

Orjan G Martinsen

List of Publications by Year in descending order

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105
papers

2,499
citations

218677

26
h-index

223800

46
g-index

111
all docs

111
docs citations

111
times ranked

2305
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Study of Non-Linear Effects for a Swept Bias Langmuir Probe. IEEE Transactions on Plasma Science, 2022, , 1-9.	1.3	1
2	Physics-Based Simulation and Control Framework for Steering a Magnetically-Actuated Guidewire. , 2022, , .		0
3	Electrical impedance myography: A critical review and outlook. Clinical Neurophysiology, 2021, 132, 338-344.	1.5	30
4	A Recurrent Neural-Network-Based Real-Time Dynamic Model for Soft Continuum Manipulators. Frontiers in Robotics and AI, 2021, 8, 631303.	3.2	17
5	The correlations among the skin conductance features responding to physiological stress stimuli. Skin Research and Technology, 2021, 27, 582-588.	1.6	1
6	Skin Electrical Resistance as a Diagnostic and Therapeutic Biomarker of Breast Cancer Measuring Lymphatic Regions. IEEE Access, 2021, 9, 152322-152332.	4.2	3
7	Dynamic modeling of soft continuum manipulators using lie group variational integration. PLoS ONE, 2020, 15, e0236121.	2.5	8
8	Monitoring the quality of frozen-thawed venous segments using bioimpedance spectroscopy. Physiological Measurement, 2020, 41, 044008.	2.1	4
9	Simultaneous measurement of electrodermal activity components correlated with age-related differences. Journal of Biological Physics, 2020, 46, 177-188.	1.5	12
10	Towards exhaustive electromembrane extraction under stagnant conditions. Analytica Chimica Acta, 2020, 1104, 1-9.	5.4	11
11	A multiparameter model for non-invasive detection of hypoglycemia. Physiological Measurement, 2019, 40, 085004.	2.1	11
12	Simulation based comparison between a transversal and a tangential memristor model with a capacitance in parallel. PLoS ONE, 2019, 14, e0221533.	2.5	6
13	Electrosurgery and Temperature Increase in Tissue With a Passive Metal Implant. Frontiers in Surgery, 2019, 6, 8.	1.4	8
14	Measuring Blood Pulse Wave Velocity with Bioimpedance in Different Age Groups. Sensors, 2019, 19, 850.	3.8	6
15	Detectability of the degree of freeze damage in meat depends on analytic-tool selection. Meat Science, 2019, 152, 8-19.	5.5	39
16	Information can be stored in the human skin memristor which has non-volatile memory. Scientific Reports, 2019, 9, 19260.	3.3	12
17	Non-invasive prediction of blood glucose trends during hypoglycemia. Analytica Chimica Acta, 2019, 1052, 37-48.	5.4	24
18	Small intestinal ischemia and reperfusionâ€™bioimpedance measurements. Physiological Measurement, 2018, 39, 025001.	2.1	8

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19	Exploring bioimpedance instrumentation for the characterization of open tubular liquid chromatography columns. <i>Journal of Chromatography A</i> , 2018, 1534, 195-200.	3.7	5
20	Electrodermal responses to discrete stimuli measured by skin conductance, skin potential, and skin susceptance. <i>Skin Research and Technology</i> , 2018, 24, 108-116.	1.6	40
21	Evaluation of Hypoglycaemia with Non-Invasive Sensors in People with Type 1 Diabetes and Impaired Awareness of Hypoglycaemia. <i>Scientific Reports</i> , 2018, 8, 14722.	3.3	12
22	The non-linear electrical properties of human skin make it a generic memristor. <i>Scientific Reports</i> , 2018, 8, 15806.	3.3	29
23	Influence of Relative Humidity on Electrodermal Levels and Responses. <i>Skin Pharmacology and Physiology</i> , 2018, 31, 298-307.	2.5	15
24	Polymer coated mucoadhesive liposomes intended for the management of xerostomia. <i>International Journal of Pharmaceutics</i> , 2017, 527, 72-78.	5.2	26
25	Ischemic small intestine "in vivo" versus "ex vivo" bioimpedance measurements. <i>Physiological Measurement</i> , 2017, 38, 715-728.	2.1	11
26	Comparison between the AC and DC measurement of electrodermal activity. <i>Psychophysiology</i> , 2017, 54, 374-385.	2.4	17
27	Assessment of skin permeability to topically applied drugs by skin impedance and admittance. <i>Physiological Measurement</i> , 2017, 38, N138-N150.	2.1	7
28	Instrumentation, electrode choice and challenges in human skin memristor measurement. , 2017, 2017, 1844-1848.		6
29	Comprehensive study of buffer systems and local pH effects in electromembrane extraction. <i>Analytica Chimica Acta</i> , 2017, 984, 116-123.	5.4	43
30	Detection of sympathoadrenal discharge by parameterisation of skin conductance and ECG measurement. , 2017, 2017, 3997-4000.		4
31	"In vivo" characterization of ischemic small intestine using bioimpedance measurements. <i>Physiological Measurement</i> , 2016, 37, 257-275.	2.1	22
32	Bioimpedance measurements of temporal changes in beating hearts. <i>Biomedical Physics and Engineering Express</i> , 2016, 2, 065015.	1.2	3
33	Water sorption properties of HM-pectin and liposomes intended to alleviate dry mouth. <i>International Journal of Pharmaceutics</i> , 2016, 506, 201-206.	5.2	9
34	Universality of AC conductance in human hair. <i>Biomedical Physics and Engineering Express</i> , 2016, 2, 027002.	1.2	6
35	Impedance Spectroscopic Characterisation of Porosity in 3D Cell Culture Scaffolds with Different Channel Networks. <i>Electroanalysis</i> , 2015, 27, 193-199.	2.9	16
36	Model-based filtering for artifact and noise suppression with state estimation for electrodermal activity measurements in real time. , 2015, 2015, 2750-3.		12

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37	Effects of stray capacitance to ground in three electrode monopolar needle bioimpedance measurements. , 2015, 2015, 7542-5.		1
38	Unintentional heating at implants when using electrosurgery. , 2015, 2015, 5805-8.		1
39	Conductometric analysis in bio-applications: A universal impedance spectroscopy-based approach using modified electrodes. Sensors and Actuators B: Chemical, 2015, 212, 544-550.	7.8	10
40	An impedance method for spatial sensing of 3D cell constructs " towards applications in tissue engineering. Analyst, The, 2015, 140, 6079-6088.	3.5	19
41	Bioimpedance monitoring of 3D cell culturing"Complementary electrode configurations for enhanced spatial sensitivity. Biosensors and Bioelectronics, 2015, 63, 72-79.	10.1	44
42	Wireless vital signs from a life-supporting medical device exposed to electromagnetic disturbance. Minimally Invasive Therapy and Allied Technologies, 2014, 23, 341-349.	1.2	1
43	Estimation of skin conductance at low frequencies using measurements at higher frequencies for EDA applications. Physiological Measurement, 2014, 35, 1011-1018.	2.1	8
44	Comparison of four different FIM configurations"a simulation study. Physiological Measurement, 2014, 35, 1067-1082.	2.1	9
45	Bioimpedance-Based Respiration Monitoring With a Defibrillator. IEEE Transactions on Biomedical Engineering, 2014, 61, 1858-1862.	4.2	12
46	Improved Estimation of Sweating Based on Electrical Properties of Skin. Annals of Biomedical Engineering, 2013, 41, 1074-1083.	2.5	16
47	Waveform difference between skin conductance and skin potential responses in relation to electrical and evaporative properties of skin. Psychophysiology, 2013, 50, 1070-1078.	2.4	30
48	Effect of a spherical object in 4 electrode Focused Impedance Method (FIM): measurement and simulation. Journal of Physics: Conference Series, 2013, 434, 012009.	0.4	2
49	Skin impedance measurements support ex-vivo penetration studies for topical applied drugs. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.8	3
50	Electrical Potential of Acupuncture Points: Use of a Noncontact Scanning Kelvin Probe. Evidence-based Complementary and Alternative Medicine, 2012, 2012, 1-8.	1.2	12
51	Applying the Kelvin probe to biological tissues: Theoretical and computational analyses. Physical Review E, 2012, 85, 061901.	2.1	8
52	The Initial Systolic Time Interval in patients with spinal cord injury measured with impedance cardiography. Journal of Physics: Conference Series, 2012, 407, 012025.	0.4	1
53	Conductivity enhancement of silver filled polymer composites through electric field alignment. Composites Science and Technology, 2012, 72, 1841-1847.	7.8	25
54	Conductivity Enhancement in Carbon Nanocone Adhesive by Electric Field Induced Formation of Aligned Assemblies. ACS Applied Materials & Interfaces, 2011, 3, 378-384.	8.0	34

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55	Bioimpedance for pain monitoring during cutaneous photodynamic therapy: Preliminary study. Photodiagnosis and Photodynamic Therapy, 2011, 8, 307-313.	2.6	8
56	Electrodermal activity by DC potential and AC conductance measured simultaneously at the same skin site. Skin Research and Technology, 2011, 17, 26-34.	1.6	28
57	Memristive model of electro-osmosis in skin. Physical Review E, 2011, 83, 031916.	2.1	46
58	Sorption Properties of the Human Stratum Corneum. Skin Pharmacology and Physiology, 2011, 24, 190-198.	2.5	11
59	Evaluation of algorithms for calculating bioimpedance phase angle values from measured whole-body impedance modulus. Physiological Measurement, 2011, 32, 755-765.	2.1	21
60	New Method for Separation of Electrode Polarization Impedance from Measured Tissue Impedance. Open Biomedical Engineering Journal, 2011, 5, 8-13.	0.5	24
61	Electrical Impedance of Stainless Steel Needle Electrodes. Annals of Biomedical Engineering, 2010, 38, 2371-2382.	2.5	25
62	A new approach for an estimation of the equilibrium stratum corneum water content. Skin Research and Technology, 2010, 16, 142-145.	1.6	8
63	A finite element model of needle electrode spatial sensitivity. Physiological Measurement, 2010, 31, 1369-1379.	2.1	11
64	Early detection of cardiac ischemia using a conductometric pCO ₂ sensor: real-time drift correction and parameterization. Physiological Measurement, 2010, 31, 1241-1255.	2.1	25
65	A study on electrode gels for skin conductance measurements. Physiological Measurement, 2010, 31, 1395-1410.	2.1	82
66	Invasive Electrical Impedance Tomography for Blood Vessel Detection. Open Biomedical Engineering Journal, 2010, 4, 135-137.	0.5	9
67	Impedance-based tissue discrimination for needle guidance. Physiological Measurement, 2009, 30, 129-140.	2.1	83
68	Behavior of carbon cone particle dispersions in electric and magnetic fields. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 339, 211-216.	4.7	20
69	Noise properties of the 3-electrode skin admittance measuring circuit. IFMBE Proceedings, 2009, , 720-722.	0.3	5
70	Estimation of In Vivo Water Content of the Stratum Corneum from Electrical Measurements. Open Biomedical Engineering Journal, 2009, 3, 8-12.	0.5	8
71	The concept of transfer impedance in bioimpedance measurements. IFMBE Proceedings, 2009, , 1078-1079.	0.3	7
72	Electrical properties of acupuncture points and meridians: A systematic review. Bioelectromagnetics, 2008, 29, 245-256.	1.6	204

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73	Water sorption and electrical properties of a human nail. <i>Skin Research and Technology</i> , 2008, 14, 142-146.	1.6	16
74	Electrical measurement of sweat activity. <i>Physiological Measurement</i> , 2008, 29, S407-S415.	2.1	48
75	Determination of tissue type surrounding a needle tip by electrical bioimpedance. , 2008, 2008, 2285-6.		9
76	Embedded instrumentation for skin admittance measurement. , 2008, 2008, 2373-6.		2
77	Stratum corneum in vivo water content from TEWL-measurements. , 2008, 2008, 3166-9.		1
78	Gravimetric Method for <i>in Vitro</i> Calibration of Skin Hydration Measurements. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 728-732.	4.2	33
79	Sources of error in tetrapolar impedance measurements on biomaterials and other ionic conductors. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 9-14.	2.8	151
80	Electrical Characterization of Acupuncture Points: Technical Issues and Challenges. <i>Journal of Alternative and Complementary Medicine</i> , 2007, 13, 817-824.	2.1	121
81	Comments on "Algorithm for Tissue Ischemia Estimation Based on Electrical Impedance Spectroscopy". <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 344-344.	4.2	1
82	Utilizing Characteristic Electrical Properties of the Epidermal Skin Layers to Detect Fake Fingers in Biometric Fingerprint Systems—A Pilot Study. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 891-894.	4.2	41
83	Water gradient and calibration of stratum corneum hydration measurements. , 2007, , 158-160.		4
84	Designing a PtCO ₂ sensor based on conductivity measurements. , 2007, , 300-303.		1
85	Needle position determined by tissue impedance. , 2007, , 205-208.		0
86	Cole Electrical Impedance Model—A Critique and an Alternative. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 132-135.	4.2	81
87	Electrode Polarization Impedance in Weak NaCl Aqueous Solutions. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 2093-2099.	4.2	93
88	A new biomedical sensor for measuring PCO ₂ . <i>Physiological Measurement</i> , 2004, 25, 421-436.	2.1	20
89	Miniaturization of a biomedical gas sensor. <i>Physiological Measurement</i> , 2004, 25, 1511-1522.	2.1	20
90	The Microfiltrimeter (MicroFM): a new filtration device for the assessment of less deformable erythrocyte subpopulations. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2004, 64, 108-112.	1.2	3

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91	Basic principles for evaluation of less deformable erythrocyte subpopulations with the Microfiltrimeter. Scandinavian Journal of Clinical and Laboratory Investigation, 2004, 64, 169-174.	1.2	1
92	Some Basic Techniques in Bioimpedance Research. AIP Conference Proceedings, 2004, , .	0.4	0
93	Authors reply to comments on "Line patterns in the mosaic electric properties of human skin-a cross correlation study". IEEE Transactions on Biomedical Engineering, 2003, 50, 114.	4.2	18
94	Skin Conductance Changes During the First Year of Life in Full-Term Infants. Pediatric Research, 2002, 52, 837-843.	2.3	43
95	Facts and Myths about Electrical Measurement of Stratum corneum Hydration State. Dermatology, 2001, 202, 87-89.	2.1	43
96	Authors reply. IEEE Transactions on Biomedical Engineering, 2001, 48, 945-946.	4.2	1
97	Line patterns in the mosaic electrical properties of human skin-a cross-correlation study. IEEE Transactions on Biomedical Engineering, 2001, 48, 731-734.	4.2	23
98	Non-invasive measurements of post-mortem changes in dielectric properties of haddock muscle " a pilot study. Journal of Food Engineering, 2000, 43, 189-192.	5.2	59
99	The development of a software program for analyzing spontaneous and externally elicited skin conductance changes in infants and adults. Clinical Neurophysiology, 2000, 111, 1889-1898.	1.5	61
100	Measuring depth depends on frequency in electrical skin impedance measurements. Skin Research and Technology, 1999, 5, 179-181.	1.6	93
101	Low Frequency Dielectric Dispersion of Microporous Membranes in Electrolyte Solution. Journal of Colloid and Interface Science, 1998, 199, 107-110.	9.4	21
102	Dielectric properties of some keratinised tissues. Part 1:Stratum corneum and nailin situ. Medical and Biological Engineering and Computing, 1997, 35, 172-176.	2.8	59
103	Dielectric properties of some keratinised tissues. Part 2: Human hair. Medical and Biological Engineering and Computing, 1997, 35, 177-180.	2.8	20
104	Electrical Methods for Skin Moisture Assessment. Skin Pharmacology and Physiology, 1995, 8, 237-245.	2.5	61
105	2D skin admittance mapping. , 0, , .		0