

Jurij DolenÅek

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	Network science of biological systems at different scales: A review. <i>Physics of Life Reviews</i> , 2018, 24, 118-135.	2.8	305
2	Structural similarities and differences between the human and the mouse pancreas. <i>Islets</i> , 2015, 7, e1024405.	1.8	235
3	Functional Connectivity in Islets of Langerhans from Mouse Pancreas Tissue Slices. <i>PLoS Computational Biology</i> , 2013, 9, e1002923.	3.2	152
4	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
5	Glucose-Stimulated Calcium Dynamics in Islets of Langerhans in Acute Mouse Pancreas Tissue Slices. <i>PLoS ONE</i> , 2013, 8, e54638.	2.5	89
6	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
7	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
8	Critical and Supercritical Spatiotemporal Calcium Dynamics in Beta Cells. <i>Frontiers in Physiology</i> , 2017, 8, 1106.	2.8	41
9	Heterogeneity and Delayed Activation as Hallmarks of Self-Organization and Criticality in Excitable Tissue. <i>Frontiers in Physiology</i> , 2019, 10, 869.	2.8	33
10	Glucose-dependent activation, activity, and deactivation of beta cell networks in acute mouse pancreas tissue slices. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021, 321, E305-E323.	3.5	30
11	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
12	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
13	Assessing Different Temporal Scales of Calcium Dynamics in Networks of Beta Cell Populations. <i>Frontiers in Physiology</i> , 2021, 12, 612233.	2.8	22
14	The Role of cAMP in Beta Cell Stimulus-Secretion and Intercellular Coupling. <i>Cells</i> , 2021, 10, 1658.	4.1	22
15	β^2 Cells Operate Collectively to Help Maintain Glucose Homeostasis. <i>Biophysical Journal</i> , 2020, 118, 2588-2595.	0.5	21
16	Modelling of dysregulated glucagon secretion in type 2 diabetes by considering mitochondrial alterations in pancreatic β^2 -cells. <i>Royal Society Open Science</i> , 2020, 7, 191171.	2.4	21
17	Internalization of (bis)phosphonate-modified cellulose nanocrystals by human osteoblast cells. <i>Cellulose</i> , 2017, 24, 4235-4252.	4.9	20
18	Beta Cell Functional Adaptation and Dysfunction in Insulin Resistance and the Role of Chronic Kidney Disease. <i>Nephron</i> , 2019, 143, 33-37.	1.8	17

#	ARTICLE	IF	CITATIONS
19	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. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 93, 105495.	3.3	17
20	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
21	A Novel in situ Approach to Studying Pancreatic Ducts in Mice. <i>Frontiers in Physiology</i> , 2019, 10, 938.	2.8	13
22	Confocal Laser Scanning Microscopy of Calcium Dynamics in Acute Mouse Pancreatic Tissue Slices. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	12
23	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. <i>Frontiers in Endocrinology</i> , 2022, 13, 867663.	3.5	12
24	Autopoietic Influence Hierarchies in Pancreatic β Cells. <i>Physical Review Letters</i> , 2021, 127, 168101.	7.8	11
25	Loosening the shackles of scientific disciplines with network science. <i>Physics of Life Reviews</i> , 2018, 24, 162-167.	2.8	8
26	Peripherally active dextromethorphan derivatives lower blood glucose levels by targeting pancreatic islets. <i>Cell Chemical Biology</i> , 2021, 28, 1474-1488.e7.	5.2	7
27	Mechanisms of Post-Pancreatitis Diabetes Mellitus and Cystic Fibrosis-Related Diabetes: A Review of Preclinical Studies. <i>Frontiers in Endocrinology</i> , 2021, 12, 715043.	3.5	7
28	Calcium imaging in intact mouse acinar cells in acute pancreas tissue slices. <i>PLoS ONE</i> , 2022, 17, e0268644.	2.5	6
29	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
30	A Novel in situ Approach to Studying Detrusor Smooth Muscle Cells in Mice. <i>Scientific Reports</i> , 2020, 10, 2685.	3.3	0
31	Izbrana poglavja iz fiziologije za študente medicine z navodili za vaje. , 2021, , .		0
32	Teachers perception of the use on a low-cost pulse rate sensor for biology education. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2022, 46, 238-245.	1.6	0