Mladen Veletic

List of Publications by Year
in descending order

32 papers	357 citations	932766 10 h-index	887659 17 g-index
32 all docs	32 docs citations	32 times ranked	342 citing authors

#	Article	IF	Citations
1	The IoT Architectural Framework, Design Issues and Application Domains. Wireless Personal Communications, 2017, 92, 127-148.	1.8	105
2	Peer-to-Peer Communication in Neuronal Nano-Network. IEEE Transactions on Communications, 2016, 64, 1153-1166.	4.9	39
3	On the Upper Bound of the Information Capacity in Neuronal Synapses. IEEE Transactions on Communications, 2016, 64, 5025-5036.	4.9	32
4	Synaptic Communication Engineering for Future Cognitive Brain–Machine Interfaces. Proceedings of the IEEE, 2019, 107, 1425-1441.	16.4	27
5	Visualizing Extracellular Vesicles and Their Function in 3D Tumor Microenvironment Models. International Journal of Molecular Sciences, 2021, 22, 4784.	1.8	17
6	A Molecular Communication Model of Exosome-mediated Brain Drug Delivery. , 2019, , .		16
7	Modeling of Modulated Exosome Release From Differentiated Induced Neural Stem Cells for Targeted Drug Delivery. IEEE Transactions on Nanobioscience, 2020, 19, 357-367.	2.2	16
8	Molecular Communications in Viral Infections Research: Modeling, Experimental Data, and Future Directions. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2021, 7, 121-141.	1.4	16
9	Astrocyte–neuron communication as cascade of equivalent circuits. Nano Communication Networks, 2015, 6, 183-197.	1.6	14
10	An Information Theory of Neuro-Transmission in Multiple-Access Synaptic Channels. IEEE Transactions on Communications, 2020, 68, 841-853.	4.9	12
11	On Mathematical Analysis of Active Drug Transport Coupled With Flow-Induced Diffusion in Blood Vessels. IEEE Transactions on Nanobioscience, 2021, 20, 105-115.	2.2	12
12	On the Cramer-Rao lower bound for RSS-based positioning in wireless cellular networks. AEU - International Journal of Electronics and Communications, 2014, 68, 730-736.	1.7	9
13	Targeted Drug Delivery for Cardiovascular Disease: Modeling of Modulated Extracellular Vesicle Release Rates. IEEE Transactions on Nanobioscience, 2021, 20, 444-454.	2.2	8
14	Energy-efficiency of Cardiomyocyte Stimulation with Rectangular Pulses. Scientific Reports, 2019, 9, 13307.	1.6	5
15	From Nano-Scale Neural Excitability to Long Term Synaptic Modification. , 2007, , .		5
16	On spectrum analysis for nanomachine-to-neuron communications. , 2013, , .		4
17	Communication theory aspects of synaptic transmission. , 2015, , .		4
18	Optimal positioning in UMTS using Least Mean Squares algorithm on circular lateration. , 2012, , .		3

#	Article	IF	Citations
19	Multi-nodal nano-actuator pacemaker for energy-efficient stimulation of cardiomyocytes. Nano Communication Networks, 2019, 22, 100270.	1.6	3
20	Theoretical Aspects of Resting-State Cardiomyocyte Communication for Multi-Nodal Nano-Actuator Pacemakers. Sensors, 2020, 20, 2792.	2.1	2
21	Capacity estimation in MIMO synaptic channels. , 2018, , .		2
22	Graph-based diagnosis and treatment of neuronal communication disorders. , 2014, , .		1
23	On the Cardiac Gap Junctions Channel Modeling. , 2019, , .		1
24	Molecular Communication Aspects of Potassium Intracellular Signaling in Cardiomyocytes. IEEE Access, 2020, 8, 201770-201780.	2.6	1
25	Cardiac Bio-Nanonetwork. , 2021, , .		1
26	On the intracellular signaling of cardiomyocytes for energy efficient leadless pacemakers. , 2018, , .		1
27	Optical Modeling and Characterization of Demyelinated Nerve Using Graphene-Based Photonic Structure. IEEE Access, 2022, 10, 28792-28807.	2.6	1
28	Radio location of mobile stations in third generation networks. Military Technical Courier, 2013, 61, 55-83.	0.3	0
29	The neural communication network: A brief review on neuromodeling and neuroengineering. , 2016, , .		0
30	Neural Response Analysis for Brain-Machine Interfaces. , 2019, , .		0
31	An Information Theoretical Analysis of Gap Junction Channels. IEEE Access, 2021, 9, 61114-61122.	2.6	0
32	On Regulation of Neuro-spike Communication for Healthy Brain. Modeling and Optimization in Science and Technologies, 2017, , 207-240.	0.7	0