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The dielectric properties of biological tissues: II. Measurements in the frequency range 10 Hz to 20 GHz

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1424	Use of tailored higher modes of a birdcage to design a simple double-tuned proton/phosphorus coil for human calf muscle studies at 7 T. <b>2011</b> , 39B, 89-97	5
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1419	Electrical characterization of single cell in microfluidic device. <b>2011</b> , 51, 781-789	8
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1409	Magnetic stimulation for fracture consolidationclinical study. <b>2011</b> , 2011, 1141-4	3
1408	A comparison of induced electric fields in child and adult head models by transcranial magnetic stimulation. <b>2011</b> ,	1
1407	Channel characterization for galvanic coupled in vivo biomedical devices. 2011,	6
1406	Effects of noise on tomographic breast imaging. 2011,	3
1405	Compact Resonators for Permittivity Reconstruction of Biological Tissues. <b>2011</b> ,	5

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1401	A Shape-Based Inversion Algorithm Applied to Microwave Imaging of Breast Tumors. <b>2011</b> , 59, 3719-3729	5
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1355	A simple wristband based on capacitive sensors for recognition of complex hand motions. <b>2012</b> ,	4
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1308	Design and near-field characterization of a planar on-body UWB slot-antenna for stroke detection. <b>2012</b> ,		4
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1298	Transmission characteristics between wearable and embedded transceivers based on near-field coupling: Body-channel communication system for human-area networking. <b>2012</b> ,		1
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1294	Implantable multilayer microstrip antenna for retinal prosthesis: antenna testing. <b>2012</b> , 2012, 1679-82	1
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1284	Role of human variability on the estimation of the electric field and of the current density during transcranial direct current stimulation. <b>2012</b> ,	1
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1270	A wireless magnetoresistive sensing system for an intraoral tongue-computer interface. <b>2012</b> , 6, 571-85	51
1269	Determining the Relative Permittivity of Deep Embedded Biological Tissues. <b>2012</b> , 11, 1694-1697	17
1268	3-D Microwave Magnitude Combined Tomography for Breast Cancer Detection Using Realistic Breast Models. <b>2012</b> , 11, 1622-1625	19
1267	A Small Implantable Antenna for MedRadio and ISM Bands. <b>2012</b> , 11, 1683-1685	16
1266	Miniature Scalp-Implantable Antennas for Telemetry in the MICS and ISM Bands: Design, Safety Considerations and Link Budget Analysis. <b>2012</b> , 60, 3568-3575	185
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1259	A comparison of microelectrodes for a visual cortical prosthesis using finite element analysis. <b>2012</b> , 5, 23	16
1258	MICROWAVE CONTRAST IMAGING OF BREAST TISSUE FROM LOCAL VELOCITY ESTIMATION. <b>2012</b> , 42, 381-403	9
1257	High-Gain Textile Antenna Array System for Off-Body Communication. <b>2012</b> , 2012, 1-12	7
1256	AN INTERACTION STUDY BETWEEN PIFAS HANDSET ANTENNA AND A HUMAN HAND-HEAD IN PERSONAL COMMUNICATIONS. <b>2012</b> , 37, 21-42	11
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1252	THREE-DIMENSIONAL FDTD ANALYSIS OF THE DUAL-BAND IMPLANTABLE ANTENNA FOR CONTINUOUS GLUCOSE MONITORING. <b>2012</b> , 28, 9-21	15
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1247	Thermal, dynamic mechanical, and dielectric analyses of some polyurethane biocomposites. <b>2012</b> , 27, 119-29	12
1246	Novel method of detecting cholesterol using microwaves. <b>2012</b> , 54, 1212-1215	2
1245	Coaxial waveguide MRI. <b>2012</b> , 67, 1173-82	13
1244	A 4-h hyperglycaemic excursion induces rapid and slow changes in major electrolytes in blood in healthy human subjects. <b>2012</b> , 49, 333-9	1
1243	Detection and localization of tissue malignancy using contrast-enhanced microwave imaging: exploring information theoretic criteria. <b>2012</b> , 59, 766-76	32

1242	Electric field and current density distribution in an anatomical head model during transcranial direct current stimulation for tinnitus treatment. <b>2012</b> , 33, 476-87	41
1241	In vivo measurements of electrical conductivity of porcine organs at low frequency: new method of measurement. <b>2012</b> , 33, 612-9	4
1240	Underestimation of Murine Cardiac Hemodynamics Using Invasive Catheters: Errors, Limitations, and Remedies. <b>2012</b> , 3, 179-193	1
1239	Improved conductivity image of human lower extremity using MREIT with chemical shift artifact correction. <b>2012</b> , 2, 62-68	6
1238	Microwave tomography analysis system for breast tumor detection. <b>2012</b> , 36, 1757-67	14
1237	Where does transcranial magnetic stimulation (TMS) stimulate? Modelling of induced field maps for some common cortical and cerebellar targets. <b>2012</b> , 50, 671-81	76
1236	Two-dimensional dielectric imaging for dermatologic screening: a feasibility study. <b>2012</b> , 18, 324-31	3
1235	Gender differences in facial skin dielectric constant measured at 300 MHz. <b>2012</b> , 18, 504-10	20
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1231	EIT forward problem parallel simulation environment with anisotropic tissue and realistic electrode models. <b>2012</b> , 59, 1229-39	8
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1227	Error analysis of nonconstant admittivity for MR-based electric property imaging. <b>2012</b> , 31, 430-7	72
1226	A Self-Sustained Microwave System for Dielectric-Constant Measurement of Lossy Organic Liquids. <b>2012</b> , 60, 1444-1455	44
1225	Microwave thermolysis of sweat glands. <b>2012</b> , 44, 20-5	48

1224	Influence of heterogeneous and anisotropic tissue conductivity on electric field distribution in deep brain stimulation. <b>2012</b> , 50, 23-32		44
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1222	Complex B1 mapping and electrical properties imaging of the human brain using a 16-channel transceiver coil at 7T. <b>2013</b> , 69, 1285-96		58
1221	Planning of electroporation-based treatments using Web-based treatment-planning software. <b>2013</b> , 246, 833-42		29
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1219	Incidence of micronuclei in human peripheral blood lymphocytes exposed to modulated and unmodulated 2450 MHz radiofrequency fields. <b>2013</b> , 34, 542-8		11
1218	Review of current thermal ablation treatment for lung cancer and the potential of electrochemotherapy as a means for treatment of lung tumours. <b>2013</b> , 39, 862-71		48
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95	A reformulation of the brains magneto-quasistatic approximation and a formalism for the long-distance magnetic field generated by populations of neurons. <b>2022</b> , 132, 174701	O
94	Compact On-Body Antenna with Modified Ground for WiMAX and X-band Applications. 2022, 67, 1379-1387	О
93	A Packaged Multiplexed Fluorescent Bio-molecular Sensor Array and Ultra-Low-Power Wireless Interface in CMOS for Ingestible Electronic Applications. <b>2022</b> , 1-1	O
92	Radiation Characteristic Analysis of Antenna Deeply Implanted in Human Body and Localization Sensor Array. <b>2022</b> , 71, 1-12	O
91	Improved Magneto-acousto-electrical Computed Tomography (MAE-CT) with Multi-angle Plane Wave Excitation. <b>2022</b> , 1-11	O

90	A closed-loop automated craniotomy system with real-time bio-impedance feedback. <b>2022</b> , 1-1	0
89	An Energy-Efficient and High-Data-Rate IR-UWB Transmitter for Intracortical Neural Sensing Interfaces. <b>2022</b> , 1-13	1
88	Design of a Tetrapolar Probe for Electrical Characterization of the Left Atrial Appendage from 0.1 Hz to 100 kHz. <b>2022</b> , 1-1	0
87	Parasitic Capacitance Associated With Inductive Sensors Used in MIT Imaging. 2022, 1-1	O
86	Design and Analysis of a Flexible Smart Apparel MIMO Antenna for Bio-Healthcare Applications. <b>2022</b> , 13, 1919	4
85	Real-Time Detection and 3D Localization of Coronary Atherosclerosis Using a Microwave Imaging Technique: A Simulation Study. <b>2022</b> , 22, 8822	O
84	Design and Experimental Validation of a Non-invasive Glucose Monitoring System using RF Antenna-based Biosensor. <b>2022</b> , 1-1	O
83	Output Power Computation and Adaptation Strategy of an Electrosurgery Inverter for Reduced Collateral Tissue Damage. <b>2022</b> , 1-12	O
82	Integrated silicon microfluidic chip for picoliter-scale analyte segmentation and microscale printing for mass spectrometry imaging. <b>2022</b> , 23, 72-80	О
81	BIMMS: A versatile and portable system for biological tissue and electrode-tissue interface electrical characterization. <b>2023</b> , 13, e00387	O
80	A Multi-Frequency 3D Printed Hand Phantom for Electromagnetic Measurements. <b>2022</b> , 11, 49-54	0
79	WiID: Precise WiFi-based Person Identification via Bio-electromagnetic Information. 2022,	O
78	Using tissue-specific numerical models to estimate the dielectric properties of cartilage. 2022,	0
77	Aggregation of polymeric polysaccharide-based nanoparticles as a challenge in microwave tomography targetting breast cancer. <b>2022</b> ,	O
76	Reflective-Mode Submersible Microwave Sensor. 2022,	О
75	Can 900 MHz and 2100 MHz radiofrequency radiation exposure induce endoplasmic reticulum stress and apoptosis in rat thymus?. 1-10	0
74	Computational modeling of endovascular peripheral nerve stimulation using a stent-mounted electrode array.	0
73	FPGA Implementation of ECG Signal Processing for Use in a Neonatal Heart Rate Monitoring System.	О

72	Sampling effects and measurement overlap can bias the inference of neuronal avalanches. <b>2022</b> , 18, e1010678	О
71	Age Dependent Exposure Estimation Using Numerical Methods. 2022, 77-114	О
70	Gradient-Boosting Algorithm for Microwave Breast Lesion Classification BAFE Clinical Investigation. <b>2022</b> , 12, 3151	0
69	Assessment of EMF Human Exposure Levels Due to Wearable Antennas at 5G Frequency Band. <b>2023</b> , 23, 104	o
68	Motor Unit properties do not correlate between MUNIX and needle EMG in remote polio in the biceps brachii muscle. <b>2022</b> ,	0
67	Simulation-Based Designing of Suitable Stimulation Factors for Presenting Two Phosphenes Simultaneously to Lower Side of Field of View. <b>2022</b> , 9, 752	o
66	Cervical Tissue Hydration Level Monitoring by a Resonant Microwave Coaxial Probe. <b>2022</b> , 22, 9527	О
65	Design and Analysis of UWB MIMO Antenna for Smart Fabric Communications. <b>2022</b> , 2022, 1-14	О
64	Limiting exposure to radiofrequency radiation: the principles and possible criteria for health protection. 1-26	0
63	Machine Learning-Based Classification of Abnormal Liver Tissues Using Relative Permittivity. <b>2022</b> , 22, 9919	1
62	Microwave Breast Lesion Classification [Results from Clinical Investigation of the SAFE Microwave Breast Cancer System. <b>2022</b> ,	0
61	Evaluation of electromagnetic fields in human body exposed to inverter of pure electric vehicle.	О
60	A self-biased, low-frequency, miniaturized magnetoelectric antenna for implantable medical device applications. <b>2023</b> , 122, 014102	1
59	Quasi-static approximation error of electric field analysis for transcranial current stimulation.	1
58	A high accuracy voltage approximation model based on object-oriented sensitivity matrix estimation (OO-SME model) in electrical impedance tomography. <b>2023</b> , 13, 106-115	o
57	Magnetic Induction Tomography: Separation of the Ill-Posed and Non-Linear Inverse Problem into a Series of Isolated and Less Demanding Subproblems. <b>2023</b> , 23, 1059	О
56	Evaluation of Chinese populational exposure to environmental electromagnetic field based on stochastic dosimetry and parametric human modelling.	0
55	Design of Ultra-Wideband Phased Array Applicator for Breast Cancer Hyperthermia Therapy. <b>2023</b> , 23, 1051	1

54	Neuromodulation model based on multi-electrode combined electrical stimulation and analysis of signal conduction mechanism.	O
53	Gastric functional monitoring by gastric electrical impedance tomography (gEIT) suit with dual-step fuzzy clustering. <b>2023</b> , 13,	O
52	Layered, tunable graphene oxide-nylon composite heterostructures for wearable electrocardiogram sensors. <b>2023</b> , 122, 013701	O
51	On the Use of Impedance Detuning for Gastrointestinal Segment Tracking of Ingestible Capsules. <b>2023</b> , 1-1	O
50	Measuring the effects of diethyl phthalate microplastics on marine algae growth using dielectric spectroscopy. <b>2023</b> , 865, 161221	O
49	Opto-electromechanical quantification of epithelial barrier function in injured and healthy airway tissues. <b>2023</b> , 7, 016104	O
48	Characterization of Dielectric Properties of 3D printing Materials for Solid Biomedical Phantoms. <b>2022</b> ,	O
47	Role of the lipid bilayer at the dielectric relaxations in human erythrocytes.	O
46	A multiscale computational model of skeletal muscle electroporation validated using in situ porcine experiments. <b>2023</b> , 1-12	O
45	Implantable Direct Current Neural Modulation. <b>2023</b> , 787-823	O
44	A linearized integral equation reconstruction method of admittivity distributions using Electrical Impedance Tomography. <b>2023</b> , 150, 103-110	O
43	Effect of Human Brain Tissue Electrical Conductivity on Performance of Head Microwave Imaging. <b>2022</b> ,	O
42	Performance Analysis of a Compact Dual-band UWB Patch Antenna for Biomedical Applications. <b>2022</b> ,	0
41	Microwave-induced thermoacoustic imaging for biomedical applications. <b>2023</b> , 98, 032001	O
40	Field and Temperature Shaping for Microwave Hyperthermia: Recent Treatment Planning Tools to Enhance SAR-Based Procedures. <b>2023</b> , 15, 1560	O
39	Three-dimensional magneto-acousto-electrical tomography (3D MAET) with single-element ultrasound transducer and coded excitation: A phantom validation study. <b>2023</b> , 536, 80-89	O
38	Robust morris screening method (RMSM) for complex physiological models. <b>2023</b> , 231, 107368	O
37	Lateral cerebellothalamic tract activation underlies DBS therapy for Essential Tremor. <b>2023</b> , 16, 445-455	O

36	Design and Modeling of Ultra-Compact Wideband Implantable Antenna for Wireless ISM Band. <b>2023</b> , 10, 216	О
35	A flexible 8.5 MHz litz wire receive array for field-cycling imaging. 2023, 68, 055016	O
34	Ultra-wide band radar for prospective respiratory motion correction in the liver. 2023, 68, 055021	O
33	Measurement of extracellular volume fraction using magnetic resonance-based conductivity tensor imaging. 14,	O
32	An Ingestible Pill With CMOS Fluorescence Sensor Array, Bi-Directional Wireless Interface and Packaged Optics for In-Vivo Bio-Molecular Sensing. <b>2023</b> , 1-17	O
31	Repeatability and Reproducibility Uncertainty in Magnetic Resonance-Based Electric Properties Tomography of a Homogeneous Phantom. <b>2023</b> , 9, 420-435	O
30	Measurement of extracellular volume fraction using magnetic resonance-based conductivity tensor imaging. 14,	0
29	Novel Sensing Technique for Stem Cells Differentiation Using Dielectric Spectroscopy of Their Proteins. <b>2023</b> , 23, 2397	O
28	Bioresorbable, wireless, and battery-free system for electrotherapy and impedance sensing at wound sites. <b>2023</b> , 9,	0
27	3D printable phantom for mimicking electrical properties of dermal tissue.	O
26	Applications of Microwaves in Medicine Leveraging Artificial Intelligence: Future Perspectives. <b>2023</b> , 12, 1101	O
25	High frequency conductivity decomposition by solving physically constraint underdetermined inverse problem in human brain. <b>2023</b> , 13,	O
24	Dielectric Properties of Blood Cells as Biomarkers for Stroke Diagnostics. 2023, 17-38	0
23	Sensing Technologies for Extravasation Detection: A Review. <b>2023</b> , 8, 1017-1032	O
22	Contact-Free, Passive, Electromagnetic Resonant Sensors for Enclosed Biomedical Applications: A Perspective on Opportunities and Challenges. <b>2023</b> , 8, 943-955	O
21	A Tuned Microwave Resonant System for Subcutaneous Imaging. <b>2023</b> , 23, 3090	O
20	Electromagnetic Wave Absorption in the Human Head: A Virtual Sensor Based on a Deep-Learning Model. <b>2023</b> , 23, 3131	О
19	Discrimination between human normal renal tissue and renal cell carcinoma by dielectric properties using in-vitro BIA. 14,	O

18	Specific absorption rate (SAR) simulations for low-field (< 0.1 T) MRI systems.	O
17	Understanding the neural mechanisms of emotion-cognition interaction via high resolution mapping in space, time, frequency, and information transfer.	O
16	DUAL-BAND HALF-CIRCULAR RING IMPLANTABLE ANTENNA WITH METAMATERIAL SRR FOR BIOMEDICAL APPLICATIONS. <b>2023</b> , 82, 69-86	0
15	Microwave-Based Technique for Measuring Glucose Levels in Aqueous Solutions. 2023,	O
14	Chinese Digital Arm (CDA): A High-Precision Digital Arm for Electrical Stimulation Simulation. <b>2023</b> , 10, 374	О
13	Finite velocity of ECG signal propagation: preliminary theory, results of a pilot experiment and consequences for medical diagnosis. <b>2023</b> , 13,	O
12	A pilot study on intracerebral hemorrhage imaging based on electrical capacitance tomography. 11,	0
11	Dielectric and Biological Characterization of Liver Tissue in a High-Fat Diet Mouse Model. <b>2023</b> , 23, 3434	O
10	Bivariate polynomial for time-dependent dielectric properties of ex-vivo porcine and human liver tissue at frequencies below 100 MHz. <b>2023</b> , 34, 074003	O
9	Repeatability of brain phase-based magnetic resonance electric properties tomography methods and effect of compressed SENSE and RF shimming.	Ο
8	Ultra-wideband wearable antenna based on composite materials. 2023, 34,	O
7	On the Sensitivity of Bevelled and Conical Coaxial Needle Probes for Dielectric Spectroscopy. <b>2023</b> , 72, 1-9	O
6	Neuronal cable equations derived from the hydrodynamic motion of charged particles. 2023, 74,	O
5	AkciBr t⊞Etespiti iIh mikrodalga sistem tasar⊞m⊞ ve analizler.	Ο
4	Z-Ring: Single-Point Bio-Impedance Sensing for Gesture, Touch, Object and User Recognition. 2023,	O
3	Radio wave/microwave-involved methods for cancer diagnosis. 2023, 1-64	O
2	Modeling Electric Fields in Transcutaneous Spinal Direct Current Stimulation: A Clinical Perspective. <b>2023</b> , 11, 1283	0
1	An Efficient Non-invasive Blood Glucose Measurement Using Microwave Antennas. <b>2023</b> , 213-221	O