

# Thom F Oostendorp

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

2,315  
citations

394421

19  
h-index

223800

46  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2377  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Source parameter estimation in inhomogeneous volume conductors of arbitrary shape. IEEE Transactions on Biomedical Engineering, 1989, 36, 382-391.	4.2	205
4	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
5	Non-Invasive Imaging of Cardiac Activation and Recovery. Annals of Biomedical Engineering, 2009, 37, 1739-1756.	2.5	141
6	Interpolation on a triangulated 3D surface. Journal of Computational Physics, 1989, 80, 331-343.	3.8	125
7	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
8	The surface Laplacian of the potential: theory and application. IEEE Transactions on Biomedical Engineering, 1996, 43, 394-405.	4.2	96
9	Connecting Mean Field Models of Neural Activity to EEG and fMRI Data. Brain Topography, 2010, 23, 139-149.	1.8	93
10	The magnetocardiogram as derived from electrocardiographic data.. Circulation Research, 1990, 67, 1503-1509.	4.5	44
11	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
12	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
13	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
14	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
15	Electrical properties of tissues involved in the conduction of foetal ECG. Medical and Biological Engineering and Computing, 1989, 27, 322-324.	2.8	39
16	Cochlear Implant Generated Surface Potentials. Ear and Hearing, 1994, 15, 339-345.	2.1	28
17	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
18	Experimental Validation of Noninvasive Epicardial and Endocardial Activation Imaging. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e004104.	4.8	25

#	ARTICLE	IF	CITATIONS
19	Interictal spike localization using a standard realistic head model: simulations and analysis of clinical data. <i>Clinical Neurophysiology</i> , 1999, 110, 846-855.	1.5	22
20	Identifying Electrode Failures with Cochlear Implant Generated Surfaces Potentials. <i>Ear and Hearing</i> , 1994, 15, 330-338.	2.1	20
21	Mathematical model of erythrocytes as point-like sources. <i>Mathematical Biosciences</i> , 1995, 125, 165-189.	1.9	20
22	Modeling transcranial DC stimulation. , 2008, 2008, 4226-9.		19
23	Single-Layer Skull Approximations Perform Well in Transcranial Direct Current Stimulation Modeling. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2013, 21, 346-353.	4.9	19
24	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. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 1013-1025.	2.8	18
25	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. <i>IEEE Transactions on Biomedical Engineering</i> , 2006, 53, 2436-2444.	4.2	17
26	The potential distribution generated by the fetal heart at the maternal abdomen. <i>Journal of Perinatal Medicine</i> , 1986, 14, 435-444.	1.4	16
27	Potential applications of the new ECGSIM. <i>Journal of Electrocardiology</i> , 2011, 44, 577-583.	0.9	16
28	Reconsidering the Effect of Local Plasma Convection in a Classical Model of Oxygen Transport in Capillaries. <i>Microvascular Research</i> , 1996, 51, 39-50.	2.5	14
29	Modelling surface potentials from intracochlear electrical stimulation. <i>Scandinavian Audiology</i> , 1999, 28, 249-255.	0.5	14
30	Noninvasive determination of the activation sequence of the heart: Application to patients with previous myocardial infarctions. <i>Journal of Electrocardiology</i> , 2002, 35, 75-80.	0.9	13
31	Ventricular fibrillation waveform characteristics differ according to the presence of a previous myocardial infarction: A surface ECG study in ICD-patients. <i>Resuscitation</i> , 2015, 96, 239-245.	3.0	13
32	Lead system transformation for pooling of body surface map data: a surface laplacian approach. <i>Journal of Electrocardiology</i> , 1995, 28, 344-345.	0.9	12
33	ASH: an Automatic pipeline to generate realistic and individualized chronic Stroke volume conduction Head models. <i>Journal of Neural Engineering</i> , 2021, 18, 044001.	3.5	12
34	FEMfuns: A Volume Conduction Modeling Pipeline that Includes Resistive, Capacitive or Dispersive Tissue and Electrodes. <i>Neuroinformatics</i> , 2020, 18, 569-580.	2.8	11
35	Method for guiding the ablation catheter to the ablation site: a simulation and experimental study. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 267-278.	2.8	8
36	Electrical Impedance of the Cochlear Implant Lubricants Hyaluronic Acid, Oxycellulose, and Glycerin. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , 1997, 106, 653-656.	1.1	7

#	ARTICLE	IF	CITATIONS
37	Noninvasive detection of epicardial and endocardial activity of the heart. Netherlands Heart Journal, 2011, 19, 488-491.	0.8	7
38	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
39	Comparing Non-invasive Inverse Electrocardiography With Invasive Endocardial and Epicardial Electroanatomical Mapping During Sinus Rhythm. Frontiers in Physiology, 2021, 12, 730736.	2.8	7
40	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
41	Spatial Downsampling of Surface Sources in the Forward Problem of Electrocardiography. Lecture Notes in Computer Science, 2019, , 29-36.	1.3	6
42	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
43	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
44	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
45	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
46	Correcting Undersampled Cardiac Sources in Equivalent Double Layer Forward Simulations. Lecture Notes in Computer Science, 2019, 11504, 147-155.	1.3	4
47	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
48	Realistic mean field forward predictions for the integration of co-registered EEG/fMRI. BMC Neuroscience, 2009, 10, .	1.9	2
49	On handling the layered structure of the skull in transcranial direct current stimulation models. , 2011, 2011, 1989-92.		2
50	Multimodal Source Imaging: Basic Methods, Signal Processing Techniques, and Applications. IEEE Transactions on Biomedical Engineering, 2016, 63, 2550-2551.	4.2	2
51	Modeling the Accumulation of Degradable Polymer Drug Carriers in the Brain. ChemMedChem, 2018, 13, 1308-1310.	3.2	2
52	Research in Action—Students' Perspectives on the Integration of Research Activities in Undergraduate Biomedical Curricula. Medical Science Educator, 2021, 31, 371-374.	1.5	2
53	Ex vivo Validation of Noninvasive Epicardial and Endocardial Repolarization Mapping. Frontiers in Physiology, 2021, 12, 737609.	2.8	2
54	Correction to "The Surface Laplacian of the Potential: Theory and Application". IEEE Transactions on Biomedical Engineering, 1996, 43, 866.	4.2	1

#	ARTICLE	IF	CITATIONS
55	Model-based inferences for clinical applications of the ECG. Journal of Electrocardiology, 2007, 40, S17-S18.	0.9	1
56	Adriaan van Oosterom, PhD. Heart Rhythm, 2019, 16, e299.	0.7	0
57	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
58	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
59	Impaired Body Surface Electrode Contact Reduces Accuracy of Non-Invasive Electrocardiographic Imaging. , 0, , .		0