

Mehrdad Saviz

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

164
citations

1307594

7
h-index

1372567

10
g-index

26
all docs

26
docs citations

26
times ranked

230
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric properties estimation of normal and malignant skin tissues at millimeter-wave frequencies using effective medium theory. , 2014, , .		27
2	Group and individual level variations between symmetric and asymmetric DLPFC montages for tDCS over large scale brain network nodes. Scientific Reports, 2021, 11, 1271.	3.3	20
3	Theoretical and experimental broadband tissueâ€equivalent phantoms at microwave and millimetreâ€wave frequencies. Electronics Letters, 2014, 50, 618-620.	1.0	17
4	Effects of 940â€MHz EMF on luciferase solution: Structure, function, and dielectric studies. Bioelectromagnetics, 2013, 34, 489-498.	1.6	15
5	Theoretical Estimations of Safety Thresholds for Terahertz Exposure of Surface Tissues. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 635-640.	3.1	11
6	A New Open-Source Toolbox for Estimating the Electrical Properties of Biological Tissues in the Terahertz Frequency band. Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 529-538.	2.2	10
7	A THEORETICAL MODEL FOR THE FREQUENCY-DEPENDENT DIELECTRIC PROPERTIES OF CORNEAL TISSUE AT MICROWAVE FREQUENCIES. Progress in Electromagnetics Research, 2013, 137, 389-406.	4.4	9
8	Numerical Computation of Temperature Elevation in Human Skin Due to Electromagnetic Exposure in the THz Frequency Range. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 978-989.	3.1	8
9	Attempts for exposure assessment in the THz-frequency range using numerical computations. , 2012, , .		5
10	An electrical bio-chip to transfer and detect electromagnetic stimulation on the cells based on vertically aligned carbon nanotubes. Materials Science and Engineering C, 2017, 70, 681-688.	7.3	5
11	Thermal Impact on the Human Oral Cavity Exposed to Radiation from Biomedical Devices Operating in the Terahertz Frequency Range. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 926-941.	2.2	5
12	Optimal currents for electrical stimulation of bone fracture repair: A computational analysis including variations in frequency, tissue properties, and fracture morphology. Bioelectromagnetics, 2019, 40, 128-135.	1.6	5
13	Effects of circularly-polarized electromagnetic fields on solvated hemoglobin structure. Journal of Molecular Liquids, 2020, 312, 113283.	4.9	5
14	Numerical Verification of the Applicability of the Effective Medium Theory With Respect to Dielectric Properties of Biological Tissue. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	4
15	Meixner's edge condition revisited for negative permittivity materials. , 2011, , .		3
16	Characterization of low-cost tissue mimicking materials at millimeter-wave frequencies. , 2015, , .		3
17	Morphological Changes Induced By Extremely Lowâ€Frequency Electric Fields. Bioelectromagnetics, 2019, 40, 375-390.	1.6	3
18	Realistic cell and organelle shape modeling for computational bioengineering: A new open-source toolbox. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
19	Comments on "Wideband Skin-Equivalent Phantom for V- and W-Band". IEEE Antennas and Wireless Propagation Letters, 2017, 16, 3257-3257.	4.0	2
20	Simplified estimation of membrane potentials induced by high-frequency electric signals. Journal of Electrical Bioimpedance, 2014, 5, 9-13.	0.9	2
21	Steady state behavior of a finite rodlike macromolecule in salt free solution. Results in Physics, 2017, 7, 2658-2662.	4.1	1
22	A Multiscale Approach to Terahertz Electric Field Estimation in Corneal Tissues. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2020, 5, 167-175.	2.2	1
23	An In Vitro Electric Field Exposure Device with Real-Time Cell Impedance Sensing. Iranian Journal of Science and Technology, Transaction A: Science, 2020, 44, 575-585.	1.5	1
24	Steps towards an integrated platform for computational microdosimetry: From realistic cell shape modeling to electric field distributions. , 2016, , .		0
25	Voltage Transfer Functions for in-Vitro Cell Stimulation: A Computational Study. , 2017, , .		0