

# Akimasa Hirata

## List of Publications by Year in descending order

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283  
papers

7,776  
citations

53751

45  
h-index

74108

75  
g-index

289  
all docs

289  
docs citations

289  
times ranked

4756  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for Limiting Exposure to Electromagnetic Fields (100 kHz to 300 GHz). <i>Health Physics</i> , 2020, 118, 483-524.	0.3	939
2	Inter-subject Variability in Electric Fields of Motor Cortical tDCS. <i>Brain Stimulation</i> , 2015, 8, 906-913.	0.7	304
3	Wireless Power Transfer Charging System for AIMDs and Pacemakers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016, 64, 633-642.	2.9	192
4	Double-sided printed bow-tie antenna for UWB communications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2004, 3, 152-153.	2.4	169
5	Fast multigrid-based computation of the induced electric field for transcranial magnetic stimulation. <i>Physics in Medicine and Biology</i> , 2012, 57, 7753-7765.	1.6	142
6	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> , 2000, 42, 386-393.	1.4	141
7	Effects of coil orientation on the electric field induced by TMS over the hand motor area. <i>Physics in Medicine and Biology</i> , 2014, 59, 203-218.	1.6	137
8	Can electric fields explain inter-individual variability in transcranial direct current stimulation of the motor cortex?. <i>Scientific Reports</i> , 2019, 9, 626.	1.6	120
9	Electric fields of motor and frontal tDCS in a standard brain space: A computer simulation study. <i>NeuroImage</i> , 2016, 137, 140-151.	2.1	113
10	Temperature elevation in the human brain and skin with thermoregulation during exposure to RF energy. <i>BioMedical Engineering OnLine</i> , 2018, 17, 1.	1.3	112
11	Reducing the staircasing error in computational dosimetry of low-frequency electromagnetic fields. <i>Physics in Medicine and Biology</i> , 2012, 57, N25-N34.	1.6	104
12	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> , 2021, 12, 100203.	1.5	99
13	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> , 2003, 51, 1834-1841.	2.9	98
14	Where and what TMS activates: Experiments and modeling. <i>Brain Stimulation</i> , 2018, 11, 166-174.	0.7	95
15	Computational analysis shows why transcranial alternating current stimulation induces retinal phosphenes. <i>Journal of Neural Engineering</i> , 2013, 10, 046009.	1.8	94
16	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> , 2020, 17, 5477.	1.2	88
17	Confirmation of quasi-static approximation in SAR evaluation for a wireless power transfer system. <i>Physics in Medicine and Biology</i> , 2013, 58, N241-N249.	1.6	81
18	Synopsis of IEEE Std C95.1â„-2019 â€œIEEE Standard for Safety Levels With Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHzâ€. <i>IEEE Access</i> , 2019, 7, 171346-171356.	2.6	81

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19	Cost of focality in TDCS: Interindividual variability in electric fields. <i>Brain Stimulation</i> , 2020, 13, 117-124.	0.7	80
20	Guidelines for TMS/tES clinical services and research through the COVID-19 pandemic. <i>Brain Stimulation</i> , 2020, 13, 1124-1149.	0.7	78
21	Temperature increase in the human head due to a dipole antenna at microwave frequencies. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2003, 45, 109-116.	1.4	75
22	Dominant factors influencing whole-body average SAR due to far-field exposure in whole-body resonance frequency and GHz regions. <i>Bioelectromagnetics</i> , 2007, 28, 484-487.	0.9	75
23	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> , 2020, 17, 5354.	1.2	75
24	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</i> , 2005, 47, 68-76.	1.4	72
25	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> , 2013, 58, 7583-7593.	1.6	70
26	Dominant factors affecting temperature rise in simulations of human thermoregulation during RF exposure. <i>Physics in Medicine and Biology</i> , 2011, 56, 7449-7471.	1.6	67
27	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> , 2012, 57, 4991-5002.	1.6	67
28	On the averaging area for incident power density for human exposure limits at frequencies over 6 GHz. <i>Physics in Medicine and Biology</i> , 2017, 62, 3124-3138.	1.6	67
29	Low-frequency electrical dosimetry: research agenda of the IEEE International Committee on Electromagnetic Safety. <i>Physics in Medicine and Biology</i> , 2016, 61, R138-R149.	1.6	63
30	Correlation Between Maximum Temperature Increase and Peak SAR with Different Average Schemes and Masses. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2006, 48, 569-578.	1.4	62
31	Assessment of Human Exposure to Electromagnetic Fields: Review and Future Directions. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021, 63, 1619-1630.	1.4	62
32	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> , 2010, 138, 237-244.	0.4	60
33	Atlas of optimal coil orientation and position for TMS: A computational study. <i>Brain Stimulation</i> , 2018, 11, 839-848.	0.7	58
34	Principles for Non-Ionizing Radiation Protection. <i>Health Physics</i> , 2020, 118, 477-482.	0.3	58
35	Correlation Between Peak Spatial-Average SAR and Temperature Increase Due to Antennas Attached to Human Trunk. <i>IEEE Transactions on Biomedical Engineering</i> , 2006, 53, 1658-1664.	2.5	57
36	Dosimetry in models of child and adult for low-frequency electric field. <i>IEEE Transactions on Biomedical Engineering</i> , 2001, 48, 1007-1012.	2.5	55

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37	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</i> , 2007, 52, 5013-5023.	1.6	55
38	Intercomparison of whole-body averaged SAR in European and Japanese voxel phantoms. <i>Physics in Medicine and Biology</i> , 2008, 53, 5883-5897.	1.6	55
39	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> , 2009, 54, 7227-7238.	1.6	53
40	FDTD analysis of body-core temperature elevation in children and adults for whole-body exposure. <i>Physics in Medicine and Biology</i> , 2008, 53, 5223-5238.	1.6	50
41	An equivalent skin conductivity model for low-frequency magnetic field dosimetry. <i>Biomedical Physics and Engineering Express</i> , 2015, 1, 015201.	0.6	50
42	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> , 2015, 60, 163-173.	1.6	50
43	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> , 2020, 118, 533-542.	0.3	50
44	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</i> , 2006, 48, 240-247.	1.4	49
45	Computational Artifacts of the In Situ Electric Field in Anatomical Models Exposed to Low-Frequency Magnetic Field. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018, 60, 589-597.	1.4	49
46	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> , 2010, 55, 4647-4659.	1.6	47
47	Area-Averaged Transmitted Power Density at Skin Surface as Metric to Estimate Surface Temperature Elevation. <i>IEEE Access</i> , 2018, 6, 77665-77674.	2.6	47
48	Dipole Antenna Above EBG Substrate for Local SAR Reduction. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011, 10, 904-906.	2.4	45
49	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> , 2019, 16, 036001.	1.8	45
50	ESTIMATION OF CORE TEMPERATURE ELEVATION IN HUMANS AND ANIMALS FOR WHOLE-BODY AVERAGED SAR. <i>Progress in Electromagnetics Research</i> , 2009, 99, 53-70.	1.6	44
51	Human exposure to pulsed fields in the frequency range from 6 to 100 GHz. <i>Physics in Medicine and Biology</i> , 2017, 62, 6980-6992.	1.6	44
52	ON AVERAGING MASS OF SAR CORRELATING WITH TEMPERATURE ELEVATION DUE TO A DIPOLE ANTENNA. <i>Progress in Electromagnetics Research</i> , 2008, 84, 221-237.	1.6	43
53	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> , 2017, 62, 1676-1699.	1.6	43
54	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> , 2020, 131, 755-765.	0.7	43

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55	An Operational VHF Broadband Digital Interferometer for Lightning Monitoring. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2004, 124, 1232-1238.	0.2	42
56	Computational verification of anesthesia effect on temperature variations in rabbit eyes exposed to 2.45 GHz microwave energy. <i>Bioelectromagnetics</i> , 2006, 27, 602-612.	0.9	42
57	Effect of the averaging volume and algorithm on the <i>in situ</i> electric field for uniform electric- and magnetic-field exposures. <i>Physics in Medicine and Biology</i> , 2010, 55, N243-N252.	1.6	42
58	A high-resolution computational localization method for transcranial magnetic stimulation mapping. <i>NeuroImage</i> , 2018, 172, 85-93.	2.1	42
59	Human exposure to radiofrequency energy above 6 GHz: review of computational dosimetry studies. <i>Physics in Medicine and Biology</i> , 2021, 66, 08TR01.	1.6	41
60	Temperature elevation in the eye of anatomically based human head models for plane-wave exposures. <i>Physics in Medicine and Biology</i> , 2007, 52, 6389-6399.	1.6	40
61	TMS Motor Thresholds Correlate With TDCS Electric Field Strengths in Hand Motor Area. <i>Frontiers in Neuroscience</i> , 2018, 12, 426.	1.4	40
62	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> , 2016, 61, 5406-5425.	1.6	39
63	An electric field induced in the retina and brain at threshold magnetic flux density causing magnetophosphenes. <i>Physics in Medicine and Biology</i> , 2011, 56, 4091-4101.	1.6	38
64	Skin Temperature Elevation for Incident Power Densities From Dipole Arrays at 28 Ghz. <i>IEEE Access</i> , 2020, 8, 26863-26871.	2.6	38
65	SAR and temperature increase in the human eye induced by obliquely incident plane waves. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2002, 44, 592-594.	1.4	36
66	Estimation of Whole-Body Average SAR in Human Models Due to Plane-Wave Exposure at Resonance Frequency. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2010, 52, 41-48.	1.4	36
67	Operation strategy of residential centralized photovoltaic system in remote areas. <i>Renewable Energy</i> , 2003, 28, 997-1012.	4.3	35
68	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> , 2019, 74, 17-24.	1.6	35
69	Computational estimation of body temperature and sweating in the aged during passive heat exposure. <i>International Journal of Thermal Sciences</i> , 2015, 89, 154-163.	2.6	34
70	ACUTE OCULAR INJURIES CAUSED BY 60-GHZ MILLIMETER-WAVE EXPOSURE. <i>Health Physics</i> , 2009, 97, 212-218.	0.3	33
71	Real-time estimation of electric fields induced by transcranial magnetic stimulation with deep neural networks. <i>Brain Stimulation</i> , 2019, 12, 1500-1507.	0.7	33
72	Estimation of heat-related morbidity from weather data: A computational study in three prefectures of Japan over 2013–2018. <i>Environment International</i> , 2019, 130, 104907.	4.8	32

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73	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> , 2013, 58, 903-921.	1.6	31
74	Folded-loop antenna with a reflector for mobile handsets at 2.0 GHz. <i>Microwave and Optical Technology Letters</i> , 2004, 40, 272-275.	0.9	30
75	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> , 2020, 65, 224001.	1.6	29
76	DOA estimation of ultra-wideband EM waves with MUSIC and interferometry. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2003, 2, 190-193.	2.4	28
77	Analysis of electric field and specific absorption rate in human models for wireless power transfer system with induction coupling. <i>Physics in Medicine and Biology</i> , 2014, 59, 3721-3735.	1.6	28
78	Thermal Analysis of Averaging Times in Radio-Frequency Exposure Limits Above 1 GHz. <i>IEEE Access</i> , 2018, 6, 74536-74546.	2.6	28
79	Deep Learning-Based Development of Personalized Human Head Model With Non-Uniform Conductivity for Brain Stimulation. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2351-2362.	5.4	28
80	Derivation of Coupling Factors for Different Wireless Power Transfer Systems: Inter- and Intralaboratory Comparison. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017, 59, 677-685.	1.4	27
81	Multi-scale simulations predict responses to non-invasive nerve root stimulation. <i>Journal of Neural Engineering</i> , 2014, 11, 056013.	1.8	26
82	Averaging Area of Incident Power Density for Human Exposure from Patch Antenna Arrays. <i>IEICE Transactions on Electronics</i> , 2018, E101.C, 644-646.	0.3	26
83	Full-wave modal analysis of the rectangular waveguide grating. <i>IEEE Transactions on Plasma Science</i> , 2000, 28, 614-620.	0.6	25
84	Effects of dielectric permittivities on skin heating due to millimeter wave exposure. <i>BioMedical Engineering OnLine</i> , 2009, 8, 20.	1.3	25
85	Influence of electromagnetic polarization on the whole-body averaged SAR in children for plane-wave exposures. <i>Physics in Medicine and Biology</i> , 2009, 54, N59-N65.	1.6	25
86	On the Use of Conformal Models and Methods in Dosimetry for Nonuniform Field Exposure. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018, 60, 328-337.	1.4	25
87	Local exposure of the rat cortex to radiofrequency electromagnetic fields increases local cerebral blood flow along with temperature. <i>Journal of Applied Physiology</i> , 2011, 110, 142-148.	1.2	24
88	Evaluation of nonuniform field exposures with coupling factors. <i>Physics in Medicine and Biology</i> , 2015, 60, 8129-8140.	1.6	24
89	The electromagnetic-thermal dosimetry for the homogeneous human brain model. <i>Engineering Analysis With Boundary Elements</i> , 2016, 63, 61-73.	2.0	24
90	Light-Emitting Diodes (LEDs): Implications for Safety. <i>Health Physics</i> , 2020, 118, 549-561.	0.3	24

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91	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> , 2009, 54, N189-N196.	1.6	23
92	In-situ electric field and current density in Japanese male and female models for uniform magnetic field exposures. <i>Radiation Protection Dosimetry</i> , 2009, 135, 272-275.	0.4	23
93	Wireless power transfer system applied to an active implantable medical device. , 2014, , .		23
94	Intraoperative direct subcortical stimulation: comparison of monopolar and bipolar stimulation. <i>Physics in Medicine and Biology</i> , 2018, 63, 225013.	1.6	23
95	Review on biophysical modelling and simulation studies for transcranial magnetic stimulation. <i>Physics in Medicine and Biology</i> , 2020, 65, 24TR03.	1.6	23
96	Infectivity Upsurge by COVID-19 Viral Variants in Japan: Evidence from Deep Learning Modeling. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7799.	1.2	23
97	Computational estimation of decline in sweating in the elderly from measured body temperatures and sweating for passive heat exposure. <i>Physiological Measurement</i> , 2012, 33, N51-N60.	1.2	22
98	Effect of microscopic modeling of skin in electrical and thermal analysis of transcranial direct current stimulation. <i>Physics in Medicine and Biology</i> , 2016, 61, 8825-8838.	1.6	22
99	Intercomparison of <i>In Situ</i> Electric Fields in Human Models Exposed to Spatially Uniform Magnetic Fields. <i>IEEE Access</i> , 2018, 6, 70964-70973.	2.6	22
100	Spatial Averaging Schemes of <i>In Situ</i> Electric Field for Low-Frequency Magnetic Field Exposures. <i>IEEE Access</i> , 2019, 7, 184320-184331.	2.6	22
101	Electromagnetic Dosimetry and Compliance for Wireless Power Transfer Systems in Vehicles. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019, 61, 2024-2030.	1.4	22
102	ICNIRP Note: Critical Evaluation of Two Radiofrequency Electromagnetic Field Animal Carcinogenicity Studies Published in 2018. <i>Health Physics</i> , 2020, 118, 525-532.	0.3	22
103	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> , 2021, 18, 5736.	1.2	22
104	Estimation of Real-World Vaccination Effectiveness of mRNA COVID-19 Vaccines against Delta and Omicron Variants in Japan. <i>Vaccines</i> , 2022, 10, 430.	2.1	22
105	Full-wave analysis of the field distribution of natural modes in the rectangular waveguide grating based on singular integral equation method. <i>IEEE Transactions on Plasma Science</i> , 2002, 30, 1151-1159.	0.6	21
106	Why intra-epidermal electrical stimulation achieves stimulation of small fibres selectively: a simulation study. <i>Physics in Medicine and Biology</i> , 2016, 61, 4479-4490.	1.6	21
107	End-to-end semantic segmentation of personalized deep brain structures for non-invasive brain stimulation. <i>Neural Networks</i> , 2020, 125, 233-244.	3.3	20
108	Intercomparison of Calculated Incident Power Density and Temperature Rise for Exposure From Different Antennas at 10–90 GHz. <i>IEEE Access</i> , 2021, 9, 151654-151666.	2.6	20

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109	Dosimetry Using a Localized Exposure System in the Millimeter-Wave Band for in vivo Studies on Ocular Effects. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1554-1564.	2.9	19
110	Development of accurate human head models for personalized electromagnetic dosimetry using deep learning. NeuroImage, 2019, 202, 116132.	2.1	19
111	Toward Automatic Classification of Partial Discharge Sources With Neural Networks. IEEE Transactions on Power Delivery, 2006, 21, 526-527.	2.9	18
112	Improved Heat Transfer Modeling of the Eye for Electromagnetic Wave Exposures. IEEE Transactions on Biomedical Engineering, 2007, 54, 959-961.	2.5	18
113	Computational dosimetry for grounded and ungrounded human models due to contact current. Physics in Medicine and Biology, 2013, 58, 5153-5172.	1.6	17
114	A multi-scale computational approach based on TMS experiments for the assessment of electro-stimulation thresholds of the brain at intermediate frequencies. Physics in Medicine and Biology, 2018, 63, 225006.	1.6	17
115	Group-level analysis of induced electric field in deep brain regions by different TMS coils. Physics in Medicine and Biology, 2020, 65, 025007.	1.6	17
116	Accuracy Compensation in Direction Finding Using Patch Antenna Array With EBG Structure. IEEE Antennas and Wireless Propagation Letters, 2006, 5, 1-3.	2.4	16
117	Correlation Between Absorption Cross Section and Body Surface Area of Human for Far-Field Exposure at GHz Bands. , 2007, , .		16
118	Conservative estimation of whole-body-averaged SARs in infants with a homogeneous and simple-shaped phantom in the GHz region. Physics in Medicine and Biology, 2008, 53, 7215-7223.	1.6	16
119	Computational model for calculating body-core temperature elevation in rabbits due to whole-body exposure at 2.45 GHz. Physics in Medicine and Biology, 2008, 53, 3391-3404.	1.6	16
120	Estimation of the whole-body averaged SAR of grounded human models for plane wave exposure at respective resonance frequencies. Physics in Medicine and Biology, 2012, 57, 8427-8442.	1.6	16
121	Internal electric field in pregnantâ€woman model for wireless power transfer systems in electric vehicles. Electronics Letters, 2015, 51, 2136-2137.	0.5	16
122	Risk Management of Heatstroke Based on Fast Computation of Temperature and Water Loss Using Weather Data for Exposure to Ambient Heat and Solar Radiation. IEEE Access, 2018, 6, 3774-3785.	2.6	16
123	TMS activation site estimation using multiscale realistic head models. Journal of Neural Engineering, 2020, 17, 036004.	1.8	16
124	Computational analysis of thresholds for magnetophosphenes. Physics in Medicine and Biology, 2012, 57, 6147-6165.	1.6	15
125	Evaluation method for <i>in situ</i> electric field in standardized human brain for different transcranial magnetic stimulation coils. Physics in Medicine and Biology, 2017, 62, 2224-2238.	1.6	15
126	Computational Dosimetry of the Human Head Exposed to Near-Field Microwaves Using Measured Blood Flow. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 739-746.	1.4	15



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127	SAR AND RADIATION CHARACTERISTICS OF A DIPOLE ANTENNA ABOVE DIFFERENTFINITE EBG SUBSTRATESIN THE PRESENCE OF A REALISTICHEAD MODEL IN THE 3.5 GHZ BAND. Progress in Electromagnetics Research B, 2012, 44, 53-70.	0.7	14
128	On the issues related to compliance of LF pulsed exposures with safety standards and guidelines. Physics in Medicine and Biology, 2013, 58, 8597-8607.	1.6	14
129	Exposure Assessment of Array Antennas at 28 GHz Using Hybrid Spherical Near-Field Transformation and FDTD Method. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 1690-1698.	1.4	14
130	Effect of Incidence Angle on the Spatial-Average of Incident Power Density Definition to Correlate Skin Temperature Rise for Millimeter Wave Exposures. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 1709-1716.	1.4	14
131	Computational modeling of temperature elevation and thermoregulatory response in the brains of anesthetized rats locally exposed at 1.5 GHz. Physics in Medicine and Biology, 2011, 56, 7639-7657.	1.6	13
132	Characteristics of ocular temperature elevations after exposure to quasi- and millimeter waves (18-40) Tj ETQq0 0 Q r gBT /Overlock 10 T	1.2	13
133	Folded-loop antennas for handset terminals at the 2.0-GHz band. Microwave and Optical Technology Letters, 2003, 36, 376-378.	0.9	12
134	Acute Dosimetry and Estimation of Threshold-Inducing Behavioral Signs of Thermal Stress in Rabbits at 2.45-GHz Microwave Exposure. IEEE Transactions on Biomedical Engineering, 2010, 57, 1234-1242.	2.5	12
135	EFFECTIVE RESISTANCE OF GROUNDED HUMANS FOR WHOLE-BODY AVERAGED SAR ESTIMATION AT RESONANCE FREQUENCIES. Progress in Electromagnetics Research B, 2011, 35, 15-27.	0.7	12
136	Computation of induced electric field for the sacral nerve activation. Physics in Medicine and Biology, 2013, 58, 7745-7755.	1.6	12
137	Relationship of External Field Strength With Local and Whole-Body Averaged Specific Absorption Rates in Anatomical Human Models. IEEE Access, 2018, 6, 70186-70196.	2.6	12
138	Human Head Skin Thickness Modeling for Electromagnetic Dosimetry. IEEE Access, 2019, 7, 46176-46186.	2.6	12
139	Learning-based estimation of dielectric properties and tissue density in head models for personalized radio-frequency dosimetry. Physics in Medicine and Biology, 2020, 65, 065001.	1.6	12
140	Human Head Modeling for Handset Antenna Design at 5 GHz Band. Journal of Electromagnetic Waves and Applications, 2005, 19, 401-411.	1.0	11
141	Temperature Rise for Brief Radio-Frequency Exposure Below 6 GHz. IEEE Access, 2018, 6, 65737-65746.	2.6	11
142	Estimation of Time-Course Core Temperature and Water Loss in Realistic Adult and Child Models with Urban Micrometeorology Prediction. International Journal of Environmental Research and Public Health, 2019, 16, 5097.	1.2	11
143	Knowledge discovery from emergency ambulance dispatch during COVID-19: A case study of Nagoya City, Japan. Journal of Biomedical Informatics, 2021, 117, 103743.	2.5	11
144	Multiscale Computational Model Reveals Nerve Response in a Mouse Model for Temporal Interference Brain Stimulation. Frontiers in Neuroscience, 2021, 15, 684465.	1.4	11

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145	Quasi-Static FDTD Method for Dosimetry in Human due to Contact Current. IEICE Transactions on Electronics, 2010, E93-C, 60-65.	0.3	11
146	Power Absorption and Skin Temperature Rise From Simultaneous Near-Field Exposure at 2 and 28 GHz. IEEE Access, 2021, 9, 152140-152149.	2.6	11
147	Feasibility study of adaptive nulling on handset for 4G mobile communications. IEEE Antennas and Wireless Propagation Letters, 2004, 3, 120-122.	2.4	10
148	Effects of Phase Difference in Dipole Phased-Array Antenna Above EBG Substrates on SAR. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 579-582.	2.4	10
149	Quasistatic Approximation for Exposure Assessment of Wireless Power Transfer. IEICE Transactions on Communications, 2015, E98.B, 1156-1163.	0.4	10
150	Corticomotoneuronal Model for Intraoperative Neurophysiological Monitoring During Direct Brain Stimulation. International Journal of Neural Systems, 2019, 29, 1850026.	3.2	10
151	Transient Thermal Responses of Skin to Pulsed Millimeter Waves. IEEE Access, 2020, 8, 130239-130251.	2.6	10
152	Electrical Characterisation of $\text{A}\hat{\nu}$ -Fibres Based on Human in vivo Electrostimulation Threshold. Frontiers in Neuroscience, 2020, 14, 588056.	1.4	10
153	A Study on Human Body Modeling for the Mobile Terminal Antenna Design at 400 MHz Band. Journal of Electromagnetic Waves and Applications, 2005, 19, 671-687.	1.0	9
154	Dosimetry in Japanese male and female models for a low-frequency electric field. Physics in Medicine and Biology, 2007, 52, N339-N343.	1.6	9
155	Multiphysics and Thermal Response Models to Improve Accuracy of Local Temperature Estimation in Rat Cortex under Microwave Exposure. International Journal of Environmental Research and Public Health, 2017, 14, 358.	1.2	9
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