

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	Infection Probability Index: Implementation of an Automated Chronic Wound Infection Marker. <i>Journal of Clinical Medicine</i> , 2022, 11, 169.	1.0	4
2	An Anatomical Thermal 3D Model in Preclinical Research: Combining CT and Thermal Images. <i>Sensors</i> , 2021, 21, 1200.	2.1	4
3	Implementation of a full-scale prehospital telemedicine system: evaluation of the process and systemic effects in a pre-“post intervention study. <i>BMJ Open</i> , 2021, 11, e041942.	0.8	11
4	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
5	Monitoring postoperative lung recovery using electrical impedance tomography in post anesthesia care unit: an observational study. <i>Journal of Clinical Monitoring and Computing</i> , 2021, , 1.	0.7	2
6	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
7	Teleconsultation for preoperative evaluation during the coronavirus disease 2019 pandemic. <i>European Journal of Anaesthesiology</i> , 2021, 38, 1284-1292.	0.7	11
8	Pain drawing as a screening tool for anxiety, depression and reduced health-related quality of life in back pain patients: A cohort study. <i>PLoS ONE</i> , 2021, 16, e0258329.	1.1	2
9	Telemedizin in der Notfallmedizin. , 2021, , 137-147.		1
10	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
11	<p>Employment of Telemedicine in Nursing Homes: Clinical Requirement Analysis, System Development and First Test Results</p>. <i>Clinical Interventions in Aging</i> , 2020, Volume 15, 1427-1437.	1.3	26
12	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
13	Evaluation of a new non-invasive measurement technique based on bioimpedance spectroscopy to estimate blood alcohol content: a pilot study. <i>Biomedizinische Technik</i> , 2019, 64, 365-371.	0.9	1
14	Contactless monitoring of heart and respiratory rate in anesthetized pigs using infrared thermography. <i>PLoS ONE</i> , 2019, 14, e0224747.	1.1	23
15	Comparison of two experimental ARDS models in pigs using electrical impedance tomography. <i>PLoS ONE</i> , 2019, 14, e0225218.	1.1	8
16	Contactless Anesthesia Monitoring in Spontaneously Breathing Rodents. , 2019, 2019, 6077-6080.		1
17	Evaluation of a bronchoscopy guidance system for bronchoscopy training, a randomized controlled trial. <i>BMC Medical Education</i> , 2019, 19, 430.	1.0	2
18	Perspective review of optical imaging in welfare assessment in animal-based research. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	10

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19	Remote vitals monitoring in rodents using video recordings. <i>Biomedical Optics Express</i> , 2019, 10, 4422.	1.5	8
20	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
21	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
22	Evaluation of an Anesthesia Dashboard Functional Model Based on a Manufacturer-Independent Communication Standard: Comparative Feasibility Study. <i>JMIR Human Factors</i> , 2019, 6, e12553.	1.0	1
23	Addition of internal electrodes is beneficial for focused bioimpedance measurements in the lung. <i>Physiological Measurement</i> , 2018, 39, 035009.	1.2	3
24	Why OR.NET? Requirements and perspectives from a medical user's, clinical operator's and device manufacturer's points of view. <i>Biomedizinische Technik</i> , 2018, 63, 5-10.	0.9	11
25	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
26	Remote Welfare Monitoring of Rodents Using Thermal Imaging. <i>Sensors</i> , 2018, 18, 3653.	2.1	27
27	Monitoring of Cardiorespiratory Signals Using Thermal Imaging: A Pilot Study on Healthy Human Subjects. <i>Sensors</i> , 2018, 18, 1541.	2.1	35
28	Estimating Respiratory Rate in Post-Anesthesia Care Unit Patients Using Infrared Thermography: An Observational Study. <i>Sensors</i> , 2018, 18, 1618.	2.1	33
29	Assessment of Plasma Coagulation on Liver Tissue in a Large Animal Model <i>In Vivo</i> . <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	1
30	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
31	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
32	Monitoring lung contusion in a porcine polytrauma model using EIT: an application study. <i>Physiological Measurement</i> , 2017, 38, 1542-1560.	1.2	4
33	Optimizing PEEP by Electrical Impedance Tomography in a Porcine Animal Model of ARDS. <i>Respiratory Care</i> , 2017, 62, 340-349.	0.8	25
34	Argon and helium plasma coagulation of porcine liver tissue. <i>Journal of International Medical Research</i> , 2017, 45, 1505-1517.	0.4	7
35	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
36	Estimation of respiratory rate from thermal videos of preterm infants. , 2017, 2017, 3818-3821.		19

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37	Session 58. Imaging and image processing V â€“ Miscellaneous. Biomedizinische Technik, 2017, 62, .	0.9	0
38	Remote monitoring in emergency medical services. Current Directions in Biomedical Engineering, 2017, 3, 479-481.	0.2	4
39	Session 40: Trends in patient monitoring and emergency care. Biomedizinische Technik, 2017, 62, .	0.9	0
40	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
41	Electrical impedance tomography for predicting failure of spontaneous breathing trials in patients with prolonged weaning. Critical Care, 2017, 21, 177.	2.5	35
42	Thermoregulation in premature infants: A mathematical model. Journal of Thermal Biology, 2016, 62, 159-169.	1.1	24
43	Psychoacoustic analysis of noise and the application of earplugs in an ICU. European Journal of Anaesthesiology, 2016, 33, 14-21.	0.7	15
44	Improved electrode positions for local impedance measurements in the lungâ€™a simulation study. Physiological Measurement, 2016, 37, 2111-2129.	1.2	7
45	Treatment of Acute Coronary Syndrome by Telemedically Supported Paramedics Compared With Physician-Based Treatment: A Prospective, Interventional, Multicenter Trial. Journal of Medical Internet Research, 2016, 18, e314.	2.1	28
46	Remote monitoring of breathing dynamics using infrared thermography. Biomedical Optics Express, 2015, 6, 4378.	1.5	128
47	AUDIME: Augmented disaster medicine. , 2015, , .		2
48	UnoViS: the MedIT public unobtrusive vital signs database. Health Information Science and Systems, 2015, 3, 2.	3.4	23
49	Employment of Telemedicine in Emergency Medicine. Methods of Information in Medicine, 2014, 53, 99-107.	0.7	45
50	Contact-free monitoring of circulation and perfusion dynamics based on the analysis of thermal imagery. Biomedical Optics Express, 2014, 5, 1075.	1.5	37
51	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. Journal of Clinical Monitoring and Computing, 2014, 28, 299-308.	0.7	11
52	Fibrin patch in a pig model with blunt liver injury under severe hypothermia. Journal of Surgical Research, 2014, 187, 616-624.	0.8	7
53	Implementation phase of a multicentre prehospital telemedicine system to support paramedics: feasibility and possible limitations. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 2013, 21, 54.	1.1	74
54	Xenon consumption during general surgery: a retrospective observational study. Medical Gas Research, 2013, 3, 12.	1.2	18

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55	The Reliability and Accuracy of a Noncontact Electrocardiograph System for Screening Purposes. <i>Anesthesia and Analgesia</i> , 2012, 114, 322-327.	1.1	15
56	Automatic Parameter Extraction from Capacitive ECG Measurements. <i>Cardiovascular Engineering and Technology</i> , 2012, 3, 319-332.	0.7	3
57	On the road to predictive smart alarms based on a networked operating room. , 2012, , .		2
58	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
59	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
60	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
61	Methods for quantitative evaluation of alveolar structure during in vivo microscopy. <i>Respiratory Physiology and Neurobiology</i> , 2011, 176, 123-129.	0.7	12
62	Neurological outcome after experimental lung injury. <i>Respiratory Physiology and Neurobiology</i> , 2011, 179, 174-180.	0.7	24
63	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
64	Technical and organisational feasibility of a multifunctional telemedicine system in an emergency medical service â€“ an observational study. <i>Journal of Telemedicine and Telecare</i> , 2011, 17, 371-377.	1.4	75
65	In vivo microscopy in a porcine model of acute lung injury. <i>Respiratory Physiology and Neurobiology</i> , 2010, 172, 192-200.	0.7	14
66	Clinical proof of practicability for an ECG device without any conductive contact. <i>Biomedizinische Technik</i> , 2010, 55, 291-300.	0.9	12
67	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