# Jari A Hyttinen

# List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/8067042/jari-a-hyttinen-publications-by-year.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

240
papers

3,512
citations

49
g-index

4,180
ext. papers

3.1
avg, IF

5.34
L-index

#	Paper	IF	Citations
240	Effect of fall direction on the lower hip fracture risk in athletes with different loading histories: A finite element modeling study in multiple sideways fall configurations <i>Bone</i> , <b>2022</b> , 116351	4.7	
239	Optical Projection Tomography for Particle Counting and Morphology Analysis. <i>IFMBE Proceedings</i> , <b>2021</b> , 944-951	0.2	1
238	Hyperparameter Algorithms in Electrical Impedance Tomography for Rotational Data. <i>IFMBE Proceedings</i> , <b>2021</b> , 631-643	0.2	1
237	A mathematical model of hiPSC cardiomyocytes electromechanics. <i>Physiological Reports</i> , <b>2021</b> , 9, e1512	<b>24</b> .6	1
236	Murine cerebral organoids develop network of functional neurons and hippocampal brain region identity <i>IScience</i> , <b>2021</b> , 24, 103438	6.1	3
235	Optical projection tomography as a quantitative tool for analysis of cell morphology and density in 3D hydrogels. <i>Scientific Reports</i> , <b>2021</b> , 11, 6538	4.9	2
234	Causal coupling inference from multivariate time series based on ordinal partition transition networks. <i>Nonlinear Dynamics</i> , <b>2021</b> , 105, 555-578	5	O
233	Multifrequency electrical impedance tomography in biological applications: A multimodal perspective <b>2021</b> , 157-189		1
232	Iron Transporter Protein Expressions in Children with Celiac Disease. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	3
231	Retrieval of the conductivity spectrum of tissueswith novel multimodal tomography. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66,	3.8	1
230	hiPSC-Derived Cardiomyocyte Model of LQT2 Syndrome Derived from Asymptomatic and Symptomatic Mutation Carriers Reproduces Clinical Differences in Aggregates but Not in Single Cells. <i>Cells</i> , <b>2020</b> , 9,	7.9	9
229	All-Optical Electrophysiology Refines Populations of In Silico Human iPSC-CMs for Drug Evaluation. <i>Biophysical Journal</i> , <b>2020</b> , 118, 2596-2611	2.9	16
228	Evaluation of scaffold microstructure and comparison of cell seeding methods using micro-computed tomography-based tools. <i>Journal of the Royal Society Interface</i> , <b>2020</b> , 17, 20200102	4.1	5
227	Simulation of the Effects of Extracellular Calcium Changes Leads to a Novel Computational Model of Human Ventricular Action Potential With a Revised Calcium Handling. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 314	4.6	7
226	Enhancing CT 3D Images by Independent Component Analysis of Projection Images. <i>IFMBE Proceedings</i> , <b>2020</b> , 381-389	0.2	
225	Influence of Astrocytic Gap Junction Coupling on in Silico Neuronal Network Activity. <i>IFMBE Proceedings</i> , <b>2020</b> , 480-487	0.2	1
224	Mechanical impact stimulation platform tailored for high-resolution light microscopy. <i>Health and Technology</i> , <b>2020</b> , 10, 87-99	2.1	1

223	A device for measuring sternal bone connectivity using vibration analysis techniques. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , <b>2020</b> , 234, 81-90	1.7	1	
222	A tube-source X-ray microtomography approach for quantitative 3D microscopy of optically challenging cell-cultured samples. <i>Communications Biology</i> , <b>2020</b> , 3, 548	6.7	3	
221	Toward Closed-Loop Electrical Stimulation of Neuronal Systems: A Review. <i>Bioelectricity</i> , <b>2020</b> , 2, 328-3	34 <del>3</del> 7	2	
220	X-ray microtomography is a novel method for accurate evaluation of small-bowel mucosal morphology and surface area. <i>Scientific Reports</i> , <b>2020</b> , 10, 13164	4.9	5	
219	Miniaturized Stimulator for Imaging of Live Cell Responses to High Frequency Mechanical Vibration. <i>IFMBE Proceedings</i> , <b>2020</b> , 21-27	0.2	2	
218	Automatic classification of IgA endomysial antibody test for celiac disease: a new method deploying machine learning. <i>Scientific Reports</i> , <b>2019</b> , 9, 9217	4.9	5	
217	Viability of Mouse Retinal Explant Cultures Assessed by Preservation of Functionality and Morphology <b>2019</b> , 60, 1914-1927		14	
216	Human Neural Tissues from Neural Stem Cells Using Conductive Biogel and Printed Polymer Microelectrode Arrays for 3D Electrical Stimulation. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1900425	10.1	35	
215	Mechanically Biomimetic Gelatin-Gellan Gum Hydrogels for 3D Culture of Beating Human Cardiomyocytes. <i>ACS Applied Materials &amp; Samp; Interfaces</i> , <b>2019</b> , 11, 20589-20602	9.5	39	
214	Do bone geometric properties of the proximal femoral diaphysis reflect loading history, muscle properties, or body dimensions?. <i>American Journal of Human Biology</i> , <b>2019</b> , 31, e23246	2.7	3	
213	Structural dynamics of tight junctions modulate the properties of the epithelial barrier. <i>PLoS ONE</i> , <b>2019</b> , 14, e0214876	3.7	15	
212	Vibration transmittance measures sternotomy stability - a preliminary study in human cadavers. Journal of Cardiothoracic Surgery, <b>2019</b> , 14, 2	1.6	2	
211	Bioactive glass ions induce efficient osteogenic differentiation of human adipose stem cells encapsulated in gellan gum and collagen type I hydrogels. <i>Materials Science and Engineering C</i> , <b>2019</b> , 99, 905-918	8.3	17	
210	Finite Element Mapping for Efficient Image Reconstruction in Rotational Electrical Impedance Tomography. <i>IFMBE Proceedings</i> , <b>2019</b> , 901-904	0.2	2	
209	Neural Tissue Engineering: Human Neural Tissues from Neural Stem Cells Using Conductive Biogel and Printed Polymer Microelectrode Arrays for 3D Electrical Stimulation (Adv. Healthcare Mater. 15/2019). <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, 1970062	10.1	1	
208	3D Scaffolds of Polycaprolactone/Copper-Doped Bioactive Glass: Architecture Engineering with Additive Manufacturing and Cellular Assessments in a Coculture of Bone Marrow Stem Cells and Endothelial Cells. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 4496-4510	5.5	11	
207	Gaussian Light Model in Brightfield Optical Projection Tomography. Scientific Reports, 2019, 9, 13934	4.9	4	
206	Characterisation and in vitro and in vivo evaluation of supercritical-CO2-foamed ETCP/PLCL composites for bone applications. <i>European Cells and Materials</i> , <b>2019</b> , 38, 35-50	4.3	3	

205	µCT Based Characterization of Biomaterial Scaffold Microstructure Under Compression. <i>IFMBE Proceedings</i> , <b>2019</b> , 165-169	0.2	
204	Functional Voltage-Gated Calcium Channels Are Present in Human Embryonic Stem Cell-Derived Retinal Pigment Epithelium. <i>Stem Cells Translational Medicine</i> , <b>2019</b> , 8, 179-193	6.9	10
203	Augmenting Soft Tissue Contrast Using Edge-Enhancing Phase-Imaging Techniques in X-Ray Microtomography. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019,	0.9	1
202	2019, 4867-4870 Real-Time Bioimpedance-Based Biopsy Needle Can Identify Tissue Type with High Spatial Accuracy.  Annals of Biomedical Engineering, 2019, 47, 836-851	4.7	15
201	A mathematical model and iterative inversion for fluorescent optical projection tomography. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 045017	3.8	5
200	Rotational electrical impedance tomography using electrodes with limited surface coverage provides window for multimodal sensing. <i>Measurement Science and Technology</i> , <b>2018</b> , 29, 025401	2	5
199	Ricci-flow based conformal mapping of the proximal femur to identify exercise loading effects. <i>Scientific Reports</i> , <b>2018</b> , 8, 4823	4.9	3
198	Functional Outcome of Human Adipose Stem Cell Injections in Rat Anal Sphincter Acute Injury Model. <i>Stem Cells Translational Medicine</i> , <b>2018</b> , 7, 295-304	6.9	14
197	Polypyrrole-coated electrodes show thickness-dependent stability in different conditions during 42-day follow-up in vitro. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2018</b> , 106, 2202-2213	3.5	1
196	Simultaneous Measurement of Contraction and Calcium Transients in Stem Cell Derived Cardiomyocytes. <i>Annals of Biomedical Engineering</i> , <b>2018</b> , 46, 148-158	4.7	22
195	Wound healing of human embryonic stem cell-derived retinal pigment epithelial cells is affected by maturation stage. <i>BioMedical Engineering OnLine</i> , <b>2018</b> , 17, 102	4.1	1
194	Automatic Optimization of an Model of Human iPSC Derived Cardiomyocytes Recapitulating Calcium Handling Abnormalities. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 709	4.6	35
193	A Portable Microscale Cell Culture System with Indirect Temperature Control. <i>SLAS Technology</i> , <b>2018</b> , 23, 566-579	3	9
192	Impact loading history modulates hip fracture load and location: A finite element simulation study of the proximal femur in female athletes. <i>Journal of Biomechanics</i> , <b>2018</b> , 76, 136-143	2.9	8
191	Optical Projection Tomography Imaging of Single Cells in 3D Gellan Gum Hydrogel. <i>IFMBE Proceedings</i> , <b>2018</b> , 996-999	0.2	5
190	Detection and Assessment of Sleep-Disordered Breathing with Emfit Mattress. <i>IFMBE Proceedings</i> , <b>2018</b> , 173-176	0.2	1
189	Computational model for multifocal imaging in optical projection tomography and numerical analysis of all-in-focus fusion in tomographic image reconstruction. <i>IFMBE Proceedings</i> , <b>2018</b> , 282-285	0.2	1
188	Texture-property relations of bioamine crosslinked gellan gum hydrogels. <i>IFMBE Proceedings</i> , <b>2018</b> , 18	9- <u>1.9</u> 2	

## (2016-2018)

187	Characterization of Chloride Channels in Human Embryonic Stem Cell Derived Retinal Pigment Epithelium. <i>IFMBE Proceedings</i> , <b>2018</b> , 454-457	0.2	O	
186	Sensitivity Distribution of Electrical Impedance Epithelial Measurement Systems. <i>IFMBE Proceedings</i> , <b>2018</b> , 623-626	0.2		
185	In Silico Populations Optimized on Optogenetic Recordings Predict Drug Effects in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes <b>2018</b> ,		3	
184	Large-Scale Simulation of the Phenotypical Variability Induced by Loss-of-Function Long QT Mutations in Human Induced Pluripotent Stem Cell Cardiomyocytes. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	12	
183	Porous poly-l-lactide-co-e-caprolactone scaffold: a novel biomaterial for vaginal tissue engineering. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 180811	3.3	7	
182	Novel osteoconductive Etricalcium phosphate/poly(L-lactide-co-e-caprolactone) scaffold for bone regeneration: a study in a rabbit calvarial defect. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2018</b> , 29, 156	4.5	3	
181	Rapidly responsive silk fibroin hydrogels as an artificial matrix for the programmed tumor cells death. <i>PLoS ONE</i> , <b>2018</b> , 13, e0194441	3.7	37	
180	Knitted 3D Scaffolds of Polybutylene Succinate Support Human Mesenchymal Stem Cell Growth and Osteogenesis. <i>Stem Cells International</i> , <b>2018</b> , 2018, 5928935	5	14	
179	The relationship between loading history and proximal femoral diaphysis cross-sectional geometry. <i>American Journal of Human Biology</i> , <b>2017</b> , 29, e22965	2.7	18	
178	Crystallization and sintering of borosilicate bioactive glasses for application in tissue engineering. Journal of Materials Chemistry B, <b>2017</b> , 5, 4514-4525	7-3	24	
177	Surface curvature in triply-periodic minimal surface architectures as a distinct design parameter in preparing advanced tissue engineering scaffolds. <i>Biofabrication</i> , <b>2017</b> , 9, 025001	10.5	75	
176	Phenotypic variability in LQT3 human induced pluripotent stem cell-derived cardiomyocytes and their response to antiarrhythmic pharmacologic therapy: An in silico approach. <i>Heart Rhythm</i> , <b>2017</b> , 14, 1704-1712	6.7	37	
175	Evaluation of Optogenetic Electrophysiology Tools in Human Stem Cell-Derived Cardiomyocytes. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 884	4.6	24	
174	In Vitro Degradation of Borosilicate Bioactive Glass and Poly(l-lactide-co-ឯ-caprolactone) Composite Scaffolds. <i>Materials</i> , <b>2017</b> , 10,	3.5	13	
173	Network-Wide Adaptive Burst Detection Depicts Neuronal Activity with Improved Accuracy. <i>Frontiers in Computational Neuroscience</i> , <b>2017</b> , 11, 40	3.5	10	
172	Computational model for simulating multifocal imaging in optical projection tomography 2017,		1	
171	Simulation of developing human neuronal cell networks. <i>BioMedical Engineering OnLine</i> , <b>2016</b> , 15, 105	4.1	4	
170	Semi-automatic Method for Ca Imaging Data Analysis of Maturing Human Embryonic Stem Cells-Derived Retinal Pigment Epithelium. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 3408-3420	4.7	6	

169	Joint analysis of extracellular spike waveforms and neuronal network bursts. <i>Journal of Neuroscience Methods</i> , <b>2016</b> , 259, 143-155	3	8
168	Methods for in vitro functional analysis of iPSC derived cardiomyocytes - Special focus on analyzing the mechanical beating behavior. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2016</b> , 1863, 1864-72	4.9	29
167	Spectral Entropy Based Neuronal Network Synchronization Analysis Based on Microelectrode Array Measurements. <i>Frontiers in Computational Neuroscience</i> , <b>2016</b> , 10, 112	3.5	13
166	Texture Descriptors Ensembles Enable Image-Based Classification of Maturation of Human Stem Cell-Derived Retinal Pigmented Epithelium. <i>PLoS ONE</i> , <b>2016</b> , 11, e0149399	3.7	12
165	Inner ear barriers to nanomedicine-augmented drug delivery and imaging. <i>Journal of Otology</i> , <b>2016</b> , 11, 165-177	1.9	12
164	Quantifying the effect of electric current on cell adhesion studied by single-cell force spectroscopy. <i>Biointerphases</i> , <b>2016</b> , 11, 011004	1.8	23
163	X-ray Microtomography of Collagen and Polylactide Samples in Liquids. <i>IFMBE Proceedings</i> , <b>2016</b> , 420-4	1 <b>24</b> .2	1
162	Ensembles of dense and dense sampling descriptors for the HEp-2 cells classification problem. <i>Pattern Recognition Letters</i> , <b>2016</b> , 82, 28-35	4.7	3
161	Optical Projection Tomography Technique for Image Texture and Mass Transport Studies in Hydrogels Based on Gellan Gum. <i>Langmuir</i> , <b>2016</b> , 32, 5173-82	4	20
160	Exercise loading history and femoral neck strength in a sideways fall: A three-dimensional finite element modeling study. <i>Bone</i> , <b>2016</b> , 92, 9-17	4.7	14
159	Micro CT visualization of silver nanoparticles in the middle and inner ear of rat and transportation pathway after transtympanic injection. <i>Journal of Nanobiotechnology</i> , <b>2015</b> , 13, 5	9.4	48
158	Distinct electrophysiological and mechanical beating phenotypes of long QT syndrome type 1-specific cardiomyocytes carrying different mutations. <i>IJC Heart and Vasculature</i> , <b>2015</b> , 8, 19-31	2.4	25
157	Signal analysis and classification methods for the calcium transient data of stem cell-derived cardiomyocytes. <i>Computers in Biology and Medicine</i> , <b>2015</b> , 61, 1-7	7	13
156	X-ray microtomographic confirmation of the reliability of CBCT in identifying the scalar location of cochlear implant electrode after round window insertion. <i>Hearing Research</i> , <b>2015</b> , 326, 59-65	3.9	16
155	Heart rate variability evaluation of Emfit sleep mattress breathing categories in NREM sleep. <i>Clinical Neurophysiology</i> , <b>2015</b> , 126, 967-74	4.3	5
154	A new algorithm to improve assessment of cortical bone geometry in pQCT. <i>Bone</i> , <b>2015</b> , 81, 721-730	4.7	4
153	The combination of electric current and copper promotes neuronal differentiation of adipose-derived stem cells. <i>Annals of Biomedical Engineering</i> , <b>2015</b> , 43, 1014-23	4.7	12
152	Recurrence network analysis of multiple local field potential bands from the orofacial portion of primary motor cortex. Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	

## (2014-2015)

IT based assessment of mechanical deformation of designed PTMC scaffolds. <i>Clinical Hemorheology and Microcirculation</i> , <b>2015</b> , 60, 99-108	2.5	8	
Computational Model of Ca2+ Wave Propagation in Human Retinal Pigment Epithelial ARPE-19 Cells. <i>PLoS ONE</i> , <b>2015</b> , 10, e0128434	3.7	8	
Dynamics of intracranial electroencephalographic recordings from epilepsy patients using univariate and bivariate recurrence networks. <i>Physical Review E</i> , <b>2015</b> , 91, 022927	2.4	17	
Investigating the possible effect of electrode support structure on motion artifact in wearable bioelectric signal monitoring. <i>BioMedical Engineering OnLine</i> , <b>2015</b> , 14, 44	4.1	29	
A fast stimulability screening protocol for neuronal cultures on microelectrode arrays. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 3440-3	0.9		
Controlling cell migration and adhesion into a scaffold by external electric currents. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 3549-52	0.9	1	
Human induced pluripotent stem cell-derived versus adult cardiomyocytes: an in silico electrophysiological study on effects of ionic current block. <i>British Journal of Pharmacology</i> , <b>2015</b> , 172, 5147-60	8.6	42	
Signatures of chaotic and stochastic dynamics uncovered with $\bar{\mu}$ -recurrence networks. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2015</b> , 471, 20150349	2.4	9	
Recurrence network analysis of wide band oscillations of local field potentials from the primary motor cortex reveals rich dynamics. <b>2015</b> ,		2	
Quantification and automatized adaptive detection of in vivo and in vitro neuronal bursts based on signal complexity. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015,	0.9	4	
Polypyrrole coating on poly-(lactide/glycolide)-Etricalcium phosphate screws enhances new bone formation in rabbits. <i>Biomedical Materials (Bristol)</i> , <b>2015</b> , 10, 065016	3.5	7	
Modeling and Experimental Characterization of Pressure Drop in Gravity-Driven Microfluidic Systems. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2015</b> , 137,	2.1	17	
Computer vision for virus image classification. <i>Biosystems Engineering</i> , <b>2015</b> , 138, 11-22	4.8	22	
A motion artifact generation and assessment system for the rapid testing of surface biopotential electrodes. <i>Physiological Measurement</i> , <b>2015</b> , 36, 1-25	2.9	13	
Effects of chitosan and bioactive glass modifications of knitted and rolled polylactide-based 96/4 L/D scaffolds on chondrogenic differentiation of adipose stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 9, 55-65	4.4	14	
Finite element analysis of customized reconstruction plates for mandibular continuity defect therapy. <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 264-8	2.9	49	
Comparison of chondroitin sulfate and hyaluronic Acid doped conductive polypyrrole films for adipose stem cells. <i>Annals of Biomedical Engineering</i> , <b>2014</b> , 42, 1889-900	4.7	27	
Video image-based analysis of single human induced pluripotent stem cell derived cardiomyocyte beating dynamics using digital image correlation. <i>BioMedical Engineering OnLine</i> , <b>2014</b> , 13, 39	4.1	57	
	Computational Model of Ca2+ Wave Propagation in Human Retinal Pigment Epithelial ARPE-19 Cells. PLoS ONE, 2015, 10, e0128434  Dynamics of intracranial electroencephalographic recordings from epilepsy patients using univariate and bivariate recurrence networks. Physical Review E, 2015, 91, 022927  Investigating the possible effect of electrode support structure on motion artifact in wearable bioelectric signal monitoring. BioMedical Engineering OnLine, 2015, 14, 44  A fast stimulability screening protocol for neuronal cultures on microelectrode arrays. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 3440-3  Controlling cell migration and adhesion into a scaffold by external electric currents. Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 3549-52  Human induced pluripotent stem cell-derived versus adult cardiomyocytes: an in silico electrophysiological study on effects of ionic current block. British Journal of Pharmacology, 2015, 172, 5147-60  Signatures of chaotic and stochastic dynamics uncovered with U-recurrence networks. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150349  Recurrence network analysis of wide band oscillations of local field potentials from the primary motor cortex reveals rich dynamics. 2015.  Quantification and automatized adaptive detection of in vivo and in vitro neuronal bursts based on signal complexity. Annual International Conference, 6th IEEE Engineering in Medicine and Biology Society Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference of the IEEE Engine	Computational Model of Ca2+ Wave Propagation in Human Retinal Pigment Epithelial ARPE-19 Cells. PLoS ONE, 2015, 10, e0128434  Dynamics of intracranial electroencephalographic recordings from epilepsy patients using univariate and bivariate recurrence networks. Physical Review E, 2015, 91, 022927  2-4  Investigating the possible effect of electrode support structure on motion artifact in wearable bioelectric signal monitoring. BioMedical Engineering OnLine, 2015, 14, 44  A fast stimulability screening protocol for neuronal cultures on microelectrode arrays. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 3440-3  Controlling cell migration and adhesion into a scaffold by external electric currents. Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 349-52  Human induced pluripotent stem cell-derived versus adult cardiomyocytes: an in silico electrophysiological study on effects of ionic current block. British Journal of Pharmacology, 2015, 1772, 5147-60  Signatures of chaotic and stochastic dynamics uncovered with B -recurrence networks. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sociences, 2015, 471, 20150349  Recurrence network analysis of wide band oscillations of local field potentials from the primary motor cortex reveals rich dynamics. 2015,  Quantification and automatized adaptive detection of in vivo and in vitro neuronal bursts based on signal complexity. Annual International Conference, 2015,  Polypyrrole coating on poly-(lactide/glycolide)-Ericalcium phosphate screws enhances new bone formation in rabbits. Biomedical Materials (Bristol), 2015, 10, 065016  Modeling and Experimental Characterization of Pressure Drop In Gravity-Driven Microfluidic Systems. Journal of Fluids Engineering, Transactions of the ASME, 2015, 138, 11-22  A motion artifact generation and	Computational Model of Ca2+ Wave Propagation in Human Retinal Pigment Epithelial ARPE-19 Cells. PLos ONE, 2015, 10, e0128434  Dynamics of intracranial electroencephalographic recordings from epitlepsy patients using univariate and bivariate recurrence networks. Physical Review E, 2015, 91, 022927  24. 17  Investigating the possible effect of electrode support structure on motion artifact in wearable bioelectric signal monitoring. BioMedical Engineering Online, 2015, 14, 44  A fast stimulability screening protocol for neuronal cultures on microelectrode arrays. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society IEEE Engineering in International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 3549-50  Signatures of chaotic and stochastic dynamics uncovered with B-recurrence networks. Praceedings of the Royal Society A Mathematical, Physical and Engineering Sciences, 2015, 471, 20150349  24. 9  Recurrence network analysis of wide band oscillations of local field potentials from the primary motor cortex reveals rich dynamics. 2015.  Quantification and automatized adaptive detection of in vivo and in vitro neuronal bursts based on signal complexity, Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Eng

133	Prediction of passive drug permeability across the blood-retinal barrier. <i>Pharmaceutical Research</i> , <b>2014</b> , 31, 2297-311	4.5	6
132	Bone loss patterns in cortical, subcortical, and trabecular compartments during simulated microgravity. <i>Journal of Applied Physiology</i> , <b>2014</b> , 117, 80-8	3.7	20
131	Characterization of dynamical systems under noise using recurrence networks: Application to simulated and EEG data. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2014</b> , 378, 3464-3474	2.3	25
130	2014,		2
129	Histogram-based classification of iPSC colony images using machine learning methods <b>2014</b> ,		3
128	Center of Rotation Function as a General Method for Center of Rotation Detection 2014,		1
127	Classification of iPSC colony images using hierarchical strategies with support vector machines <b>2014</b> ,		2
126	Optical projection tomography as a tool for 3D imaging of hydrogels. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 3443-9	3.5	21
125	Investigating local spatially-enhanced structural and textural descriptors for classification of iPSC colony images. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014,	0.9	3
124	A multi-tissue segmentation of the human head for detailed computational models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 2484-7	0.9	
123	Impedance spectroscopy of changes in skin-electrode impedance induced by motion. <i>BioMedical Engineering OnLine</i> , <b>2014</b> , 13, 149	4.1	19
122	Characterization of microstructures using contour tree connectivity for fluid flow analysis. <i>Journal of the Royal Society Interface</i> , <b>2014</b> , 11, 20131042	4.1	10
121	Accurate Cortical Bone Detection in Peripheral Quantitative Computed Tomography Images. <i>IFMBE Proceedings</i> , <b>2014</b> , 289-292	0.2	2
120	In vitro electroretinogram for the study of the functionality of differentiated retinal pigment epithelium cells. <i>Medical and Biological Engineering and Computing</i> , <b>2013</b> , 51, 61-70	3.1	1
119	Analysis of nonlinear dynamics of healthy and epileptic EEG signals using recurrence based complex network approach <b>2013</b> ,		10
118	Impedance spectra of polypyrrole coated platinum electrodes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 539-42	0.9	2
117	Novel polypyrrole-coated polylactide scaffolds enhance adipose stem cell proliferation and early osteogenic differentiation. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 882-92	3.9	74
116	Intercellular Ca(2+) wave propagation in human retinal pigment epithelium cells induced by mechanical stimulation. <i>Experimental Eye Research</i> , <b>2013</b> , 108, 129-39	3.7	17

## (2012-2013)

115	Effect of pressure and padding on motion artifact of textile electrodes. <i>BioMedical Engineering OnLine</i> , <b>2013</b> , 12, 26	4.1	65	
114	Femoral neck cross-sectional geometry and exercise loading. <i>Clinical Physiology and Functional Imaging</i> , <b>2013</b> , 33, 258-66	2.4	13	
113	Computational models of ventricular- and atrial-like human induced pluripotent stem cell derived cardiomyocytes. <i>Annals of Biomedical Engineering</i> , <b>2013</b> , 41, 2334-48	4.7	68	
112	Novel electrode configuration for highly linear impedance pneumography. <i>Biomedizinische Technik</i> , <b>2013</b> , 58, 35-8	1.3	27	
111	Contour tree connectivity of binary images from algebraic graph theory 2013,		3	
110	Aquaporin expression and function in human pluripotent stem cell-derived retinal pigmented epithelial cells <b>2013</b> , 54, 3510-9		31	
109	Cardiomyocyte MEA data analysis (CardioMDA)a novel field potential data analysis software for pluripotent stem cell derived cardiomyocytes. <i>PLoS ONE</i> , <b>2013</b> , 8, e73637	3.7	24	
108	Non-Binary Coding for Texture Descriptors in Sub-Cellular and Stem Cell Image Classification. <i>Current Bioinformatics</i> , <b>2013</b> , 8, 208-219	4.7	39	
107	Analysis of trabecular bone microstructure using contour tree connectivity. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 428-35	0.9	2	
106	Computational model of Ca2+ wave propagation in human retinal pigment epithelium. <i>Acta Ophthalmologica</i> , <b>2013</b> , 91, 0-0	3.7		
105	Postoperative sternal stability assessed by vibration: a preliminary study. <i>Annals of Thoracic Surgery</i> , <b>2012</b> , 94, 260-4	2.7	4	
104	Multilead measurement system for the time-domain analysis of bioimpedance magnitude. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 2273-80	5	6	
103	Electric impedance of human embryonic stem cell-derived retinal pigment epithelium. <i>Medical and Biological Engineering and Computing</i> , <b>2012</b> , 50, 107-16	3.1	14	
102	Arterial pulse wave velocity in relation to carotid intima-media thickness, brachial flow-mediated dilation and carotid artery distensibility: the Cardiovascular Risk in Young Finns Study and the Health 2000 Survey. <i>Atherosclerosis</i> , <b>2012</b> , 220, 387-93	3.1	77	
101	Threshold-free automatic detection of cortical bone geometry by peripheral quantitative computed tomography. <i>Journal of Clinical Densitometry</i> , <b>2012</b> , 15, 413-421	3.5	5	
100	Model for long QT syndrome type 2 using human iPS cells demonstrates arrhythmogenic characteristics in cell culture. <i>DMM Disease Models and Mechanisms</i> , <b>2012</b> , 5, 220-30	4.1	228	
99	Burst analysis tool for developing neuronal networks exhibiting highly varying action potential dynamics. <i>Frontiers in Computational Neuroscience</i> , <b>2012</b> , 6, 38	3.5	49	
98	Binary image representation by contour trees <b>2012</b> ,		3	

97	Implantable Measurement System for Dairy-Cattle Monitoring with Long Recording Time. <i>Advances in Science and Technology</i> , <b>2012</b> , 85, 33-38	0.1	2
96	Direct laser writing and geometrical analysis of scaffolds with designed pore architecture for three-dimensional cell culturing. <i>Journal of Micromechanics and Microengineering</i> , <b>2012</b> , 22, 115016	2	32
95	Atomic layer deposited iridium oxide thin film as microelectrode coating in stem cell applications. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, <b>2012</b> , 30, 041501	2.9	8
94	Experimental Comparison of Geometric, Arithmetic and Harmonic Means for EEG Event Related Potential Detection <b>2012</b> ,		1
93	Human pluripotent stem cell derived retinal pigment epithelium fulfills requirements of the in vitro functionality. <i>Acta Ophthalmologica</i> , <b>2012</b> , 90, 0-0	3.7	
92	A method for suppressing cardiogenic oscillations in impedance pneumography. <i>Physiological Measurement</i> , <b>2011</b> , 32, 337-45	2.9	20
91	The effects of vibration loading on adipose stem cell number, viability and differentiation towards bone-forming cells. <i>Journal of the Royal Society Interface</i> , <b>2011</b> , 8, 1736-47	4.1	63
90	Determination of bioceramic filler distribution and porosity of self-reinforced bioabsorbable composites using micro-computed tomography. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2011</b> , 42, 534-542	8.4	3
89	All Titanium Microelectrode Array for Field Potential Measurements from Neurons and Cardiomyocytes Feasibility Study. <i>Micromachines</i> , <b>2011</b> , 2, 394-409	3.3	6
88	Anatomical sector analysis of load-bearing tibial bone structure during 90-day bed rest and 1-year recovery. <i>Clinical Physiology and Functional Imaging</i> , <b>2011</b> , 31, 249-57	2.4	13
87	Arterial tension time reflects subclinical atherosclerosis, arterial stiffness and stroke volume. <i>Clinical Physiology and Functional Imaging</i> , <b>2011</b> , 31, 464-71	2.4	5
86	Averaging in vitro cardiac field potential recordings obtained with microelectrode arrays. <i>Computer Methods and Programs in Biomedicine</i> , <b>2011</b> , 104, 199-205	6.9	11
85	Impedance spectroscopy in monitoring the maturation of stem cell-derived retinal pigment epithelium. <i>Annals of Biomedical Engineering</i> , <b>2011</b> , 39, 3055-69	4.7	11
84	2011,		3
83	Recording cortical EEG subcortically [Improved EEG monitoring from depth-stimulation electrodes <b>2011</b> ,		1
82	Toward the defined and xeno-free differentiation of functional human pluripotent stem cell-derived retinal pigment epithelial cells. <i>Molecular Vision</i> , <b>2011</b> , 17, 558-75	2.3	110
81	Modelling Approach for Assessment of Electrode Configuration and Placement in Bioimpedance Measurements of Skin Irritation. <i>IFMBE Proceedings</i> , <b>2011</b> , 1238-1241	0.2	3
80	Value of leads V4R and CM5 in the detection of coronary artery disease during exercise electrocardiographic test. <i>Clinical Physiology and Functional Imaging</i> , <b>2010</b> , 30, 308-12	2.4	6

#### (2009-2010)

79	Usability evaluation of a web-based patient information system for individuals with severe mental health problems. <i>Journal of Advanced Nursing</i> , <b>2010</b> , 66, 2701-10	3.1	23	
78	The significance of relative conductivity on thin layers in EEG sensitivity distributions. <i>Biomedizinische Technik</i> , <b>2010</b> , 55, 123-31	1.3	2	
77	Similarly derived and cultured hESC lines show variation in their developmental potential towards neuronal cells in long-term culture. <i>Regenerative Medicine</i> , <b>2010</b> , 5, 749-62	2.5	56	
76	The influence of age and skull conductivity on surface and subdermal bipolar EEG leads. <i>Computational Intelligence and Neuroscience</i> , <b>2010</b> , 2010, 397272	3	43	
75	Assessment of pulmonary flow using impedance pneumography. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2010</b> , 57, 2277-85	5	61	
74	Wireless, multipurpose in-home health monitoring platform: two case trials. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2010</b> , 14, 447-55		66	
73	Design and implementation of a portable long-term physiological signal recorder. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2010</b> , 14, 718-25		34	
72	New precordial bipolar electrocardiographic leads for detecting left ventricular hypertrophy. <i>Journal of Electrocardiology</i> , <b>2010</b> , 43, 654-9	1.4	4	
71	Enhanced bone structural analysis through pQCT image preprocessing. <i>Medical Engineering and Physics</i> , <b>2010</b> , 32, 398-406	2.4	8	
70	Estimating the measuring sensitivity of unipolar and bipolar ECG with lead field method and FDM models. <i>Computer Methods and Programs in Biomedicine</i> , <b>2009</b> , 94, 161-7	6.9	1	
69	Best electrode locations for a small bipolar ECG device: signal strength analysis of clinical data. <i>Annals of Biomedical Engineering</i> , <b>2009</b> , 37, 331-6	4.7	35	
68	Region of interest sensitivity ratio in analyzing sensitivity distributions of electrocardiographic measurements. <i>Annals of Biomedical Engineering</i> , <b>2009</b> , 37, 692-701	4.7		
67	Ballistocardiogaphic studies with acceleration and electromechanical film sensors. <i>Medical Engineering and Physics</i> , <b>2009</b> , 31, 1154-65	2.4	14	
66	Targeted exercises against hip fragility. <i>Osteoporosis International</i> , <b>2009</b> , 20, 1321-8	5.3	95	
65	2D texture based classification, segmentation and 3D orientation estimation of tissues using DT-CWT feature extraction methods. <i>Data and Knowledge Engineering</i> , <b>2009</b> , 68, 1383-1397	1.5	6	
64	DexterNet: An Open Platform for Heterogeneous Body Sensor Networks and its Applications 2009,		48	
63	Utilization of wireless sensor network for health monitoring in home environment 2009,		8	
62	Human embryonic stem cell-derived neuronal cells form spontaneously active neuronal networks in vitro. <i>Experimental Neurology</i> , <b>2009</b> , 218, 109-16	5.7	87	

61	Assessment of Breathing Parameters during Running with a Wearable Bioimpedance Device. <i>IFMBE Proceedings</i> , <b>2009</b> , 1088-1091	0.2	8
60	Building Trust on Body Sensor Network Signals. <i>IFMBE Proceedings</i> , <b>2009</b> , 887-890	0.2	
59	Substantial variation in the cardiac differentiation of human embryonic stem cell lines derived and propagated under the same conditionsa comparison of multiple cell lines. <i>Annals of Medicine</i> , <b>2009</b> , 41, 360-70	1.5	53
58	Performance analysis of an activity monitoring system using the SPINE framework 2009,		2
57	Comparison of Different Structures of Silver Yarn Electrodes for Mobile Monitoring. <i>IFMBE Proceedings</i> , <b>2009</b> , 1204-1207	0.2	2
56	Beating Rate Variability Studies with Human Embryonic Stem Cell Derived Cardiomyocytes. <i>IFMBE Proceedings</i> , <b>2009</b> , 8-11	0.2	2
55	Optimal Electrode Configurations for Impedance Pneumography during Sports Activities. <i>IFMBE Proceedings</i> , <b>2009</b> , 1750-1753	0.2	2
54	Computer Aided Diagnosis Tool for the Segmentation and Texture Analysis of Medical Images. <i>IFMBE Proceedings</i> , <b>2009</b> , 274-276	0.2	3
53	Using MEA system in verifying the functionality of retinal pigment epithelium cells differentiated from human embryonic stem cells. <i>IFMBE Proceedings</i> , <b>2009</b> , 2281-2284	0.2	
52	Two portable long-term measurement devices for ECG and bioimpedance 2008,		1
51	Electrode position optimization for facial EMG measurements for human-computer interface 2008,		2
50	Texture Based Classification and Segmentation of Tissues Using DT-CWT Feature Extraction Methods <b>2008</b> ,		2
49	Mobile ECG measurement and analysis system using mobile phone as the base station 2008,		10
48	Independent component analysis in processing event related potentials in electroencephalograms <b>2008</b> ,		1
47	Electrode position optimization for facial EMG measurements for human-computer interface. <i>Methods of Information in Medicine</i> , <b>2008</b> , 47, 192-7	1.5	4
46	New method for analysing sensitivity distributions of electroencephalography measurements. <i>Medical and Biological Engineering and Computing</i> , <b>2008</b> , 46, 101-8	3.1	12
45	Correlation between signal-to-noise ratios and region of interest sensitivity ratios of bipolar EEG measurements. <i>Medical and Biological Engineering and Computing</i> , <b>2008</b> , 46, 381-9	3.1	5
44	Setup and dosimetry for exposing anaesthetised pigs in vivo to 900 MHz GSM mobile phone fields. <i>Bioelectromagnetics</i> , <b>2008</b> , 29, 363-70	1.6	6

43	Effect of Lead Orientation on Bipolar ECG Measurement. IFMBE Proceedings, 2008, 343-346	0.2	
42	Comparison of DT-CWT Based Rotation Variant and Invariant Methods on Tissue Characterization. <i>IFMBE Proceedings</i> , <b>2008</b> , 473-476	0.2	
41	Effects of ROI Size on Correlation between ROISR and SNR. IFMBE Proceedings, 2008, 327-330	0.2	1
40	Contributions of the 12 Segments of Left Ventricular Myocardium to the Body Surface Potentials <b>2007</b> , 300-309		
39	Using Micro Electrode Array For On-line EIT Measurement <b>2007</b> , 444-447		1
38	Wireless and inductively powered implant for measuring electrocardiogram. <i>Medical and Biological Engineering and Computing</i> , <b>2007</b> , 45, 1163-74	3.1	25
37	Estimation of the scope of transvenous lead systems in implantable cardioverter defibrillators. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 259	95-8	O
36	Contribution of the left anterior myocardium to the body surface potentials in case of apical ectopic beat. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 931-4		
35	Sensitivity of the Tetrapolar Lead Configurations on the Impedance Changes of the Lungs <b>2007</b> , 48-51		
34	Intra-Cardiac Bioimpedance Field Variability with Breathing <b>2007</b> , 20-23		
34	Intra-Cardiac Bioimpedance Field Variability with Breathing <b>2007</b> , 20-23  Numerical Analysis of the Resolution of Surface Electrocardiographic Lead Systems <b>2007</b> , 310-319		2
			2
33	Numerical Analysis of the Resolution of Surface Electrocardiographic Lead Systems <b>2007</b> , 310-319		
33	Numerical Analysis of the Resolution of Surface Electrocardiographic Lead Systems <b>2007</b> , 310-319  Measuring Respirational Parameters with a Wearable Bioimpedance Device <b>2007</b> , 663-666	3.1	10
33 32 31	Numerical Analysis of the Resolution of Surface Electrocardiographic Lead Systems 2007, 310-319  Measuring Respirational Parameters with a Wearable Bioimpedance Device 2007, 663-666  Wireless Measurement System for Bioimpedance and ECG 2007, 248-251  Finite difference and lead field methods in designing implantable ECG monitor. <i>Medical and</i>	3.1	10
33 32 31 30	Numerical Analysis of the Resolution of Surface Electrocardiographic Lead Systems 2007, 310-319  Measuring Respirational Parameters with a Wearable Bioimpedance Device 2007, 663-666  Wireless Measurement System for Bioimpedance and ECG 2007, 248-251  Finite difference and lead field methods in designing implantable ECG monitor. Medical and Biological Engineering and Computing, 2006, 44, 857-64  Effect of measurement noise and electrode density on the spatial resolution of cortical potential distribution with different resistivity values for the skull. IEEE Transactions on Biomedical		10 6 5
33 32 31 30 29	Numerical Analysis of the Resolution of Surface Electrocardiographic Lead Systems 2007, 310-319  Measuring Respirational Parameters with a Wearable Bioimpedance Device 2007, 663-666  Wireless Measurement System for Bioimpedance and ECG 2007, 248-251  Finite difference and lead field methods in designing implantable ECG monitor. Medical and Biological Engineering and Computing, 2006, 44, 857-64  Effect of measurement noise and electrode density on the spatial resolution of cortical potential distribution with different resistivity values for the skull. IEEE Transactions on Biomedical Engineering, 2006, 53, 1851-8  Effect of source depth on the specificity of bipolar EEG measurements. Annual International		10 6 5 44

25	Independent component analysis of parameterized ECG signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 5704-7		О
24	Software suite for finite difference method models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 1649-52		
23	A FDM anisotropic formulation for EEG simulation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 1121-5		4
22	Observing frequency content time evolution of independent hippocampal signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 727-30		
21	Wireless head cap for EOG and facial EMG measurements. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2005</b> , 2005, 5865-8		18
20	Study on the spatial resolution of EEGeffect of electrode density and measurement noise. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2004</b> , 2004, 4409-12		9
19	Estimation of ECG signal of closely separated bipolar electrodes using thorax models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2004</b> , 2004, 801-4		3
18	Effect of electrode density and measurement noise on the spatial resolution of cortical potential distribution. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2004</b> , 51, 1547-54	5	30
17	Prediction of implantable ECG lead systems by using thorax models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2004</b> , 2004, 809-12		2
16	Accuracy of two dipolar inverse algorithms applying reciprocity for forward calculation. <i>Journal of Biomedical Informatics</i> , <b>2000</b> , 33, 172-85		16
15	Segmental composition of whole-body impedance cardiogram estimated by computer simulations and clinical experiments. <i>Clinical Physiology</i> , <b>2000</b> , 20, 106-13		8
14	Multiple lead recordings improve accuracy of bio-impedance plethysmographic technique. <i>Medical Engineering and Physics</i> , <b>1999</b> , 21, 371-5	2.4	1
13	Lead field theoretical approach in bioimpedance measurements: towards more controlled measurement sensitivity. <i>Annals of the New York Academy of Sciences</i> , <b>1999</b> , 873, 135-42	6.5	14
12	Effects of tissue resistivities on electroencephalogram sensitivity distribution. <i>Medical and Biological Engineering and Computing</i> , <b>1999</b> , 37, 555-9	3.1	11
11	A software implementation for detailed volume conductor modelling in electrophysiology using finite difference method. <i>Computer Methods and Programs in Biomedicine</i> , <b>1999</b> , 58, 191-203	6.9	26
10	Application of computer modelling and lead field theory in developing multiple aimed impedance cardiography measurements. <i>Journal of Medical Engineering and Technology</i> , <b>1999</b> , 23, 169-77	1.8	7
9	Sensitivity distributions of impedance cardiography using band and spot electrodes analyzed by a three-dimensional computer model. <i>Annals of Biomedical Engineering</i> , <b>1998</b> , 26, 694-702	4.7	49
8	Detailed model of the thorax as a volume conductor based on the visible human man data. <i>Journal of Medical Engineering and Technology</i> , <b>1998</b> , 22, 126-33	1.8	13

#### LIST OF PUBLICATIONS

7	outer model analysis of the relationship of ST-segment and ST-segment/heart rate slope nse to the constituents of the ischemic injury source. <i>Journal of Electrocardiology</i> , <b>1997</b> , 30, 161-74 <sup>1.4</sup>		7	
6	Validation of a detailed computer model for the electric fields in the brain. <i>Journal of Medical Engineering and Technology</i> , <b>1995</b> , 19, 84-7	1.8	18	
5	Inverse electrocardiographic transformations: dependence on the number of epicardial regions and body surface data points. <i>Mathematical Biosciences</i> , <b>1994</b> , 120, 165-87	3.9	10	
4	Comparison between ST depression and elevation in myocardial ischemia diagnosis 1992,		1	
3	Importance of the tissue conductivity values in modelling the thorax as a volume conductor		2	
2	Parallel processing approach for finite difference modelling of human thorax as a volume conductor		1	
1	Application of lead field theory and computerized thorax modeling for the ECG inverse problem		1	