

Pavel Belan

List of Publications by Year in descending order

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54
papers

1,034
citations

430874

18
h-index

434195

31
g-index

54
all docs

54
docs citations

54
times ranked

921
citing authors

#	ARTICLE	IF	CITATIONS
1	Inositol Trisphosphate and Cyclic ADP-Ribose-Mediated Release of Ca ²⁺ from Single Isolated Pancreatic Zymogen Granules. <i>Cell</i> , 1996, 84, 473-480.	28.9	233
2	Localization of Ca ²⁺ Extrusion Sites in Pancreatic Acinar Cells. <i>Journal of Biological Chemistry</i> , 1996, 271, 7615-7619.	3.4	78
3	Inflammation alters trafficking of extrasynaptic AMPA receptors in tonically firing lamina II neurons of the rat spinal dorsal horn. <i>Pain</i> , 2011, 152, 912-923.	4.2	59
4	Specific functioning of Cav3.2 T-type calcium and TRPV1 channels under different types of STZ-diabetic neuropathy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013, 1832, 636-649.	3.8	56
5	Cytoplasmic free Ca in isolated snail neurons as revealed by fluorescent probe fura-2: Mechanisms of Ca recovery after Ca load and Ca release from intracellular stores. <i>Journal of Membrane Biology</i> , 1989, 110, 11-18.	2.1	51
6	Distribution of Ca ²⁺ extrusion sites on the mouse pancreatic acinar cell surface. <i>Cell Calcium</i> , 1997, 22, 5-10.	2.4	32
7	Upregulation of T-Type Ca ²⁺ Channels in Long-Term Diabetes Determines Increased Excitability of a Specific Type of Capsaicin-Insensitive DRG Neurons. <i>Molecular Pain</i> , 2015, 11, s12990-015-0028.	2.1	31
8	Inflammatory-induced changes in synaptic drive and postsynaptic AMPARs in lamina II dorsal horn neurons are cell-type specific. <i>Pain</i> , 2015, 156, 428-438.	4.2	30
9	Isoproterenol Evokes Extracellular Ca ²⁺ Spikes Due to Secretory Events in Salivary Gland Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 4106.	3.4	29
10	PKC \pm Is Required for Inflammation-Induced Trafficking of Extrasynaptic AMPA Receptors in Tonically Firing Lamina II Dorsal Horn Neurons During the Maintenance of Persistent Inflammatory Pain. <i>Journal of Pain</i> , 2013, 14, 182-192.	1.4	28
11	Free calcium transients and oscillations in nerve cells. <i>Experimental Brain Research</i> , 1991, 83, 459-64.	1.5	25
12	Calcium clamp in isolated neurones of the snail <i>Helix pomatia</i> .. <i>Journal of Physiology</i> , 1993, 462, 47-58.	2.9	25
13	Glutamate-receptor-induced modulation of GABAergic synaptic transmission in the hippocampus. <i>Pflugers Archiv European Journal of Physiology</i> , 2002, 444, 26-37.	2.8	24
14	Development of inflammation-induced hyperalgesia and allodynia is associated with the upregulation of extrasynaptic AMPA receptors in tonically firing lamina II dorsal horn neurons. <i>Frontiers in Physiology</i> , 2012, 3, 391.	2.8	24
15	Hippocalcin signaling via site-specific translocation in hippocampal neurons. <i>Neuroscience Letters</i> , 2008, 442, 152-157.	2.1	23
16	Extrusion of calcium from a single isolated neuron of the snail <i>Helix pomatia</i> . <i>Journal of Membrane Biology</i> , 1991, 123, 43-47.	2.1	22
17	The Effect of Nimodipine on Calcium Homeostasis and Pain Sensitivity in Diabetic Rats. <i>Cellular and Molecular Neurobiology</i> , 2006, 26, 1539-1555.	3.3	20
18	A new technique for assessing the microscopic distribution of cellular calcium exit sites. <i>Pflugers Archiv European Journal of Physiology</i> , 1996, 433, 200-208.	2.8	18

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19	Post-tetanic depression of GABAergic synaptic transmission in rat hippocampal cell cultures. <i>Neuroscience Letters</i> , 2002, 323, 5-8.	2.1	18
20	Endocytic adaptor protein intersectin 1 forms a complex with microtubule stabilizer STOP in neurons. <i>Gene</i> , 2012, 505, 360-364.	2.2	18
21	Decoding glutamate receptor activation by the Ca ²⁺ sensor protein hippocalcin in rat hippocampal neurons. <i>European Journal of Neuroscience</i> , 2010, 32, 347-358.	2.6	17
22	Rat hippocampal neurons maintain their own GABAergic synaptic transmission in culture. <i>Neuroscience Letters</i> , 1999, 262, 151-154.	2.1	15
23	HIF-1 α -mediated upregulation of SERCA2b: The endogenous mechanism for alleviating the ischemia-induced intracellular Ca ²⁺ store dysfunction in CA1 and CA3 hippocampal neurons. <i>Cell Calcium</i> , 2016, 59, 251-261.	2.4	14
24	Functional Characterization of Lamina X Neurons in ex-Vivo Spinal Cord Preparation. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 342.	3.7	13
25	Measurement of intracellular concentration of fluorescently-labeled targets in living cells. <i>PLoS ONE</i> , 2018, 13, e0194031.	2.5	13
26	Differential properties of GABAergic synaptic connections in rat hippocampal cell cultures. <i>Synapse</i> , 2004, 53, 122-130.	1.2	10
27	High-threshold primary afferent supply of spinal lamina X neurons. <i>Pain</i> , 2019, 160, 1982-1988.	4.2	10
28	Distinct mechanisms of signal processing by lamina I spino-parabrachial neurons. <i>Scientific Reports</i> , 2019, 9, 19231.	3.3	10
29	Calcium clamp in single nerve cells. <i>Cell Calcium</i> , 1993, 14, 419-425.	2.4	9
30	Postsynaptic mechanism may contribute to inhibitory acetylcholine effect on GABAergic synaptic transmission in hippocampal cell cultures. <i>Synapse</i> , 2001, 41, 65-70.	1.2	7
31	Nociceptive Neurons Differentially Express Fast and Slow T-Type Ca ²⁺ Currents in Different Types of Diabetic Neuropathy. <i>Neural Plasticity</i> , 2014, 2014, 1-12.	2.2	7
32	Efficient Maximum Likelihood Estimation of Kinetic Rate Constants from Macroscopic Currents. <i>PLoS ONE</i> , 2011, 6, e29731.	2.5	7
33	Peripheral Inflammation Results in Increased Excitability of Capsaicin-Insensitive Nociceptive DRG Neurons Mediated by Upregulation of ASICs and Voltage-Gated Ion Channels. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 723295.	3.7	7
34	Isoproterenol evokes extracellular Ca ²⁺ spikes due to secretory events in salivary gland cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 4106-11.	3.4	7
35	Blocking effect of La ³⁺ ions on transmembrane ionic current evoked by intracellular cyclic AMP injection in identified <i>Helix pomatia</i> neurons. <i>Neuroscience Letters</i> , 1991, 124, 137-139.	2.1	6
36	Maximum likelihood estimation of biophysical parameters of synaptic receptors from macroscopic currents. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 303.	3.7	6

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37	Perturbed Ca ²⁺ -dependent signaling of DYT2 hippocampal mutant as mechanism of autosomal recessive dystonia. <i>Neurobiology of Disease</i> , 2019, 132, 104529.	4.4	5
38	Precision spinal gene delivery-induced functional switch in nociceptive neurons reverses neuropathic pain. <i>Molecular Therapy</i> , 2022, 30, 2722-2745.	8.2	5
39	Inositol-1,4,5-trisphosphate and non-hydrolysable GTP analogue induced calcium release from intracellular stores of the <i>Helix pomatia</i> neurons. <i>Comparative Biochemistry and Physiology Part C: Comparative Pharmacology</i> , 1990, 96, 45-47.	0.2	4
40	Segmental and descending control of primary afferent input to the spinal lamina X. <i>Pain</i> , 2022, 163, 2014-2020.	4.2	4
41	A Model for the Fast Synchronous Oscillations of Firing Rate in Rat Suprachiasmatic Nucleus Neurons Cultured in a Multielectrode Array Dish. <i>PLoS ONE</i> , 2014, 9, e106152.	2.5	3
42	Applicability of Peak-Scaled Nonstationary Fluctuation Analysis to the Study of Inhibitory Synaptic Transmission in Hippocampal Cultures. <i>Neurophysiology</i> , 2005, 37, 333-343.	0.3	2
43	Local Signalization in Dendrites and Mechanisms of Short-Term Memory. <i>Neurophysiology</i> , 2013, 45, 359-367.	0.3	2
44	The effect of acetylcholine and serotonin on calcium transient and calcium currents in identified <i>Helix pomatia</i> L. neurons. <i>Cellular Signalling</i> , 1994, 6, 551-559.	3.6	1
45	Nonuniformity of calcium efflux from pancreatic acinar cells and its analysis by mathematical model of calcium diffusion and buffering in extracellular solution. <i>Neurophysiology</i> , 1997, 29, 40-44.	0.3	1
46	Glutamate-induced suppression of inhibitory synaptic transmission in cultivated hippocampal neurons. <i>Neurophysiology</i> , 1998, 30, 279-284.	0.3	1
47	Title is missing!. <i>Neurophysiology</i> , 2002, 34, 239-242.	0.3	1
48	Different pools of postsynaptic GABA _A receptors mediate inhibition evoked by low- and high-frequency presynaptic stimulation at hippocampal synapses. <i>Synapse</i> , 2014, 68, 344-354.	1.2	1
49	Role of T-Type Ca ²⁺ Channels in Painful Diabetic Neuropathy. <i>Neurophysiology</i> , 2019, 51, 455-461.	0.3	1
50	Hippocampal Distribution between the Cytosol and Plasma Membrane of Living Cells. <i>Neurophysiology</i> , 2020, 52, 2-13.	0.3	1
51	Mathematical model of Ca ²⁺ diffusion and buffering in extracellular solution after Ca ²⁺ extrusion from a spherical cell. <i>Neurophysiology</i> , 1996, 28, 187-192.	0.3	0
52	Distributions of interevent intervals for miniature inhibitory and excitatory postsynaptic currents in cultured hippocampal neurons. <i>Neurophysiology</i> , 2000, 32, 158-160.	0.3	0
53	Activity-Dependent Potentiation of an Asynchronous Component of GABA-ergic Synaptic Currents in Cultured Hippocampal Neurons. <i>Neurophysiology</i> , 2014, 46, 10-15.	0.3	0
54	Measuring Ca ²⁺ Extrusion from Single Cells. , 2001, , 251-266.		0