

Michael Czaplik

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,251
citations

331538

21
h-index

414303

32
g-index

73
all docs

73
docs citations

73
times ranked

1252
citing authors

#	ARTICLE	IF	CITATIONS
1	Remote monitoring of breathing dynamics using infrared thermography. <i>Biomedical Optics Express</i> , 2015, 6, 4378.	1.5	128
2	Technical and organisational feasibility of a multifunctional telemedicine system in an emergency medical service – an observational study. <i>Journal of Telemedicine and Telecare</i> , 2011, 17, 371-377.	1.4	75
3	Implementation phase of a multicentre prehospital telemedicine system to support paramedics: feasibility and possible limitations. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2013, 21, 54.	1.1	74
4	Technical Support by Smart Glasses During a Mass Casualty Incident: A Randomized Controlled Simulation Trial on Technically Assisted Triage and Telemedical App Use in Disaster Medicine. <i>Journal of Medical Internet Research</i> , 2019, 21, e11939.	2.1	51
5	Improved technical performance of a multifunctional prehospital telemedicine system between the research phase and the routine use phase – an observational study. <i>Journal of Telemedicine and Telecare</i> , 2017, 23, 402-409.	1.4	49
6	Estimation of breathing rate in thermal imaging videos: a pilot study on healthy human subjects. <i>Journal of Clinical Monitoring and Computing</i> , 2017, 31, 1241-1254.	0.7	48
7	Employment of Telemedicine in Emergency Medicine. <i>Methods of Information in Medicine</i> , 2014, 53, 99-107.	0.7	45
8	Contact-free monitoring of circulation and perfusion dynamics based on the analysis of thermal imagery. <i>Biomedical Optics Express</i> , 2014, 5, 1075.	1.5	37
9	Comparison of two in vivo microscopy techniques to visualize alveolar mechanics. <i>Journal of Clinical Monitoring and Computing</i> , 2009, 23, 323-332.	0.7	36
10	Electrical impedance tomography for predicting failure of spontaneous breathing trials in patients with prolonged weaning. <i>Critical Care</i> , 2017, 21, 177.	2.5	35
11	Monitoring of Cardiorespiratory Signals Using Thermal Imaging: A Pilot Study on Healthy Human Subjects. <i>Sensors</i> , 2018, 18, 1541.	2.1	35
12	Estimating Respiratory Rate in Post-Anesthesia Care Unit Patients Using Infrared Thermography: An Observational Study. <i>Sensors</i> , 2018, 18, 1618.	2.1	33
13	Utilization, Safety, and Technical Performance of a Telemedicine System for Prehospital Emergency Care: Observational Study. <i>Journal of Medical Internet Research</i> , 2019, 21, e14907.	2.1	30
14	Reducing Loneliness in Stationary Geriatric Care with Robots and Virtual Encounters – A Contribution to the COVID-19 Pandemic. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 4846.	1.2	29
15	Treatment of Acute Coronary Syndrome by Telemedically Supported Paramedics Compared With Physician-Based Treatment: A Prospective, Interventional, Multicenter Trial. <i>Journal of Medical Internet Research</i> , 2016, 18, e314.	2.1	28
16	Remote Welfare Monitoring of Rodents Using Thermal Imaging. <i>Sensors</i> , 2018, 18, 3653.	2.1	27
17	Telemedical support for prehospital Emergency Medical Service (TEMS trial): study protocol for a randomized controlled trial. <i>Trials</i> , 2017, 18, 43.	0.7	26
18	<p><p>Employment of Telemedicine in Nursing Homes: Clinical Requirement Analysis, System Development and First Test Results</p></p>. <i>Clinical Interventions in Aging</i> , 2020, Volume 15, 1427-1437.	1.3	26

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19	Optimizing PEEP by Electrical Impedance Tomography in a Porcine Animal Model of ARDS. <i>Respiratory Care</i> , 2017, 62, 340-349.	0.8	25
20	Neurological outcome after experimental lung injury. <i>Respiratory Physiology and Neurobiology</i> , 2011, 179, 174-180.	0.7	24
21	Thermoregulation in premature infants: A mathematical model. <i>Journal of Thermal Biology</i> , 2016, 62, 159-169.	1.1	24
22	UnoViS: the MedIT public unobtrusive vital signs database. <i>Health Information Science and Systems</i> , 2015, 3, 2.	3.4	23
23	Contactless monitoring of heart and respiratory rate in anesthetized pigs using infrared thermography. <i>PLoS ONE</i> , 2019, 14, e0224747.	1.1	23
24	Estimation of respiratory rate from thermal videos of preterm infants. , 2017, 2017, 3818-3821.		19
25	Expression analysis of the early chemokine response 4Âh after in vitro traumatic brain injury. <i>Inflammation Research</i> , 2011, 60, 379-387.	1.6	18
26	Xenon consumption during general surgery: a retrospective observational study. <i>Medical Gas Research</i> , 2013, 3, 12.	1.2	18
27	The Reliability and Accuracy of a Noncontact Electrocardiograph System for Screening Purposes. <i>Anesthesia and Analgesia</i> , 2012, 114, 322-327.	1.1	15
28	Psychoacoustic analysis of noise and the application of earplugs in an ICU. <i>European Journal of Anaesthesiology</i> , 2016, 33, 14-21.	0.7	15
29	In vivo microscopy in a porcine model of acute lung injury. <i>Respiratory Physiology and Neurobiology</i> , 2010, 172, 192-200.	0.7	14
30	Lung pathologies analyzed with multi-frequency electrical impedance tomography: Pilot animal study. <i>Respiratory Physiology and Neurobiology</i> , 2018, 254, 1-9.	0.7	13
31	Clinical proof of practicability for an ECG device without any conductive contact. <i>Biomedizinische Technik</i> , 2010, 55, 291-300.	0.9	12
32	Methods for quantitative evaluation of alveolar structure during in vivo microscopy. <i>Respiratory Physiology and Neurobiology</i> , 2011, 176, 123-129.	0.7	12
33	Application of internal electrodes to the oesophageal and tracheal tube in an animal trial: evaluation of its clinical and technical potentiality in electrical impedance tomography. <i>Journal of Clinical Monitoring and Computing</i> , 2014, 28, 299-308.	0.7	11
34	Why OR.NET? Requirements and perspectives from a medical userâ€™s, clinical operatorâ€™s and device manufacturerâ€™s points of view. <i>Biomedizinische Technik</i> , 2018, 63, 5-10.	0.9	11
35	Implementation of a full-scale prehospital telemedicine system: evaluation of the process and systemic effects in a preâ€™post intervention study. <i>BMJ Open</i> , 2021, 11, e041942.	0.8	11
36	Teleconsultation for preoperative evaluation during the coronavirus disease 2019 pandemic. <i>European Journal of Anaesthesiology</i> , 2021, 38, 1284-1292.	0.7	11

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37	Analysis of regional compliance in a porcine model of acute lung injury. <i>Respiratory Physiology and Neurobiology</i> , 2012, 184, 16-26.	0.7	10
38	Acute Pain Therapy in Postanesthesia Care Unit Directed by Skin Conductance: A Randomized Controlled Trial. <i>PLoS ONE</i> , 2012, 7, e41758.	1.1	10
39	Perspective review of optical imaging in welfare assessment in animal-based research. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	10
40	Comparison of manually triggered ventilation and bag-valve-mask ventilation during cardiopulmonary resuscitation in a manikin model. <i>Resuscitation</i> , 2012, 83, 488-493.	1.3	9
41	Severity assessment using three common behavioral or locomotor tests after laparotomy in rats: a pilot study. <i>Laboratory Animals</i> , 2020, 54, 525-535.	0.5	9
42	Comparison of two experimental ARDS models in pigs using electrical impedance tomography. <i>PLoS ONE</i> , 2019, 14, e0225218.	1.1	8
43	Remote vitals monitoring in rodents using video recordings. <i>Biomedical Optics Express</i> , 2019, 10, 4422.	1.5	8
44	Fibrin patch in a pig model with blunt liver injury under severe hypothermia. <i>Journal of Surgical Research</i> , 2014, 187, 616-624.	0.8	7
45	Improved electrode positions for local impedance measurements in the lung—a simulation study. <i>Physiological Measurement</i> , 2016, 37, 2111-2129.	1.2	7
46	Argon and helium plasma coagulation of porcine liver tissue. <i>Journal of International Medical Research</i> , 2017, 45, 1505-1517.	0.4	7
47	Augmented Reality for Guideline Presentation in Medicine: Randomized Crossover Simulation Trial for Technically Assisted Decision-making. <i>JMIR MHealth and UHealth</i> , 2021, 9, e17472.	1.8	7
48	Monitoring lung contusion in a porcine polytrauma model using EIT: an application study. <i>Physiological Measurement</i> , 2017, 38, 1542-1560.	1.2	4
49	Remote monitoring in emergency medical services. <i>Current Directions in Biomedical Engineering</i> , 2017, 3, 479-481.	0.2	4
50	An Anatomical Thermal 3D Model in Preclinical Research: Combining CT and Thermal Images. <i>Sensors</i> , 2021, 21, 1200.	2.1	4
51	Infection Probability Index: Implementation of an Automated Chronic Wound Infection Marker. <i>Journal of Clinical Medicine</i> , 2022, 11, 169.	1.0	4
52	Automatic Parameter Extraction from Capacitive ECG Measurements. <i>Cardiovascular Engineering and Technology</i> , 2012, 3, 319-332.	0.7	3
53	Addition of internal electrodes is beneficial for focused bioimpedance measurements in the lung. <i>Physiological Measurement</i> , 2018, 39, 035009.	1.2	3
54	Consciousness Detection on Injured Simulated Patients Using Manual and Automatic Classification via Visible and Infrared Imaging. <i>Sensors</i> , 2021, 21, 8455.	2.1	3

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55	On the road to predictive smart alarms based on a networked operating room. , 2012, , .		2
56	AUDIME: Augmented disaster medicine. , 2015, , .		2
57	Acceleration sensors in abdominal wall position as a non-invasive approach to detect early breathing alterations induced by intolerance of increased airway resistance. Journal of Cardiothoracic Surgery, 2017, 12, 96.	0.4	2
58	Evaluation of a bronchoscopy guidance system for bronchoscopy training, a randomized controlled trial. BMC Medical Education, 2019, 19, 430.	1.0	2
59	Monitoring postoperative lung recovery using electrical impedance tomography in post anesthesia care unit: an observational study. Journal of Clinical Monitoring and Computing, 2021, , 1.	0.7	2
60	Pain drawing as a screening tool for anxiety, depression and reduced health-related quality of life in back pain patients: A cohort study. PLoS ONE, 2021, 16, e0258329.	1.1	2
61	Assessment of Plasma Coagulation on Liver Tissue in a Large Animal Model <i>In Vivo</i> . Journal of Visualized Experiments, 2018, , .	0.2	1
62	Evaluation of a new non-invasive measurement technique based on bioimpedance spectroscopy to estimate blood alcohol content: a pilot study. Biomedizinische Technik, 2019, 64, 365-371.	0.9	1
63	Contactless Anesthesia Monitoring in Spontaneously Breathing Rodents. , 2019, 2019, 6077-6080.		1
64	Evaluation of an Anesthesia Dashboard Functional Model Based on a Manufacturer-Independent Communication Standard: Comparative Feasibility Study. JMIR Human Factors, 2019, 6, e12553.	1.0	1
65	Telemedizin in der Notfallmedizin. , 2021, , 137-147.		1
66	Session 58. Imaging and image processing V " Miscellaneous. Biomedizinische Technik, 2017, 62, .	0.9	0
67	Session 40: Trends in patient monitoring and emergency care. Biomedizinische Technik, 2017, 62, .	0.9	0