

Micaela Liberti

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5981658/publications.pdf>

Version: 2024-02-01

193
papers

2,485
citations

186265

28
h-index

265206

42
g-index

196
all docs

196
docs citations

196
times ranked

1773
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulsed Electromagnetic Fields: A Novel Attractive Therapeutic Opportunity for Neuroprotection After Acute Cerebral Ischemia. <i>Neuromodulation</i> , 2022, 25, 1240-1247.	0.8	10
2	Electric-driven membrane poration: A rationale for water role in the kinetics of pore formation. <i>Bioelectrochemistry</i> , 2022, 143, 107987.	4.6	9
3	Systematic numerical assessment of occupational exposure to electromagnetic fields of transcranial magnetic stimulation. <i>Medical Physics</i> , 2022, 49, 3416-3431.	3.0	4
4	Controlled Drug Delivery Mediated by CW Electric fields: Experimental Setup and 3D Microdosimetry Modelling. , 2022, , .		0
5	A microdosimetric study at the cellular and intracellular level using a 3D realistic cell model. , 2022, , .		3
6	Microdosimetry in a realistic keratinocyte cell model at mmWave and HF frequencies. , 2022, , .		0
7	Possible molecular and cellular mechanisms at the basis of atmospheric electromagnetic field bioeffects. <i>International Journal of Biometeorology</i> , 2021, 65, 59-67.	3.0	18
8	A Coplanar Waveguide System for Drug Delivery Mediated by Nanoelectroporation: an Experimental and Numerical Study. , 2021, , .		4
9	Local Dosimetry at Cellular and Subcellular Level in HF and Millimeter-Wave Bands. <i>IEEE Journal of Microwaves</i> , 2021, , 1-12.	6.5	4
10	Experimental and numerical characterization of a grounded coplanar waveguide for nanoelectroporation applied to liposomes. <i>International Journal of Microwave and Wireless Technologies</i> , 2021, 13, 663-672.	1.9	5
11	Computational optimization of transcranial focused ultrasound stimulation: Toward noninvasive, selective stimulation of deep brain structures. <i>Applied Physics Letters</i> , 2021, 118, 233702.	3.3	1
12	Computational Estimate of the Induced Electric Field along Neuronal Fibers in TMS Applications. , 2021, , .		2
13	Effect of skin conductivity on the electric field induced by transcranial stimulation techniques in different head models. <i>Physics in Medicine and Biology</i> , 2021, 66, 035010.	3.0	13
14	3D microdosimetric model to plan and control in vitro drug delivery mediated by nsPEFs with GCPW system. , 2021, , .		1
15	Wireless Power Transfer for Wearable and Implantable Devices: a Review Focusing on the WPT4WID Research Project of National Relevance. , 2021, , .		2
16	Miniaturized coils for noninvasive magnetic stimulation: a numerical comparison in terms of focality and penetration depth. , 2021, , .		1
17	Dosimetric assessment of clinical staff exposed to magnetic field produced by a transcranial magnetic stimulation circular coil. , 2021, , .		2
18	The Impact of Bilayer Rigidity on the Release from Magnetoliposomes Vesicles Controlled by PEMFs. <i>Pharmaceutics</i> , 2021, 13, 1712.	4.5	8

#	ARTICLE	IF	CITATIONS
19	A Miniaturized Ultra-Focal Magnetic Stimulator and Its Preliminary Application to the Peripheral Nervous System. , 2021, , 167-176.		5
20	Numerical Evaluation of Human Body Near Field Exposure to a Vehicular Antenna for Military Applications. Frontiers in Public Health, 2021, 9, 794564.	2.7	4
21	Response of Hydrated Lipid Bilayers to RF EM Fields: Molecular Dynamics Investigations. , 2021, , .		0
22	Electroporation Mechanisms: The Role of Lipid Orientation in the Kinetics of Pore Formation. , 2020, 2020, 2235-2238.		2
23	Galvanotactic Phenomenon Induced by Non-Contact Electrostatic Field: Investigation in a Scratch Assay*. , 2020, 2020, 2520-2523.		0
24	Proof-of-Concept of Electrical Activation of Liposome Nanocarriers: From Dry to Wet Experiments. Frontiers in Bioengineering and Biotechnology, 2020, 8, 819.	4.1	15
25	Confocal Microscopy Improves 3D Microdosimetry Applied to Nanoporation Experiments Targeting Endoplasmic Reticulum. Frontiers in Bioengineering and Biotechnology, 2020, 8, 552261.	4.1	12
26	Revealing Spectrum Features of Stochastic Neuron Spike Trains. Mathematics, 2020, 8, 1011.	2.2	7
27	Patient Semi-specific Computational Modeling of Electromagnetic Stimulation Applied to Neuroprotective Treatments in Acute Ischemic Stroke. Scientific Reports, 2020, 10, 2945.	3.3	8
28	Planning Sine Waves Electroporation on Liposomes for Drug Delivery Application. , 2020, , .		1
29	The Frequency Dependent Response of Sinewave Electropermeabilization. , 2020, , .		0
30	Advances in Modeling Dielectric Response of Biological Structures at Microscopic Level. , 2019, , .		1
31	Numerical evaluation of the induced electric field in techniques of transcranial brain stimulation: influence of the anatomic model and skin conductivity. Brain Stimulation, 2019, 12, 493.	1.6	1
32	Tubulin response to intense nanosecond-scale electric field in molecular dynamics simulation. Scientific Reports, 2019, 9, 10477.	3.3	45
33	Microdosimetric Realistic Model of a Cell with Endoplasmic Reticulum. , 2019, 2019, 134-137.		2
34	Nanosecond pulsed electric signals can affect electrostatic environment of proteins below the threshold of conformational effects: The case study of SOD1 with a molecular simulation study. PLoS ONE, 2019, 14, e0221685.	2.5	23
35	Controlling ionic conductivity through transprotein electropores in human aquaporin 4: a non-equilibrium molecular-dynamics study. Physical Chemistry Chemical Physics, 2019, 21, 3339-3346.	2.8	15
36	Patient Semi-Specific Computational Modeling of Electromagnetic Stimulation. Brain Stimulation, 2019, 12, 455.	1.6	1

#	ARTICLE	IF	CITATIONS
37	A microTMS system for peripheral nerve stimulation. Brain Stimulation, 2019, 12, 521.	1.6	3
38	Evidences of plasma membrane-mediated ROS generation upon ELF exposure in neuroblastoma cells supported by a computational multiscale approach. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 1446-1457.	2.6	14
39	Cancellation of nerve excitation by the reversal of nanosecond stimulus polarity and its relevance to the gating time of sodium channels. Cellular and Molecular Life Sciences, 2019, 76, 4539-4550.	5.4	34
40	Extremely low frequency magnetic fields as neuroprotective treatment in acute ischemic stroke. Brain Stimulation, 2019, 12, 413.	1.6	0
41	Ultra-focal Magnetic Stimulation Using a $\hat{\mu}$ TMS coil: a Computational Study. , 2019, 2019, 3987-3990.		4
42	Influence of Anatomical Model and Skin Conductivity on the Electric Field Induced in the Head by Transcranial Magnetic Stimulation. , 2019, 2019, 2917-2920.		4
43	Modeling and Analysis for Ultra-wideband Single-Cell Sensing by a Coplanar Waveguide. , 2019, , .		2
44	Feasibility of Drug Delivery Mediated by Ultra-Short and Intense Pulsed Electric Fields. , 2019, 2019, 1678-1681.		6
45	Numerical Investigations of CW Electric Fields on Lipid Vesicles for Controlled Drug Delivery. , 2019, , .		6
46	A Microdosimetric Realistic Model to Study Frequency-Dependent Electroporation in a Cell with Endoplasmic Reticulum. , 2019, , .		6
47	A Versatile Magnetic Exposure System for In-Vitro, Ex-Vivo, and In-Vivo Experiments Finalized to Therapeutic Applications in the IF Range. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2019, 3, 9-16.	3.4	2
48	Title is missing!. , 2019, 14, e0221685.		0
49	Title is missing!. , 2019, 14, e0221685.		0
50	Title is missing!. , 2019, 14, e0221685.		0
51	Title is missing!. , 2019, 14, e0221685.		0
52	A wide-band bio-chip for real-time optical detection of bioelectromagnetic interactions with cells. Scientific Reports, 2018, 8, 5044.	3.3	12
53	Automatic decoding of input sinusoidal signal in a neuron model: High pass homomorphic filtering. Neurocomputing, 2018, 292, 165-173.	5.9	11
54	A numerical investigation on the effect of $\langle \text{RF} \rangle$ coil feed variability on global and local electromagnetic field exposure in human body models at 64 $\langle \text{MH} \rangle$. Magnetic Resonance in Medicine, 2018, 79, 1135-1144.	3.0	15

#	ARTICLE	IF	CITATIONS
55	Transprotein-Electropore Characterization: A Molecular Dynamics Investigation on Human AQP4. ACS Omega, 2018, 3, 15361-15369.	3.5	20
56	Human aquaporin 4 gating dynamics under axially oriented electric-field impulses: A non-equilibrium molecular-dynamics study. Journal of Chemical Physics, 2018, 149, 245102.	3.0	23
57	Characterization of a portable and low cost system for practical dielectric spectroscopy. , 2018, , .		1
58	An in vivo exposure-system for wide-band electric pulses. , 2018, , .		0
59	Magnetic Molecular Dynamics Simulations of A2A Receptor in Solution. , 2018, , .		0
60	Molecular Dynamics Simulation Study of Intense Electric Field Effect on Tubulin. , 2018, , .		0
61	Cells and electropulsation microchambers modeling for linear and nonlinear optical microspectroscopy. , 2018, , .		0
62	Experimental Characterization of a Figure of Eight Coil for Transcranial Magnetic Stimulation. , 2018, , .		4
63	Can Pulsed Electromagnetic Fields Trigger On-Demand Drug Release from High-Tm Magnetoliposomes?. Nanomaterials, 2018, 8, 196.	4.1	21
64	Stimulation Strategies for Tinnitus Suppression in a Neuron Model. Computational and Mathematical Methods in Medicine, 2018, 2018, 1-9.	1.3	1
65	Shared Knowledge, Gaps and Challenges of Microdosimetry: Realistic Models of Cells and Endoplasmic Reticulum. , 2018, , .		2
66	Portable System for Practical Permittivity Measurements Improved by Homomorphic Deconvolution. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 514-521.	4.7	6
67	Distributed Effect in High-Frequency Electroporation of Biological Cells. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3503-3511.	4.6	34
68	A computational design of a versatile microchamber for in vitro nanosecond pulsed electric fields experiments. The Integration VLSI Journal, 2017, 58, 446-453.	2.1	6
69	An open-label, one-arm, dose-escalation study to evaluate safety and tolerability of extremely low frequency magnetic fields in acute ischemic stroke. Scientific Reports, 2017, 7, 12145.	3.3	11
70	Electropermeabilization of Inner and Outer Cell Membranes with Microsecond Pulsed Electric Fields: Quantitative Study with Calcium Ions. Scientific Reports, 2017, 7, 13079.	3.3	52
71	Lipid Electropore Geometry in Molecular Models. , 2017, , 155-170.		1
72	Microdosimetry for pulsed E fields in a realistic models of cells and endoplasmic reticulum. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
73	Automatic decoding of input sinusoidal signal in a neuron model: Improved SNR spectrum by low-pass homomorphic filtering. <i>Neurocomputing</i> , 2017, 267, 605-614.	5.9	8
74	Electromagnetic exposure systems for real time CARS imaging. , 2017, , .		0
75	Microchambers and devices for cells exposure: From the design to applications. , 2017, , .		0
76	Diversity of monopolar and bipolar nanosecond pulsed electric signals on the metallo-enzyme superoxide dismutase (SOD), a modelling approach. , 2017, , .		0
77	Monopole patch antenna for in vivo exposure to nanosecond pulsed electric fields. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 1073-1083.	2.8	2
78	Geometrical Characterization of an Electropore from Water Positional Fluctuations. <i>Journal of Membrane Biology</i> , 2017, 250, 11-19.	2.1	8
79	Exploring the Applicability of Nano-Poration for Remote Control in Smart Drug Delivery Systems. <i>Journal of Membrane Biology</i> , 2017, 250, 31-40.	2.1	22
80	A statistical analytical model for hydrophilic electropore characterization: a comparison study. <i>RSC Advances</i> , 2017, 7, 31997-32007.	3.6	4
81	Versatile exposure system for laboratory experiments finalized to therapeutic applications in the IF range. , 2017, , .		1
82	Magnetic molecular dynamics simulations with Velocity Verlet algorithm. , 2017, , .		4
83	Technological and Theoretical Aspects for Testing Electroporation on Liposomes. <i>BioMed Research International</i> , 2017, 2017, 1-10.	1.9	17
84	Numerical estimation of a 10 nanosecond pulse effects on non-uniformly distributed liposomes. , 2017, , .		1
85	Human Aquaporin 4 Gating Dynamics under Perpendicularly-Oriented Electric-Field Impulses: A Molecular Dynamics Study. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1133.	4.1	22
86	A numerical design of versatile microchambers for nsPEFs experiments. , 2016, , .		1
87	Time resolved dosimetry of human brain exposed to low frequency pulsed magnetic fields. <i>Physics in Medicine and Biology</i> , 2016, 61, 4452-4465.	3.0	5
88	A microdosimetry study for a realistic shaped nucleus. , 2016, 2016, 4189-4192.		2
89	Microchambers for cell exposure: From the design to applications. , 2016, 2016, 4232-4235.		1
90	RF induced energy for partially implanted catheters: A computational study. , 2016, 2016, 1256-1259.		2

#	ARTICLE	IF	CITATIONS
91	A Microdosimetric Study of Electropulsation on Multiple Realistically Shaped Cells: Effect of Neighbours. <i>Journal of Membrane Biology</i> , 2016, 249, 691-701.	2.1	26
92	Assessing the Electromagnetic Fields Generated By a Radiofrequency MRI Body Coil at 64 MHz: Defeating Versus Accuracy. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 1591-1601.	4.2	35
93	Lipid Electropore Geometry in Molecular Models. , 2016, , 1-16.		0
94	Modeling the positioning of single needle electrodes for the treatment of breast cancer in a clinical case. <i>BioMedical Engineering OnLine</i> , 2015, 14, S1.	2.7	26
95	Water response to intense electric fields: A molecular dynamics study. <i>Bioelectromagnetics</i> , 2015, 36, 377-385.	1.6	29
96	Numerical characterization of intraoperative and chronic electrodes in deep brain stimulation. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 2.	2.1	16
97	Restoring the encoding properties of a stochastic neuron model by an exogenous noise. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 42.	2.1	9
98	The CNP signal is able to silence a supra threshold neuronal model. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 44.	2.1	5
99	Culture Medium Geometry: The Dominant Factor Affecting In Vitro RF Exposure Dosimetry. <i>International Journal of Antennas and Propagation</i> , 2015, 2015, 1-10.	1.2	4
100	Scenarios Approach to the Electromagnetic Exposure: The Case Study of a Train Compartment. <i>BioMed Research International</i> , 2015, 2015, 1-10.	1.9	1
101	A Computational Model for Real-Time Calculation of Electric Field due to Transcranial Magnetic Stimulation in Clinics. <i>International Journal of Antennas and Propagation</i> , 2015, 2015, 1-11.	1.2	27
102	Assessment of Cytoplasm Conductivity by Nanosecond Pulsed Electric Fields. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1595-1603.	4.2	49
103	Communication: Influence of nanosecond-pulsed electric fields on water and its subsequent relaxation: Dipolar effects and debunking memory. <i>Journal of Chemical Physics</i> , 2015, 142, 141101.	3.0	23
104	Controllable release from high-transition temperature magnetoliposomes by low-level magnetic stimulation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 131, 136-140.	5.0	40
105	In vitro exposure: Linear and non-linear thermodynamic events in Petri dishes. <i>Bioelectromagnetics</i> , 2015, 36, 527-537.	1.6	10
106	Evaluation of Protein Electrostatic Potential from Molecular Dynamics Simulations in the Presence of Exogenous Electric Fields: The Case Study of Myoglobin. , 2015, , 255-270.		1
107	Molecular dynamics simulations of a single DNA strand under the action of a continuous wave electric field. , 2014, , .		0
108	Molecular dynamics simulations of EM fields acting on SOD enzyme. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
109	Effect of the meniscus at the solid-liquid interface on the microwave exposure of biological samples. , 2014, , .		2
110	Cell detection and discrimination by a microfluidic-integrated broadband microchamber. , 2014, , .		2
111	Dipolar response and hydrogen-bond kinetics in liquid water in square-wave time-varying electric fields. Molecular Physics, 2014, 112, 1870-1878.	1.7	44
112	Controlled release from magnetoliposomes aqueous suspensions exposed to a low intensity magnetic field. Bioelectromagnetics, 2014, 35, 309-312.	1.6	21
113	A molecular dynamic study of cholesterol rich lipid membranes: comparison of electroporation protocols. Bioelectrochemistry, 2014, 100, 11-17.	4.6	75
114	Broadband Electrical Detection of Individual Biological Cells. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1905-1911.	4.6	62
115	Reproducible sensing of individual biological cells by broadband microwave signals. , 2014, , .		0
116	Microdosimetric Study for Nanosecond Pulsed Electric Fields on a Cell Circuit Model with Nucleus. Journal of Membrane Biology, 2013, 246, 761-767.	2.1	41
117	Smart flexible planar electrodes for electrochemotherapy and biosensing. , 2013, , .		5
118	A Consensus Panel Review of Central Nervous System Effects of the Exposure to Low-Intensity Extremely Low-Frequency Magnetic Fields. Brain Stimulation, 2013, 6, 469-476.	1.6	85
119	Human aquaporin 4 gating dynamics under and after nanosecond-scale static and alternating electric-field impulses: A molecular dynamics study of field effects and relaxation. Journal of Chemical Physics, 2013, 139, 205101.	3.0	61
120	Modeling triplet flavin-indole electron transfer and interrational dipolar interaction: a perturbative approach. Theoretical Chemistry Accounts, 2013, 132, 1.	1.4	14
121	Effects of pulsed magnetic field on neurons: Cnp signal silences a feed-forward network model. , 2013, , .		3
122	Effect of High Exogenous Electric Pulses on Protein Conformation: Myoglobin as a Case Study. Journal of Physical Chemistry B, 2013, 117, 2273-2279.	2.6	85
123	Proving lightning role in the evolution of life. Physics of Life Reviews, 2013, 10, 380-381.	2.8	2
124	Translational and rotational diffusive motion in liquid water in square-wave time-varying electric fields. Chemical Physics Letters, 2013, 582, 60-65.	2.6	38
125	Microwave Exposure Systems for In Vivo Biological Experiments: A Systematic Review. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1980-1993.	4.6	27
126	A Comparative Analysis Between Customized and Commercial Systems for Complex Permittivity Measurements on Liquid Samples at Microwave Frequencies. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1034-1046.	4.7	42

#	ARTICLE	IF	CITATIONS
127	Feasibility for Microwaves Energy to Affect Biological Systems Via Nonthermal Mechanisms: A Systematic Approach. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2031-2045.	4.6	84
128	Stochastic resonance induced by exogenous noise in a model of a neuronal network. Network: Computation in Neural Systems, 2013, 24, 99-113.	3.6	16
129	A Numerical Study to Compare Stimulations by Intraoperative Microelectrodes and Chronic Macroelectrodes in the DBS Technique. BioMed Research International, 2013, 2013, 1-7.	1.9	10
130	A dosimetric study comparing intra-operative microelectrode and chronic macroelectrode in the DBS technique. , 2013, , .		1
131	Single Cell Microdosimetric Studies Comparing Ideal and Measured Nanosecond Pulsed Electric Fields. , 2013, , .		5
132	Effects of nanosecond pulsed electric fields on the activity of a Hodgkin and Huxley neuron model. , 2012, 2012, 2567-70.		4
133	Signal transduction on enzymes: the Effect of electromagnetic field stimuli on superoxide dismutase (SOD). , 2012, 2012, 5674-7.		9
134	Microdosimetry for ultrashort electric pulses: A literature review. , 2012, , .		0
135	Customized systems for complex permittivity measurements on liquid samples at microwave frequencies: A comparative analysis. , 2012, , .		1
136	Preparation and characterization of lipid vesicles entrapping iron oxide nanoparticles. Asia-Pacific Journal of Chemical Engineering, 2012, 7, S335.	1.5	10
137	Electroporation mechanism: Review of molecular models based on computer simulation. , 2012, , .		9
138	A TEM cell system for in vivo exposure at 2.45 GHz. , 2012, , .		4
139	Nanopore test circuit for single-strand DNA sequencing. , 2012, , .		0
140	Novel Passive Element Circuits for Microdosimetry of Nanosecond Pulsed Electric Fields. IEEE Transactions on Biomedical Engineering, 2012, 59, 2302-2311.	4.2	63
141	An Over-Moded TEM Cell System for <i>in vivo</i> Exposure at 2.45 GHz. Journal of Electromagnetic Analysis and Applications, 2012, 04, 345-352.	0.2	1
142	Microdosimetry applied to nanosecond pulsed electric fields: A comparison on a single cell between real and ideal waveforms. , 2011, 2011, 302-5.		2
143	Design and Characterization of a Wi-Fi Loop Antenna Suitable for in Vivo Experiments. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 896-899.	4.0	4
144	Characterization of a train compartment scenario for the individual exposure assessment. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
145	Numerical evaluation of the electric field induced in a cubic phantom by different antennas at 2.45 GHz. , 2011, , .		0
146	The role of water near charged interfaces: Molecular dynamics simulations of biological macromolecules in presence of high intense electric fields. , 2011, , .		0
147	Modeling of Chemical Reactions in Micelle: Water-Mediated Keto \rightleftharpoons Enol Interconversion As a Case Study. Journal of Physical Chemistry B, 2011, 115, 8102-8111.	2.6	23
148	Microdosimetry for Nanosecond Pulsed Electric Field Applications: A Parametric Study for a Single Cell. IEEE Transactions on Biomedical Engineering, 2011, 58, 1294-1302.	4.2	52
149	Coplanar waveguide with defected ground structure for nanosecond subcellular electroporation. , 2011, , .		2
150	Coplanar waveguide with defected ground structure for nanosecond subcellular electroporation. , 2011, , .		2
151	Technology and design of innovative flexible electrode for biomedical applications. , 2011, , .		5
152	A 3-D Microdosimetric Study on Blood Cells: A Permittivity Model of Cell Membrane and Stochastic Electromagnetic Analysis. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 691-698.	4.6	36
153	Considerations for Developing an RF Exposure System: A Review for in vitro Biological Experiments. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2702-2714.	4.6	76
154	A set up for nanosecond pulsed electric field investigations on biological cells. , 2010, , .		0
155	A Wire Patch Cell for \cdot in vitro \cdot exposure at the Wi-Fi frequencies. , 2010, , .		1
156	Micro vs macro electrode DBS stimulation: A dosimetric study. , 2010, 2010, 2057-60.		9
157	Microstrip-based nanosecond pulse generators: Numerical and circuital modeling. , 2010, , .		7
158	A 10- Ω High-Voltage Nanosecond Pulse Generator. IEEE Transactions on Microwave Theory and Techniques, 2010, , .	4.6	20
159	A Wire Patch Cell Exposure System for in vitro Experiments at Wi-Fi Frequencies. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 4086-4093.	4.6	14
160	A three-dimensional electromagnetic model for the DBS application. , 2009, , .		4
161	Nanosecond pulsed electric field (nsPEF): A microdosimetry study at single cell level. , 2009, , .		1
162	Channel noise enhances signal detectability in a model of acoustic neuron through the stochastic resonance paradigm. , 2009, 2009, 1525-8.		5

#	ARTICLE	IF	CITATIONS
163	Quantitative assessment of dielectric parameters for membrane lipid bilayers from RF permittivity measurements. <i>Bioelectromagnetics</i> , 2009, 30, 286-298.	1.6	48
164	A microwave microdosimetric study on blood cells: Estimation of cell membrane permittivity and parametric EM analysis. , 2009, , .		8
165	Microdosimetry in the Microwave Range: A Quantitative Assessment at Single Cell Level. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2009, 8, 865-868.	4.0	30
166	A new wire patch cell for the exposure of cell cultures to electromagnetic fields at 2.45 GHz: Design and numerical characterization. , 2009, , .		0
167	Molecular simulations of biochemical processes in presence of a MW signal. , 2008, , .		3
168	Mixed Quantum-Classical Methods for Molecular Simulations of Biochemical Reactions With Microwave Fields: The Case Study of Myoglobin. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008, 56, 2511-2519.	4.6	36
169	Effects of an Exogenous Noise on a Realistic Network Model: Encoding of an EM Signal. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 2404-7.	0.5	7
170	Fundamental Electrical Quantities in Deep Brain Stimulation: Influence of Domain Dimensions and Boundary Conditions. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 6669-72.	0.5	16
171	The role of molecular computational methods in bioelectromagnetic research. , 2007, , .		1
172	Enhancement of EM Signal Detectability in a Realistic Model of Feedforward Neuronal Network. , 2007, , .		5
173	Acute exposure to low-level CW and GSM-modulated 900 MHz radiofrequency does not affect Ca^{2+} currents through voltage-gated calcium channels in rat cortical neurons. <i>Bioelectromagnetics</i> , 2007, 28, 599-607.	1.6	35
174	A Real-Time Exposure System for Electrophysiological Recording in Brain Slices. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007, 55, 2463-2471.	4.6	22
175	Myoglobin as a Case Study for Molecular Simulations in the Presence of a Microwave Electromagnetic Field. , 2006, , .		7
176	Dielectric Spectroscopy of Blood Cells Suspensions: Study on Geometrical Structure of Biological Cells. , 2006, 2006, 3194-7.		10
177	Comparison between low-level 50ÂHz and 900ÂMHz electromagnetic stimulation on single channel ionic currents and on firing frequency in dorsal root ganglion isolated neurons. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 597-605.	2.6	61
178	Modeling electromagnetic fields detectability in a HH-like neuronal system: stochastic resonance and window behavior. <i>Biological Cybernetics</i> , 2006, 94, 118-127.	1.3	29
179	Exposure to AC and DC magnetic fields induces changes in 5-HT1B receptor binding parameters in rat brain membranes. <i>Bioelectromagnetics</i> , 2006, 27, 414-422.	1.6	15
180	Effects of Exogenous Noise in a Silent Neuron Model: Firing Induction and EM Signal Detection. , 2006, 2006, 4183-6.		9

#	ARTICLE	IF	CITATIONS
181	Indoor Telemedicine in Hospital: a PDA-based Flexible Solution for Wireless Monitoring and Database Integration.. , 2005, 2006, 386-9.		8
182	Permeability changes of connexin32 hemi channels reconstituted in liposomes induced by extremely low frequency, low amplitude magnetic fields. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1668, 33-40.	2.6	11
183	A possible mechanism explaining variation in membrane permeability under exposure to weak magnetic fields. , 2004, 2004, 837-40.		0
184	A Coplanar-Waveguide System for Cells Exposure During Electrophysiological Recordings. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 2521-2528.	4.6	24
185	Effects of 2.45 GHz microwave fields on liposomes entrapping glycoenzyme ascorbate oxidase: Evidence for oligosaccharide side chain involvement. Bioelectromagnetics, 2004, 25, 338-345.	1.6	13
186	Theoretical evaluation of GSM/UMTS electromagnetic fields on neuronal network response. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 3029-3035.	4.6	5
187	Integrated models for the analysis of biological effects of EM fields used for mobile communications. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 2082-2093.	4.6	48
188	A Zeeman-Stark/Markov model approach to study the EM-RF exposure of a potassium channel. , 0, , .		0
189	Theoretical evaluation of UMTS/GSM electromagnetic fields on neuronal network response. , 0, , .		1
190	Frequency spectrum investigations on detection of radiofrequency electromagnetic fields by biological cells. , 0, , .		0
191	A coplanar waveguide system for cells exposure during electrophysiological recordings. , 0, , .		1
192	Modeling Biological Noise in Firing and Bursting Neurons in the Presence of an Electromagnetic Field. , 0, , .		1
193	Real Time Radio Frequency Exposure for Bio-Physical Data Acquisition. , 0, , .		2