

Andy Adler

List of Publications by Year in Descending Order

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

106
papers

4,131
citations

30
h-index

63
g-index

114
ext. papers

4,994
ext. citations

3.9
avg, IF

5.54
L-index

#	Paper	IF	Citations
106	Conventional vs high-frequency ventilation for weaning from total liquid ventilation in lambs.. <i>Respiratory Physiology and Neurobiology</i> , 2022 , 299, 103867	2.8	
105	Respiratory image analysis 2022 , 169-212		0
104	Detection of Leak From Left Atrial Appendage Occlusion Using Dielectric Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 2110-2116	5	
103	Lung regions identified with CT improve the value of global inhomogeneity index measured with electrical impedance tomography. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021 , 11, 1209-1219	3.6	6
102	Can bronchoconstriction and bronchodilatation in horses be detected using electrical impedance tomography?. <i>Journal of Veterinary Internal Medicine</i> , 2021 , 35, 2035-2044	3.1	2
101	The use of electrical impedance tomography (EIT) to evaluate pulse rate in anaesthetised horses. <i>Veterinary Journal</i> , 2021 , 273, 105694	2.5	0
100	Effects of PEEP on the relationship between tidal volume and total impedance change measured via electrical impedance tomography (EIT). <i>Journal of Clinical Monitoring and Computing</i> , 2021 , 1	2	2
99	The use of electrical impedance tomography for individualized ventilation strategy in COVID-19: a case report. <i>BMC Pulmonary Medicine</i> , 2021 , 21, 38	3.5	5
98	Imaging the Respiratory Transition at Birth: Unraveling the Complexities of the First Breaths of Life. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021 , 204, 82-91	10.2	7
97	Thoracic weighting of restrained subjects during exhaustion recovery causes loss of lung reserve volume in a model of police arrest. <i>Scientific Reports</i> , 2021 , 11, 15166	4.9	0
96	Air distribution within the lungs after total liquid ventilation in a neonatal ovine model. <i>Respiratory Physiology and Neurobiology</i> , 2021 , 290, 103666	2.8	1
95	Electrical impedance tomography to measure lung ventilation distribution in healthy horses and horses with left-sided cardiac volume overload. <i>Journal of Veterinary Internal Medicine</i> , 2021 , 35, 2511-2523	3.1	1
94	Non-invasive pulmonary artery pressure estimation by electrical impedance tomography in a controlled hypoxemia study in healthy subjects. <i>Scientific Reports</i> , 2020 , 10, 21462	4.9	5
93	Beneficial techniques for spatio-temporal imaging in electrical impedance tomography. <i>Physiological Measurement</i> , 2020 , 41, 064003	2.9	2
92	Monitoring bronchoalveolar lavage with electrical impedance tomography: first experience in a patient with COVID-19. <i>Physiological Measurement</i> , 2020 , 41, 085008	2.9	4
91	Incremental effect of non-invasive oscillating device on chest physiotherapy in critically ill children: a cross-over randomised trial. <i>BMJ Open</i> , 2020 , 10, e038648	3	0
90	The Effect of Internal Electrodes on Electrical Impedance Tomography Sensitivity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 1457-1460	0.9	0

89	Influence of reconstruction settings in electrical impedance tomography on figures of merit and physiological parameters. <i>Physiological Measurement</i> , 2019 , 40, 094003	2.9	2
88	Evaluation of Electrical Resistance Tomography imaging algorithms to monitor settling slurry pipe flow. <i>Flow Measurement and Instrumentation</i> , 2019 , 68, 101572	2.2	12
87	Thoracic EIT in 3D: experiences and recommendations. <i>Physiological Measurement</i> , 2019 , 40, 074006	2.9	6
86	Electrical Impedance Tomography 2019 , 1-16		4
85	Evaluation of the signal quality of wrist-based photoplethysmography. <i>Physiological Measurement</i> , 2019 , 40, 065008	2.9	11
84	Detection of pulmonary oedema by electrical impedance tomography: validation of previously proposed approaches in a clinical setting. <i>Physiological Measurement</i> , 2019 , 40, 054008	2.9	5
83	Comparison of bolus- and filtering-based EIT measures of lung perfusion in an animal model. <i>Physiological Measurement</i> , 2019 , 40, 054002	2.9	2
82	Comparing D-bar and common regularization-based methods for electrical impedance tomography. <i>Physiological Measurement</i> , 2019 , 40, 044004	2.9	11
81	Wearable Sensors for Frequency-Multiplexed EIT and Multilead ECG Data Acquisition. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 810-820	5	31
80	Left atrial imaging and registration of fibrosis with conduction voltages using LGE-MRI and electroanatomical mapping. <i>Computers in Biology and Medicine</i> , 2019 , 111, 103341	7	1
79	Electrical impedance tomography identifies a distinct change in regional phase angle delay pattern in ventilation filling immediately prior to a spontaneous pneumothorax. <i>Journal of Applied Physiology</i> , 2019 , 127, 707-712	3.7	0
78	Electrical Impedance Tomography Can Identify Ventilation and Perfusion Defects: A Neonatal Case. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 199, 384-386	10.2	21
77	Jointly reconstructing ground motion and resistivity for ERT-based slope stability monitoring. <i>Geophysical Journal International</i> , 2018 , 212, 1167-1182	2.6	15
76	Accuracy and reliability of noninvasive stroke volume monitoring via ECG-gated 3D electrical impedance tomography in healthy volunteers. <i>PLoS ONE</i> , 2018 , 13, e0191870	3.7	20
75	Perflubron Distribution During Transition From Gas to Total Liquid Ventilation. <i>Frontiers in Physiology</i> , 2018 , 9, 1723	4.6	3
74	A Versatile Noise Performance Metric for Electrical Impedance Tomography Algorithms. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2321-2330	5	20
73	Chest electrical impedance tomography examination, data analysis, terminology, clinical use and recommendations: consensus statement of the TRanslational EIT developmentNt stuDY group. <i>Thorax</i> , 2017 , 72, 83-93	7.3	348
72	Time to lung aeration during a sustained inflation at birth is influenced by gestation in lambs. <i>Pediatric Research</i> , 2017 , 82, 712-720	3.2	15

71	Electrical impedance tomography for non-invasive assessment of stroke volume variation in health and experimental lung injury. <i>British Journal of Anaesthesia</i> , 2017 , 118, 68-76	5.4	7
70	Lobe based image reconstruction in Electrical Impedance Tomography. <i>Medical Physics</i> , 2017 , 44, 426-436	4.4	6
69	Electrical Impedance Tomography: Tissue Properties to Image Measures. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2494-2504	5	109
68	Biometric Permanence: Definition and Robust Calculation 2017 ,		3
67	Optimally Repeatable Kinetic Model Variant for Myocardial Blood Flow Measurements with Rb PET. <i>Computational and Mathematical Methods in Medicine</i> , 2017 , 2017, 6810626	2.8	5
66	Effectiveness of individualized lung recruitment strategies at birth: an experimental study in preterm lambs. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017 , 312, L32-L41	5.8	20
65	Validation of the Empatica E4 wristband 2016 ,		67
64	Non-invasive monitoring of pulmonary artery pressure from timing information by EIT: experimental evaluation during induced hypoxia. <i>Physiological Measurement</i> , 2016 , 37, 713-26	2.9	18
63	Assessment of distribution of ventilation by electrical impedance tomography in standing horses. <i>Physiological Measurement</i> , 2016 , 37, 175-86	2.9	15
62	Spatiotemporal Aeration and Lung Injury Patterns Are Influenced by the First Inflation Strategy at Birth. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016 , 54, 263-72	5.7	29
61	Electrical impedance tomography (EIT) for quantification of pulmonary edema in acute lung injury. <i>Critical Care</i> , 2016 , 20, 18	10.8	34
60	3D EIT image reconstruction with GREIT. <i>Physiological Measurement</i> , 2016 , 37, 785-800	2.9	29
59	Electrical impedance tomography in 3D using two electrode planes: characterization and evaluation. <i>Physiological Measurement</i> , 2016 , 37, 922-37	2.9	15
58	Automated robust test framework for electrical impedance tomography. <i>Physiological Measurement</i> , 2015 , 36, 1227-44	2.9	8
57	Aortic blood pressure measured via EIT: investigation of different measurement settings. <i>Physiological Measurement</i> , 2015 , 36, 1147-59	2.9	10
56	A comparison framework for temporal image reconstructions in electrical impedance tomography. <i>Physiological Measurement</i> , 2015 , 36, 1093-107	2.9	7
55	An individualized approach to sustained inflation duration at birth improves outcomes in newborn preterm lambs. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015 , 309, L1138-49	5.8	32
54	Imaging of Compact Objects Buried in Underwater Sediments Using Electrical Impedance Tomography. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 1407-1417	8.1	24

53	Functional validation and comparison framework for EIT lung imaging. <i>PLoS ONE</i> , 2014 , 9, e103045	3.7	13
52	Internet of Things: Remote Patient Monitoring Using Web Services and Cloud Computing 2014 ,		76
51	Uniform background assumption produces misleading lung EIT images. <i>Physiological Measurement</i> , 2013 , 34, 579-93	2.9	24
50	FEM electrode refinement for electrical impedance tomography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6429-32	0.9	22
49	Shape deformation in two-dimensional electrical impedance tomography. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 2185-93	11.7	32
48	Impact of model shape mismatch on reconstruction quality in electrical impedance tomography. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1754-60	11.7	64
47	Toward morphological thoracic EIT: major signal sources correspond to respective organ locations in CT. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 3000-8	5	31
46	2.5D finite element method for electrical impedance tomography considering the complete electrode model 2012 ,		6
45	Electrical impedance tomography system based on active electrodes. <i>Physiological Measurement</i> , 2012 , 33, 831-47	2.9	53
44	Whither lung EIT: where are we, where do we want to go and what do we need to get there?. <i>Physiological Measurement</i> , 2012 , 33, 679-94	2.9	123
43	Off-line Uyghur signature recognition based on modified grid information features 2012 ,		8
42	Addressing the computational cost of large EIT solutions. <i>Physiological Measurement</i> , 2012 , 33, 787-800	2.9	15
41	Measuring Biometric Sample Quality in terms of Biometric Feature Information in Iris Images. <i>Journal of Electrical and Computer Engineering</i> , 2012 , 2012, 1-9	1.9	7
40	Adjacent stimulation and measurement patterns considered harmful. <i>Physiological Measurement</i> , 2011 , 32, 731-44	2.9	65
39	Non-invasive monitoring of central blood pressure by electrical impedance tomography: first experimental evidence. <i>Medical and Biological Engineering and Computing</i> , 2011 , 49, 409-15	3.1	39
38	The impact of electrode area, contact impedance and boundary shape on EIT images. <i>Physiological Measurement</i> , 2011 , 32, 745-54	2.9	59
37	Minimizing EIT image artefacts from mesh variability in finite element models. <i>Physiological Measurement</i> , 2011 , 32, 823-34	2.9	10
36	Development of a performance calibration system for X-26 tasers 2010 ,		1

35	Intra- and inter-operator repeatability of myocardial blood flow and myocardial flow reserve measurements using rubidium-82 pet and a highly automated analysis program. <i>Journal of Nuclear Cardiology</i> , 2010 , 17, 600-16	2.1	108
34	An ultrasonic technique for imaging of tissue motion due to muscle contraction 2009 ,		7
33	GREIT: a unified approach to 2D linear EIT reconstruction of lung images. <i>Physiological Measurement</i> , 2009 , 30, S35-55	2.9	399
32	Fingerprint recognition performance in rugged outdoors and cold weather conditions 2009 ,		5
31	FOUR-DIMENSIONAL ELECTRICAL CAPACITANCE TOMOGRAPHY IMAGING USING EXPERIMENTAL DATA. <i>Progress in Electromagnetics Research</i> , 2009 , 90, 171-186	3.8	96
30	Detection of unreliable measurements in multi-sensor devices 2008 ,		4
29	Model-based factor analysis of dynamic sequences of cardiac positron emission tomography 2008 ,		4
28	A measure of the information content of EIT data. <i>Physiological Measurement</i> , 2008 , 29, S101-9	2.9	11
27	EIT image reconstruction with four dimensional regularization. <i>Medical and Biological Engineering and Computing</i> , 2008 , 46, 889-99	3.1	9
26	Electrode placement configurations for 3D EIT. <i>Physiological Measurement</i> , 2007 , 28, S29-44	2.9	47
25	Temporal image reconstruction in electrical impedance tomography. <i>Physiological Measurement</i> , 2007 , 28, S1-11	2.9	54
24	Comparing human and automatic face recognition performance. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2007 , 37, 1248-55		19
23	Objective selection of hyperparameter for EIT. <i>Physiological Measurement</i> , 2006 , 27, S65-79	2.9	71
22	Imaging of conductivity changes and electrode movement in EIT. <i>Physiological Measurement</i> , 2006 , 27, S103-13	2.9	71
21	Blood Impedance Characterization from Pulsatile Measurements 2006 ,		8
20	Uses and abuses of EIDORS: an extensible software base for EIT. <i>Physiological Measurement</i> , 2006 , 27, S25-42	2.9	452
19	Fully Automated Software for Polar-Map Registration and Sampling from PET Images 2006 ,		8
18	Measuring Biometric Sample Quality in Terms of Biometric Information 2006 ,		11

17	Evaluating and implementing a collaborative office document system. <i>Interacting With Computers</i> , 2006 , 18, 665-682	1.6	10
16	Accounting for erroneous electrode data in electrical impedance tomography. <i>Physiological Measurement</i> , 2004 , 25, 227-38	2.9	19
15	Unrestrained plethysmography is an unreliable measure of airway responsiveness in BALB/c and C57BL/6 mice. <i>Journal of Applied Physiology</i> , 2004 , 97, 286-92	3.7	165
14	A reevaluation of the validity of unrestrained plethysmography in mice. <i>Journal of Applied Physiology</i> , 2002 , 93, 1198-207	3.7	211
13	The late, but not early, asthmatic response is dependent on IL-5 and correlates with eosinophil infiltration. <i>Journal of Clinical Investigation</i> , 1999 , 104, 301-8	15.9	150
12	Monitoring changes in lung air and liquid volumes with electrical impedance tomography. <i>Journal of Applied Physiology</i> , 1997 , 83, 1762-7	3.7	124
11	Electrical impedance tomography: regularized imaging and contrast detection. <i>IEEE Transactions on Medical Imaging</i> , 1996 , 15, 170-9	11.7	180
10	Impedance imaging of lung ventilation: do we need to account for chest expansion?. <i>IEEE Transactions on Biomedical Engineering</i> , 1996 , 43, 414-20	5	90
9	Eddy Current Based Flexible Sensor for Contactless Measurement of Breathing		17
8	Automatic Identification of Participants in Haptic Systems		9
7	Participant identification in haptic systems using hidden Markov models		1
6	An Improved Visual Cryptography Scheme for Secret Hiding		6
5	Sample images can be independently restored from face recognition templates		56
4	Images can be regenerated from quantized biometric match score data		26
3	A stroke based algorithm for dynamic signature verification		2
2	An improved method for muscle activation detection during gait		8
1	Automatic face recognition system architecture for collaborative virtual environments		4