

# Niels Kuster

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

211  
papers

7,841  
citations

46  
h-index

82  
g-index

224  
ext. papers

9,661  
ext. citations

3.3  
avg, IF

5.68  
L-index

#	Paper	IF	Citations
211	Activity-dependent spinal cord neuromodulation rapidly restores trunk and leg motor functions after complete paralysis.. <i>Nature Medicine</i> , <b>2022</b> ,	50.5	12
210	Rapid SAR optimization for hyperthermic oncology: combining multi-goal optimization and time-multiplexed steering for hotspot suppression. <i>International Journal of Hyperthermia</i> , <b>2022</b> , 39, 758-771	3.7	1
209	On the Dielectric Measurement of Thin Layers Using Open-Ended Coaxial Probes. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-8	5.2	1
208	Radio-frequency exposure of the yellow fever mosquito ( <i>A. aegypti</i> ) from 2 to 240 GHz. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1009460	5	1
207	The impact of CT image parameters and skull heterogeneity modeling on the accuracy of transcranial focused ultrasound simulations. <i>Journal of Neural Engineering</i> , <b>2021</b> , 18,	5	2
206	The SPARC DRC: Building a Resource for the Autonomic Nervous System Community. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 693735	4.6	8
205	Radiofrequency-induced heating of broken and abandoned implant leads during magnetic resonance examinations. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 2156-2164	4.4	2
204	Compliance Assessment of the Epithelial or Absorbed Power Density Below 10 GHz Using SAR Measurement Systems. <i>Bioelectromagnetics</i> , <b>2021</b> , 42, 484-490	1.6	1
203	Reflection Properties of the Human Skin From 40 to 110 GHz: A Confirmation Study. <i>Bioelectromagnetics</i> , <b>2021</b> , 42, 562-574	1.6	
202	Transverse confinement of electron beams in a 2D optical lattice for compact coherent x-ray sources. <i>New Journal of Physics</i> , <b>2021</b> , 23, 083033	2.9	0
201	Experimental and numerical optimization modelling to reduce radiofrequency-induced risks of magnetic resonance examinations on leaded implants. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 96, 177-188	4.5	0
200	MorphoSONIC: A morphologically structured intramembrane cavitation model reveals fiber-specific neuromodulation by ultrasound. <i>iScience</i> , <b>2021</b> , 24, 103085	6.1	0
199	Transducer modeling for accurate acoustic simulations of transcranial focused ultrasound stimulation. <i>Journal of Neural Engineering</i> , <b>2020</b> , 17, 046010	5	11
198	Limitations of Incident Power Density as a Proxy for Induced Electromagnetic Fields. <i>Bioelectromagnetics</i> , <b>2020</b> , 41, 348-359	1.6	8
197	Modeling intracranial aneurysm stability and growth: an integrative mechanobiological framework for clinical cases. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2020</b> , 19, 2413-2431	3.8	2
196	Response to EndersQComment 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". <i>Bioelectromagnetics</i> , <b>2020</b> , 41, 483-484	1.6	1
195	RF-INDUCED TEMPERATURE INCREASE IN A STRATIFIED MODEL OF THE SKIN FOR PLANE-WAVE EXPOSURE AT 6-100 GHZ. <i>Radiation Protection Dosimetry</i> , <b>2020</b> , 188, 350-360	0.9	14

194	Accuracy Assessment of Numerical Dosimetry for the Evaluation of Human Exposure to Electric Vehicle Inductive Charging Systems. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2020</b> , 62, 1939-1950	2	13
193	Assessment of Genotoxicity in Human Cells Exposed to Modulated Electromagnetic Fields of Wireless Communication Devices. <i>Genes</i> , <b>2020</b> , 11,	4.2	6
192	TRANSMISSION COEFFICIENT OF POWER DENSITY INTO SKIN TISSUE BETWEEN 6 AND 300 GHZ. <i>Radiation Protection Dosimetry</i> , <b>2020</b> , 192, 113-118	0.9	1
191	SPARC: Development of Human and Rodent Neuro-Functionalized Computational Anatomical Models with Detailed Mapping of Peripheral Nervous System. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
190	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. <i>Bioelectromagnetics</i> , <b>2020</b> , 41, 164-168	1.6	7
189	Forward Transformation from Reactive Near-Field to Near and Far-Field at Millimeter-Wave Frequencies. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4780	2.6	3
188	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. <i>Toxicology in Vitro</i> , <b>2020</b> , 68, 104963	3.6	5
187	Total Local Dose in Hypothetical 5G Mobile Networks for Varied Topologies and User Scenarios. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 5971	2.6	3
186	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2020</b> , 62, 1323-1332	2	1
185	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> , <b>2019</b> , 40, 136-139	1.6	12
184	Novel ETV6-RUNX1 Mouse Model to Study the Role of ELF-MF in Childhood B-Acute Lymphoblastic Leukemia: a Pilot Study. <i>Bioelectromagnetics</i> , <b>2019</b> , 40, 343-353	1.6	7
183	Understanding ultrasound neuromodulation using a computationally efficient and interpretable model of intramembrane cavitation. <i>Journal of Neural Engineering</i> , <b>2019</b> , 16, 046007	5	14
182	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2019</b> , 61, 476-486	2	18
181	Efficient and Reliable Assessment of the Maximum Local Tissue Temperature Increase at the Electrodes of Medical Implants under MRI Exposure. <i>Bioelectromagnetics</i> , <b>2019</b> , 40, 422-433	1.6	3
180	Accurate anatomical head segmentations: a data set for biomedical simulations. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 6118-6123	0.9	3
179	Anatomical Model Uncertainty for RF Safety Evaluation of Metallic Implants Under MRI Exposure. <i>Bioelectromagnetics</i> , <b>2019</b> , 40, 458-471	1.6	4
178	Response to Professor Foster@ Comments. <i>Health Physics</i> , <b>2019</b> , 117, 70-71	2.3	3
177	A numerical assessment of the human body effect in the transmission of wireless microphones. <i>Microwave and Optical Technology Letters</i> , <b>2019</b> , 61, 809-817	1.2	3

176	Advances in Computational Human Phantoms and Their Applications in Biomedical Engineering - A Topical Review. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2019</b> , 3, 1-23	4.2	31
175	Effect of cell phone radiofrequency radiation on body temperature in rodents: Pilot studies of the National Toxicology Program <sup>Q</sup> reverberation chamber exposure system. <i>Bioelectromagnetics</i> , <b>2018</b> , 39, 190-199	1.6	34
174	Functionalized Anatomical Models for Computational Life Sciences. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1594-1600	4.6	13
173	Systematic Derivation of Safety Limits for Time-Varying 5G Radiofrequency Exposure Based on Analytical Models and Thermal Dose. <i>Health Physics</i> , <b>2018</b> , 115, 705-711	2.3	24
172	Theoretical and numerical assessment of maximally allowable power-density averaging area for conservative electromagnetic exposure assessment above 6 GHz. <i>Bioelectromagnetics</i> , <b>2018</b> , 39, 617-630	1.6	14
171	Novel mechanistic model and computational approximation for electromagnetic safety evaluations of electrically short implants. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 225015	3.8	4
170	Targeted neurotechnology restores walking in humans with spinal cord injury. <i>Nature</i> , <b>2018</b> , 563, 65-71	50.4	386
169	Data-Driven Experimental Evaluation Method for the Safety Assessment of Implants With Respect to RF-Induced Heating During MRI. <i>Radio Science</i> , <b>2018</b> , 53, 700-709	1.4	6
168	Pregnant women models analyzed for RF exposure and temperature increase in 3T RF shimmed birdcages. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 2048-2056	4.4	34
167	On the estimation of the worst-case implant-induced RF-heating in multi-channel MRI. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 4711-4727	3.8	8
166	A Radio Frequency Radiation Exposure System for Rodents based on Reverberation Chambers. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2017</b> , 59, 1041-1052	2	16
165	Life-Time Dosimetric Assessment for Mice and Rats Exposed in Reverberation Chambers of the 2-Year NTP Cancer Bioassay Study on Cell Phone Radiation. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2017</b> , 59, 1798-1808	2	19
164	Effects of personalised exposure on self-rated electromagnetic hypersensitivity and sensibility - A double-blind randomised controlled trial. <i>Environment International</i> , <b>2017</b> , 99, 255-262	12.9	17
163	Activation of Signaling Cascades by Weak Extremely Low Frequency Electromagnetic Fields. <i>Cellular Physiology and Biochemistry</i> , <b>2017</b> , 43, 1533-1546	3.9	10
162	Effects of body habitus on internal radiation dose calculations using the 5-year-old anthropomorphic male models. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 6185-6206	3.8	4
161	ELF-MF exposure affects the robustness of epigenetic programming during granulopoiesis. <i>Scientific Reports</i> , <b>2017</b> , 7, 43345	4.9	9
160	Covering Population Variability: Morphing of Computation Anatomical Models. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 13-22	0.9	3
159	From Image-Based Modeling to the Modeling of Imaging with the Virtual Population. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 45-54	0.9	1

158	Past, present, and future of SAR evaluations <b>2016</b> ,		3
157	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> , <b>2016</b> , 1,	0.9	5
156	An HF exposure system for mice with improved efficiency. <i>Bioelectromagnetics</i> , <b>2016</b> , 37, 223-33	1.6	3
155	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. <i>Radiation Protection Dosimetry</i> , <b>2016</b> , 172, 382-392	0.9	
154	Extremely low-frequency magnetic fields and risk of childhood leukemia: A risk assessment by the ARIMMORA consortium. <i>Bioelectromagnetics</i> , <b>2016</b> , 37, 183-189	1.6	21
153	Comparative dosimetry for children and rodents exposed to extremely low-frequency magnetic fields. <i>Bioelectromagnetics</i> , <b>2016</b> , 37, 310-22	1.6	2
152	Calcium homeostasis and low-frequency magnetic and electric field exposure: A systematic review and meta-analysis of in vitro studies. <i>Environment International</i> , <b>2016</b> , 92-93, 695-706	12.9	30
151	Virtual population-based assessment of the impact of 3 Tesla radiofrequency shimming and thermoregulation on safety and B1 + uniformity. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 986-97	4.4	32
150	Functionalized anatomical models for EM-neuron Interaction modeling. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 4390-401	3.8	17
149	Investigation of assumptions underlying current safety guidelines on EM-induced nerve stimulation. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 4466-78	3.8	11
148	Novel exposure units for at-home personalized testing of electromagnetic sensibility. <i>Bioelectromagnetics</i> , <b>2016</b> , 37, 62-8	1.6	2
147	Desktop exposure system and dosimetry for small scale in vivo radiofrequency exposure experiments. <i>Bioelectromagnetics</i> , <b>2016</b> , 37, 49-61	1.6	5
146	Inter-individual and intra-individual variation of the effects of pulsed RF EMF exposure on the human sleep EEG. <i>Bioelectromagnetics</i> , <b>2015</b> , 36, 169-77	1.6	24
145	Compliance Testing Methodology for Wireless Power Transfer Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 6264-6273	7.2	25
144	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2015</b> , 57, 1345-1353	2	5
143	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> , <b>2015</b> , 3, 11		30
142	Rapid method for thermal dose-based safety supervision during MR scans. <i>Bioelectromagnetics</i> , <b>2015</b> , 36, 398-407	1.6	16
141	Human exposure from pulsed magnetic field therapy mats: a numerical case study with three commercial products. <i>Bioelectromagnetics</i> , <b>2015</b> , 36, 149-61	1.6	9

140	MIDA: A Multimodal Imaging-Based Detailed Anatomical Model of the Human Head and Neck. <i>PLoS ONE</i> , <b>2015</b> , 10, e0124126	3.7	127
139	RF shimming with implant safety control in MRI transmit arrays through second-order cone programming <b>2015</b> ,		3
138	Heating and Safety Concerns of the Radio-Frequency Field in MRI. <i>Current Radiology Reports</i> , <b>2015</b> , 3, 1	0.5	18
137	Convex optimization of MRI exposure for mitigation of RF-heating from active medical implants. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 7293-308	3.8	18
136	The discrepancy between maximum in vitro exposure levels and realistic conservative exposure levels of mobile phones operating at 900/1800 MHz. <i>Bioelectromagnetics</i> , <b>2015</b> , 36, 133-48	1.6	11
135	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2014</b> , 56, 1027-1034	2	60
134	Modeling of EEG electrode artifacts and thermal ripples in human radiofrequency exposure studies. <i>Bioelectromagnetics</i> , <b>2014</b> , 35, 273-83	1.6	9
133	A computational model for bipolar deep brain stimulation of the subthalamic nucleus. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 6258-61	0.9	4
132	Dosimetric study of fetal exposure to uniform magnetic fields at 50 Hz. <i>Bioelectromagnetics</i> , <b>2014</b> , 35, 580-97	1.6	18
131	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> , <b>2014</b> , 71, 839-45	4.4	43
130	Computational platform combining detailed and precise functionalized anatomical phantoms with EM-Neuron interaction modeling <b>2014</b> ,		4
129	Assessment of local RF-induced heating of AIMDs during MR exposure <b>2014</b> ,		9
128	Influence of non ionizing radiation of base stations on the activity of redox proteins in bovines. <i>BMC Veterinary Research</i> , <b>2014</b> , 10, 136	2.7	5
127	Quantification of RF-exposure of the fetus using anatomical CAD-models in three different gestational stages. <i>Health Physics</i> , <b>2014</b> , 107, 369-81	2.3	8
126	A review of numerical and experimental compensation techniques for skull-induced phase aberrations in transcranial focused ultrasound. <i>International Journal of Hyperthermia</i> , <b>2014</b> , 30, 36-46	3.7	69
125	Thermal tissue damage model analyzed for different whole-body SAR and scan durations for standard MR body coils. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 421-31	4.4	61
124	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> , <b>2014</b> , 59, 5287-303	3.8	221
123	Dosimetric Assessment of Two-Layer Cell Culture Configurations for Fertility Research at 1950MHz. <i>IEICE Transactions on Communications</i> , <b>2014</b> , E97.B, 631-637	0.5	2

122	Analysis of human brain exposure to low-frequency magnetic fields: a numerical assessment of spatially averaged electric fields and exposure limits. <i>Bioelectromagnetics</i> , <b>2013</b> , 34, 375-84	1.6	45
121	Antenna design and tissue parameters considerations for an improved modelling of microwave ablation in the liver. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 3191-206	3.8	14
120	CEM43°C thermal dose thresholds: a potential guide for magnetic resonance radiofrequency exposure levels?. <i>European Radiology</i> , <b>2013</b> , 23, 2215-27	8	147
119	No increased sensitivity in brain activity of adolescents exposed to mobile phone-like emissions. <i>Clinical Neurophysiology</i> , <b>2013</b> , 124, 1303-8	4.3	32
118	Heating characteristics of antenna arrays used in microwave ablation: A theoretical parametric study. <i>Computers in Biology and Medicine</i> , <b>2013</b> , 43, 1321-7	7	15
117	ELF exposure system for live cell imaging. <i>Bioelectromagnetics</i> , <b>2013</b> , 34, 231-9	1.6	1
116	Evaluation of the RF heating of a generic deep brain stimulator exposed in 1.5 T magnetic resonance scanners. <i>Bioelectromagnetics</i> , <b>2013</b> , 34, 104-13	1.6	50
115	Stimulation of the brain with radiofrequency electromagnetic field pulses affects sleep-dependent performance improvement. <i>Brain Stimulation</i> , <b>2013</b> , 6, 805-11	5.1	35
114	Influence of GSM signals on human peripheral lymphocytes: study of genotoxicity. <i>Radiation Research</i> , <b>2013</b> , 179, 243-53	3.1	23
113	. <i>Proceedings of the IEEE</i> , <b>2013</b> , 101, 1482-1493	14.3	100
112	A novel medical image data-based multi-physics simulation platform for computational life sciences. <i>Interface Focus</i> , <b>2013</b> , 3, 20120058	3.9	14
111	Analysis of mobile phone design features affecting radiofrequency power absorbed in a human head phantom. <i>Bioelectromagnetics</i> , <b>2013</b> , 34, 479-88	1.6	5
110	Experimental and numerical assessment of low-frequency current distributions from UMTS and GSM mobile phones. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 8339-57	3.8	9
109	Cell type-dependent induction of DNA damage by 1800 MHz radiofrequency electromagnetic fields does not result in significant cellular dysfunctions. <i>PLoS ONE</i> , <b>2013</b> , 8, e54906	3.7	34
108	Sleep EEG alterations: effects of pulsed magnetic fields versus pulse-modulated radio frequency electromagnetic fields. <i>Journal of Sleep Research</i> , <b>2012</b> , 21, 620-9	5.8	33
107	Mechanisms of RF Electromagnetic Field Absorption in Human Hands and Fingers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 2267-2276	4.1	7
106	Application of an induced field sensor for assessment of electromagnetic exposure from compact fluorescent lamps. <i>Bioelectromagnetics</i> , <b>2012</b> , 33, 166-75	1.6	8
105	A Novel Approach for Mobile Device Design: GA-Based Distributed Optimization to Comply with OTA, SAR, and HAC Standards. <i>IEEE Antennas and Propagation Magazine</i> , <b>2012</b> , 54, 22-31	1.7	1

104	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 1066-1074	4.9	17
103	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2012</b> , 1-10	2	58
102	Local tissue temperature increase of a generic implant compared to the basic restrictions defined in safety guidelines. <i>Bioelectromagnetics</i> , <b>2012</b> , 33, 366-74	1.6	16
101	Exposure system to study hypotheses of ELF and RF electromagnetic field interactions of mobile phones with the central nervous system. <i>Bioelectromagnetics</i> , <b>2012</b> , 33, 527-33	1.6	10
100	Exposure of the human body to professional and domestic induction cooktops compared to the basic restrictions. <i>Bioelectromagnetics</i> , <b>2012</b> , 33, 695-705	1.6	43
99	Sleep EEG alterations: effects of different pulse-modulated radio frequency electromagnetic fields. <i>Journal of Sleep Research</i> , <b>2012</b> , 21, 50-8	5.8	68
98	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2012</b> , 54, 1195-1204	2	6
97	Patient-specific simulations and measurements of the magneto-hemodynamic effect in human primary vessels. <i>Physiological Measurement</i> , <b>2012</b> , 33, 117-30	2.9	18
96	Cancer cell proliferation is inhibited by specific modulation frequencies. <i>British Journal of Cancer</i> , <b>2012</b> , 106, 307-13	8.7	80
95	Design and exposure of wireless communication and power charging systems: Design rules, levels of exposure, challenges in exposure assessment and compliance testing <b>2012</b> ,		2
94	COMPARISON OF CPML IMPLEMENTATIONS FOR THE GPU-ACCELERATED FDTD SOLVER. <i>Progress in Electromagnetics Research M</i> , <b>2011</b> , 19, 61-75	0.6	7
93	Measured radiofrequency exposure during various mobile-phone use scenarios. <i>Journal of Exposure Science and Environmental Epidemiology</i> , <b>2011</b> , 21, 343-54	6.7	30
92	Local SAR enhancements in anatomically correct children and adult models as a function of position within 1.5 T MR body coil. <i>Progress in Biophysics and Molecular Biology</i> , <b>2011</b> , 107, 428-33	4.7	32
91	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2011</b> , 53, 909-922	2	22
90	Sleep after mobile phone exposure in subjects with mobile phone-related symptoms. <i>Bioelectromagnetics</i> , <b>2011</b> , 32, 4-14	1.6	50
89	Estimation of head tissue-specific exposure from mobile phones based on measurements in the homogeneous SAM head. <i>Bioelectromagnetics</i> , <b>2011</b> , 32, 493-505	1.6	11
88	Treatment of advanced hepatocellular carcinoma with very low levels of amplitude-modulated electromagnetic fields. <i>British Journal of Cancer</i> , <b>2011</b> , 105, 640-8	8.7	46
87	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> , <b>2011</b> , 56, 4649-59	3.8	31

86	Novel methodology to characterize electromagnetic exposure of the brain. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 383-96	3.8	7
85	Fast interpolation based morphing of whole body human models <b>2011</b> ,		2
84	Age-dependent tissue-specific exposure of cell phone users. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 1767-83	3.8	189
83	The Virtual Family--development of surface-based anatomical models of two adults and two children for dosimetric simulations. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, N23-38	3.8	968
82	Analysis of proteome response to the mobile phone radiation in two types of human primary endothelial cells. <i>Proteome Science</i> , <b>2010</b> , 8, 52	2.6	15
81	Unstructured mesh generation from the Virtual Family models for whole body biomedical simulations. <i>Procedia Computer Science</i> , <b>2010</b> , 1, 837-844	1.6	4
80	Evaluation of Measurement Techniques to Show Compliance With RF Safety Limits in Heterogeneous Field Distributions. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2010</b> , 52, 820-828 <sup>2</sup>		4
79	Signal Transmission by Galvanic Coupling Through the Human Body. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2010</b> , 59, 963-969	5.2	113
78	DNA fragmentation in human fibroblasts under extremely low frequency electromagnetic field exposure. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , <b>2010</b> , 683, 74-83	3.3	70
77	Impact of pinna compression on the RF absorption in the heads of adult and juvenile cell phone users. <i>Bioelectromagnetics</i> , <b>2010</b> , 31, 406-12	1.6	78
76	Assessment of induced radio-frequency electromagnetic fields in various anatomical human body models. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 875-90	3.8	68
75	Galvanic Coupling Enabling Wireless Implant Communications. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2009</b> , 58, 2618-2625	5.2	53
74	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2009</b> , 51, 227-235	2	24
73	Mobile phone exposure and spatial memory. <i>Bioelectromagnetics</i> , <b>2009</b> , 30, 59-65	1.6	25
72	SAR and efficiency performance of mobile phone antenna with different user hand positions. <i>Digest / IEEE Antennas and Propagation Society International Symposium</i> , <b>2009</b> ,		2
71	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> , <b>2009</b> , 54, 5493-508	3.8	11
70	Absence of genotoxic potential of 902 MHz (GSM) and 1747 MHz (DCS) wireless communication signals: In vivo two-year bioassay in B6C3F1 mice. <i>International Journal of Radiation Biology</i> , <b>2009</b> , 85, 454-64	2.9	13
69	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> , <b>2009</b> , 02, 455-462	2.1	13

68	A Mechano-Chemical Model of a Solid Tumor for Therapy Outcome Predictions. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 715-724	0.9	2
67	Mastering Conformal Meshing for Complex CAD-Based C-FDTD Simulations. <i>IEEE Antennas and Propagation Magazine</i> , <b>2008</b> , 50, 45-57	1.7	12
66	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> , <b>2008</b> , 649, 34-44	3	15
65	The expression of PHOX2A, PHOX2B and of their target gene dopamine-beta-hydroxylase (DbetaH) is not modified by exposure to extremely-low-frequency electromagnetic field (ELF-EMF) in a human neuronal model. <i>Toxicology in Vitro</i> , <b>2008</b> , 22, 1489-95	3.6	12
64	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> , <b>2008</b> , 81, 755-67	3.2	60
63	Dosimetric evaluation and comparison of different RF exposure apparatuses used in human volunteer studies. <i>Bioelectromagnetics</i> , <b>2008</b> , 29, 11-9	1.6	24
62	Continuous wave and simulated GSM exposure at 1.8 W/kg and 1.8 GHz do not induce hsp16-1 heat-shock gene expression in <i>Caenorhabditis elegans</i> . <i>Bioelectromagnetics</i> , <b>2008</b> , 29, 92-9	1.6	11
61	The effects of 884 MHz GSM wireless communication signals on headache and other symptoms: an experimental provocation study. <i>Bioelectromagnetics</i> , <b>2008</b> , 29, 185-96	1.6	62
60	Comments on the brief communication "Security considerations in blinded exposure experiments using electromagnetic waves" by Christian Wolf. <i>Bioelectromagnetics</i> , <b>2008</b> , 29, 660-1	1.6	2
59	GSM and DCS wireless communication signals: combined chronic toxicity/carcinogenicity study in the Wistar rat. <i>Radiation Research</i> , <b>2007</b> , 168, 480-92	3.1	22
58	Carcinogenicity study of GSM and DCS wireless communication signals in B6C3F1 mice. <i>Bioelectromagnetics</i> , <b>2007</b> , 28, 173-87	1.6	38
57	New head exposure system for use in human provocation studies with EEG recording during GSM900- and UMTS-like exposure. <i>Bioelectromagnetics</i> , <b>2007</b> , 28, 636-47	1.6	11
56	Pulsed radio-frequency electromagnetic fields: dose-dependent effects on sleep, the sleep EEG and cognitive performance. <i>Journal of Sleep Research</i> , <b>2007</b> , 16, 253-8	5.8	97
55	Worst case temperature rise in a one-dimensional tissue model exposed to radiofrequency radiation. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2007</b> , 54, 492-6	5	19
54	An attempt to model the human body as a communication channel. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2007</b> , 54, 1851-7	5	123
53	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2007</b> , 49, 519-525	2	16
52	Feasibility of future epidemiological studies on possible health effects of mobile phone base stations. <i>Bioelectromagnetics</i> , <b>2007</b> , 28, 224-30	1.6	95
51	Carcinogenicity study of 217 Hz pulsed 900 MHz electromagnetic fields in Pim1 transgenic mice. <i>Radiation Research</i> , <b>2007</b> , 168, 316-26	3.1	32

50	SAR distribution in human beings when using body-worn RF transmitters. <i>Radiation Protection Dosimetry</i> , <b>2007</b> , 124, 6-14	0.9	5
49	Pulsed radio frequency radiation affects cognitive performance and the waking electroencephalogram. <i>NeuroReport</i> , <b>2007</b> , 18, 803-7	1.7	74
48	Analysis of the accuracy of the numerical reflection coefficient of the finite-difference time-domain method at planar material interfaces. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2006</b> , 48, 264-272	2	10
47	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> , <b>2006</b> , 48, 397-407	2	115
46	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> , <b>2006</b> , 54, 2188-2195	4.1	111
45	Methodology of detailed dosimetry and treatment of uncertainty and variations for in vivo studies. <i>Bioelectromagnetics</i> , <b>2006</b> , 27, 378-91	1.6	38
44	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> , <b>2006</b> , 51, 5211-29	3.8	22
43	UMTS base station-like exposure, well-being, and cognitive performance. <i>Environmental Health Perspectives</i> , <b>2006</b> , 114, 1270-5	8.4	91
42	Effects of 900 MHz GSM wireless communication signals on DMBA-induced mammary tumors in rats. <i>Radiation Research</i> , <b>2006</b> , 165, 174-80	3.1	14
41	Extremely low-frequency electromagnetic field (ELF-EMF) does not affect the expression of alpha3, alpha5 and alpha7 nicotinic receptor subunit genes in SH-SY5Y neuroblastoma cell line. <i>Toxicology Letters</i> , <b>2006</b> , 164, 268-77	4.4	20
40	Electro-optic fiber sensor for amplitude and phase detection of radio frequency electromagnetic fields. <i>Optics Letters</i> , <b>2006</b> , 31, 2402-4	3	4
39	Gene expression changes in human cells after exposure to mobile phone microwaves. <i>Proteomics</i> , <b>2006</b> , 6, 4745-54	4.8	63
38	Effects of 1-week and 6-week exposure to GSM/DCS radiofrequency radiation on micronucleus formation in B6C3F1 mice. <i>Radiation Research</i> , <b>2005</b> , 164, 431-9	3.1	21
37	Whole-body exposure to 2.45 GHz electromagnetic fields does not alter anxiety responses in rats: a plus-maze study including test validation. <i>Behavioural Brain Research</i> , <b>2005</b> , 156, 65-74	3.4	35
36	Whole-body exposure to 2.45 GHz electromagnetic fields does not alter 12-arm radial-maze with reduced access to spatial cues in rats. <i>Behavioural Brain Research</i> , <b>2005</b> , 161, 331-4	3.4	30
35	Electromagnetic fields affect transcript levels of apoptosis-related genes in embryonic stem cell-derived neural progenitor cells. <i>FASEB Journal</i> , <b>2005</b> , 19, 1686-8	0.9	134
34	Exposure to pulse-modulated radio frequency electromagnetic fields affects regional cerebral blood flow. <i>European Journal of Neuroscience</i> , <b>2005</b> , 21, 1000-6	3.5	113
33	Reevaluation and improved design of the TEM cell in vitro exposure unit for replication studies. <i>Bioelectromagnetics</i> , <b>2005</b> , 26, 215-24	1.6	18

32	A numerical and experimental comparison of human head phantoms for compliance testing of mobile telephone equipment. <i>Bioelectromagnetics</i> , <b>2005</b> , 26, 125-37	1.6	89
31	Differences in RF energy absorption in the heads of adults and children. <i>Bioelectromagnetics</i> , <b>2005</b> , Suppl 7, S31-44	1.6	115
30	Dosimetric comparison of the specific anthropomorphic mannequin (SAM) to 14 anatomical head models using a novel definition for the mobile phone positioning. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, 3423-45	3.8	81
29	Measurement system for the characterization of the human body as a communication channel at low frequency. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2005</b> , 2005, 3502-5		20
28	Dosimetric analysis of the carousel setup for the exposure of rats at 1.62 GHz. <i>Bioelectromagnetics</i> , <b>2004</b> , 25, 16-26	1.6	20
27	High frequency electromagnetic fields (GSM signals) affect gene expression levels in tumor suppressor p53-deficient embryonic stem cells. <i>Bioelectromagnetics</i> , <b>2004</b> , 25, 296-307	1.6	87
26	Guidance for exposure design of human studies addressing health risk evaluations of mobile phones. <i>Bioelectromagnetics</i> , <b>2004</b> , 25, 524-9	1.6	42
25	In vitro exposure apparatus for ELF magnetic fields. <i>Bioelectromagnetics</i> , <b>2004</b> , 25, 582-91	1.6	62
24	Novel high-resolution temperature probe for radiofrequency dosimetry. <i>Physics in Medicine and Biology</i> , <b>2004</b> , 49, N83-92	3.8	12
23	Whole-body exposure to 2.45 GHz electromagnetic fields does not alter radial-maze performance in rats. <i>Behavioural Brain Research</i> , <b>2004</b> , 155, 37-43	3.4	43
22	Non-thermal effects of power-line magnetic fields (50 Hz) on gene expression levels of pluripotent embryonic stem cells-the role of tumour suppressor p53. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , <b>2004</b> , 557, 63-74	3	37
21	Effect of the meniscus at the solid/liquid interface on the SAR distribution in Petri dishes and flasks. <i>Bioelectromagnetics</i> , <b>2003</b> , 24, 103-8	1.6	34
20	Radio frequency electromagnetic field exposure in humans: Estimation of SAR distribution in the brain, effects on sleep and heart rate. <i>Bioelectromagnetics</i> , <b>2003</b> , 24, 262-76	1.6	90
19	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> , <b>2003</b> , 20, 1401	1.7	7
18	Compliance Testing of Handheld Mobile Communications Equipment <b>2002</b> , 47-54		
17	Electromagnetic fields, such as those from mobile phones, alter regional cerebral blood flow and sleep and waking EEG. <i>Journal of Sleep Research</i> , <b>2002</b> , 11, 289-95	5.8	229
16	Towards Danger of Mobile Phones in Planes, Trains, Cars and Elevators. <i>Journal of the Physical Society of Japan</i> , <b>2002</b> , 71, 3100-3100	1.5	5
15	Basis for optimization of in vitro exposure apparatus for health hazard evaluations of mobile communications. <i>Bioelectromagnetics</i> , <b>2001</b> , 22, 547-59	1.6	51

14	Exposure to pulsed high-frequency electromagnetic field during waking affects human sleep EEG. <i>NeuroReport</i> , <b>2000</b> , 11, 3321-5	1.7	195
13	Design, optimization, realization, and analysis of an in vitro system for the exposure of embryonic stem cells at 1.71 GHz. <i>Bioelectromagnetics</i> , <b>2000</b> , 21, 372-384	1.6	41
12	Recommended minimal requirements and development guidelines for exposure setups of bio-experiments addressing the health risk concern of wireless communications. <i>Bioelectromagnetics</i> , <b>2000</b> , 21, 508-14	1.6	95
11	Novel probes and evaluation procedures to assess field magnitude and polarization. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2000</b> , 42, 240-244	2	5
10	Analysis of EEG data from weak-field magnetic stimulation of mesial temporal lobe epilepsy patients. <i>Brain Research</i> , <b>2000</b> , 868, 386-91	3.7	24
9	Experimental and Numerical Near-Field Evaluation of RF Transmitters <b>2000</b> , 159-186		1
8	Comparison between numerical and experimental near-field evaluation of a DCS1800 mobile telephone. <i>Radio Science</i> , <b>1998</b> , 33, 1553-1563	1.4	6
7	Differences in energy absorption between heads of adults and children in the near field of sources. <i>Health Physics</i> , <b>1998</b> , 74, 160-8	2.3	116
6	Exposure setup to test effects of wireless communications systems on the CNS. <i>Health Physics</i> , <b>1997</b> , 73, 770-8	2.3	39
5	Effect of global system for mobile communication microwave exposure on the genomic response of the rat brain. <i>Neuroscience</i> , <b>1997</b> , 81, 627-39	3.9	96
4	Experimental and numerical dosimetry <b>1997</b> , 13-64		10
3	Effects of low energy emission therapy in chronic psychophysiological insomnia. <i>Sleep</i> , <b>1996</b> , 19, 327-36	1.1	30
2	Numerical and experimental dosimetry of Petri dish exposure setups. <i>Bioelectromagnetics</i> , <b>1996</b> , 17, 483-93	1.6	72
1	The SPARC DRC: Building a resource for the autonomic nervous system community		2