Thom F Oostendorp

List of Publications by Year
in descending order

59	2,315	394421	223800
papers	citations	19 h-index	46 g-index

59	59	59	2377
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modeling the His-Purkinje Effect in Non-invasive Estimation of Endocardial and Epicardial Ventricular Activation. Annals of Biomedical Engineering, 2022, 50, 343-359.	2.5	6
2	Research in Actionâ€"Studentsâ€™ Perspectives on the Integration of Research Activities in Undergraduate Biomedical Curricula. Medical Science Educator, 2021, 31, 371-374.	1.5	2
3	ASH: an Automatic pipeline to generate realistic and individualized chronic Stroke volume conduction Head models. Journal of Neural Engineering, 2021, 18, 044001.	3.5	12
4	Comparing Non-invasive Inverse Electrocardiography With Invasive Endocardial and Epicardial Electroanatomical Mapping During Sinus Rhythm. Frontiers in Physiology, 2021, 12, 730736.	2.8	7
5	A Method to Experimentally Estimate the Conductivity of Chronic Stroke Lesions: A Tool to Individualize Transcranial Electric Stimulation. Frontiers in Human Neuroscience, 2021, 15, 738200.	2.0	5
6	Ex vivo Validation of Noninvasive Epicardial and Endocardial Repolarization Mapping. Frontiers in Physiology, 2021, 12, 737609.	2.8	2
7	FEMfuns: A Volume Conduction Modeling Pipeline that Includes Resistive, Capacitive or Dispersive Tissue and Electrodes. Neuroinformatics, 2020, 18, 569-580.	2.8	11
8	In silico validation of electrocardiographic imaging to reconstruct the endocardial and epicardial repolarization pattern using the equivalent dipole layer source model. Medical and Biological Engineering and Computing, 2020, 58, 1739-1749.	2.8	6
9	Adriaan van Oosterom, PhD. Heart Rhythm, 2019, 16, e299.	0.7	0
10	Spatial Downsampling of Surface Sources in the Forward Problem of Electrocardiography. Lecture Notes in Computer Science, 2019, , 29-36.	1.3	6
11	Correcting Undersampled Cardiac Sources in Equivalent Double Layer Forward Simulations. Lecture Notes in Computer Science, 2019, 11504, 147-155.	1.3	4
12	Assessment of the equivalent dipole layer source model in the reconstruction of cardiac activation times on the basis of BSPMs produced by an anisotropic model of the heart. Medical and Biological Engineering and Computing, 2018, 56, 1013-1025.	2.8	18
13	Modeling the Accumulation of Degradable Polymer Drug Carriers in the Brain. ChemMedChem, 2018, 13, 1308-1310.	3.2	2
14	Experimental Validation of Noninvasive Epicardial and Endocardial Activation Imaging. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e004104.	4.8	25
15	Multimodal Source Imaging: Basic Methods, Signal Processing Techniques, and Applications. IEEE Transactions on Biomedical Engineering, 2016, 63, 2550-2551.	4.2	2
16	Ventricular fibrillation waveform characteristics differ according to the presence of a previous myocardial infarction: A surface ECG study in ICD-patients. Resuscitation, 2015, 96, 239-245.	3.0	13
17	The coil orientation dependency of the electric field induced by TMS for M1 and other brain areas. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 47.	4.6	107
18	Characteristics of ventricular fibrillation in relation to cardiac aetiology and shock success: A waveform analysis study in ICD-patients. Resuscitation, 2015, 86, 95-99.	3.0	7

#	Article	IF	Citations
19	The effect of local anatomy on the electric field induced by TMS: evaluation at 14 different target sites. Medical and Biological Engineering and Computing, 2014, 52, 873-883.	2.8	43
20	Simulating Transcranial Direct Current Stimulation With a Detailed Anisotropic Human Head Model. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 441-452.	4.9	172
21	Single-Layer Skull Approximations Perform Well in Transcranial Direct Current Stimulation Modeling. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 346-353.	4.9	19
22	Towards a model-based integration of co-registered electroencephalography/functional magnetic resonance imaging data with realistic neural population meshes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3785-3801.	3.4	41
23	Potential applications of the new ECGSIM. Journal of Electrocardiology, 2011, 44, 577-583.	0.9	16
24	Noninvasive detection of epicardial and endocardial activity of the heart. Netherlands Heart Journal, 2011, 19, 488-491.	0.8	7
25	On handling the layered structure of the skull in transcranial direct current stimulation models. , 2011, 2011, 1989-92.		2
26	Connecting Mean Field Models of Neural Activity to EEG and fMRI Data. Brain Topography, 2010, 23, 139-149.	1.8	93
27	Realistic mean field forward predictions for the integration of co-registered EEG/fMRI. BMC Neuroscience, 2009, 10, .	1.9	2
28	Non-Invasive Imaging of Cardiac Activation and Recovery. Annals of Biomedical Engineering, 2009, 37, 1739-1756.	2.5	141
29	Application of the fastest route algorithm in the interactive simulation of the effect of local ischemia on the ECG. Medical and Biological Engineering and Computing, 2009, 47, 11-20.	2.8	42
30	Method for guiding the ablation catheter to the ablation site: a simulation and experimental study. Medical and Biological Engineering and Computing, 2009, 47, 267-278.	2.8	8
31	A generic model of overall heart geometry for model based studies of electrical, mechanical, and ion-kinetics aspects of the heart. IFMBE Proceedings, 2009, , 2548-2551.	0.3	0
32	Modeling transcranial DC stimulation. , 2008, 2008, 4226-9.		19
33	Model-based inferences for clinical applications of the ECG. Journal of Electrocardiology, 2007, 40, S17-S18.	0.9	1
34	Applicability of the Single Equivalent Moving Dipole Model in an Infinite Homogeneous Medium to Identify Cardiac Electrical Sources: A Computer Simulation Study in a Realistic Anatomic Geometry Torso Model. IEEE Transactions on Biomedical Engineering, 2006, 53, 2436-2444.	4.2	17
35	ECGSIM: an Interactive Tool for the Study of the Relation between the Electric Activity of the Heart and the QRST Waveforms at the Body Surface. , 2004, 2004, 3559-62.		4
36	Noninvasive determination of the activation sequence of the heart: Application to patients with previous myocardial infarctions. Journal of Electrocardiology, 2002, 35, 75-80.	0.9	13

#	Article	IF	Citations
37	Validating the boundary element method for forward and inverse EEG computations in the presence of a hole in the skull. Human Brain Mapping, 2002, 17, 179-192.	3.6	304
38	The conductivity of the human skull: results of in vivo and in vitro measurements. IEEE Transactions on Biomedical Engineering, 2000, 47, 1487-1492.	4.2	399
39	Modelling surface potentials from intracochlear electrical stimulation. Scandinavian Audiology, 1999, 28, 249-255.	0.5	14
40	Interictal spike localization using a standard realistic head model: simulations and analysis of clinical data. Clinical Neurophysiology, 1999, 110, 846-855.	1.5	22
41	Electrical Impedance of the Cochlear Implant Lubricants Hyaluronic Acid, Oxycellulose, and Glycerin. Annals of Otology, Rhinology and Laryngology, 1997, 106, 653-656.	1.1	7
42	The effect of blood flow on oxygen extraction pressures calculated in a model of pointlike erythrocyte sources for rat heart. Mathematical Biosciences, 1996, 131, 23-49.	1.9	3
43	Reconsidering the Effect of Local Plasma Convection in a Classical Model of Oxygen Transport in Capillaries. Microvascular Research, 1996, 51, 39-50.	2.5	14
44	Correction to "The Surface Laplacian of the Potential: Theory and Application". IEEE Transactions on Biomedical Engineering, 1996, 43, 866.	4.2	1
45	The surface Laplacian of the potential: theory and application. IEEE Transactions on Biomedical Engineering, 1996, 43, 394-405.	4.2	96
46	The effect of separate red blood cells on capillary tissue oxygenation calculated with a numerical model. Mathematical Medicine and Biology, 1996, 13, 259-274.	1.2	4
47	Plasma Mixing is Likely to Affect Capillary Oxygen Transport in Hard Working Rat Heart. Advances in Experimental Medicine and Biology, 1996, 388, 155-160.	1.6	0
48	Lead system transformation for pooling of body surface map data: a surface laplacian approach. Journal of Electrocardiology, 1995, 28, 344-345.	0.9	12
49	Mathematical model of erythrocytes as point-like sources. Mathematical Biosciences, 1995, 125, 165-189.	1.9	20
50	Identifying Electrode Failures with Cochlear Implant Generated Surfaces Potentials. Ear and Hearing, 1994, 15, 330-338.	2.1	20
51	Cochlear Implant Generated Surface Potentials. Ear and Hearing, 1994, 15, 339-345.	2.1	28
52	The potential distribution generated by surface electrodes in inhomogeneous volume conductors of arbitrary shape. IEEE Transactions on Biomedical Engineering, 1991, 38, 409-417.	4.2	42
53	The magnetocardiogram as derived from electrocardiographic data.. Circulation Research, 1990, 67, 1503-1509.	4.5	44
54	The fetal ECG throughout the second half of gestation. Clinical Physics and Physiological Measurement: an Official Journal of the Hospital Physicists' Association, Deutsche Gesellschaft Fur Medizinische Physik and the European Federation of Organisations for Medical Physics, 1989, 10, 147-160.	0.5	25

#	Article	IF	Citations
55	Electrical properties of tissues involved in the conduction of foetal ECG. Medical and Biological Engineering and Computing, 1989, 27, 322-324.	2.8	39
56	Source parameter estimation in inhomogeneous volume conductors of arbitrary shape. IEEE Transactions on Biomedical Engineering, 1989, 36, 382-391.	4.2	205
57	Interpolation on a triangulated 3D surface. Journal of Computational Physics, 1989, 80, 331-343.	3.8	125
58	The potential distribution generated by the fetal heart at the maternal abdomen. Journal of Perinatal Medicine, 1986, 14, 435-444.	1.4	16
59	Impaired Body Surface Electrode Contact Reduces Accuracy of Non-Invasive Electrocardiographic Imaging. , 0, , .		0