

Alan Carleton

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

5,273
citations

159585

30
h-index

175258

52
g-index

66
all docs

66
docs citations

66
times ranked

5591
citing authors

#	ARTICLE	IF	CITATIONS
1	Superior Colliculus to VTA pathway controls orienting response and influences social interaction in mice. <i>Nature Communications</i> , 2022, 13, 817.	12.8	19
2	Paradoxical neuronal hyperexcitability in a mouse model of mitochondrial pyruvate import deficiency. <i>ELife</i> , 2022, 11, .	6.0	21
3	Transcriptional adaptation of olfactory sensory neurons to GPCR identity and activity. <i>Nature Communications</i> , 2022, 13, .	12.8	13
4	From immune to olfactory expression: neofunctionalization of formyl peptide receptors. <i>Cell and Tissue Research</i> , 2021, 383, 387-393.	2.9	8
5	SARS-CoV-2 Receptors and Entry Genes Are Expressed in the Human Olfactory Neuroepithelium and Brain. <i>IScience</i> , 2020, 23, 101839.	4.1	173
6	Dynamic perceptual feature selectivity in primary somatosensory cortex upon reversal learning. <i>Nature Communications</i> , 2020, 11, 3245.	12.8	19
7	Similarity and Strength of Glomerular Odor Representations Define a Neural Metric of Sniff-Invariant Discrimination Time. <i>Cell Reports</i> , 2019, 28, 2966-2978.e5.	6.4	19
8	Transient Deregulation of Canonical Wnt Signaling in Developing Pyramidal Neurons Leads to Dendritic Defects and Impaired Behavior. <i>Cell Reports</i> , 2019, 27, 1487-1502.e6.	6.4	7
9	Restoring wild-type-like CA1 network dynamics and behavior during adulthood in a mouse model of schizophrenia. <i>Nature Neuroscience</i> , 2018, 21, 1412-1420.	14.8	53
10	Context- and Output Layer-Dependent Long-Term Ensemble Plasticity in a Sensory Circuit. <i>Neuron</i> , 2017, 93, 1198-1212.e5.	8.1	70
11	Evolution of immune chemoreceptors into sensors of the outside world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7397-7402.	7.1	24
12	Disruption of Kcc2-dependent inhibition of olfactory bulb output neurons suggests its importance in odour discrimination. <i>Nature Communications</i> , 2016, 7, 12043.	12.8	14
13	Alteration of Nrp1 signaling at different stages of olfactory neuron maturation promotes glomerular shifts along distinct axes in the olfactory bulb. <i>Development (Cambridge)</i> , 2016, 143, 3817-3825.	2.5	20
14	Dense encoding of natural odorants by ensembles of sparsely activated neurons in the olfactory bulb. <i>Scientific Reports</i> , 2016, 6, 36514.	3.3	16
15	The Vomeronasal System Mediates Sick Conspecific Avoidance. <i>Current Biology</i> , 2015, 25, 251-255.	3.9	96
16	Sensory-Evoked Intrinsic Imaging Signals in the Olfactory Bulb Are Independent of Neurovascular Coupling. <i>Cell Reports</i> , 2015, 12, 313-325.	6.4	25
17	Neuronal pattern separation in the olfactory bulb improves odor discrimination learning. <i>Nature Neuroscience</i> , 2015, 18, 1474-1482.	14.8	165
18	Large-scale transcriptional profiling of chemosensory neurons identifies receptor-ligand pairs in vivo. <i>Nature Neuroscience</i> , 2015, 18, 1455-1463.	14.8	119

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19	Long term functional plasticity of sensory inputs mediated by olfactory learning. <i>ELife</i> , 2014, 3, e02109.	6.0	53
20	A population of glomerular glutamatergic neurons controls sensory information transfer in the mouse olfactory bulb. <i>Nature Communications</i> , 2014, 5, 3791.	12.8	36
21	Sensory-evoked LTP driven by dendritic plateau potentials in vivo. <i>Nature</i> , 2014, 515, 116-119.	27.8	239
22	On flux-limited morphogenesis. <i>Physics of Life Reviews</i> , 2013, 10, 495-497.	2.8	1
23	Convergence of FPR-rs3-expressing neurons in the mouse accessory olfactory bulb. <i>Molecular and Cellular Neurosciences</i> , 2013, 56, 140-147.	2.2	11
24	Morphogenetic action through flux-limited spreading. <i>Physics of Life Reviews</i> , 2013, 10, 457-475.	2.8	51
25	Odor representations in the olfactory bulb evolve after the first breath and persist as an odor afterimage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3340-9.	7.1	84
26	Dense representation of natural odorants in the mouse olfactory bulb. <i>Nature Neuroscience</i> , 2012, 15, 537-539.	14.8	83
27	Encoding Odorant Identity by Spiking Packets of Rate-Invariant Neurons in Awake Mice. <i>PLoS ONE</i> , 2012, 7, e30155.	2.5	58
28	Similar Odor Discrimination Behavior in Head-Restrained and Freely Moving Mice. <i>PLoS ONE</i> , 2012, 7, e51789.	2.5	41
29	Coding in the mammalian gustatory system. <i>Trends in Neurosciences</i> , 2010, 33, 326-334.	8.6	162
30	Fast Ray features for learning irregular shapes. , 2009, , .		40
31	Temporal Coding in Olfaction. <i>Frontiers in Neuroscience</i> , 2009, , 329-351.	0.0	7
32	Inferring connection proximity in networks of electrically coupled cells by subthreshold frequency response analysis. <i>Journal of Computational Neuroscience</i> , 2008, 24, 330-345.	1.0	5
33	Dynamic Ensemble Odor Coding in the Mammalian Olfactory Bulb: Sensory Information at Different Timescales. <i>Neuron</i> , 2008, 57, 586-598.	8.1	246
34	Internal body state influences topographical plasticity of sensory representations in the rat gustatory cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4010-4015.	7.1	97
35	Gamma Oscillations in a Nonlinear Regime: A Minimal Model Approach Using Heterogeneous Integrate-and-Fire Networks. <i>Neural Computation</i> , 2008, 20, 2973-3002.	2.2	25
36	General constraints for batch Multiple-Target Tracking applied to large-scale videomicroscopy. , 2008, , .		20

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37	Differential Spatial Representation of Taste Modalities in the Rat Gustatory Cortex. <i>Journal of Neuroscience</i> , 2007, 27, 1396-1404.	3.6	199
38	Demonstration of cortical recording and reduced inflammatory response using flexible polymer neural probes. , 2007, , .		7
39	WAVELET-BASED STATISTICAL ANALYSIS FOR OPTICAL IMAGING IN MOUSE OLFACTORY BULB. , 2007, , .		0
40	Wavelet-based multi-resolution statistics for optical imaging signals: Application to automated detection of odour activated glomeruli in the mouse olfactory bulb. <i>NeuroImage</i> , 2007, 34, 1020-1035.	4.2	31
41	Combined Voltage and Calcium Epifluorescence Imaging In Vitro and In Vivo Reveals Subthreshold and Suprathreshold Dynamics of Mouse Barrel Cortex. <i>Journal of Neurophysiology</i> , 2007, 97, 3751-3762.	1.8	162
42	Sonic hedgehog controls stem cell behavior in the postnatal and adult brain. <i>Development (Cambridge)</i> , 2005, 132, 335-344.	2.5	539
43	Interplay between Local GABAergic Interneurons and Relay Neurons Generates δ Oscillations in the Rat Olfactory Bulb. <i>Journal of Neuroscience</i> , 2004, 24, 4382-4392.	3.6	243
44	Maintaining Accuracy at the Expense of Speed. <i>Neuron</i> , 2004, 44, 865-876.	8.1	251
45	Maintaining Accuracy at the Expense of Speed Stimulus Similarity Defines Odor Discrimination Time in Mice. <i>Neuron</i> , 2004, 44, 865-876.	8.1	260
46	Local neurons play key roles in the mammalian olfactory bulb. <i>Journal of Physiology (Paris)</i> , 2003, 97, 517-528.	2.1	28
47	Becoming a new neuron in the adult olfactory bulb. <i>Nature Neuroscience</i> , 2003, 6, 507-518.	14.8	732
48	Subpallial origin of a population of projecting pioneer neurons during corticogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12468-12473.	7.1	67
49	Making scents of olfactory neurogenesis. <i>Journal of Physiology (Paris)</i> , 2002, 96, 115-122.	2.1	28
50	Dose-dependent, prion protein (PrP)-mediated facilitation of excitatory synaptic transmission in the mouse hippocampus. <i>Pflügers Archiv European Journal of Physiology</i> , 2001, 442, 223-229.	2.8	43
51	A dendrodendritic reciprocal synapse provides a recurrent excitatory connection in the olfactory bulb. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 6441-6446.	7.1	70
52	Physiology and molecular biology brought to single-cell level. <i>Methods in Enzymology</i> , 2000, 313, 143-156.	1.0	0
53	bicoid-Independent Formation of Thoracic Segments in <i>Drosophila</i> . <i>Science</i> , 2000, 287, 2476-2479.	12.6	96
54	Multiple and Opposing Roles of Cholinergic Transmission in the Main Olfactory Bulb. <i>Journal of Neuroscience</i> , 1999, 19, 9180-9191.	3.6	144

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55	Long-term but not short-term plasticity at mossy fiber synapses is impaired in neural cell adhesion molecule-deficient mice. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 13242-13247.	7.1	204
56	MÃ©moire olfactive et migration neuronale chez l'adulte.. Medecine/Sciences, 1998, 14, 771.	0.2	1
57	Wavelet-Based Detection of Stimulus Responses in Time-Lapse Microscopy. , 0, , .		0