

Sviatoslav N Bagriantsev

List of Publications by Year in descending order

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42
papers

2,498
citations

218677

26
h-index

276875

41
g-index

47
all docs

47
docs citations

47
times ranked

3252
citing authors

#	ARTICLE	IF	CITATIONS
1	PI(4,5)P2-Dependent and Ca ²⁺ -Regulated ER-PM Interactions Mediated by the Extended Synaptotagmins. <i>Cell</i> , 2013, 153, 1494-1509.	28.9	495
2	Piezo Proteins: Regulators of Mechanosensation and Other Cellular Processes. <i>Journal of Biological Chemistry</i> , 2014, 289, 31673-31681.	3.4	181
3	Analysis of Amyloid Aggregates Using Agarose Gel Electrophoresis. <i>Methods in Enzymology</i> , 2006, 412, 33-48.	1.0	136
4	Multiple modalities converge on a common gate to control K _{2P} channel function. <i>EMBO Journal</i> , 2011, 30, 3594-3606.	7.8	128
5	Variant-specific [<i>PSI</i> ⁺] Infection Is Transmitted by Sup35 Polymers within [<i>PSI</i> ⁺] Aggregates with Heterogeneous Protein Composition. <i>Molecular Biology of the Cell</i> , 2008, 19, 2433-2443.	2.1	121
6	Novel mechanisms of PIEZO1 dysfunction in hereditary xerocytosis. <i>Blood</i> , 2017, 130, 1845-1856.	1.4	101
7	Specificity of Prion Assembly in Vivo. <i>Journal of Biological Chemistry</i> , 2004, 279, 51042-51048.	3.4	87
8	A High-Throughput Functional Screen Identifies Small Molecule Regulators of Temperature- and Mechano-Sensitive K _{2P} Channels. <i>ACS Chemical Biology</i> , 2013, 8, 1841-1851.	3.4	86
9	Metabolic and thermal stimuli control K _{2P} 2.1 (TREK-1) through modular sensory and gating domains. <i>EMBO Journal</i> , 2012, 31, 3297-3308.	7.8	85
10	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
11	Modulation of A ²⁴² low-n oligomerization using a novel yeast reporter system. <i>BMC Biology</i> , 2006, 4, 32.	3.8	71
12	Molecular Prerequisites for Diminished Cold Sensitivity in Ground Squirrels and Hamsters. <i>Cell Reports</i> , 2017, 21, 3329-3337.	6.4	68
13	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
14	Species-specific temperature sensitivity of TRPA1. <i>Temperature</i> , 2015, 2, 214-226.	3.0	62
15	TMEM150C/Tentonin3 Is a Regulator of Mechano-gated Ion Channels. <i>Cell Reports</i> , 2018, 23, 701-708.	6.4	60
16	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
17	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
18	TRPs et al.: a molecular toolkit for thermosensory adaptations. <i>Pflügers Archiv European Journal of Physiology</i> , 2018, 470, 745-759.	2.8	48

#	ARTICLE	IF	CITATIONS
19	Evolutionary adaptation to thermosensation. <i>Current Opinion in Neurobiology</i> , 2015, 34, 67-73.	4.2	47
20	Temperature Sensitivity of Two-Pore (K2P) Potassium Channels. <i>Current Topics in Membranes</i> , 2014, 74, 113-133.	0.9	46
21	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
22	Extracellular cap domain is an essential component of the TRPV1 gating mechanism. <i>Nature Communications</i> , 2021, 12, 2154.	12.8	40
23	TRPA1 Channels. <i>Current Topics in Membranes</i> , 2014, 74, 89-112.	0.9	38
24	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
25	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
26	Biochemical and genetic methods for characterization of [PIN+] prions in yeast. <i>Methods</i> , 2006, 39, 23-34.	3.8	35
27	Guanidine reduces stop codon read-through caused by missense mutations in SUP35 or SUP45. <i>Yeast</i> , 2003, 20, 625-632.	1.7	32
28	Lamellar cells in Pacinian and Meissner corpuscles are touch sensors. <i>Science Advances</i> , 2020, 6, .	10.3	31
29	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
30	Molecular mechanisms of temperature adaptation. <i>Journal of Physiology</i> , 2015, 593, 3483-3491.	2.9	17
31	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
32	CNGA3 acts as a cold sensor in hypothalamic neurons. <i>ELife</i> , 2020, 9, .	6.0	13
33	Somatosensory Neurons Enter a State of Altered Excitability during Hibernation. <i>Current Biology</i> , 2018, 28, 2998-3004.e3.	3.9	12
34	Towards understanding the neural origins of hibernation. <i>Journal of Experimental Biology</i> , 2022, 225, .	1.7	10
35	Tactile sensation in birds: Physiological insights from avian mechanoreceptors. <i>Current Opinion in Neurobiology</i> , 2022, 74, 102548.	4.2	10
36	Small Molecule Ion Channel Match Making: A Natural Fit for New ASIC Ligands. <i>Neuron</i> , 2010, 68, 1-3.	8.1	6

#	ARTICLE	IF	CITATIONS
37	Tethered Protein Display Identifies a Novel Kir3.2 (GIRK2) Regulator from Protein Scaffold Libraries. ACS Chemical Neuroscience, 2014, 5, 812-822.	3.5	6
38	Sensational channels. Cell, 2021, 184, 6213-6216.	28.9	6
39	Using Yeast to Study Potassium Channel Function and Interactions with Small Molecules. Methods in Molecular Biology, 2013, 995, 31-42.	0.9	5
40	Ground squirrels initiate sexual maturation during hibernation. Current Biology, 2022, 32, 1822-1828.e4.	3.9	5
41	Communication: Potassium Channels Define the Dialect. Current Biology, 2018, 28, R744-R746.	3.9	2
42	Neural mechanisms of thermoregulation. Neuroscience Letters, 2019, 707, 134318.	2.1	0