Rene MarkoviÄ•

List of Publications by Year
in descending order

34 papers	896 citations	623574 14 h-index	501076 28 g-index
34 all docs	34 docs citations	34 times ranked	1086 citing authors

#	Article	IF	Citations
1	Age-Related Changes in Lipid and Glucose Levels Associated with Drug Use and Mortality: An Observational Study. Journal of Personalized Medicine, 2022, 12, 280.	1.1	4
2	Modeling the Amino Acid Effect on Glucagon Secretion from Pancreatic Alpha Cells. Metabolites, 2022, 12, 348.	1.3	3
3	Assessing the origin and velocity of Ca2+ 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.	1.7	17
4	Assessing Different Temporal Scales of Calcium Dynamics in Networks of Beta Cell Populations. Frontiers in Physiology, 2021, 12, 612233.	1.3	22
5	Role of cAMP in Double Switch of Glucagon Secretion. Cells, 2021, 10, 896.	1.8	4
6	Community lockdowns in social networks hardly mitigate epidemic spreading. New Journal of Physics, 2021, 23, 043039.	1.2	45
7	Flexibility of enzymatic transitions as a hallmark of optimized enzyme steady-state kinetics and thermodynamics. Computational Biology and Chemistry, 2021, 91, 107449.	1.1	4
8	Socio-demographic and health factors drive the epidemic progression and should guide vaccination strategies for best COVID-19 containment. Results in Physics, 2021, 26, 104433.	2.0	61
9	Response to â€œComments on the paper â€˜Flexibility of enzymatic transitions as a hallmark of optimized enzyme steady-state kinetics and thermodynamicsâ€™â€•. Computational Biology and Chemistry, 2021, 95, 107572.	1.1	0
10	Mechanical Cell-to-Cell Interactions as a Regulator of Topological Defects in Planar Cell Polarity Patterns in Epithelial Tissues. Frontiers in Materials, 2020, 7, .	1.2	2
11	Mitochondrial Dysfunction in Pancreatic Alpha and Beta Cells Associated with Type 2 Diabetes Mellitus. Life, 2020, 10, 348.	1.1	14
12	Diabetes and metabolic syndrome as risk factors for COVID-19. Diabetes and Metabolic Syndrome: Clinical Research and Reviews, 2020, 14, 671-677.	1.8	59
13	Modelling of energy-driven switch for glucagon and insulin secretion. Journal of Theoretical Biology, 2020, 493, 110213.	0.8	10
14	Modelling of dysregulated glucagon secretion in type 2 diabetes by considering mitochondrial alterations in pancreatic Î±-cells. Royal Society Open Science, 2020, 7, 191171.	1.1	21
15	Applying network theory to fables: complexity in Slovene belles-lettres for different age groups. Journal of Complex Networks, 2019, 7, 114-127.	1.1	12
16	Heterogeneity and Delayed Activation as Hallmarks of Self-Organization and Criticality in Excitable Tissue. Frontiers in Physiology, 2019, 10, 869.	1.3	33
17	Data-driven classification of residential energy consumption patterns by means of functional connectivity networks. Applied Energy, 2019, 242, 506-515.	5.1	16
18	Loosening the shackles of scientific disciplines with network science. Physics of Life Reviews, 2018, 24, 162-167.	1.5	8

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19	The maximum entropy production and maximum Shannon information entropy in enzyme kinetics. Physica A: Statistical Mechanics and Its Applications, 2018, 496, 220-232.	1.2	17
20	Network science of biological systems at different scales: A review. Physics of Life Reviews, 2018, 24, 118-135.	1.5	305
21	Critical and Supercritical Spatiotemporal Calcium Dynamics in Beta Cells. Frontiers in Physiology, 2017, 8, 1106.	1.3	41
22	Planar cell polarity genes frizzled4 and frizzled6 exert patterning influence on arterial vessel morphogenesis. PLoS ONE, 2017, 12, e0171033.	1.1	7
23	Fizikalni sistemi â€“ Â»peskovnikÂ« razvoja funkcionalne pismenosti pri otrocih. , 2017, , .		0
24	Primerjava statistiÄ•nih lastnosti leposlovnih besedil, namenjenih razliÄ•nim starostnim skupinam. , 2017, , .		0
25	The relationship between node degree and dissipation rate in networks of diffusively coupled oscillators and its significance for pancreatic beta cells. Chaos, 2015, 25, 073115.	1.0	29
26	Progressive glucose stimulation of islet beta cells reveals a transition from segregated to integrated modular functional connectivity patterns. Scientific Reports, 2015, 5, 7845.	1.6	73
27	Multilayer network representation of membrane potential and cytosolic calcium concentration dynamics in beta cells. Chaos, Solitons and Fractals, 2015, 80, 76-82.	2.5	26
28	The Analysis of Intracellular and Intercellular Calcium Signaling in Human Anterior Lens Capsule Epithelial Cells with Regard to Different Types and Stages of the Cataract. PLoS ONE, 2015, 10, e0143781.	1.1	16
29	Defects in Planar Cell Polarity of Epithelium. Behavior Research Methods, 2014, 20, 197-217.	2.3	2
30	Broad-scale small-world network topology induces optimal synchronization of flexible oscillators. Chaos, Solitons and Fractals, 2014, 69, 14-21.	2.5	7
31	How optimal synchronization of oscillators depends on the network structure and the individual dynamical properties of the oscillators. Journal of Physics: Conference Series, 2013, 410, 012044.	0.3	2
32	The role of topological features of intercellular communication networks by the synchronization of cellular oscillators. , 2012, , .		2
33	The role of neural architecture and the speed of signal propagation in the process of synchronization of bursting neurons. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 2764-2770.	1.2	19
34	From Isles of KÃ¶nigsberg to Islets of Langerhans: Examining the Function of the Endocrine Pancreas Through Network Science. Frontiers in Endocrinology, 0, 13, .	1.5	15