

Niels Kuster

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5185098/publications.pdf>

Version: 2024-02-01

220
papers

10,736
citations

38660

50
h-index

37111

96
g-index

224
all docs

224
docs citations

224
times ranked

7329
citing authors

#	ARTICLE	IF	CITATIONS
1	The Virtual Familyâ€™ development of surface-based anatomical models of two adults and two children for dosimetric simulations. <i>Physics in Medicine and Biology</i> , 2010, 55, N23-N38.	1.6	1,237
2	Targeted neurotechnology restores walking in humans with spinal cord injury. <i>Nature</i> , 2018, 563, 65-71.	13.7	708
3	Development of a new generation of high-resolution anatomical models for medical device evaluation: the Virtual Population 3.0. <i>Physics in Medicine and Biology</i> , 2014, 59, 5287-5303.	1.6	355
4	Age-dependent tissue-specific exposure of cell phone users. <i>Physics in Medicine and Biology</i> , 2010, 55, 1767-1783.	1.6	304
5	Electromagnetic fields, such as those from mobile phones, alter regional cerebral blood flow and sleep and waking EEG. <i>Journal of Sleep Research</i> , 2002, 11, 289-295.	1.7	269
6	Exposure to pulsed high-frequency electromagnetic field during waking affects human sleep EEG. <i>NeuroReport</i> , 2000, 11, 3321-3325.	0.6	234
7	CEM43Â°C thermal dose thresholds: a potential guide for magnetic resonance radiofrequency exposure levels?. <i>European Radiology</i> , 2013, 23, 2215-2227.	2.3	222
8	MIDA: A Multimodal Imaging-Based Detailed Anatomical Model of the Human Head and Neck. <i>PLoS ONE</i> , 2015, 10, e0124126.	1.1	220
9	Differences in RF energy absorption in the heads of adults and children. <i>Bioelectromagnetics</i> , 2005, 26, S31-S44.	0.9	192
10	Activity-dependent spinal cord neuromodulation rapidly restores trunk and leg motor functions after complete paralysis. <i>Nature Medicine</i> , 2022, 28, 260-271.	15.2	174
11	An Attempt to Model the Human Body as a Communication Channel. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 1851-1857.	2.5	173
12	Electromagnetic fields affect transcript levels of apoptosis-related genes in embryonic stem cell-derived neural progenitor cells. <i>FASEB Journal</i> , 2005, 19, 1686-1688.	0.2	157
13	The dependence of electromagnetic far-field absorption on body tissue composition in the frequency range from 300 MHz to 6 GHz. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006, 54, 2188-2195.	2.9	156
14	Signal Transmission by Galvanic Coupling Through the Human Body. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010, 59, 963-969.	2.4	153
15	Impact of pinna compression on the RF absorption in the heads of adult and juvenile cell phone users. <i>Bioelectromagnetics</i> , 2010, 31, 406-412.	0.9	153
16	Comparisons of Computed Mobile Phone Induced SAR in the SAM Phantom to That in Anatomically Correct Models of the Human Head. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2006, 48, 397-407.	1.4	152
17	Differences in Energy Absorption Between Heads of Adults and Children in the Near Field of Sources. <i>Health Physics</i> , 1998, 74, 160-168.	0.3	137
18	Exposure to pulse-modulated radio frequency electromagnetic fields affects regional cerebral blood flow. <i>European Journal of Neuroscience</i> , 2005, 21, 1000-1006.	1.2	131

#	ARTICLE	IF	CITATIONS
19	Assessing Human Exposure to Electromagnetic Fields From Wireless Power Transmission Systems. Proceedings of the IEEE, 2013, 101, 1482-1493.	16.4	131
20	A numerical and experimental comparison of human head phantoms for compliance testing of mobile telephone equipment. Bioelectromagnetics, 2005, 26, 125-137.	0.9	127
21	Dosimetric comparison of the specific anthropomorphic mannequin (SAM) to 14 anatomical head models using a novel definition for the mobile phone positioning. Physics in Medicine and Biology, 2005, 50, 3423-3445.	1.6	116
22	Recommended minimal requirements and development guidelines for exposure setups of bio-experiments addressing the health risk concern of wireless communications. Bioelectromagnetics, 2000, 21, 508-514.	0.9	114
23	Cancer cell proliferation is inhibited by specific modulation frequencies. British Journal of Cancer, 2012, 106, 307-313.	2.9	114
24	Effect of global system for mobile communication microwave exposure on the genomic response of the rat brain. Neuroscience, 1997, 81, 627-639.	1.1	106
25	Pulsed radio-frequency electromagnetic fields: dose-dependent effects on sleep, the sleep EEG and cognitive performance. Journal of Sleep Research, 2007, 16, 253-258.	1.7	106
26	Radio frequency electromagnetic field exposure in humans: Estimation of SAR distribution in the brain, effects on sleep and heart rate. Bioelectromagnetics, 2003, 24, 262-276.	0.9	105
27	High frequency electromagnetic fields (GSM signals) affect gene expression levels in tumor suppressor p53-deficient embryonic stem cells. Bioelectromagnetics, 2004, 25, 296-307.	0.9	104
28	A review of numerical and experimental compensation techniques for skull-induced phase aberrations in transcranial focused ultrasound. International Journal of Hyperthermia, 2014, 30, 36-46.	1.1	104
29	Feasibility of future epidemiological studies on possible health effects of mobile phone base stations. Bioelectromagnetics, 2007, 28, 224-230.	0.9	103
30	UMTS Base Station-like Exposure, Well-Being, and Cognitive Performance. Environmental Health Perspectives, 2006, 114, 1270-1275.	2.8	101
31	Evaluation of Wireless Resonant Power Transfer Systems With Human Electromagnetic Exposure Limits. IEEE Transactions on Electromagnetic Compatibility, 2012, , 1-10.	1.4	101
32	DNA fragmentation in human fibroblasts under extremely low frequency electromagnetic field exposure. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2010, 683, 74-83.	0.4	92
33	Pulsed radio frequency radiation affects cognitive performance and the waking electroencephalogram. NeuroReport, 2007, 18, 803-807.	0.6	83
34	Sleep EEG alterations: effects of different pulse-modulated radio frequency electromagnetic fields. Journal of Sleep Research, 2012, 21, 50-58.	1.7	83
35	Human Exposure to Close-Range Resonant Wireless Power Transfer Systems as a Function of Design Parameters. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 1027-1034.	1.4	83
36	Numerical and experimental dosimetry of petri dish exposure setups. Bioelectromagnetics, 1996, 17, 483-493.	0.9	77

#	ARTICLE	IF	CITATIONS
37	Thermal Tissue Damage Model Analyzed for Different Whole-Body SAR and Scan Durations for Standard MR Body Coils. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 421-431.	1.9	76
38	Gene expression changes in human cells after exposure to mobile phone microwaves. <i>Proteomics</i> , 2006, 6, 4745-4754.	1.3	73
39	The effects of 884-MHz GSM wireless communication signals on headache and other symptoms: An experimental provocation study. <i>Bioelectromagnetics</i> , 2008, 29, 185-196.	0.9	73
40	Assessment of induced radio-frequency electromagnetic fields in various anatomical human body models. <i>Physics in Medicine and Biology</i> , 2009, 54, 875-890.	1.6	73
41	Treatment of advanced hepatocellular carcinoma with very low levels of amplitude-modulated electromagnetic fields. <i>British Journal of Cancer</i> , 2011, 105, 640-648.	2.9	71
42	In vitro exposure apparatus for ELF magnetic fields. <i>Bioelectromagnetics</i> , 2004, 25, 582-591.	0.9	70
43	Radiofrequency electromagnetic fields (UMTS, 1,950-MHz) induce genotoxic effects in vitro in human fibroblasts but not in lymphocytes. <i>International Archives of Occupational and Environmental Health</i> , 2008, 81, 755-767.	1.1	66
44	Galvanic Coupling Enabling Wireless Implant Communications. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2009, 58, 2618-2625.	2.4	62
45	Basis for optimization of in vitro exposure apparatus for health hazard evaluations of mobile communications. <i>Bioelectromagnetics</i> , 2001, 22, 547-559.	0.9	60
46	Evaluation of the RF heating of a generic deep brain stimulator exposed in 1.5-T magnetic resonance scanners. <i>Bioelectromagnetics</i> , 2013, 34, 104-113.	0.9	60
47	Sleep after mobile phone exposure in subjects with mobile phone-related symptoms. <i>Bioelectromagnetics</i> , 2011, 32, 4-14.	0.9	59
48	Advances in Computational Human Phantoms and Their Applications in Biomedical Engineering – A Topical Review. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 1-23.	2.7	58
49	Whole-body and local RF absorption in human models as a function of anatomy and position within 1.5T MR body coil. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 839-845.	1.9	55
50	Analysis of human brain exposure to low-frequency magnetic fields: A numerical assessment of spatially averaged electric fields and exposure limits. <i>Bioelectromagnetics</i> , 2013, 34, 375-384.	0.9	54
51	Exposure Setup to Test Effects of Wireless Communications Systems on the CNS. <i>Health Physics</i> , 1997, 73, 770-778.	0.3	50
52	Guidance for exposure design of human studies addressing health risk evaluations of mobile phones. <i>Bioelectromagnetics</i> , 2004, 25, 524-529.	0.9	50
53	Whole-body exposure to 2.45 GHz electromagnetic fields does not alter radial-maze performance in rats. <i>Behavioural Brain Research</i> , 2004, 155, 37-43.	1.2	50
54	Exposure of the Human Body to Professional and Domestic Induction Cooktops Compared to the Basic Restrictions. <i>Bioelectromagnetics</i> , 2012, 33, 695-705.	0.9	50

#	ARTICLE	IF	CITATIONS
55	Effect of cell phone radiofrequency radiation on body temperature in rodents: Pilot studies of the National Toxicology Program's reverberation chamber exposure system. <i>Bioelectromagnetics</i> , 2018, 39, 190-199.	0.9	49
56	Full-wave acoustic and thermal modeling of transcranial ultrasound propagation and investigation of skull-induced aberration correction techniques: a feasibility study. <i>Journal of Therapeutic Ultrasound</i> , 2015, 3, 11.	2.2	46
57	Design, optimization, realization, and analysis of an in vitro system for the exposure of embryonic stem cells at 1.71 GHz. <i>Bioelectromagnetics</i> , 2000, 21, 372-384.	0.9	44
58	Non-thermal effects of power-line magnetic fields (50Hz) on gene expression levels of pluripotent embryonic stem cells—the role of tumour suppressor p53. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2004, 557, 63-74.	0.9	43
59	Whole-body exposure to 2.45GHz electromagnetic fields does not alter anxiety responses in rats: a plus-maze study including test validation. <i>Behavioural Brain Research</i> , 2005, 156, 65-74.	1.2	43
60	Methodology of detailed dosimetry and treatment of uncertainty and variations for in vivo studies. <i>Bioelectromagnetics</i> , 2006, 27, 378-391.	0.9	43
61	Calcium homeostasis and low-frequency magnetic and electric field exposure: A systematic review and meta-analysis of in vitro studies. <i>Environment International</i> , 2016, 92-93, 695-706.	4.8	43
62	Virtual population-based assessment of the impact of 3 Tesla radiofrequency shimming and thermoregulation on safety and B_{1} uniformity. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 986-997.	1.9	42
63	Pregnant women models analyzed for RF exposure and temperature increase in $3T$ RF shimmed birdcages. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 2048-2056.	1.9	42
64	Effect of the meniscus at the solid/liquid interface on the SAR distribution in Petri dishes and flasks. <i>Bioelectromagnetics</i> , 2003, 24, 103-108.	0.9	41
65	Stimulation of the Brain With Radiofrequency Electromagnetic Field Pulses Affects Sleep-Dependent Performance Improvement. <i>Brain Stimulation</i> , 2013, 6, 805-811.	0.7	41
66	Carcinogenicity study of GSM and DCS wireless communication signals in B6C3F1 mice. <i>Bioelectromagnetics</i> , 2007, 28, 173-187.	0.9	40
67	Local SAR enhancements in anatomically correct children and adult models as a function of position within $1.5T$ MR body coil. <i>Progress in Biophysics and Molecular Biology</i> , 2011, 107, 428-433.	1.4	40
68	Cell Type-Dependent Induction of DNA Damage by 1800 MHz Radiofrequency Electromagnetic Fields Does Not Result in Significant Cellular Dysfunctions. <i>PLoS ONE</i> , 2013, 8, e54906.	1.1	40
69	Sleep EEG alterations: effects of pulsed magnetic fields versus pulse-modulated radio frequency electromagnetic fields. <i>Journal of Sleep Research</i> , 2012, 21, 620-629.	1.7	37
70	Measured radiofrequency exposure during various mobile-phone use scenarios. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2011, 21, 343-354.	1.8	36
71	No increased sensitivity in brain activity of adolescents exposed to mobile phone-like emissions. <i>Clinical Neurophysiology</i> , 2013, 124, 1303-1308.	0.7	36
72	Systematic Derivation of Safety Limits for Time-Varying 5G Radiofrequency Exposure Based on Analytical Models and Thermal Dose. <i>Health Physics</i> , 2018, 115, 705-711.	0.3	36

#	ARTICLE	IF	CITATIONS
73	Understanding ultrasound neuromodulation using a computationally efficient and interpretable model of intramembrane cavitation. <i>Journal of Neural Engineering</i> , 2019, 16, 046007.	1.8	36
74	Effects of Low Energy Emission Therapy in Chronic Psychophysiological Insomnia. <i>Sleep</i> , 1996, 19, 327-336.	0.6	35
75	Carcinogenicity Study of 217 Hz Pulsed 900 MHz Electromagnetic Fields in Pim1 Transgenic Mice. <i>Radiation Research</i> , 2007, 168, 316-326.	0.7	35
76	Analysis of the local worst-case SAR exposure caused by an MRI multi-transmit body coil in anatomical models of the human body. <i>Physics in Medicine and Biology</i> , 2011, 56, 4649-4659.	1.6	34
77	Total Field Reconstruction in the Near Field Using Pseudo-Vector \vec{E} Field Measurements. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019, 61, 476-486.	1.4	34
78	Whole-body exposure to 2.45GHz electromagnetic fields does not alter 12-arm radial-maze with reduced access to spatial cues in rats. <i>Behavioural Brain Research</i> , 2005, 161, 331-334.	1.2	32
79	Compliance Testing Methodology for Wireless Power Transfer Systems. <i>IEEE Transactions on Power Electronics</i> , 2015, 30, 6264-6273.	5.4	32
80	Measurement System for the Characterization of the Human Body as a Communication Channel at Low Frequency. , 2005, 2005, 3502-5.		31
81	Extremely low-frequency magnetic fields and risk of childhood leukemia: A risk assessment by the ARIMMORA consortium. <i>Bioelectromagnetics</i> , 2016, 37, 183-189.	0.9	31
82	The SPARC DRC: Building a Resource for the Autonomic Nervous System Community. <i>Frontiers in Physiology</i> , 2021, 12, 693735.	1.3	31
83	Analysis of EEG data from weak-field magnetic stimulation of mesial temporal lobe epilepsy patients11Published on the World Wide Web on 15 May 2000.. <i>Brain Research</i> , 2000, 868, 386-391.	1.1	30
84	Estimation Formulas for the Specific Absorption Rate in Humans Exposed to Base-Station Antennas. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2011, 53, 909-922.	1.4	30
85	Life-Time Dosimetric Assessment for Mice and Rats Exposed in Reverberation Chambers for the Two-Year NTP Cancer Bioassay Study on Cell Phone Radiation. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017, 59, 1798-1808.	1.4	30
86	Mobile phone exposure and spatial memory. <i>Bioelectromagnetics</i> , 2009, 30, 59-65.	0.9	29
87	RF-INDUCED TEMPERATURE INCREASE IN A STRATIFIED MODEL OF THE SKIN FOR PLANE-WAVE EXPOSURE AT 60-100 GHz. <i>Radiation Protection Dosimetry</i> , 2020, 188, 350-360.	0.4	29
88	Dependence of the Occupational Exposure to Mobile Phone Base Stations on the Properties of the Antenna and the Human Body. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2009, 51, 227-235.	1.4	28
89	Influence of GSM Signals on Human Peripheral Lymphocytes: Study of Genotoxicity. <i>Radiation Research</i> , 2013, 179, 243.	0.7	27
90	Inter-individual and intra-individual variation of the effects of pulsed RF EMF exposure on the human sleep EEG. <i>Bioelectromagnetics</i> , 2015, 36, 169-177.	0.9	27

#	ARTICLE	IF	CITATIONS
91	Dosimetric analysis of the carousel setup for the exposure of rats at 1.62 GHz. <i>Bioelectromagnetics</i> , 2004, 25, 16-26.	0.9	26
92	Dosimetric evaluation and comparison of different RF exposure apparatuses used in human volunteer studies. <i>Bioelectromagnetics</i> , 2008, 29, 11-19.	0.9	26
93	Reevaluation and improved design of the TEM cell in vitro exposure unit for replication studies. <i>Bioelectromagnetics</i> , 2005, 26, 215-224.	0.9	25
94	Effects of 1-Week and 6-Week Exposure to GSM/DCS Radiofrequency Radiation on Micronucleus Formation in B6C3F1 Mice. <i>Radiation Research</i> , 2005, 164, 431-439.	0.7	25
95	Development of novel whole-body exposure setups for rats providing high efficiency, National Toxicology Program (NTP) compatibility and well-characterized exposure. <i>Physics in Medicine and Biology</i> , 2006, 51, 5211-5229.	1.6	25
96	Accuracy Assessment of Numerical Dosimetry for the Evaluation of Human Exposure to Electric Vehicle Inductive Charging Systems. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020, 62, 1939-1950.	1.4	25
97	GSM and DCS Wireless Communication Signals: Combined Chronic Toxicity/Carcinogenicity Study in the Wistar Rat. <i>Radiation Research</i> , 2007, 168, 480-492.	0.7	24
98	Heating and Safety Concerns of the Radio-Frequency Field in MRI. <i>Current Radiology Reports</i> , 2015, 3, 1.	0.4	24
99	Worst Case Temperature Rise in a One-Dimensional Tissue Model Exposed to Radiofrequency Radiation. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 492-496.	2.5	23
100	Local tissue temperature increase of a generic implant compared to the basic restrictions defined in safety guidelines. <i>Bioelectromagnetics</i> , 2012, 33, 366-374.	0.9	23
101	Dosimetric study of fetal exposure to uniform magnetic fields at 50â€‰%Hz. <i>Bioelectromagnetics</i> , 2014, 35, 580-597.	0.9	23
102	A Radio Frequency Radiation Exposure System for Rodents Based on Reverberation Chambers. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017, 59, 1041-1052.	1.4	22
103	Assessment Methods for Demonstrating Compliance With Safety Limits of Wireless Devices Used in Home and Office Environments. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2007, 49, 519-525.	1.4	21
104	Influence of the Hand on the Specific Absorption Rate in the Head. <i>IEEE Transactions on Antennas and Propagation</i> , 2012, 60, 1066-1074.	3.1	21
105	Heating characteristics of antenna arrays used in microwave ablation: A theoretical parametric study. <i>Computers in Biology and Medicine</i> , 2013, 43, 1321-1327.	3.9	21
106	Theoretical evaluation of the power transmitted to the body as a function of angle of incidence and polarization at frequencies ≥ 6 GHz and its relevance for standardization. <i>Bioelectromagnetics</i> , 2019, 40, 136-139.	0.9	21
107	Extremely low-frequency electromagnetic field (ELF-EMF) does not affect the expression of $\hat{1}\pm 3$, $\hat{1}\pm 5$ and $\hat{1}\pm 7$ nicotinic receptor subunit genes in SH-SY5Y neuroblastoma cell line. <i>Toxicology Letters</i> , 2006, 164, 268-277.	0.4	20
108	Patient-specific simulations and measurements of the magneto-hemodynamic effect in human primary vessels. <i>Physiological Measurement</i> , 2012, 33, 117-130.	1.2	20

#	ARTICLE	IF	CITATIONS
109	Effects of personalised exposure on self-rated electromagnetic hypersensitivity and sensibility – A double-blind randomised controlled trial. <i>Environment International</i> , 2017, 99, 255-262.	4.8	20
110	Effects of 900 MHz GSM Wireless Communication Signals on DMBA-Induced Mammary Tumors in Rats. <i>Radiation Research</i> , 2006, 165, 174-180.	0.7	19
111	Mastering Conformal Meshing for Complex CAD-Based C-FDTD Simulations. <i>IEEE Antennas and Propagation Magazine</i> , 2008, 50, 45-57.	1.2	19
112	Analysis of proteome response to the mobile phone radiation in two types of human primary endothelial cells. <i>Proteome Science</i> , 2010, 8, 52.	0.7	19
113	Functionalized anatomical models for EM-neuron Interaction modeling. <i>Physics in Medicine and Biology</i> , 2016, 61, 4390-4401.	1.6	19
114	Activation of Signaling Cascades by Weak Extremely Low Frequency Electromagnetic Fields. <i>Cellular Physiology and Biochemistry</i> , 2017, 43, 1533-1546.	1.1	19
115	Theoretical and numerical assessment of maximally allowable power-density averaging area for conservative electromagnetic exposure assessment above 6 GHz. <i>Bioelectromagnetics</i> , 2018, 39, 617-630.	0.9	19
116	Transducer modeling for accurate acoustic simulations of transcranial focused ultrasound stimulation. <i>Journal of Neural Engineering</i> , 2020, 17, 046010.	1.8	19
117	Antenna design and tissue parameters considerations for an improved modelling of microwave ablation in the liver. <i>Physics in Medicine and Biology</i> , 2013, 58, 3191-3206.	1.6	18
118	Convex optimization of MRI exposure for mitigation of RF-heating from active medical implants. <i>Physics in Medicine and Biology</i> , 2015, 60, 7293-7308.	1.6	18
119	Functionalized Anatomical Models for Computational Life Sciences. <i>Frontiers in Physiology</i> , 2018, 9, 1594.	1.3	18
120	Study on potential effects of –902-MHz GSM-type Wireless Communication Signals–on DMBA-induced mammary tumours in Sprague–Dawley rats. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2008, 649, 34-44.	0.9	17
121	Assessment of the radio-frequency electromagnetic fields induced in the human body from mobile phones used with hands-free kits. <i>Physics in Medicine and Biology</i> , 2009, 54, 5493-5508.	1.6	17
122	A novel medical image data-based multi-physics simulation platform for computational life sciences. <i>Interface Focus</i> , 2013, 3, 20120058.	1.5	17
123	Rapid method for thermal dose–based safety supervision during MR scans. <i>Bioelectromagnetics</i> , 2015, 36, 398-407.	0.9	17
124	Novel high-resolution temperature probe for radiofrequency dosimetry. <i>Physics in Medicine and Biology</i> , 2004, 49, N83-N92.	1.6	16
125	Experimental and numerical dosimetry. , 1997, , 13-64.		16
126	Proteomic Analysis of the Response of Human Endothelial Cell Line EA.hy926 to 1800 GSM Mobile Phone Radiation. <i>Journal of Proteomics and Bioinformatics</i> , 2009, 02, 455-462.	0.4	16

#	ARTICLE	IF	CITATIONS
127	ELF-MF exposure affects the robustness of epigenetic programming during granulopoiesis. Scientific Reports, 2017, 7, 43345.	1.6	15
128	Effects of pulse-modulated radiofrequency magnetic field (RF-EMF) exposure on apoptosis, autophagy, oxidative stress and electron chain transport function in human neuroblastoma and murine microglial cells. Toxicology in Vitro, 2020, 68, 104963.	1.1	15
129	Limitations of Incident Power Density as a Proxy for Induced Electromagnetic Fields. Bioelectromagnetics, 2020, 41, 348-359.	0.9	15
130	Absence of genotoxic potential of 902 MHz (GSM) and 1747 MHz (DCS) wireless communication signals: <i>In vivo</i> two-year bioassay in B6C3F1 mice. International Journal of Radiation Biology, 2009, 85, 454-464.	1.0	14
131	Estimation of head tissue-specific exposure from mobile phones based on measurements in the homogeneous SAM head. Bioelectromagnetics, 2011, 32, 493-505.	0.9	14
132	Investigation of assumptions underlying current safety guidelines on EM-induced nerve stimulation. Physics in Medicine and Biology, 2016, 61, 4466-4478.	1.6	14
133	The impact of CT image parameters and skull heterogeneity modeling on the accuracy of transcranial focused ultrasound simulations. Journal of Neural Engineering, 2021, 18, 046041.	1.8	14
134	Analysis of the Accuracy of the Numerical Reflection Coefficient of the Finite-Difference Time-Domain Method at Planar Material Interfaces. IEEE Transactions on Electromagnetic Compatibility, 2006, 48, 264-272.	1.4	13
135	The expression of PHOX2A, PHOX2B and of their target gene dopamine- β -hydroxylase ($D\beta H$) is not modified by exposure to extremely-low-frequency electromagnetic field (ELF-EMF) in a human neuronal model. Toxicology in Vitro, 2008, 22, 1489-1495.	1.1	13
136	Exposure system to study hypotheses of ELF and RF electromagnetic field interactions of mobile phones with the central nervous system. Bioelectromagnetics, 2012, 33, 527-533.	0.9	13
137	New head exposure system for use in human provocation studies with EEG recording during GSM900 and UMTS-like exposure. Bioelectromagnetics, 2007, 28, 636-647.	0.9	12
138	Anatomical Model Uncertainty for RF Safety Evaluation of Metallic Implants Under MRI Exposure. Bioelectromagnetics, 2019, 40, 458-471.	0.9	12
139	Novel <i>ETV6</i> Mouse Model to Study the Role of ELF-EMF in Childhood Acute Lymphoblastic Leukemia: a Pilot Study. Bioelectromagnetics, 2019, 40, 343-353.	0.9	12
140	Radiofrequency-induced heating of broken and abandoned implant leads during magnetic resonance examinations. Magnetic Resonance in Medicine, 2021, 86, 2156-2164.	1.9	12
141	Continuous wave and simulated GSM exposure at 1.8 W/kg and 1.8 GHz do not induce <i>hsp16</i> heat shock gene expression in <i>Caenorhabditis elegans</i> . Bioelectromagnetics, 2008, 29, 92-99.	0.9	11
142	Mechanisms of RF Electromagnetic Field Absorption in Human Hands and Fingers. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2267-2276.	2.9	11
143	Experimental and numerical assessment of low-frequency current distributions from UMTS and GSM mobile phones. Physics in Medicine and Biology, 2013, 58, 8339-8357.	1.6	11
144	Assessment of local RF-induced heating of AIMDs during MR exposure. , 2014, , .		11

#	ARTICLE	IF	CITATIONS
145	Human exposure from pulsed magnetic field therapy mats: A numerical case study with three commercial products. <i>Bioelectromagnetics</i> , 2015, 36, 149-161.	0.9	11
146	The discrepancy between maximum in vitro exposure levels and realistic conservative exposure levels of mobile phones operating at 900/1800 MHz. <i>Bioelectromagnetics</i> , 2015, 36, 133-148.	0.9	11
147	Novel mechanistic model and computational approximation for electromagnetic safety evaluations of electrically short implants. <i>Physics in Medicine and Biology</i> , 2018, 63, 225015.	1.6	11
148	Application of an induced field sensor for assessment of electromagnetic exposure from compact fluorescent lamps. <i>Bioelectromagnetics</i> , 2012, 33, 166-175.	0.9	10
149	Modeling of EEG electrode artifacts and thermal ripples in human radiofrequency exposure studies. <i>Bioelectromagnetics</i> , 2014, 35, 273-283.	0.9	10
150	Discussion on Spatial and Time Averaging Restrictions Within the Electromagnetic Exposure Safety Framework in the Frequency Range Above 6â€‰GHz for Pulsed and Localized Exposures. <i>Bioelectromagnetics</i> , 2020, 41, 164-168.	0.9	10
151	SAR distribution in human beings when using body-worn RF transmitters. <i>Radiation Protection Dosimetry</i> , 2007, 124, 6-14.	0.4	9
152	COMPARISON OF CPML IMPLEMENTATIONS FOR THE GPU-ACCELERATED FDTD SOLVER. <i>Progress in Electromagnetics Research M</i> , 2011, 19, 61-75.	0.5	9
153	Quantification Of RF-exposure of the Fetus Using Anatomical CAD-Models in Three Different Gestational Stages. <i>Health Physics</i> , 2014, 107, 369-381.	0.3	9
154	On the estimation of the worst-case implant-induced RF-heating in multi-channel MRI. <i>Physics in Medicine and Biology</i> , 2017, 62, 4711-4727.	1.6	9
155	Total Local Dose in Hypothetical 5G Mobile Networks for Varied Topologies and User Scenarios. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5971.	1.3	9
156	Radio-frequency exposure of the yellow fever mosquito (<i>A. aegypti</i>) from 2 to 240 GHz. <i>PLoS Computational Biology</i> , 2021, 17, e1009460.	1.5	9
157	Correction of the numerical reflection coefficient of the finite-difference time-domain method for efficient simulation of vertical-cavity surface-emitting lasers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 1401.	0.9	8
158	Novel methodology to characterize electromagnetic exposure of the brain. <i>Physics in Medicine and Biology</i> , 2011, 56, 383-396.	1.6	8
159	The Effect of Diode Response of Electromagnetic Field Probes for the Measurements of Complex Signals. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012, 54, 1195-1204.	1.4	8
160	Data-Driven Experimental Evaluation Method for the Safety Assessment of Implants With Respect to RF-Induced Heating During MRI. <i>Radio Science</i> , 2018, 53, 700-709.	0.8	8
161	Comparison between numerical and experimental near-field evaluation of a DCS1800 mobile telephone. <i>Radio Science</i> , 1998, 33, 1553-1563.	0.8	7
162	Towards Danger of Mobile Phones in Planes, Trains, Cars and Elevators. <i>Journal of the Physical Society of Japan</i> , 2002, 71, 3100-3100.	0.7	7

#	ARTICLE	IF	CITATIONS
163	Analysis of mobile phone design features affecting radiofrequency power absorbed in a human head phantom. <i>Bioelectromagnetics</i> , 2013, 34, 479-488.	0.9	7
164	Influence of non ionizing radiation of base stations on the activity of redox proteins in bovines. <i>BMC Veterinary Research</i> , 2014, 10, 136.	0.7	7
165	Novel Sensor Model Calibration Method for Resistively Loaded Diode Detectors. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015, 57, 1345-1353.	1.4	7
166	Approach to Validate Simulation-Based Distribution Predictions Combining the Gamma-Method and Uncertainty Assessment: Application to Focused Ultrasound. <i>Journal of Verification, Validation and Uncertainty Quantification</i> , 2016, 1, .	0.3	7
167	Forward Transformation from Reactive Near-Field to Near and Far-Field at Millimeter-Wave Frequencies. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4780.	1.3	7
168	Assessment of Genotoxicity in Human Cells Exposed to Modulated Electromagnetic Fields of Wireless Communication Devices. <i>Genes</i> , 2020, 11, 347.	1.0	7
169	Induced radiofrequency fields in patients undergoing MR examinations: insights for risk assessment. <i>Physics in Medicine and Biology</i> , 2021, 66, 185014.	1.6	7
170	Novel probes and evaluation procedures to assess field magnitude and polarization. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2000, 42, 240-244.	1.4	6
171	Electro-optic fiber sensor for amplitude and phase detection of radio frequency electromagnetic fields. <i>Optics Letters</i> , 2006, 31, 2402.	1.7	6
172	A computational model for bipolar deep brain stimulation of the subthalamic nucleus. , 2014, 2014, 6258-61.		6
173	Effects of body habitus on internal radiation dose calculations using the 5-year-old anthropomorphic male models. <i>Physics in Medicine and Biology</i> , 2017, 62, 6185-6206.	1.6	6
174	Accurate anatomical head segmentations: a data set for biomedical simulations. , 2019, 2019, 6118-6123.		6
175	Novel Method and Procedure for Evaluating Compliance of Sources With Strong Gradient Magnetic Fields Such as Wireless Power Transfer Systems. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2020, 62, 1323-1332.	1.4	6
176	Noninvasive Monitoring of Intracranial Pulse Waves. <i>IEEE Transactions on Biomedical Engineering</i> , 2023, 70, 144-153.	2.5	6
177	Unstructured mesh generation from the Virtual Family models for whole body biomedical simulations. <i>Procedia Computer Science</i> , 2010, 1, 837-844.	1.2	5
178	Evaluation of Measurement Techniques to Show Compliance With RF Safety Limits in Heterogeneous Field Distributions. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2010, 52, 820-828.	1.4	5
179	ELF exposure system for live cell imaging. <i>Bioelectromagnetics</i> , 2013, 34, 231-239.	0.9	5
180	Desktop exposure system and dosimetry for small scale in vivo radiofrequency exposure experiments. <i>Bioelectromagnetics</i> , 2016, 37, 49-61.	0.9	5

#	ARTICLE	IF	CITATIONS
181	Past, present, and future of SAR evaluations. , 2016, , .		5
182	Efficient and Reliable Assessment of the Maximum Local Tissue Temperature Increase at the Electrodes of Medical Implants under MRI Exposure. Bioelectromagnetics, 2019, 40, 422-433.	0.9	5
183	Modeling intracranial aneurysm stability and growth: an integrative mechanobiological framework for clinical cases. Biomechanics and Modeling in Mechanobiology, 2020, 19, 2413-2431.	1.4	5
184	MorphoSONIC: A morphologically structured intramembrane cavitation model reveals fiber-specific neuromodulation by ultrasound. IScience, 2021, 24, 103085.	1.9	5
185	Computational platform combining detailed and precise functionalized anatomical phantoms with EM-Neuron interaction modeling. , 2014, , .		4
186	RF shimming with implant safety control in MRI transmit arrays through second-order cone programming. , 2015, , .		4
187	Covering Population Variability: Morphing of Computation Anatomical Models. Lecture Notes in Computer Science, 2016, , 13-22.	1.0	4
188	Response to Professor Foster's Comments. Health Physics, 2019, 117, 70-71.	0.3	4
189	Feasibility of Temperature Control by Electrical Impedance Tomography in Hyperthermia. Cancers, 2021, 13, 3297.	1.7	4
190	Compliance Assessment of the Epithelial or Absorbed Power Density Below 10 GHz Using SAR Measurement Systems. Bioelectromagnetics, 2021, 42, 484-490.	0.9	4
191	SAR and efficiency performance of mobile phone antenna with different user hand positions. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	3
192	Design and exposure of wireless communication and power charging systems: Design rules, levels of exposure, challenges in exposure assessment and compliance testing. , 2012, , .		3
193	An HF exposure system for mice with improved efficiency. Bioelectromagnetics, 2016, 37, 223-233.	0.9	3
194	Comparative dosimetry for children and rodents exposed to extremely low-frequency magnetic fields. Bioelectromagnetics, 2016, 37, 310-322.	0.9	3
195	A numerical assessment of the human body effect in the transmission of wireless microphones. Microwave and Optical Technology Letters, 2019, 61, 809-817.	0.9	3
196	Reflection Properties of the Human Skin From 40 to 110 GHz: A Confirmation Study. Bioelectromagnetics, 2021, 42, 562-574.	0.9	3
197	Transverse confinement of electron beams in a 2D optical lattice for compact coherent x-ray sources. New Journal of Physics, 2021, 23, 083033.	1.2	3
198	On the Dielectric Measurement of Thin Layers Using Open-Ended Coaxial Probes. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	2.4	3

#	ARTICLE	IF	CITATIONS
199	Rapid SAR optimization for hyperthermic oncology: combining multi-goal optimization and time-multiplexed steering for hotspot suppression. International Journal of Hyperthermia, 2022, 39, 758-771.	1.1	3
200	Comments on the Brief Communication "Security considerations in blinded exposure experiments using electromagnetic waves" by Christian Wolf. Bioelectromagnetics, 2008, 29, 660-661.	0.9	2
201	Fast interpolation based morphing of whole body human models. , 2011, , .		2
202	Impact of the skin conductivity and displacement currents on LF numerical dosimetry. , 2012, , .		2
203	Novel exposure units for at-home personalized testing of electromagnetic sensibility. Bioelectromagnetics, 2016, 37, 62-68.	0.9	2
204	Dosimetric Assessment of Two-Layer Cell Culture Configurations for Fertility Research at 1950MHz. IEICE Transactions on Communications, 2014, E97.B, 631-637.	0.4	2
205	Method and Implementations to Measure the Absorbed Power Density. , 2022, , .		2
206	A Novel Approach for Mobile Device Design: GA-Based Distributed Optimization to Comply with OTA, SAR, and HAC Standards. IEEE Antennas and Propagation Magazine, 2012, 54, 22-31.	1.2	1
207	From Image-Based Modeling to the Modeling of Imaging with the Virtual Population. Lecture Notes in Computer Science, 2016, , 45-54.	1.0	1
208	COMPUTATIONAL ASSESSMENT OF PREGNANT WOMAN MODELS EXPOSED TO UNIFORM ELF-MAGNETIC FIELDS: COMPLIANCE WITH THE EUROPEAN CURRENT EXPOSURE REGULATIONS FOR THE GENERAL PUBLIC AND OCCUPATIONAL EXPOSURES AT 50 Hz. Radiation Protection Dosimetry, 2016, 172, 382-392.	0.4	1
209	Response to Enders'™ Comment on "Discussion on Spatial and Time Averaging Restrictions Within the Electromagnetic Exposure Safety Framework in the Frequency Range Above 6 GHz for Pulsed and Localized Exposures". Bioelectromagnetics, 2020, 41, 483-484.	0.9	1
210	Experimental and numerical optimization modelling to reduce radiofrequency-induced risks of magnetic resonance examinations on leaded implants. Applied Mathematical Modelling, 2021, 96, 177-188.	2.2	1
211	Experimental and Numerical Near-Field Evaluation of RF Transmitters. , 2000, , 159-186.		1
212	TRANSMISSION COEFFICIENT OF POWER DENSITY INTO SKIN TISSUE BETWEEN 6 AND 300 GHZ. Radiation Protection Dosimetry, 2020, 192, 113-118.	0.4	1
213	Compliance Testing of Handheld Mobile Communications Equipment. , 2002, , 47-54.		0
214	A European initiative to develop procedures and instrumentation for worker's electromagnetic safety (WEMS). , 2011, , .		0
215	Life time dosimetric assessment for mice and rats exposed to cell phone radiation: Proceedings of the XXXIst URSI general assembly and scientific symposium to be held in Beijing, China (CIE), August 17–23, 2014. , 2014, , .		0
216	Numerical simulations in virtual anatomical models: The devil is in the details. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
217	Mechanism investigation, device development, and treatment personalization using anatomical models functionalized with electrophysiological neuron models. , 2017, , .		0
218	MECHANO-CHEMICAL SIMULATION OF SOLID TUMOR DYNAMICS FOR THERAPY OUTCOME PREDICTIONS. International Journal for Multiscale Computational Engineering, 2011, 9, 231-241.	0.8	0
219	SPARC: Development of Human and Rodent Neuroâ€Functionalized Computational Anatomical Models with Detailed Mapping of Peripheral Nervous System. FASEB Journal, 2020, 34, 1-1.	0.2	0
220	Confined Electron Laser. , 2021, , .		0