

David Julius

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.

31
papers

10,540
citations

24
h-index

34
g-index

34
ext. papers

12,157
ext. citations

32.5
avg. IF

6.65
L-index

#	Paper	IF	Citations
31	Identification of a cold receptor reveals a general role for TRP channels in thermosensation. <i>Nature</i> , 2002 , 416, 52-8	50.4	1910
30	Mustard oils and cannabinoids excite sensory nerve fibres through the TRP channel ANKTM1. <i>Nature</i> , 2004 , 427, 260-5	50.4	1514
29	Structure of the TRPV1 ion channel determined by electron cryo-microscopy. <i>Nature</i> , 2013 , 504, 107-12	50.4	1150
28	The menthol receptor TRPM8 is the principal detector of environmental cold. <i>Nature</i> , 2007 , 448, 204-8	50.4	885
27	TRPV1 structures in distinct conformations reveal activation mechanisms. <i>Nature</i> , 2013 , 504, 113-8	50.4	715
26	TRP channels and pain. <i>Annual Review of Cell and Developmental Biology</i> , 2013 , 29, 355-84	12.6	702
25	TRP channel activation by reversible covalent modification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 19564-8	11.5	692
24	TRPV1 structures in nanodiscs reveal mechanisms of ligand and lipid action. <i>Nature</i> , 2016 , 534, 347-51	50.4	520
23	Structure of the TRPA1 ion channel suggests regulatory mechanisms. <i>Nature</i> , 2015 , 520, 511-7	50.4	389
22	Enterochromaffin Cells Are Gut Chemosensors that Couple to Sensory Neural Pathways. <i>Cell</i> , 2017 , 170, 185-198.e16	56.2	364
21	Molecular basis of infrared detection by snakes. <i>Nature</i> , 2010 , 464, 1006-11	50.4	287
20	The super-cooling agent icilin reveals a mechanism of coincidence detection by a temperature-sensitive TRP channel. <i>Neuron</i> , 2004 , 43, 859-69	13.9	257
19	X-ray structure of acid-sensing ion channel 1-snake toxin complex reveals open state of a Na(+)-selective channel. <i>Cell</i> , 2014 , 156, 717-29	56.2	192
18	Selective spider toxins reveal a role for the Nav1.1 channel in mechanical pain. <i>Nature</i> , 2016 , 534, 494-9	50.4	190
17	Structure of the human TRPM4 ion channel in a lipid nanodisc. <i>Science</i> , 2018 , 359, 228-232	33.3	154
16	Cytoplasmic ankyrin repeats of transient receptor potential A1 (TRPA1) dictate sensitivity to thermal and chemical stimuli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E1184-91	11.5	153
15	Single particle electron cryo-microscopy of a mammalian ion channel. <i>Current Opinion in Structural Biology</i> , 2014 , 27, 1-7	8.1	71

14	Structural insights into TRPM8 inhibition and desensitization. <i>Science</i> , 2019 , 365, 1434-1440	33.3	66
13	Molecular basis of ancestral vertebrate electroreception. <i>Nature</i> , 2017 , 543, 391-396	50.4	53
12	A Cell-Penetrating Scorpion Toxin Enables Mode-Specific Modulation of TRPA1 and Pain. <i>Cell</i> , 2019 , 178, 1362-1374.e16	56.2	44
11	Structural insight into TRPV5 channel function and modulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8869-8878	11.5	42
10	Irritant-evoked activation and calcium modulation of the TRPA1 receptor. <i>Nature</i> , 2020 , 585, 141-145	50.4	40
9	Membrane mimetic systems in CryoEM: keeping membrane proteins in their native environment. <i>Current Opinion in Structural Biology</i> , 2019 , 58, 259-268	8.1	30
8	Molecular tuning of electroreception in sharks and skates. <i>Nature</i> , 2018 , 558, 122-126	50.4	24
7	Lys49 myotoxin from the Brazilian lancehead pit viper elicits pain through regulated ATP release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2524-E2532	11.5	23
6	Pharmacology of the Na1.1 domain IV voltage sensor reveals coupling between inactivation gating processes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6836-6841	11.5	19
5	Structural snapshots of TRPV1 reveal mechanism of polymodal functionality. <i>Cell</i> , 2021 , 184, 5138-5150.e12	56.2	18
4	Tissue-specific contributions of to atopic dermatitis and mast cell-mediated histaminergic itch. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E12091-E12100	11.5	17
3	From peppers to peppermints: natural products as probes of the pain pathway. <i>Harvey Lectures</i> , 2005 , 101, 89-115		12
2	Mechanisms governing irritant-evoked activation and calcium modulation of TRPA1		4
1	Stephen F. Heinemann: A true original. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14314-5	11.5	