

# Akimasa Hirata

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1598289/akimasa-hirata-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

260  
papers

5,024  
citations

38  
h-index

59  
g-index

289  
ext. papers

6,453  
ext. citations

2.9  
avg, IF

6.99  
L-index

#	Paper	IF	Citations
260	Magneto-stimulation System for Brain Based on Medical Images <b>2022</b> , 355-359		
259	Estimation of Real-World Vaccination Effectiveness of mRNA COVID-19 Vaccines against Delta and Omicron Variants in Japan.. <i>Vaccines</i> , <b>2022</b> , 10,	5.3	5
258	Computed and Measured Core Temperature of Patients with Heatstroke Transported from Their Homes via Ambulance. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	0
257	Did the Tokyo Olympic Games enhance the transmission of COVID-19? An interpretation with machine learning.. <i>Computers in Biology and Medicine</i> , <b>2022</b> , 146, 105548	7	0
256	Reduction in Human Interaction with Magnetic Resonant Coupling WPT Systems with Grounded Loop. <i>Energies</i> , <b>2021</b> , 14, 7253	3.1	0
255	Planar Omnidirectional Wireless Power Transfer System Based on Novel Metasurface. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2021</b> , 1-8	2	0
254	Intercomparison of Calculated Incident Power Density and Temperature Rise for Exposure From Different Antennas at 1090 GHz. <i>IEEE Access</i> , <b>2021</b> , 9, 151654-151666	3.5	5
253	Power Absorption and Skin Temperature Rise From Simultaneous Near-Field Exposure at 2 and 28 GHz. <i>IEEE Access</i> , <b>2021</b> , 9, 152140-152149	3.5	3
252	Assessment of Human Exposure to Electromagnetic Fields: Review and Future Directions. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2021</b> , 63, 1619-1630	2	17
251	Influence of segmentation accuracy in structural MR head scans on electric field computation for TMS and tES. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66, 064002	3.8	2
250	Synaptic Effect of AβFibers by Pulse-Train Electrical Stimulation. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 643448	5.1	0
249	Human exposure to radiofrequency energy above 6 GHz: review of computational dosimetry studies. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66,	3.8	12
248	Knowledge discovery from emergency ambulance dispatch during COVID-19: A case study of Nagoya City, Japan. <i>Journal of Biomedical Informatics</i> , <b>2021</b> , 117, 103743	10.2	4
247	One-Year Lesson: Machine Learning Prediction of COVID-19 Positive Cases with Meteorological Data and Mobility Estimate in Japan. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	8
246	High-Resolution EEG Source Localization in Segmentation-Free Head Models Based on Finite-Difference Method and Matching Pursuit Algorithm. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 695668	5.1	2
245	Influence of population density, temperature, and absolute humidity on spread and decay durations of COVID-19: A comparative study of scenarios in China, England, Germany, and Japan. <i>One Health</i> , <b>2021</b> , 12, 100203	7.6	53
244	Multiscale Computational Model Reveals Nerve Response in a Mouse Model for Temporal Interference Brain Stimulation. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 684465	5.1	1

243	Novel Health Risk Alert System for Occupational Safety in Hot Environments. <i>IEEE Pulse</i> , <b>2021</b> , 12, 24-27	0.7	1
242	Safety Standard Compliance of Human Exposure From Vehicle Cables Using Coupling Factors in the Frequency Range of 0.3-100 kHz. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2021</b> , 63, 313-318	2	3
241	Coil orientation affects pain sensation during single-pulse transcranial magnetic stimulation over Broca's area. <i>Clinical Neurophysiology Practice</i> , <b>2021</b> , 6, 234-238	3.8	0
240	Exposure Assessment of Array Antennas at 28 GHz Using Hybrid Spherical Near-Field Transformation and FDTD Method. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2021</b> , 1-9	2	10
239	Effect of Incidence Angle on the Spatial-Average of Incident Power Density Definition to Correlate Skin Temperature Rise for Millimeter Wave Exposures. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2021</b> , 1-16	2	6
238	Dosimetry Analysis in Non-brain Tissues During TMS Exposure of Broca's and M1 Areas. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 644951	5.1	2
237	Infectivity Upsurge by COVID-19 Viral Variants in Japan: Evidence from Deep Learning Modeling. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	8
236	Social implementation and intervention with estimated morbidity of heat-related illnesses from weather data: A case study from Nagoya City, Japan. <i>Sustainable Cities and Society</i> , <b>2021</b> , 74, 103203	10.1	2
235	Body Core Temperature Estimation Using New Compartment Model With Vital Data From Wearable Devices. <i>IEEE Access</i> , <b>2021</b> , 9, 124452-124462	3.5	1
234	A Novel Method to Predict the Maximum Electric Fields in Different Body Parts Exposed to Uniform Low-Frequency Magnetic Field. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2021</b> , 1-9	2	0
233	Assessment of mmWave Exposure From Antenna Based on Transformation of Spherical Wave Expansion to Plane Wave Expansion. <i>IEEE Access</i> , <b>2021</b> , 9, 111608-111615	3.5	3
232	TMS activation site estimation using multiscale realistic head models. <i>Journal of Neural Engineering</i> , <b>2020</b> , 17, 036004	5	8
231	Effect of Skin-to-Skin Contact on Stimulation Threshold and Dosimetry. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2020</b> , 62, 2704-2713	2	4
230	Guidelines for TMS/tES clinical services and research through the COVID-19 pandemic. <i>Brain Stimulation</i> , <b>2020</b> , 13, 1124-1149	5.1	45
229	Reduction of Human Interaction with Wireless Power Transfer System Using Shielded Loop Coil. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 953	2.6	2
228	Quantitative Assessment of Pain Threshold Induced by a Single-Pulse Transcranial Magnetic Stimulation. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 559	5.1	4
227	End-to-end semantic segmentation of personalized deep brain structures for non-invasive brain stimulation. <i>Neural Networks</i> , <b>2020</b> , 125, 233-244	9.1	12
226	. <i>IEEE Access</i> , <b>2020</b> , 8, 26863-26871	3.5	22

225	Deep Learning-Based Development of Personalized Human Head Model With Non-Uniform Conductivity for Brain Stimulation. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 2351-2362	11.7	13
224	Learning-based estimation of dielectric properties and tissue density in head models for personalized radio-frequency dosimetry. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 065001	3.8	6
223	Gaps in Knowledge Relevant to the "Guidelines for Limiting Exposure to Time-Varying Electric and Magnetic Fields (1 Hz-100 kHz)". <i>Health Physics</i> , <b>2020</b> , 118, 533-542	2.3	22
222	Light-Emitting Diodes (LEDS): Implications for Safety. <i>Health Physics</i> , <b>2020</b> , 118, 549-561	2.3	15
221	Guidelines for Limiting Exposure to Electromagnetic Fields (100 kHz to 300 GHz). <i>Health Physics</i> , <b>2020</b> , 118, 483-524	2.3	389
220	Principles for Non-Ionizing Radiation Protection. <i>Health Physics</i> , <b>2020</b> , 118, 477-482	2.3	30
219	Dosimetry and Compliance for Wireless Power Transfer Systems in Vehicle <b>2020</b> ,		1
218	Assessment of absorbed power density and temperature rise for nonplanar body model under electromagnetic exposure above 6 GHz. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 224001	3.8	12
217	Group-level analysis of induced electric field in deep brain regions by different TMS coils. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 025007	3.8	6
216	Significant group-level hotspots found in deep brain regions during transcranial direct current stimulation (tDCS): A computational analysis of electric fields. <i>Clinical Neurophysiology</i> , <b>2020</b> , 131, 755-765	4.3	17
215	ICNIRP Note: Critical Evaluation of Two Radiofrequency Electromagnetic Field Animal Carcinogenicity Studies Published in 2018. <i>Health Physics</i> , <b>2020</b> , 118, 525-532	2.3	13
214	. <i>IEEE Access</i> , <b>2020</b> , 8, 173079-173091	3.5	3
213	Model-based approach for analyzing prevalence of nuclear cataracts in elderly residents. <i>Computers in Biology and Medicine</i> , <b>2020</b> , 126, 104009	7	3
212	Transient Thermal Responses of Skin to Pulsed Millimeter Waves. <i>IEEE Access</i> , <b>2020</b> , 8, 130239-130251	3.5	7
211	Review on biophysical modelling and simulation studies for transcranial magnetic stimulation. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 24TR03	3.8	4
210	Influence of Absolute Humidity, Temperature and Population Density on COVID-19 Spread and Decay Durations: Multi-Prefecture Study in Japan. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	47
209	Correlation between COVID-19 Morbidity and Mortality Rates in Japan and Local Population Density, Temperature, and Absolute Humidity. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	56
208	Effect of Loudspeakers on the In Situ Electric Field in a Driver Body Model Exposed to an Electric Vehicle Wireless Power Transfer System. <i>Energies</i> , <b>2020</b> , 13, 3635	3.1	2

207	Large-Scale Analysis of the Head Proximity Effects on Antenna Performance Using Machine Learning Based Models. <i>IEEE Access</i> , <b>2020</b> , 8, 154060-154071	3.5	3
206	. <i>IEEE Access</i> , <b>2020</b> , 8, 200995-201004	3.5	1
205	Difference of ICNIRP Guidelines and IEEE C95.1 Standard for Human Protection from Radio-Frequency Exposures <b>2020</b> ,		4
204	Cost of focality in TDCS: Interindividual variability in electric fields. <i>Brain Stimulation</i> , <b>2020</b> , 13, 117-124	5.1	32
203	Comments on the 2013 ICNIRP Laser Guidelines. <i>Health Physics</i> , <b>2020</b> , 118, 543-548	2.3	1
202	Intended Human Exposure to Non-ionizing Radiation for Cosmetic Purposes. <i>Health Physics</i> , <b>2020</b> , 118, 562-579	2.3	5
201	Electrical Characterisation of AEFibres Based on Human Electrostimulation Threshold. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 588056	5.1	2
200	Permissible SA and Radiant Exposure for Brief Exposure in GHz Region <b>2019</b> ,		2
199	Brain Cortical Stimulation Thresholds to Different Magnetic Field Sources Exposures at Intermediate Frequencies. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2019</b> , 61, 1944-1952	2	5
198	Forward Electrocardiogram Modeling by Small Dipoles Based on Whole-Body Electric Field Analysis. <i>IEEE Access</i> , <b>2019</b> , 7, 123463-123472	3.5	2
197	Can electric fields explain inter-individual variability in transcranial direct current stimulation of the motor cortex?. <i>Scientific Reports</i> , <b>2019</b> , 9, 626	4.9	65
196	Real-time estimation of electric fields induced by transcranial magnetic stimulation with deep neural networks. <i>Brain Stimulation</i> , <b>2019</b> , 12, 1500-1507	5.1	12
195	Estimation of heat-related morbidity from weather data: A computational study in three prefectures of Japan over 2013-2018. <i>Environment International</i> , <b>2019</b> , 130, 104907	12.9	17
194	Different thermoregulatory responses of people from tropical and temperate zones: A computational study. <i>Building and Environment</i> , <b>2019</b> , 159, 106152	6.5	6
193	Human Head Skin Thickness Modeling for Electromagnetic Dosimetry. <i>IEEE Access</i> , <b>2019</b> , 7, 46176-46186	3.5	9
192	Corticomotoneuronal Model for Intraoperative Neurophysiological Monitoring During Direct Brain Stimulation. <i>International Journal of Neural Systems</i> , <b>2019</b> , 29, 1850026	6.2	7
191	Brain AI: Deep Learning for Brain Stimulation. <i>IEEE Pulse</i> , <b>2019</b> , 10, 3-5	0.7	6
190	Development of accurate human head models for personalized electromagnetic dosimetry using deep learning. <i>NeuroImage</i> , <b>2019</b> , 202, 116132	7.9	12

189	Group-level and functional-region analysis of electric-field shape during cerebellar transcranial direct current stimulation with different electrode montages. <i>Journal of Neural Engineering</i> , <b>2019</b> , 16, 036001	5	19
188	. <i>IEEE Access</i> , <b>2019</b> , 7, 171346-171356	3.5	34
187	. <i>IEEE Access</i> , <b>2019</b> , 7, 184320-184331	3.5	12
186	Comparison of temperature elevation between in physical phantom skin and in human skin during local exposure to a 28 GHz millimeter-wave <b>2019</b> ,		2
185	Electromagnetic Dosimetry and Compliance for Wireless Power Transfer Systems in Vehicles. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2019</b> , 61, 2024-2030	2	14
184	Setting Reference Level in Human Safety Guidelines via Cortical Nerve Activation Intercomparison at IF <b>2019</b> ,		2
183	Estimation of Time-Course Core Temperature and Water Loss in Realistic Adult and Child Models with Urban Micrometeorology Prediction. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	4
182	Setting exposure guidelines and product safety standards for radio-frequency exposure at frequencies above 6 GHz: brief review. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , <b>2019</b> , 74, 17-24	2	17
181	Risk Management of Heatstroke Based on Fast Computation of Temperature and Water Loss Using Weather Data for Exposure to Ambient Heat and Solar Radiation. <i>IEEE Access</i> , <b>2018</b> , 6, 3774-3785	3.5	11
180	Atlas of optimal coil orientation and position for TMS: A computational study. <i>Brain Stimulation</i> , <b>2018</b> , 11, 839-848	5.1	35
179	A high-resolution computational localization method for transcranial magnetic stimulation mapping. <i>NeuroImage</i> , <b>2018</b> , 172, 85-93	7.9	24
178	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2018</b> , 60, 328-337	2	18
177	Where and what TMS activates: Experiments and modeling. <i>Brain Stimulation</i> , <b>2018</b> , 11, 166-174	5.1	60
176	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2018</b> , 60, 589-597	2	34
175	TMS Motor Thresholds Correlate With TDCS Electric Field Strengths in Hand Motor Area. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 426	5.1	29
174	Temperature elevation in the human brain and skin with thermoregulation during exposure to RF energy. <i>BioMedical Engineering OnLine</i> , <b>2018</b> , 17, 1	4.1	78
173	Combined Simulation of Bioelectromagnetics and Nerve Activation and its Application. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2018</b> , 138, 265-270	0.2	3
172	Risk Evaluation of Heat Stroke with Multiphysics Computation and its Application. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2018</b> , 138, 288-294	0.2	1

171	<b>2018,</b>			5
170	. <i>IEEE Access</i> , <b>2018</b> , 6, 74536-74546		3.5	16
169	. <i>IEEE Access</i> , <b>2018</b> , 6, 70964-70973		3.5	15
168	Temperature Rise for Brief Radio-Frequency Exposure Below 6 GHz. <i>IEEE Access</i> , <b>2018</b> , 6, 65737-65746		3.5	9
167	Area-Averaged Transmitted Power Density at Skin Surface as Metric to Estimate Surface Temperature Elevation. <i>IEEE Access</i> , <b>2018</b> , 6, 77665-77674		3.5	28
166	Comparison of Thermal Response for RF Exposure in Human and Rat Models. <i>International Journal of Environmental Research and Public Health</i> , <b>2018</b> , 15,		4.6	3
165	. <i>IEEE Access</i> , <b>2018</b> , 1-1		3.5	7
164	Averaging Area of Incident Power Density for Human Exposure from Patch Antenna Arrays. <i>IEICE Transactions on Electronics</i> , <b>2018</b> , E101.C, 644-646		0.4	13
163	A multi-scale computational approach based on TMS experiments for the assessment of electro-stimulation thresholds of the brain at intermediate frequencies. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 225006		3.8	15
162	Intraoperative direct subcortical stimulation: comparison of monopolar and bipolar stimulation. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 225013		3.8	12
161	<b>2018,</b>			1
160	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2017</b> , 59, 677-685		2	21
159	Time constants for temperature elevation in human models exposed to dipole antennas and beams in the frequency range from 1 to 30 GHz. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 1676-1699		3.8	29
158	Evaluation method for in situ electric field in standardized human brain for different transcranial magnetic stimulation coils. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 2224-2238		3.8	11
157	On the averaging area for incident power density for human exposure limits at frequencies over 6 GHz. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 3124-3138		3.8	47
156	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2017</b> , 59, 739-746		2	10
155	Human exposure to pulsed fields in the frequency range from 6 to 100 GHz. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 6980-6992		3.8	29
154	Variability in TDCS electric fields: Effects of electrode size and configuration <b>2017</b> ,			5

153	Multiphysics and Thermal Response Models to Improve Accuracy of Local Temperature Estimation in Rat Cortex under Microwave Exposure. <i>International Journal of Environmental Research and Public Health</i> , <b>2017</b> , 14,	4.6	6
152	Relationship between peak spatial-averaged specific absorption rate and peak temperature elevation in human head in frequency range of 1-30 GHz. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 5406-5425	3.8	34
151	SAR evaluation in models of an adult and a child for magnetic field from wireless power transfer systems at 6.78 MHz. <i>Biomedical Physics and Engineering Express</i> , <b>2016</b> , 2, 027001	1.5	7
150	Wireless Power Transfer Charging System for AIMDs and Pacemakers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 633-642	4.1	129
149	The electromagnetic-thermal dosimetry for the homogeneous human brain model. <i>Engineering Analysis With Boundary Elements</i> , <b>2016</b> , 63, 61-73	2.6	15
148	Effect of microscopic modeling of skin in electrical and thermal analysis of transcranial direct current stimulation. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 8825-8838	3.8	14
147	Evaluation method for in-situ electric field of different TMS coils in human brain <b>2016</b> ,		1
146	Low-frequency electrical dosimetry: research agenda of the IEEE International Committee on Electromagnetic Safety. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, R138-49	3.8	47
145	Why intra-epidermal electrical stimulation achieves stimulation of small fibres selectively: a simulation study. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 4479-90	3.8	16
144	Electric fields of motor and frontal tDCS in a standard brain space: A computer simulation study. <i>NeuroImage</i> , <b>2016</b> , 137, 140-151	7.9	76
143	Computational dosimetry for child and adult human models due to contact current from 10 Hz to 110 MHz. <i>Radiation Protection Dosimetry</i> , <b>2015</b> , 167, 642-52	0.9	4
142	In-situ electric field in human body model in different postures for wireless power transfer system in an electrical vehicle. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 163-73	3.8	39
141	Characteristics of ocular temperature elevations after exposure to quasi- and millimeter waves (18-40 GHz). <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2015</b> , 36, 390-399	2.2	11
140	Inter-subject Variability in Electric Fields of Motor Cortical tDCS. <i>Brain Stimulation</i> , <b>2015</b> , 8, 906-13	5.1	200
139	Computational estimation of body temperature and sweating in the aged during passive heat exposure. <i>International Journal of Thermal Sciences</i> , <b>2015</b> , 89, 154-163	4.1	24
138	Quasistatic Approximation for Exposure Assessment of Wireless Power Transfer. <i>IEICE Transactions on Communications</i> , <b>2015</b> , E98.B, 1156-1163	0.5	7
137	Internal electric field in pregnant-woman model for wireless power transfer systems in electric vehicles. <i>Electronics Letters</i> , <b>2015</b> , 51, 2136-2137	1.1	13
136	An equivalent skin conductivity model for low-frequency magnetic field dosimetry. <i>Biomedical Physics and Engineering Express</i> , <b>2015</b> , 1, 015201	1.5	32



135	Evaluation of nonuniform field exposures with coupling factors. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 8129-40	3.8	21
134	Magnetic Field Measurement for Human Exposure Assessment near Wireless Power Transfer Systems in Kilohertz and Megahertz Bands. <i>IEICE Transactions on Communications</i> , <b>2015</b> , E98.B, 2470-2476	2.5	2
133	No changes in cerebral microcirculatory parameters in rat during local cortex exposure to microwaves. <i>In Vivo</i> , <b>2015</b> , 29, 207-15	2.3	4
132	No Dynamic Changes in Blood-brain Barrier Permeability Occur in Developing Rats During Local Cortex Exposure to Microwaves. <i>In Vivo</i> , <b>2015</b> , 29, 351-7	2.3	7
131	No Dynamic Changes in Inflammation-related Microcirculatory Parameters in Developing Rats During Local Cortex Exposure to Microwaves. <i>In Vivo</i> , <b>2015</b> , 29, 561-7	2.3	1
130	Effects of coil orientation on the electric field induced by TMS over the hand motor area. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 203-18	3.8	107
129	Wireless power transfer system applied to an active implantable medical device <b>2014</b> ,		14
128	Computation of Temperature Elevation in a Fetus Exposed to Ambient Heat and Radio Frequency Fields. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2014</b> , 65, 1176-1186	2.3	3
127	Dosimetry Using a Localized Exposure System in the Millimeter-Wave Band for in vivo Studies on Ocular Effects. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2014</b> , 62, 1554-1564	4.1	14
126	Analysis of in situ electric field and specific absorption rate in human models for wireless power transfer system with induction coupling. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 3721-35	3.8	22
125	Multi-scale simulations predict responses to non-invasive nerve root stimulation. <i>Journal of Neural Engineering</i> , <b>2014</b> , 11, 056013	5	21
124	Magnetic field measurement near wireless power transfer systems <b>2014</b> ,		1
123	FDTD computation of temperature elevation in the elderly for far-field RF exposures. <i>Radiation Protection Dosimetry</i> , <b>2014</b> , 158, 497-500	0.9	4
122	Effects of Phase Difference in Dipole Phased-Array Antenna Above EBG Substrates on SAR. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2013</b> , 12, 579-582	3.8	4
121	FDTD analysis of temperature elevation in the lens of human and rabbit models due to near-field and far-field exposures at 2.45 GHz. <i>Radiation Protection Dosimetry</i> , <b>2013</b> , 155, 284-91	0.9	7
120	The relationship between specific absorption rate and temperature elevation in anatomically based human body models for plane wave exposure from 30 MHz to 6 GHz. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 903-21	3.8	27
119	Evaluation of the induced electric field and compliance procedure for a wireless power transfer system in an electrical vehicle. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 7583-93	3.8	57
118	Computational analysis shows why transcranial alternating current stimulation induces retinal phosphenes. <i>Journal of Neural Engineering</i> , <b>2013</b> , 10, 046009	5	67

117	FDTD Analysis of Emission from Capacitor with Mechanical Motion. <i>Microwave and Optical Technology Letters</i> , <b>2013</b> , 55, 2821-2824	1.2	
116	On the issues related to compliance of LF pulsed exposures with safety standards and guidelines. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 8597-607	3.8	11
115	Computation of induced electric field for the sacral nerve activation. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 7745-55	3.8	10
114	Confirmation of quasi-static approximation in SAR evaluation for a wireless power transfer system. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, N241-9	3.8	59
113	Computation of temperature elevation in fetus due to radio-frequency exposure with a new thermal modeling. <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>2013</b> , 3753-6	0.9	0
112	Computational dosimetry for grounded and ungrounded human models due to contact current. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 5153-72	3.8	15
111	Analysis of Temperature Elevation in the Human Body Models for Simultaneous Exposure of Heat and Solar Radiation. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2013</b> , 133, 260-265	0.2	
110	Popularization Enlightenment and Post Facto Assessment Based on Computational Simulation of Induced Current in Human Body. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2013</b> , 133, 266-270	0.2	
109	Estimation of Whole-Body Average SARs in Human Models for 0.1-2 GHz Vertically Polarized Far-Field Exposure Using Squares Averaged Over Height of Layer Induced Currents. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2013</b> , 133, 2155-2159	0.1	
108	Biological Effects of Electromagnetic Fields and Compliance Assessment of Wireless Communication Equipments. <i>IEICE Communications Society Magazine</i> , <b>2012</b> , 5, 312-320	0	3
107	Computational analysis of thresholds for magnetophosphenes. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 6147-65	3.8	11
106	Evaluation of SAR in a human body model due to wireless power transmission in the 10 MHz band. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 4991-5002	3.8	52
105	Investigation of ocular temperature change in rabbits during 40 GHz band exposure <b>2012</b> ,		1
104	SAR AND RADIATION CHARACTERISTICS OF A DIPOLE ANTENNA ABOVE DIFFERENTFINITE EBG SUBSTRATESIN THE PRESENCE OF A REALISTICHEAD MODEL IN THE 3.5 GHZ BAND. <i>Progress in Electromagnetics Research B</i> , <b>2012</b> , 44, 53-70	0.7	9
103	Improving the computational speed and reducing the staircasing error for simulations of human exposure to low frequency magnetic fields <b>2012</b> ,		3
102	Reducing the staircasing error in computational dosimetry of low-frequency electromagnetic fields. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, N25-34	3.8	82
101	Dispersive FDTD analysis of induced electric field in human models due to electrostatic discharge. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 4447-58	3.8	6
100	Computational estimation of decline in sweating in the elderly from measured body temperatures and sweating for passive heat exposure. <i>Physiological Measurement</i> , <b>2012</b> , 33, N51-60	2.9	15

99	Fast multigrid-based computation of the induced electric field for transcranial magnetic stimulation. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 7753-65	3.8	103
98	Estimation of the whole-body averaged SAR of grounded human models for plane wave exposure at respective resonance frequencies. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 8427-42	3.8	13
97	Discussion on Activities of Enlightenment for High School Students Based on Survey. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2012</b> , 132, 1124-1125	0.2	
96	Dipole Antenna Above EBG Substrate for Local SAR Reduction. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2011</b> , 10, 904-906	3.8	35
95	DOMINANT FACTORS AFFECTING TEMPERATURE ELEVATION IN ADULT AND CHILD MODELS EXPOSED TO SOLAR RADIATION IN HOT ENVIRONMENT. <i>Progress in Electromagnetics Research B</i> , <b>2011</b> , 34, 47-61	0.7	5
94	EFFECTIVE RESISTANCE OF GROUNDED HUMANS FOR WHOLE-BODY AVERAGED SAR ESTIMATION AT RESONANCE FREQUENCIES. <i>Progress in Electromagnetics Research B</i> , <b>2011</b> , 35, 15-27	0.7	5
93	Local exposure of the rat cortex to radiofrequency electromagnetic fields increases local cerebral blood flow along with temperature. <i>Journal of Applied Physiology</i> , <b>2011</b> , 110, 142-8	3.7	21
92	Computational modeling of temperature elevation and thermoregulatory response in the brains of anesthetized rats locally exposed at 1.5 GHz. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 7639-57	3.8	10
91	Dominant factors affecting temperature rise in simulations of human thermoregulation during RF exposure. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 7449-71	3.8	59
90	An electric field induced in the retina and brain at threshold magnetic flux density causing magnetophosphenes. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 4091-101	3.8	32
89	In-vivo Measurement of Complex Relative Permittivity for Human Skin Tissues Using Open-Ended Coaxial Probe. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2011</b> , 131, 2040-2045	0.1	1
88	Uncertainty of GHz-band Whole-body Average SARs in Infants based on their Kaup Indices. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2011</b> , 131, 89-94	0.2	5
87	Electromagnetic and Thermal Dosimetric Techniques in Humans and its Application. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2011</b> , 131, 2-5	0.2	
86	Investigation of Time Series Change and Difference between Universities in Motivation for University Entrance of Students Studying Electrical and Electronic Engineering. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2011</b> , 131, 635-636	0.2	1
85	Intercomparison of induced fields in Japanese male model for ELF magnetic field exposures: effect of different computational methods and codes. <i>Radiation Protection Dosimetry</i> , <b>2010</b> , 138, 237-44	0.9	51
84	Modeling of ESD-Induced Ultrawideband Noise Propagating on the Human Body. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2010</b> , 9, 1245-1247	3.8	6
83	Effect of the averaging volume and algorithm on the in situ electric field for uniform electric- and magnetic-field exposures. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, N243-52	3.8	27
82	Parameter variation effects on temperature elevation in a steady-state, one-dimensional thermal model for millimeter wave exposure of one- and three-layer human tissue. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 4647-59	3.8	40

81	In situ electric fields causing electro-stimulation from conductor contact of charged human. <i>Radiation Protection Dosimetry</i> , <b>2010</b> , 140, 351-6	0.9	2
80	Computation of induced electric field and temperature elevation in human due to lightning current. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 183704	3.4	4
79	Acute dosimetry and estimation of threshold-inducing behavioral signs of thermal stress in rabbits at 2.45-GHz microwave exposure. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2010</b> , 57, 1234-42	5	9
78	Estimation of Whole-Body Average SAR in Human Models Due to Plane-Wave Exposure at Resonance Frequency. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2010</b> , 52, 41-48	2	24
77	In-Vivo Time Domain Measurement of Dielectric Properties of Human Body Tissue. <i>IEEE Transactions on Fundamentals and Materials</i> , <b>2010</b> , 130, 1087-1091	0.2	3
76	Quasi-Static FDTD Method for Dosimetry in Human due to Contact Current. <i>IEICE Transactions on Electronics</i> , <b>2010</b> , E93-C, 60-65	0.4	9
75	Basic Restriction and Reference Level in Anatomically-based Japanese Models for Low-Frequency Electric and Magnetic Field Exposures. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2010</b> , 130, 1092-1098	0.2	9
74	Introduction of Objective GPAs and its Application to Careful Guidance for Students. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2010</b> , 130, 123-124	0.2	
73	Uncertainty in Grade Evaluation Caused by Different Factors. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2010</b> , 130, 121-122	0.2	
72	Evaluation of SAR and Temperature Elevation Using Japanese Anatomical Human Models for Body-Worn Devices. <i>IEICE Transactions on Communications</i> , <b>2010</b> , E93-B, 3643-3646	0.5	2
71	Double-Sided Printed Bow-Tie Antenna with Notch Filter for UWB Applications. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2009</b> , 23, 247-253	1.3	4
70	Modeling time variation of blood temperature in a bioheat equation and its application to temperature analysis due to RF exposure. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, N189-96	3.8	22
69	The correlation between mass-averaged SAR and temperature elevation in the human head model exposed to RF near-fields from 1 to 6 GHz. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 7227-38	3.8	41
68	In-situ electric field and current density in Japanese male and female models for uniform magnetic field exposures. <i>Radiation Protection Dosimetry</i> , <b>2009</b> , 135, 272-5	0.9	16
67	Effects of dielectric permittivities on skin heating due to millimeter wave exposure. <i>BioMedical Engineering OnLine</i> , <b>2009</b> , 8, 20	4.1	19
66	Influence of electromagnetic polarization on the whole-body averaged SAR in children for plane-wave exposures. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, N59-65	3.8	18
65	Acute ocular injuries caused by 60-Ghz millimeter-wave exposure. <i>Health Physics</i> , <b>2009</b> , 97, 212-8	2.3	25
64	ESTIMATION OF CORE TEMPERATURE ELEVATION IN HUMANS AND ANIMALS FOR WHOLE-BODY AVERAGED SAR. <i>Progress in Electromagnetics Research</i> , <b>2009</b> , 99, 53-70	3.8	31

63	FDTD Calculation of FM-Band Crosstalks between Perpendicular Traces on Printed Circuit Board with Ground-Pattern Slits. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2009</b> , 129, 1642-1647	0.1	6
62	Conservative Estimation of Whole-body Average SAR in Infant Model for 0.3-6GHz Far-Field Exposure. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2009</b> , 129, 2102-2107	0.1	3
61	Computational Techniques of Electromagnetic Dosimetry for Humans. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2009</b> , 129, 391-395	0.2	3
60	Computational Electromagnetic Dosimetry of a Human Body in a Vehicle for Plane-wave Exposure. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2009</b> , 129, 725-726	0.2	2
59	Topics in EMC Issues Related to Safety and Secure Social Life. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2009</b> , 129, 56-61	0.2	
58	Theoretical Analysis for Temperature Elevation of Human Body Due to Millimeter Wave Exposure <b>2008</b> ,		4
57	Analysis of Electromagnetic Environment in a CAD-Based Vehicle With a Human Body for Far-Field Incidence. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2008</b> , 7, 625-628	3.8	1
56	Conservative estimation of whole-body-averaged SARs in infants with a homogeneous and simple-shaped phantom in the GHz region. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 7215-23	3.8	13
55	Computational model for calculating body-core temperature elevation in rabbits due to whole-body exposure at 2.45 GHz. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 3391-404	3.8	14
54	FDTD analysis of body-core temperature elevation in children and adults for whole-body exposure. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 5223-38	3.8	40
53	Intercomparison of whole-body averaged SAR in European and Japanese voxel phantoms. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 5883-97	3.8	50
52	Development of thermal model in a child and its application to dosimetry due to RF whole-body exposures. <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>2008</b> , 2008, 3277-80	0.9	
51	Computation of temperature elevation in rabbit eye irradiated by 2.45-GHz microwaves with different field configurations. <i>Health Physics</i> , <b>2008</b> , 94, 134-44	2.3	3
50	ON AVERAGING MASS OF SAR CORRELATING WITH TEMPERATURE ELEVATION DUE TO A DIPOLE ANTENNA. <i>Progress in Electromagnetics Research</i> , <b>2008</b> , 84, 221-237	3.8	32
49	Correlation Between Absorption Cross Section and Body Surface Area of Human for Far-Field Exposure at GHz Bands <b>2007</b> ,		12
48	Temperature elevation in the eye of anatomically based human head models for plane-wave exposures. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 6389-99	3.8	33
47	Dominant factors influencing whole-body average SAR due to far-field exposure in whole-body resonance frequency and GHz regions. <i>Bioelectromagnetics</i> , <b>2007</b> , 28, 484-7	1.6	60
46	Improved heat transfer modeling of the eye for electromagnetic wave exposures. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2007</b> , 54, 959-61	5	12

45	FDTD computation of temperature elevation in human body for RF far-field exposure. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007</i> , 2007, 1164-7		2
44	Dosimetry in Japanese male and female models for a low-frequency electric field. <i>Physics in Medicine and Biology, 2007</i> , 52, N339-43	3.8	7
43	FDTD analysis of human body-core temperature elevation due to RF far-field energy prescribed in the ICNIRP guidelines. <i>Physics in Medicine and Biology, 2007</i> , 52, 5013-23	3.8	49
42	Correlation between peak spatial-average SAR and temperature increase due to antennas attached to human trunk. <i>IEEE Transactions on Biomedical Engineering, 2006</i> , 53, 1658-64	5	46
41	FDTD-derived correlation of maximum temperature increase and peak SAR in child and adult head models due to dipole antenna. <i>IEEE Transactions on Electromagnetic Compatibility, 2006</i> , 48, 240-247	2	39
40	Correlation between maximum temperature increase and peak SAR with different average schemes and masses. <i>IEEE Transactions on Electromagnetic Compatibility, 2006</i> , 48, 569-578	2	52
39	Computational verification of anesthesia effect on temperature variations in rabbit eyes exposed to 2.45 GHz microwave energy. <i>Bioelectromagnetics, 2006</i> , 27, 602-12	1.6	35
38	Discussion on classification of impulsive EM noises emitted from power apparatus. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2006</i> , 156, 1-8	0.4	1
37	Toward automatic classification of partial discharge sources with neural networks. <i>IEEE Transactions on Power Delivery, 2006</i> , 21, 526-527	4.3	15
36	Enhancement of frequency-tunability for a Smith-Purcell free-electron laser oscillator in the millimeter-wave region. <i>IEEE Transactions on Plasma Science, 2006</i> , 34, 559-562	1.3	
35	Time-Domain Mathematical Model of Impulsive Em Noises Emitted from Discharges. <i>Journal of Electromagnetic Waves and Applications, 2006</i> , 20, 1681-1694	1.3	6
34	Accuracy Compensation in Direction Finding Using Patch Antenna Array With EBG Structure. <i>IEEE Antennas and Wireless Propagation Letters, 2006</i> , 5, 1-3	3.8	10
33	Propagation Characteristic of Wideband Electromagnetic Wave in the Ionosphere. <i>IEEJ Transactions on Fundamentals and Materials, 2006</i> , 126, 1173-1176	0.2	4
32	Time Domain Measurement of Moving Object Speed Using Acceleration Sensor. <i>IEEJ Transactions on Electronics, Information and Systems, 2006</i> , 126, 1533-1534	0.1	
31	A Study on Human Body Modeling for the Mobile Terminal Antenna Design at 400 MHz Band. <i>Journal of Electromagnetic Waves and Applications, 2005</i> , 19, 671-687	1.3	8
30	Human Head Modeling for Handset Antenna Design at 5 GHz Band. <i>Journal of Electromagnetic Waves and Applications, 2005</i> , 19, 401-411	1.3	10
29	Temperature increase in human eyes due to near-field and far-field exposures at 900 MHz, 1.5 GHz, and 1.9 GHz. <i>IEEE Transactions on Electromagnetic Compatibility, 2005</i> , 47, 68-76	2	61
28	Discussion on Classification of Impulsive EM Noises Emitted from Power Apparatus. <i>IEEJ Transactions on Fundamentals and Materials, 2005</i> , 125, 663-668	0.2	1

27	Folded-loop antenna with a reflector for mobile handsets at 2.0 GHz. <i>Microwave and Optical Technology Letters</i> , <b>2004</b> , 40, 272-275	1.2	21
26	A compact and wide-band metallic reflector grating in a rectangular waveguide. <i>IEEE Transactions on Plasma Science</i> , <b>2004</b> , 32, 1318-1322	1.3	3
25	Feasibility study of adaptive nulling on handset for 4G mobile communications. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2004</b> , 3, 120-122	3.8	8
24	Double-sided printed bow-tie antenna for UWB communications. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2004</b> , 3, 152-153	3.8	117
23	An Operational VHF Broadband Digital Interferometer for Lightning Monitoring. <i>IEEJ Transactions on Fundamentals and Materials</i> , <b>2004</b> , 124, 1232-1238	0.2	34
22	Correlation of maximum temperature increase and peak SAR in the human head due to handset antennas. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2003</b> , 51, 1834-1841	4.1	75
21	Temperature increase in the human head due to a dipole antenna at microwave frequencies. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2003</b> , 45, 109-116	2	61
20	Analysis of free-electron lasers via FDTD method. <i>Electronics and Communications in Japan</i> , <b>2003</b> , 86, 26-36		3
19	Folded-loop antennas for handset terminals at the 2.0-GHz band. <i>Microwave and Optical Technology Letters</i> , <b>2003</b> , 36, 376-378	1.2	11
18	Direction-of-arrival estimation for ultra-wideband EM pulses with an interferometry. <i>Microwave and Optical Technology Letters</i> , <b>2003</b> , 37, 17-18	1.2	5
17	Operation strategy of residential centralized photovoltaic system in remote areas. <i>Renewable Energy</i> , <b>2003</b> , 28, 997-1012	8.1	29
16	Analysis of a metallic reflector grating with the influence of the Joule loss taken into account. <i>IEEE Transactions on Plasma Science</i> , <b>2003</b> , 31, 1070-1074	1.3	4
15	DOA estimation of ultra-wideband EM waves with MUSIC and interferometry. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2003</b> , 2, 190-193	3.8	23
14	SAR and temperature increase in the human eye induced by obliquely incident plane waves. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2002</b> , 44, 592-594	2	28
13	. <i>IEEE Transactions on Plasma Science</i> , <b>2002</b> , 30, 1292-1297	1.3	1
12	Design of a compact and wide-band metallic reflector grating for single-mode operation. <i>IEEE Transactions on Plasma Science</i> , <b>2002</b> , 30, 2042-2047	1.3	5
11	. <i>IEEE Transactions on Plasma Science</i> , <b>2002</b> , 30, 1151-1159	1.3	18
10	Nonlinear characteristics of a cylindrical Cherenkov laser at millimeter wavelengths. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 9471	2.5	3

9	Dosimetry in models of child and adult for low-frequency electric field. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2001</b> , 48, 1007-12	5	49
8	Temperature rises in the human eye exposed to EM waves in the frequency range 0.6-6 GHz. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2000</b> , 42, 386-393	2	118
7	Full-wave modal analysis of the rectangular waveguide grating. <i>IEEE Transactions on Plasma Science</i> , <b>2000</b> , 28, 614-620	1.3	20
6	Three-dimensional analysis of a Cherenkov laser via particle simulation. <i>IEEE Journal of Quantum Electronics</i> , <b>1998</b> , 34, 1802-1806	2	3
5	Nonlinear characteristics of a Smith-Purcell free-electron laser. <i>Electronics and Communications in Japan</i> , <b>1997</b> , 80, 30-37		1
4	Wideband characteristics of impulsive EM noise emitted from discharges and development of mathematical noise model		1
3	Maximum temperature increases in the head and brain for SAR averaging schemes prescribed in safety guidelines		1
2	Quantitative assessment of pain threshold induced by a single-pulse transcranial magnetic stimulation		1
1	Electric field dependent effects of motor cortical TDCS		3