

Elena O Gracheva

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

2,061
citations

304743

22
h-index

395702

33
g-index

36
all docs

36
docs citations

36
times ranked

2768
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular basis of infrared detection by snakes. <i>Nature</i> , 2010, 464, 1006-1011.	27.8	378
2	Ganglion-specific splicing of TRPV1 underlies infrared sensation in vampire bats. <i>Nature</i> , 2011, 476, 88-91.	27.8	208
3	Unconventional endocannabinoid signaling governs sperm activation via the sex hormone progesterone. <i>Science</i> , 2016, 352, 555-559.	12.6	200
4	Piezo Proteins: Regulators of Mechanosensation and Other Cellular Processes. <i>Journal of Biological Chemistry</i> , 2014, 289, 31673-31681.	3.4	181
5	Novel mechanisms of PIEZO1 dysfunction in hereditary xerocytosis. <i>Blood</i> , 2017, 130, 1845-1856.	1.4	101
6	Low-cost functional plasticity of TRPV1 supports heat tolerance in squirrels and camels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11342-11347.	7.1	76
7	Molecular Prerequisites for Diminished Cold Sensitivity in Ground Squirrels and Hamsters. <i>Cell Reports</i> , 2017, 21, 3329-3337.	6.4	68
8	Neuronal mechanism for acute mechanosensitivity in tactile-foraging waterfowl. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14941-14946.	7.1	65
9	Species-specific temperature sensitivity of TRPA1. <i>Temperature</i> , 2015, 2, 214-226.	3.0	62
10	TMEM150C/Tentonin3 Is a Regulator of Mechano-gated Ion Channels. <i>Cell Reports</i> , 2018, 23, 701-708.	6.4	60
11	A hydrophobic gate in the inner pore helix is the major determinant of inactivation in mechanosensitive Piezo channels. <i>ELife</i> , 2019, 8, .	6.0	53
12	Cellular, Molecular, and Physiological Adaptations of Hibernation: The Solution to Environmental Challenges. <i>Annual Review of Cell and Developmental Biology</i> , 2020, 36, 315-338.	9.4	50
13	TRPs et al.: a molecular toolkit for thermosensory adaptations. <i>Pflügers Archiv European Journal of Physiology</i> , 2018, 470, 745-759.	2.8	48
14	Evolutionary adaptation to thermosensation. <i>Current Opinion in Neurobiology</i> , 2015, 34, 67-73.	4.2	47
15	Temperature Sensitivity of Two-Pore (K2P) Potassium Channels. <i>Current Topics in Membranes</i> , 2014, 74, 113-133.	0.9	46
16	Piezo2 integrates mechanical and thermal cues in vertebrate mechanoreceptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17547-17555.	7.1	42
17	Evolutionary Specialization of Tactile Perception in Vertebrates. <i>Physiology</i> , 2016, 31, 193-200.	3.1	40
18	Extracellular cap domain is an essential component of the TRPV1 gating mechanism. <i>Nature Communications</i> , 2021, 12, 2154.	12.8	40

#	ARTICLE	IF	CITATIONS
19	TRPA1 Channels. <i>Current Topics in Membranes</i> , 2014, 74, 89-112.	0.9	38
20	Neuronal UCP1 expression suggests a mechanism for local thermogenesis during hibernation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1607-1612.	7.1	38
21	Molecular basis of tactile specialization in the duck bill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13036-13041.	7.1	36
22	Lamellar cells in Pacinian and Meissner corpuscles are touch sensors. <i>Science Advances</i> , 2020, 6, .	10.3	31
23	Tissue-specific contributions of <i>Tmem79</i> 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.	7.1	30
24	A Cross-Species Analysis Reveals a General Role for Piezo2 in Mechanosensory Specialization of Trigeminal Ganglia from Tactile Specialist Birds. <i>Cell Reports</i> , 2019, 26, 1979-1987.e3.	6.4	30
25	Molecular mechanisms of temperature adaptation. <i>Journal of Physiology</i> , 2015, 593, 3483-3491.	2.9	17
26	Osmolyte Depletion and Thirst Suppression Allow Hibernators to Survive for Months without Water. <i>Current Biology</i> , 2019, 29, 3053-3058.e3.	3.9	16
27	CNGA3 acts as a cold sensor in hypothalamic neurons. <i>ELife</i> , 2020, 9, .	6.0	13
28	Somatosensory Neurons Enter a State of Altered Excitability during Hibernation. <i>Current Biology</i> , 2018, 28, 2998-3004.e3.	3.9	12
29	Towards understanding the neural origins of hibernation. <i>Journal of Experimental Biology</i> , 2022, 225, .	1.7	10
30	Tactile sensation in birds: Physiological insights from avian mechanoreceptors. <i>Current Opinion in Neurobiology</i> , 2022, 74, 102548.	4.2	10
31	Sensational channels. <i>Cell</i> , 2021, 184, 6213-6216.	28.9	6
32	Ground squirrels initiate sexual maturation during hibernation. <i>Current Biology</i> , 2022, 32, 1822-1828.e4.	3.9	5
33	Communication: Potassium Channels Define the Dialect. <i>Current Biology</i> , 2018, 28, R744-R746.	3.9	2
34	Neural mechanisms of thermoregulation. <i>Neuroscience Letters</i> , 2019, 707, 134318.	2.1	0