Emily R Liman

List of Publications by Citations

52 papers	5,291 citations	31 h-index	57 g-index
57 ext. papers	5,790 ext. citations	10.8 avg, IF	5.69 L-index

#	Paper	IF	Citations
52	Subunit stoichiometry of a mammalian K+ channel determined by construction of multimeric cDNAs. *Neuron*, **1992**, 9, 861-71	13.9	992
51	Intracellular Ca2+ and the phospholipid PIP2 regulate the taste transduction ion channel TRPM5. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 15160-5	11.5	349
50	TRP2: a candidate transduction channel for mammalian pheromone sensory signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 5791-6	11.5	344
49	A second subunit of the olfactory cyclic nucleotide-gated channel confers high sensitivity to cAMP. *Neuron*, **1994**, 13, 611-21	13.9	312
48	Peripheral coding of taste. *Neuron*, **2014**, 81, 984-1000	13.9	273
47	Voltage-sensing residues in the S4 region of a mammalian K+ channel. *Nature*, **1991**, 353, 752-6	50.4	259
46	The nociceptor ion channel TRPA1 is potentiated and inactivated by permeating calcium ions. *Journal of Biological Chemistry*, **2008**, 283, 32691-703	5.4	199
45	Relaxed selective pressure on an essential component of pheromone transduction in primate evolution. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 3328-32	11.5	184
44	Recombinant probes for visualizing endogenous synaptic proteins in living neurons. *Neuron*, **2013**, 78, 971-85	13.9	168
43	Diversity in the neural circuitry of cold sensing revealed by genetic axonal labeling of transient receptor potential melastatin 8 neurons. *Journal of Neuroscience*, **2007**, 27, 14147-57	6.6	166
42	The transduction channel TRPM5 is gated by intracellular calcium in taste cells. *Journal of Neuroscience*, **2007**, 27, 5777-86	6.6	150
41	Phosphatidylinositol 4,5-bisphosphate rescues TRPM4 channels from desensitization. *Journal of Biological Chemistry*, **2005**, 280, 39185-92	5.4	140
40	A proton current drives action potentials in genetically identified sour taste cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 22320-5	11.5	127
39	An evolutionarily conserved gene family encodes proton-selective ion channels. *Science*, **2018**, 359, 1047-1050	33.9	120
38	Evidence for distinct signaling mechanisms in two mammalian olfactory sense organs. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 2365-9	11.5	119
37	Gating mechanism of a cloned potassium channel expressed in frog oocytes and mammalian cells. *Neuron*, **1990**, 4, 39-51	13.9	119
36	TRPA1 is a component of the nociceptive response to CO2. *Journal of Neuroscience*, **2010**, 30, 12958-63	6.6	109

35	An evolutionarily conserved dileucine motif in Shal K+ channels mediates dendritic targeting. *Nature Neuroscience*, **2003**, 6, 243-50	25.5	108
34	Grey squirrels remember the locations of buried nuts. *Animal Behaviour*, **1991**, 41, 103-110	2.8	104
33	Electrophysiological characterization of chemosensory neurons from the mouse vomeronasal organ. *Journal of Neuroscience*, **1996**, 16, 4625-37	6.6	99
32	A TRPA1-dependent mechanism for the pungent sensation of weak acids. *Journal of General Physiology*, **2011**, 137, 493-505	3.4	87
31	The K+ channel KIR2.1 functions in tandem with proton influx to mediate sour taste transduction. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E229-38	11.5	85
30	Enhancement of kainate-gated currents in retinal horizontal cells by cyclic AMP-dependent protein kinase. *Brain Research*, **1989**, 481, 399-402	3.7	78
29	Cellular and Neural Responses to Sour Stimuli Require the Proton Channel Otop1. *Current Biology*, **2019**, 29, 3647-3656.e5	6.3	74
28	Regulation by voltage and adenine nucleotides of a Ca2+-activated cation channel from hamster vomeronasal sensory neurons. *Journal of Physiology*, **2003**, 548, 777-87	3.9	64
27	Ultrastructural localization of G-proteins and the channel protein TRP2 to microvilli of rat vomeronasal receptor cells. *Journal of Comparative Neurology*, **2001**, 438, 468-89	3.4	56
26	TRPM5-expressing microvillous cells in the main olfactory epithelium. *BMC Neuroscience*, **2008**, 9, 114	3.2	55
25	Use it or lose it: molecular evolution of sensory signaling in primates. *Pflugers Archiv European Journal of Physiology*, **2006**, 453, 125-31	4.6	49
24	Extracellular acid block and acid-enhanced inactivation of the Ca2+-activated cation channel TRPM5 involve residues in the S3-S4 and S5-S6 extracellular domains. *Journal of Biological Chemistry*, **2005**, 280, 20691-9	5.4	48
23	Degeneration of the olfactory guanylyl cyclase D gene during primate evolution. *PLoS ONE*, **2007**, 2, e884	3.7	44
22	A proton current associated with sour taste: distribution and functional properties. *FASEB Journal*, **2015**, 29, 3014-26	0.9	31
21	Structures of the otopetrin proton channels Otop1 and Otop3. *Nature Structural and Molecular Biology*, **2019**, 26, 518-525	17.6	28
20	Pheromone transduction in the vomeronasal organ. *Current Opinion in Neurobiology*, **1996**, 6, 487-93	7.6	24
19	TRPM5. *Handbook of Experimental Pharmacology*, **2014**, 222, 489-502	3.2	22
18	Synthesis and biological activity of phospholipase C-resistant analogues of phosphatidylinositol 4,5-bisphosphate. *Journal of the American Chemical Society*, **2006**, 128, 5642-3	16.4	21

17	A TRP channel contributes to insulin secretion by pancreatic cells. *Islets*, **2010**, 2, 331-3	2	10
16	Sour taste: receptors, cells and circuits. *Current Opinion in Physiology*, **2021**, 20, 8-15	2.6	9
15	Changing senses: chemosensory signaling and primate evolution. *Advances in Experimental Medicine and Biology*, **2012**, 739, 206-17	3.6	8
14	Thermal gating of TRP ion channels: food for thought?. *Science Signaling*, **2006**, 2006, pe12	8.8	8
13	The Ca2+-Activated TRP Channels. *Frontiers in Neuroscience*, **2006**, 203-211		8
12	Activation Stoichiometry and Pore Architecture of TRPA1 Probed with Channel Concatemers. *Scientific Reports*, **2018**, 8, 17104	4.9	8
11	A double TRPtych: six views of transient receptor potential channels in disease and health. *Journal of Neuroscience*, **2008**, 28, 11778-84	6.6	6
10	Sex and the single neuron: pheromones excite. *Trends in Neurosciences*, **2001**, 24, 2-3	13.3	5
9	Requirement for an Otopetrin-like protein for acid taste in .. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	5
8	Cell signaling. Putting the squeeze on phototransduction. *Science*, **2012**, 338, 200-1	33.3	4
7	Salty Taste: From Transduction to Transmitter Release, Hold the Calcium. *Neuron*, **2020**, 106, 709-711	13.9	3
6	The Cellular and Molecular Basis of Sour Taste. *Annual Review of Physiology*, **2021**,	23.1	3
5	Changing Taste by Targeting the Ion Channel TRPM5~!2009-12-02~!2010-02-22~!2010-07-26~!. *The Open Drug Discovery Journal*, **2010**, 2, 98-102		3
4	Transduction Channels in the Vomeronasal Organ **2005**, 135-152		1
3	Requirement for an Otopetrin-Like protein for acid taste in Drosophila		1
2	The evolution of sour taste.. *Proceedings of the Royal Society B: Biological Sciences*, **2022**, 289, 20211918	4.4	0
1	TRPC2 and the Molecular Biology of Pheromone Detection in Mammals. *Frontiers in Neuroscience*, **2006**, 45-53		