David Julius

List of Publications by Year
in descending order

32	13,409	201674 27	434195 31
papers	citations	h-index	g-index

34	34	34	10768
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identification of a cold receptor reveals a general role for TRP channels in thermosensation. Nature, 2002, 416, 52-58.	27.8	2,280
2	Mustard oils and cannabinoids excite sensory nerve fibres through the TRP channel ANKTM1. Nature, 2004, 427, 260-265.	27.8	1,706
3	Structure of the TRPV1 ion channel determined by electron cryo-microscopy. Nature, 2013, 504, 107-112.	27.8	1,451
4	The menthol receptor TRPM8 is the principal detector of environmental cold. Nature, 2007, 448, 204-208.	27.8	1,110
5	TRP Channels and Pain. Annual Review of Cell and Developmental Biology, 2013, 29, 355-384.	9.4	927
6	TRPV1 structures in distinct conformations reveal activation mechanisms. Nature, 2013, 504, 113-118.	27.8	895
7	TRP channel activation by reversible covalent modification. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19564-19568.	7.1	795
8	TRPV1 structures in nanodiscs reveal mechanisms of ligand and lipid action. Nature, 2016, 534, 347-351.	27.8	702
9	Enterochromaffin Cells Are Gut Chemosensors that Couple to Sensory Neural Pathways. Cell, 2017, 170, 185-198.e16.	28.9	568
10	Structure of the TRPA1 ion channel suggests regulatory mechanisms. Nature, 2015, 520, 511-517.	27.8	522
11	Molecular basis of infrared detection by snakes. Nature, 2010, 464, 1006-1011.	27.8	378
12	The Super-Cooling Agent Icilin Reveals a Mechanism of Coincidence Detection by a Temperature-Sensitive TRP Channel. Neuron, 2004, 43, 859-869.	8.1	291
13	X-Ray Structure of Acid-Sensing Ion Channel 1â€“Snake Toxin Complex Reveals Open State of a Na+-Selective Channel. Cell, 2014, 156, 717-729.	28.9	264
14	Selective spider toxins reveal a role for the Nav1.1 channel in mechanical pain. Nature, 2016, 534, 494-499.	27.8	239
15	Structure of the human TRPM4 ion channel in a lipid nanodisc. Science, 2018, 359, 228-232.	12.6	219
16	Cytoplasmic ankyrin repeats of transient receptor potential A1 (TRPA1) dictate sensitivity to thermal and chemical stimuli. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E1184-91.	7.1	192
17	Structural insights into TRPM8 inhibition and desensitization. Science, 2019, 365, 1434-1440.	12.6	118
18	Structural snapshots of TRPV1 reveal mechanism of polymodal functionality. Cell, 2021, 184, 5138-5150.e12.	28.9	101

#	Article	IF	Citations
19	Irritant-evoked activation and calcium modulation of the TRPA1 receptor. Nature, 2020, 585, 141-145.	27.8	93
20	Molecular basis of ancestral vertebrate electroreception. Nature, 2017, 543, 391-396.	27.8	84
21	Single particle electron cryo-microscopy of a mammalian ion channel. Current Opinion in Structural Biology, 2014, 27, 1-7.	5.7	79
22	Structural insight into TRPV5 channel function and modulation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8869-8878.	7.1	78
23	A Cell-Penetrating Scorpion Toxin Enables Mode-Specific Modulation of TRPA1 and Pain. Cell, 2019, 178, 1362-1374.e16.	28.9	72
24	Membrane mimetic systems in CryoEM: keeping membrane proteins in their native environment. Current Opinion in Structural Biology, 2019, 58, 259-268.	5.7	60
25	Molecular tuning of electroreception in sharks and skates. Nature, 2018, 558, 122-126.	27.8	43
26	Lys49 myotoxin from the Brazilian lancehead pit viper elicits pain through regulated ATP release. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2524-E2532.	7.1	37
27	Pharmacology of the Na _v 1.1 domain IV voltage sensor reveals coupling between inactivation gating processes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6836-6841.	7.1	30
28	Tissue-specific contributions of Tmem79 to atopic dermatitis and mast cell-mediated histaminergic itch. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E12091-E12100.	7.1	30
29	Sensory TRP Channels in Three Dimensions. Annual Review of Biochemistry, 2022, 91, 629-649.	11.1	22
30	From peppers to peppermints: natural products as probes of the pain pathway. Harvey Lectures, 2005, 101, 89-115.	0.2	15
31	Editorial overview: Molecular biology of sensation. Current Opinion in Neurobiology, 2015, 34, v-vi.	4.2	2
32	Stephen F. Heinemann: A true original. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14314-14315.	7.1	0