

Jurij Dolenšek

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,416
citations

516710

16
h-index

501196

28
g-index

35
all docs

35
docs citations

35
times ranked

1567
citing authors

#	ARTICLE	IF	CITATIONS
1	Teachers perception of the use on a low-cost pulse rate sensor for biology education. American Journal of Physiology - Advances in Physiology Education, 2022, 46, 238-245.	1.6	0
2	Glucose-Stimulated Calcium Dynamics in Beta Cells From Male C57BL/6J, C57BL/6N, and NMRI Mice: A Comparison of Activation, Activity, and Deactivation Properties in Tissue Slices. Frontiers in Endocrinology, 2022, 13, 867663.	3.5	12
3	Calcium imaging in intact mouse acinar cells in acute pancreas tissue slices. PLoS ONE, 2022, 17, e0268644.	2.5	6
4	Assessing the origin and velocity of Ca ²⁺ waves in three-dimensional tissue: Insights from a mathematical model and confocal imaging in mouse pancreas tissue slices. Communications in Nonlinear Science and Numerical Simulation, 2021, 93, 105495.	3.3	17
5	Assessing Different Temporal Scales of Calcium Dynamics in Networks of Beta Cell Populations. Frontiers in Physiology, 2021, 12, 612233.	2.8	22
6	Izbrana poglavja iz fiziologije za študente medicine z navodili za vaje. , 2021, , .		0
7	Confocal Laser Scanning Microscopy of Calcium Dynamics in Acute Mouse Pancreatic Tissue Slices. Journal of Visualized Experiments, 2021, , .	0.3	12
8	Peripherally active dextromethorphan derivatives lower blood glucose levels by targeting pancreatic islets. Cell Chemical Biology, 2021, 28, 1474-1488.e7.	5.2	7
9	The Role of cAMP in Beta Cell Stimulus-Induced Secretion and Intercellular Coupling. Cells, 2021, 10, 1658.	4.1	22
10	Glucose-dependent activation, activity, and deactivation of beta cell networks in acute mouse pancreas tissue slices. American Journal of Physiology - Endocrinology and Metabolism, 2021, 321, E305-E323.	3.5	30
11	Mechanisms of Post-Pancreatitis Diabetes Mellitus and Cystic Fibrosis-Related Diabetes: A Review of Preclinical Studies. Frontiers in Endocrinology, 2021, 12, 715043.	3.5	7
12	Autopoietic Influence Hierarchies in Pancreatic β Cells. Physical Review Letters, 2021, 127, 168101.	7.8	11
13	β^2 Cells Operate Collectively to Help Maintain Glucose Homeostasis. Biophysical Journal, 2020, 118, 2588-2595.	0.5	21
14	A Novel in situ Approach to Studying Detrusor Smooth Muscle Cells in Mice. Scientific Reports, 2020, 10, 2685.	3.3	0
15	Modelling of dysregulated glucagon secretion in type 2 diabetes by considering mitochondrial alterations in pancreatic β -cells. Royal Society Open Science, 2020, 7, 191171.	2.4	21
16	Heterogeneity and Delayed Activation as Hallmarks of Self-Organization and Criticality in Excitable Tissue. Frontiers in Physiology, 2019, 10, 869.	2.8	33
17	A Novel in situ Approach to Studying Pancreatic Ducts in Mice. Frontiers in Physiology, 2019, 10, 938.	2.8	13
18	Beta Cell Functional Adaptation and Dysfunction in Insulin Resistance and the Role of Chronic Kidney Disease. Nephron, 2019, 143, 33-37.	1.8	17

#	ARTICLE	IF	CITATIONS
19	Loosening the shackles of scientific disciplines with network science. <i>Physics of Life Reviews</i> , 2018, 24, 162-167.	2.8	8
20	Network science of biological systems at different scales: A review. <i>Physics of Life Reviews</i> , 2018, 24, 118-135.	2.8	305
21	Internalization of (bis)phosphonate-modified cellulose nanocrystals by human osteoblast cells. <i>Cellulose</i> , 2017, 24, 4235-4252.	4.9	20
22	The triggering pathway to insulin secretion: Functional similarities and differences between the human and the mouse β^2 cells and their translational relevance. <i>Islets</i> , 2017, 9, 109-139.	1.8	89
23	Critical and Supercritical Spatiotemporal Calcium Dynamics in Beta Cells. <i>Frontiers in Physiology</i> , 2017, 8, 1106.	2.8	41
24	The relationship between node degree and dissipation rate in networks of diffusively coupled oscillators and its significance for pancreatic beta cells. <i>Chaos</i> , 2015, 25, 073115.	2.5	29
25	Progressive glucose stimulation of islet beta cells reveals a transition from segregated to integrated modular functional connectivity patterns. <i>Scientific Reports</i> , 2015, 5, 7845.	3.3	73
26	Membrane Potential and Calcium Dynamics in Beta Cells from Mouse Pancreas Tissue Slices: Theory, Experimentation, and Analysis. <i>Sensors</i> , 2015, 15, 27393-27419.	3.8	23
27	Structural similarities and differences between the human and the mouse pancreas. <i>Islets</i> , 2015, 7, e1024405.	1.8	235
28	Functional Connectivity in Islets of Langerhans from Mouse Pancreas Tissue Slices. <i>PLoS Computational Biology</i> , 2013, 9, e1002923.	3.2	152
29	The Relationship between Membrane Potential and Calcium Dynamics in Glucose-Stimulated Beta Cell Syncytium in Acute Mouse Pancreas Tissue Slices. <i>PLoS ONE</i> , 2013, 8, e82374.	2.5	72
30	Glucose-Stimulated Calcium Dynamics in Islets of Langerhans in Acute Mouse Pancreas Tissue Slices. <i>PLoS ONE</i> , 2013, 8, e54638.	2.5	89
31	Specificities of olfactory receptor neuron responses to amino acids in the black bullhead catfish (<i>Ameiurus melas</i>). <i>Pflügers Archiv European Journal of Physiology</i> , 2010, 459, 413-425.	2.8	4
32	From Isles of Langerhans to Islets of Langerhans: Examining the Function of the Endocrine Pancreas Through Network Science. <i>Frontiers in Endocrinology</i> , 0, 13, .	3.5	15