

Richard Axel

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

14,790
citations

28
h-index

46
g-index

46
ext. papers

16,915
ext. citations

33.6
avg, IF

6.33
L-index

#	Paper	IF	Citations
44	A novel multigene family may encode odorant receptors: a molecular basis for odor recognition. <i>Cell</i> , 1991 , 65, 175-87	56.2	374 ^o
43	Visualizing an olfactory sensory map. <i>Cell</i> , 1996 , 87, 675-86	56.2	1638
42	Topographic organization of sensory projections to the olfactory bulb. <i>Cell</i> , 1994 , 79, 981-91	56.2	1054
41	A spatial map of olfactory receptor expression in the Drosophila antenna. <i>Cell</i> , 1999 , 96, 725-36	56.2	902
40	An olfactory sensory map in the fly brain. <i>Cell</i> , 2000 , 102, 147-59	56.2	827
39	Two-photon calcium imaging reveals an odor-evoked map of activity in the fly brain. <i>Cell</i> , 2003 , 112, 271-82	56.2	661
38	The neuronal architecture of the mushroom body provides a logic for associative learning. <i>ELife</i> , 2014 , 3, e04577	8.9	538
37	Crystal structure of an HIV-binding recombinant fragment of human CD4. <i>Nature</i> , 1990 , 348, 419-26	50.4	526
36	A chemosensory gene family encoding candidate gustatory and olfactory receptors in Drosophila. <i>Cell</i> , 2001 , 104, 661-73	56.2	522
35	A soluble form of CD4 (T4) protein inhibits AIDS virus infection. <i>Nature</i> , 1988 , 331, 82-4	50.4	520
34	Spatial representation of the glomerular map in the Drosophila protocerebrum. <i>Cell</i> , 2002 , 109, 229-41	56.2	469
33	A single population of olfactory sensory neurons mediates an innate avoidance behaviour in Drosophila. <i>Nature</i> , 2004 , 431, 854-9	50.4	421
32	Representations of odor in the piriform cortex. <i>Neuron</i> , 2009 , 63, 854-64	13.9	412
31	Distinct representations of olfactory information in different cortical centres. <i>Nature</i> , 2011 , 472, 213-6	50.4	328
30	The Drosophila pheromone cVA activates a sexually dimorphic neural circuit. <i>Nature</i> , 2008 , 452, 473-7	50.4	274
29	Random convergence of olfactory inputs in the Drosophila mushroom body. <i>Nature</i> , 2013 , 497, 113-7	50.4	257
28	A dimorphic pheromone circuit in Drosophila from sensory input to descending output. <i>Nature</i> , 2010 , 468, 686-90	50.4	253

27	Visualizing neuromodulation in vivo: TANGO-mapping of dopamine signaling reveals appetite control of sugar sensing. <i>Cell</i> , 2012 , 148, 583-95	56.2	207
26	The participation of cortical amygdala in innate, odour-driven behaviour. <i>Nature</i> , 2014 , 515, 269-73	50.4	184
25	Optimal Degrees of Synaptic Connectivity. <i>Neuron</i> , 2017 , 93, 1153-1164.e7	13.9	143
24	Neural Representations of Unconditioned Stimuli in Basolateral Amygdala Mediate Innate and Learned Responses. <i>Cell</i> , 2015 , 162, 134-45	56.2	136
23	Recurrent circuitry dynamically shapes the activation of piriform cortex. <i>Neuron</i> , 2011 , 72, 49-56	13.9	136
22	Scents and sensibility: a molecular logic of olfactory perception (Nobel lecture). <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6110-27	16.4	132
21	Generating sparse and selective third-order responses in the olfactory system of the fly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10713-8	11.5	121
20	Editing of glutamate receptor subunit B pre-mRNA in vitro by site-specific deamination of adenosine. <i>Nature</i> , 1995 , 374, 77-81	50.4	121
19	Representations of Novelty and Familiarity in a Mushroom Body Compartment. <i>Cell</i> , 2017 , 169, 956-969.e1-2	56.2	69
18	Identifying functional connections of the inner photoreceptors in Drosophila using Tango-Trace. <i>Neuron</i> , 2014 , 83, 630-44	13.9	34
17	Representational drift in primary olfactory cortex. <i>Nature</i> , 2021 , 594, 541-546	50.4	29
16	Odor Perception on the Two Sides of the Brain: Consistency Despite Randomness. <i>Neuron</i> , 2018 , 98, 736-742.e3	13.9	25
15	Acetic acid activates distinct taste pathways in to elicit opposing, state-dependent feeding responses. <i>ELife</i> , 2019 , 8,	8.9	24
14	The pheromone darcin drives a circuit for innate and reinforced behaviours. <i>Nature</i> , 2020 , 578, 137-141	50.4	23
13	Context-Dependent Decision Making in a Premotor Circuit. <i>Neuron</i> , 2020 , 106, 316-328.e6	13.9	22
12	Transient and Persistent Representations of Odor Value in Prefrontal Cortex. <i>Neuron</i> , 2020 , 108, 209-224.e6	36	15
11	A virtual burrow assay for head-fixed mice measures habituation, discrimination, exploration and avoidance without training. <i>ELife</i> , 2019 , 8,	8.9	6
10	Flygenectors: The spatial and temporal structure of neural activity across the fly brain		5

9	Olfactory landmarks and path integration converge to form a cognitive spatial map. <i>Neuron</i> , 2021 ,	13.9	4
8	Representational drift in primary olfactory cortex		4
7	Individual bitter-sensing neurons in Drosophila exhibit both ON and OFF responses that influence synaptic plasticity. <i>Current Biology</i> , 2021 ,	6.3	2
6	Author response: Acetic acid activates distinct taste pathways in Drosophila to elicit opposing, state-dependent feeding responses 2019 ,		2
5	Author response: The neuronal architecture of the mushroom body provides a logic for associative learning 2014 ,		2
4	Evolving the olfactory system with machine learning. <i>Neuron</i> , 2021 , 109, 3879-3892.e5	13.9	1
3	Individual bitter-sensing neurons in Drosophila exhibit both ON and OFF responses that influence synaptic plasticity		1
2	Synaptic Organization of Anterior Olfactory Nucleus Inputs to Piriform Cortex. <i>Journal of Neuroscience</i> , 2020 , 40, 9414-9425	6.6	0
1	Embryonic development of the camouflaging dwarf cuttlefish, <i>Sepia bandensis</i> . <i>Developmental Dynamics</i> , 2021 , 250, 1688-1703	2.9	0