neurosciences, 2017, 35, 31-53.	1.7	45
32	Oxytocin and Brain Plasticity. , 2017, , 161-182.		13
33	Sex-Specific Differences in Oxytocin Receptor Expression and Function for Parental Behavior. , 2017, 1, $1-25$ .	0.8	6
34	A physiological and behavioral system for hearing restoration with cochlear implants. Journal of Neurophysiology, 2016, 116, 844-858.	1.8	17
35	Excitation-Transcription Coupling in Parvalbumin-Positive Interneurons Employs a Novel CaM Kinase-Dependent Pathway Distinct from Excitatory Neurons. Neuron, 2016, 90, 292-307.	8.1	81
36	A New Population of Parvocellular Oxytocin Neurons Controlling Magnocellular Neuron Activity and Inflammatory Pain Processing. Neuron, 2016, 89, 1291-1304.	8.1	314

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37	Diverging roles for Lrp4 and Wnt signaling in neuromuscular synapse development during evolution. Genes and Development, 2016, 30, 1058-1069.	5.9	46
38	Oxytocin Enhances Social Recognition by Modulating Cortical Control of Early Olfactory Processing. Neuron, 2016, 90, 609-621.	8.1	272
39	A low-cost, multiplexed <i><math>\hat{l}</math>/4 </i> ECoG system for high-density recordings in freely moving rodents. Journal of Neural Engineering, 2016, 13, 026030.	3.5	39
40	Effective Modulation of Male Aggression through Lateral Septum to Medial Hypothalamus Projection. Current Biology, 2016, 26, 593-604.	3.9	132
41	A Distributed Network for Social Cognition Enriched for Oxytocin Receptors. Journal of Neuroscience, 2016, 36, 2517-2535.	3.6	245
42	Persistent pain alters AMPA receptor subunit levels in the nucleus accumbens. Molecular Brain, 2015, 8, 46.	2.6	38
43	Rodent auditory perception: Critical band limitations and plasticity. Neuroscience, 2015, 296, 55-65.	2.3	16
44	Oxytocin enables maternal behaviour by balancing cortical inhibition. Nature, 2015, 520, 499-504.	27.8	585
45	Plasticity of Cortical Excitatory-Inhibitory Balance. Annual Review of Neuroscience, 2015, 38, 195-219.	10.7	355
46	Activation of Corticostriatal Circuitry Relieves Chronic Neuropathic Pain. Journal of Neuroscience, 2015, 35, 5247-5259.	3.6	224
47	Inhibitory and Excitatory Spike-Timing-Dependent Plasticity in the Auditory Cortex. Neuron, 2015, 86, 514-528.	8.1	169
48	Synaptic plasticity as a cortical coding scheme. Current Opinion in Neurobiology, 2015, 35, 185-199.	4.2	26
49	Coordinated forms of noradrenergic plasticity in the locus coeruleus and primary auditory cortex. Nature Neuroscience, 2015, 18, 1483-1492.	14.8	205
50	A low-cost, 61-channel & amp; #x00B5; ECoG array for use in rodents., 2015, , .		9
51	Unified pre- and postsynaptic long-term plasticity enables reliable and flexible learning. ELife, 2015, 4, .	6.0	44
52	Maturation of cortical circuits requires Semaphorin 7A. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13978-13983.	7.1	34
53	Synaptic plasticity and cognitive function are disrupted in the absence of Lrp4. ELife, 2014, 3, e04287.	6.0	40
54	Cortical Plasticity, Excitatory–Inhibitory Balance, and Sensory Perception. Progress in Brain Research, 2013, 207, 65-90.	1.4	100

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55	Long-term modification of cortical synapses improves sensory perception. Nature Neuroscience, 2013, 16, 79-88.	14.8	193
56	Sucrose Ingestion Induces Rapid AMPA Receptor Trafficking. Journal of Neuroscience, 2013, 33, 6123-6132.	3.6	31
57	Calcium-Permeable AMPA Receptors in the Nucleus Accumbens Regulate Depression-Like Behaviors in the Chronic Neuropathic Pain State. Journal of Neuroscience, 2013, 33, 19034-19044.	3.6	120
58	Learning complex temporal patterns with resource-dependent spike timing-dependent plasticity. Journal of Neurophysiology, 2012, 108, 551-566.	1.8	10
59	Intrinsically determined cell death of developing cortical interneurons. Nature, 2012, 491, 109-113.	27.8	293
60	Spectrotemporal dynamics of auditory cortical synaptic receptive field plasticity. Hearing Research, 2011, 279, 149-161.	2.0	33
61	Development of auditory cortical synaptic receptive fields. Neuroscience and Biobehavioral Reviews, 2011, 35, 2105-2113.	6.1	59
62	Spectral Processing in Auditory Cortex. , 2011, , 275-308.		13
63	Developmental sensory experience balances cortical excitation and inhibition. Nature, 2010, 465, 932-936.	27.8	273
64	Temporal modulation of spike-timing-dependent plasticity. Frontiers in Synaptic Neuroscience, 2010, 2, 19.	2.5	57
65	Dendritic synapse location and neocortical spike-timing-dependent plasticity. Frontiers in Synaptic Neuroscience, 2010, 2, 29.	2.5	67
66	Cortical Plasticity Induced by Inhibitory Neuron Transplantation. Science, 2010, 327, 1145-1148.	12.6	256
67	Requirement of an Allosteric Kinetics of NMDA Receptors for Spike Timing-Dependent Plasticity. Journal of Neuroscience, 2008, 28, 3310-3323.	3.6	70
68	A synaptic memory trace for cortical receptive field plasticity. Nature, 2007, 450, 425-429.	27.8	541
69	Contribution of Individual Spikes in Burst-Induced Long-Term Synaptic Modification. Journal of Neurophysiology, 2006, 95, 1620-1629.	1.8	182
70	Spike-timing-dependent synaptic plasticity depends on dendritic location. Nature, 2005, 434, 221-225.	27.8	354
71	A Form of Presynaptic Coincidence Detection. Neuron, 2003, 39, 579-581.	8.1	2
72	Temporal Synaptic Tagging by Ih Activation and Actin. Neuron, 2002, 33, 601-613.	8.1	69

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73	Analysis of Multineuronal Activation Patterns from Calcium-Imaging Experiments in Brain Slices. Trends in Cardiovascular Medicine, 2002, 12, 247-252.	4.9	6
74	Spike-timing-dependent synaptic modification induced by natural spike trains. Nature, 2002, 416, 433-438.	27.8	702
75	Phosphorylation and Local Presynaptic Protein Synthesis in Calcium- and Calcineurin-Dependent Induction of Crayfish Long-Term Facilitation. Neuron, 2001, 32, 489-501.	8.1	87
76	Dynamics of Spontaneous Activity in Neocortical Slices. Neuron, 2001, 32, 883-898.	8.1	287
77	Temporal Association Cortex - A Cortical Hub for Processing Infant Vocalizations. SSRN Electronic Journal, 0, , .	0.4	1