Maxim Zhadobov

List of Publications by Year
in descending order

102	2,247	201575 27	243529 44
papers	citations	h-index	g-index

105	105	105	1528
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Millimeter-Wave Heating In Vitro: Local Microscale Temperature Measurements Correlated to Heat Shock Cellular Response. IEEE Transactions on Biomedical Engineering, 2022, 69, 840-848.	2.5	2
2	High-Resolution Model of Human Skin Appendages for Electromagnetic Dosimetry at Millimeter Waves. IEEE Journal of Microwaves, 2022, 2, 214-227.	4.9	7
3	Reconfigurable Dual-Band Capsule-Conformal Antenna Array for In-Body Bioelectronics. IEEE Transactions on Antennas and Propagation, 2022, 70, 3749-3761.	3.1	17
4	A microdosimetric study at the cellular and intracellular level using a 3D realistic cell model. , 2022, , .		3
5	Exposure Levels Induced in Curved Body Parts at mmWaves. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2022, 6, 413-419.	2.3	9
6	Enhancement of Penetration of Millimeter Waves by Field Focusing Applied to Breast Cancer Detection. IEEE Transactions on Biomedical Engineering, 2021, 68, 959-966.	2.5	16
7	A Conformal, Dynamic Pattern-Reconfigurable Antenna Using Conductive Textile-Polymer Composite. IEEE Transactions on Antennas and Propagation, 2021, 69, 6175-6184.	3.1	31
8	Local Dosimetry at Cellular and Subcellular Level in HF and Millimeter-Wave Bands. IEEE Journal of Microwaves, 2021, , 1-12.	4.9	4
9	Age-dependence of electromagnetic power and heat deposition in near-surface tissues in emerging 5G bands. Scientific Reports, 2021, 11, 3983.	1.6	6
10	Physical Bounds on Implant Powering Efficiency Using Body-Conformal WPT Systems. , 2021, , .		7
11	WBAN Channel Modeling for 900 MHz and 60 GHz Communications. IEEE Transactions on Antennas and Propagation, 2021, 69, 4083-4092.	3.1	17
12	Impact of Textile on Electromagnetic Power and Heating in Near-Surface Tissues at 26 GHz and 60 GHz. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 262-268.	2.3	12
13	High-Resolution Technique for Near-Field Power Density Measurement Accounting for Antenna/Body Coupling at Millimeter Waves. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2151-2155.	2.4	4
14	Antenna/Human Body Coupling in 5G Millimeter-Wave Bands: Do Age and Clothing Matter?. IEEE Journal of Microwaves, 2021, 1, 593-600.	4.9	9
15	A Conformal Band-Notched Ultrawideband Antenna With Monopole-Like Radiation Characteristics. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 203-207.	2.4	30
16	Optimal Frequency of Operation and Radiation Efficiency Limitations of Implantable Antennas. , 2020, , .		4
17	Effects of Radiofrequency Radiation on Gene Expression: A Study of Gene Expressions of Human Keratinocytes From Different Origins. Bioelectromagnetics, 2020, 41, 552-557.	0.9	4
18	Antenna/Body Coupling in the Near-Field at 60 GHz: Impact on the Absorbed Power Density. Applied Sciences (Switzerland), 2020, 10, 7392.	1.3	19

#	Article	IF	Citations
19	Optically Transparent Flexible Robust Circularly Polarized Antenna for UHF RFID Tags. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2334-2338.	2.4	22
20	A Resonant System for In Vitro Studies Emulating Wireless Power Transfer Exposure at 13.56â€‰MHz. Bioelectromagnetics, 2020, 41, 369-381.	0.9	2
21	Exposure Assessment in Millimeterâ€Wave Reverberation Chamber Using Murine Phantoms. Bioelectromagnetics, 2020, 41, 121-135.	0.9	2
22	Application of Fundamental In-Body Radiation Limitations to Practical Design of Antennas for Implantable Bioelectronics. , 2020, , .		1
23	Computational microdosimetry at cellular level at millimeter wave frequencies. , 2020, , .		0
24	Multifunctional Flexible Sensor Based on Laser-Induced Graphene. Sensors, 2019, 19, 3477.	2.1	66
25	Ensuring Robust and Tissue-Independent Operation of Implantable, Ingestible, and Injectable Antennas. , 2019, , .		0
26	Untargeted metabolomics unveil alterations of biomembranes permeability in human HaCaT keratinocytes upon 60â€‰GHz millimeter-wave exposure. Scientific Reports, 2019, 9, 9343.	1.6	6
27	Washing Durability of PDMS-Conductive Fabric Composite: Realizing Washable UHF RFID Tags. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2572-2576.	2.4	30
28	Millimeterâ€Wave Heating in In Vitro Studies: Effect of Convection in Continuous and Pulseâ€Modulated Regimes. Bioelectromagnetics, 2019, 40, 553-568.	0.9	7
29	Dielectric-Loaded Conformal Microstrip Antennas for Versatile In-Body Applications. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2686-2690.	2.4	30
30	Optimal Radiation of Body-Implanted Capsules. Physical Review Letters, 2019, 122, 108101.	2.9	33
31	Influence of Body-Implanted Capsule Dimensions and Materials on Achievable Radiation Efficiency. , 2019, , .		1
32	Radiation Performance of Highly Miniaturized Implantable Devices. , 2019, , .		0
33	Millimeter-wave pulsed heating in vitro: cell mortality and heat shock response. Scientific Reports, 2019, 9, 15249.	1.6	9
34	Immune-to-Detuning Wireless In-Body Platform for Versatile Biotelemetry Applications. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 403-412.	2.7	30
35	Tissue-mimicking materials for breast phantoms up to 50 GHz. Physics in Medicine and Biology, 2019, 64, 055006.	1.6	43
36	Electromagnetic Radiation Efficiency of Body-Implanted Devices. Physical Review Applied, 2018, 9, .	1.5	45

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37	Local Dosimetry Applied to Wireless Power Transfer Around 10 MHz: Dependence on EM Parameters and Tissues Morphology. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2018, 2, 123-130.	2.3	8
38	Untargeted Metabolomics Reveal Lipid Alterations upon 2-Deoxyglucose Treatment in Human HaCaT Keratinocytes. Journal of Proteome Research, 2018, 17, 1146-1157.	1.8	5
39	Millimeter-Wave Technologies for Body-Centric Applications. , 2018, , .		4
40	Impact of Tissue Electromagnetic Properties on Radiation Performance of In-Body Antennas. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1440-1444.	2.4	35
41	Design and Calibration of a mm-Wave Personal Exposure Meter for 5G Exposure Assessment in Indoor Diffuse Environments. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 1264-1282.	1.2	2
42	Thermal Model of Electromagnetic Skin-Equivalent Phantom at Millimeter Waves. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1036-1045.	2.9	7
43	Impact of Antenna Topology and Feeding Technique on Coupling With Human Body: Application to 60-GHz Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2017, 65, 6779-6787.	3.1	26
44	Wireless power transfer: Are children more exposed than adults?. , 2017, , .		5
45	Evaluation of currents induced in human body by plane wave exposure at 1â€“90 MHz. , 2017, , .		1
46	434 MHz ISM band antenna for in-body biotelemetry capsules. , 2017, , .		8
47	Effect of acute millimeter wave exposure on dopamine metabolism of NGF-treated PC12 cells. Journal of Radiation Research, 2017, 58, 439-445.	0.8	10
48	Robust Ultraminiature Capsule Antenna for Ingestible and Implantable Applications. IEEE Transactions on Antennas and Propagation, 2017, 65, 6107-6119.	3.1	93
49	Design Methodology of a Printed WPT System for HF-Band Mid-Range Applications Considering Human Safety Regulations. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 270-279.	2.9	23
50	Microscale temperature and SAR measurements in cell monolayer models exposed to millimeter waves. Bioelectromagnetics, 2017, 38, 11-21.	0.9	12
51	Near-Field User Exposure in Forthcoming 5G Scenarios in the 60 GHz Band. IEEE Transactions on Antennas and Propagation, 2017, 65, 6606-6615.	3.1	23
52	Personal Exposimeter for Radiation Assessment in Real Environments in the 60-GHz Band. Radiation Protection Dosimetry, 2017, 176, 316-321.	0.4	3
53	Conformal antennas for miniature in-body devices: The quest to improve radiation performance. URSI Radio Science Bulletin, 2017, 2017, 52-64.	0.2	18
54	Design and Calibration of A 60-GHz Personal Exposimeter for Exposure Assessment in Specular and Diffuse Environments. , 2017, , .		0

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55	Experimental Dosimetry in a Mode-Stirred Reverberation Chamber in the 60-GHz Band. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 981-992.	1.4	10
56	Impact of 60â€GHz millimeter waves on stress and painâ€related protein expression in differentiating neuronâ€like cells. Bioelectromagnetics, 2016, 37, 444-454.	0.9	9
57	Increasing the radiation efficiency and matching stability of in-body capsule antennas. , 2016, , .		16
58	Wireless power transfer in presence of a body. , 2016, , .		0
59	Millington Effect and Propagation Enhancement in 60-GHz Body Area Networks. IEEE Transactions on Antennas and Propagation, 2016, 64, 776-781.	3.1	2
60	Effects of 60-GHz millimeter waves on neurite outgrowth in PC12 cells using high-content screening. Neuroscience Letters, 2016, 618, 58-65.	1.0	12
61	Additive Effects of Millimeter Waves and 2-Deoxyglucose Co-Exposure on the Human Keratinocyte Transcriptome. PLoS ONE, 2016, 11, e0160810.	1.1	15
62	Millimeter waves as a source of selective heating of skin. Bioelectromagnetics, 2015, 36, 464-475.	0.9	22
63	Thermal model of skin-equivalent phantoms at 60 GHz. , 2015, , .		2
64	On-body propagation characterization with an H-plane Substrate Integrated Waveguide (SIW) horn antenna at 60 GHz. , 2015, , .		12
65	Design and Experimental Validation of a Mode-Stirred Reverberation Chamber at Millimeter Waves. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 12-21.	1.4	25
66	Beam-Forming Capabilities of Waveguide Feeds Assisted by Corrugated Flanges. IEEE Transactions on Antennas and Propagation, 2015, 63, 5548-5560.	3.1	6
67	End-Fire Antenna for BAN at 60 GHz: Impact of Bending, On-Body Performances, and Study of an On to Off-Body Scenario. Electronics (Switzerland), 2014, 3, 221-233.	1.8	12
68	Enhancement of On-Body Propagation at 60 GHz Using Electro Textiles. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 603-606.	2.4	23
69	Tissue-equivalent phantoms in the 60-GHz band and their application to the body-centric propagation studies. , 2014, , .		2
70	On-body propagation at 60 GHz: Impact of a textile presence. , 2014, , .		1
71	Impact of 60â€GHz millimeter waves and corresponding heat effect on endoplasmic reticulum stress sensor gene expression. Bioelectromagnetics, 2014, 35, 444-451.	0.9	21
72	Effect of Textile on the Propagation Along the Body at 60 GHz. IEEE Transactions on Antennas and Propagation, 2014, 62, 1489-1494.	3.1	31

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73	Annular Cavity Horn Antenna Provides a Fivefold Increase of the Power Density in BEM Experiments in the 60-GHz Band. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1693-1696.	2.4	3
74	Solid Phantom for Body-Centric Propagation Measurements at 60 GHz. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1373-1380.	2.9	21
75	Transcriptome Analysis Reveals the Contribution of Thermal and the Specific Effects in Cellular Response to Millimeter Wave Exposure. PLoS ONE, 2014, 9, e109435.	1.1	29
76	Enhancing Exposure Efficiency and Uniformity Using a Choke Ring Antenna: Application to Bioelectromagnetic Studies at 60 GHz. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2005-2014.	2.9	15
77	Exposure System and Dosimetry for In Vitro Studies of Biocompatibility of Pulse-Modulated RF Signals of Ultrahigh Field MRI. IEEE Transactions on Biomedical Engineering, 2013, 60, 3167-3175.	2.5	5
78	60-GHz Textile Antenna Array for Body-Centric Communications. IEEE Transactions on Antennas and Propagation, 2013, 61, 1816-1824.	3.1	81
79	On-Body Propagation at 60 GHz. IEEE Transactions on Antennas and Propagation, 2013, 61, 1876-1888.	3.1	67
80	State of knowledge on biological effects at 40â€“60 GHz. Comptes Rendus Physique, 2013, 14, 402-411.	0.3	30
81	Study of propagation along the body at 60 GHz with analytical models and skin-equivalent phantoms. , 2013, , .		0
82	Characterization of the Interactions Between a 60-GHz Antenna and the Human Body in an Off-Body Scenario. IEEE Transactions on Antennas and Propagation, 2012, 60, 5958-5965.	3.1	76
83	Wearable Endfire Textile Antenna for On-Body Communications at 60 GHz. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 799-802.	2.4	106
84	New Method for Determining Dielectric Properties of Skin and Phantoms at Millimeter Waves Based on Heating Kinetics. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 827-832.	2.9	33
85	Complex permittivity of representative biological solutions in the 2â€“67â€‰GHz range. Bioelectromagnetics, 2012, 33, 346-355.	0.9	34
86	Broadband Tissue-Equivalent Phantom for BAN Applications at Millimeter Waves. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2259-2266.	2.9	61
87	Nearâ€field dosimetry for in vitro exposure of human cells at 60â€‰GHz. Bioelectromagnetics, 2012, 33, 55-64.	0.9	31
88	Wholeâ€genome expression analysis in primary human keratinocyte cell cultures exposed to 60â€‰GHz radiation. Bioelectromagnetics, 2012, 33, 147-158.	0.9	31
89	A Compact UWB Antenna for On-Body Applications. IEEE Transactions on Antennas and Propagation, 2011, 59, 1123-1131.	3.1	217
90	Millimeter-wave interactions with the human body: state of knowledge and recent advances. International Journal of Microwave and Wireless Technologies, 2011, 3, 237-247.	1.5	187

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91	Electromagnetic dosimetry for adult and child models within a car: multi-exposure scenarios. International Journal of Microwave and Wireless Technologies, 2011, 3, 707-715.	1.5	18
92	Improvement of the on-body performance of a dual-band textile antenna using an EBG structure. , 2010, , .		20
93	Design and characterization of an UWB wearable antenna. , 2010, , .		13
94	Study of narrow band millimeterâ€wave potential interactions with endoplasmic reticulum stress sensor genes. Bioelectromagnetics, 2009, 30, 365-373.	0.9	20
95	Absence of direct effect of low-power millimeter-wave radiation at 60.4 GHz on endoplasmic reticulum stress. Cell Biology and Toxicology, 2009, 25, 471-478.	2.4	22
96	Evaluation of the Potential Biological Effects of the 60-GHz Millimeter Waves Upon Human Cells. IEEE Transactions on Antennas and Propagation, 2009, 57, 2949-2956.	3.1	44
97	Numerical and experimental approaches to millimeter-wave dosimetry for in vitro experiments. , 2008, , .		0
98	Numerical and Experimental Millimeter-Wave Dosimetry for In Vitro Experiments. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2998-3007.	2.9	35
99	Do millimeter waves alter biomembranes non-thermally?. , 2006, , .		0
100	<title>Application of acoustical thermometry to noninvasive monitoring of internal temperature during laser hyperthermia</title>. , 2002, 4618, 38.		0
101	ABT-controllable laser hyperthermia of biological objects. , 2002, , .		0
102	Antennas for Body Centric Wireless Communications at Millimeter Wave Frequencies. , 0, , .		14