

Andy Adler

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3502652/andy-adler-publications-by-citations.pdf>

Version: 2024-04-29

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.

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	Uses and abuses of EIDORS: an extensible software base for EIT. <i>Physiological Measurement</i> , 2006 , 27, S25-42	2.9	452
105	GREIT: a unified approach to 2D linear EIT reconstruction of lung images. <i>Physiological Measurement</i> , 2009 , 30, S35-55	2.9	399
104	Chest electrical impedance tomography examination, data analysis, terminology, clinical use and recommendations: consensus statement of the TRanslational EIT development stuDY group. <i>Thorax</i> , 2017 , 72, 83-93	7.3	348
103	A reevaluation of the validity of unrestrained plethysmography in mice. <i>Journal of Applied Physiology</i> , 2002 , 93, 1198-207	3.7	211
102	Electrical impedance tomography: regularized imaging and contrast detection. <i>IEEE Transactions on Medical Imaging</i> , 1996 , 15, 170-9	11.7	180
101	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
100	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
99	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
98	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
97	Electrical Impedance Tomography: Tissue Properties to Image Measures. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2494-2504	5	109
96	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
95	FOUR-DIMENSIONAL ELECTRICAL CAPACITANCE TOMOGRAPHY IMAGING USING EXPERIMENTAL DATA. <i>Progress in Electromagnetics Research</i> , 2009 , 90, 171-186	3.8	96
94	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
93	Internet of Things: Remote Patient Monitoring Using Web Services and Cloud Computing 2014 ,		76
92	Objective selection of hyperparameter for EIT. <i>Physiological Measurement</i> , 2006 , 27, S65-79	2.9	71
91	Imaging of conductivity changes and electrode movement in EIT. <i>Physiological Measurement</i> , 2006 , 27, S103-13	2.9	71
90	Validation of the Empatica E4 wristband 2016 ,		67

89	Adjacent stimulation and measurement patterns considered harmful. <i>Physiological Measurement</i> , 2011 , 32, 731-44	2.9	65
88	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
87	The impact of electrode area, contact impedance and boundary shape on EIT images. <i>Physiological Measurement</i> , 2011 , 32, 745-54	2.9	59
86	Sample images can be independently restored from face recognition templates		56
85	Temporal image reconstruction in electrical impedance tomography. <i>Physiological Measurement</i> , 2007 , 28, S1-11	2.9	54
84	Electrical impedance tomography system based on active electrodes. <i>Physiological Measurement</i> , 2012 , 33, 831-47	2.9	53
83	Electrode placement configurations for 3D EIT. <i>Physiological Measurement</i> , 2007 , 28, S29-44	2.9	47
82	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
81	Electrical impedance tomography (EIT) for quantification of pulmonary edema in acute lung injury. <i>Critical Care</i> , 2016 , 20, 18	10.8	34
80	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
79	Shape deformation in two-dimensional electrical impedance tomography. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 2185-93	11.7	32
78	Wearable Sensors for Frequency-Multiplexed EIT and Multilead ECG Data Acquisition. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 810-820	5	31
77	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
76	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
75	3D EIT image reconstruction with GREIT. <i>Physiological Measurement</i> , 2016 , 37, 785-800	2.9	29
74	Images can be regenerated from quantized biometric match score data		26
73	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
72	Uniform background assumption produces misleading lung EIT images. <i>Physiological Measurement</i> , 2013 , 34, 579-93	2.9	24

71	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
70	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
69	A Versatile Noise Performance Metric for Electrical Impedance Tomography Algorithms. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2321-2330	5	20
68	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
67	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
66	Comparing human and automatic face recognition performance. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2007 , 37, 1248-55		19
65	Accounting for erroneous electrode data in electrical impedance tomography. <i>Physiological Measurement</i> , 2004 , 25, 227-38	2.9	19
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	Eddy Current Based Flexible Sensor for Contactless Measurement of Breathing		17
62	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
61	Jointly reconstructing ground motion and resistivity for ERT-based slope stability monitoring. <i>Geophysical Journal International</i> , 2018 , 212, 1167-1182	2.6	15
60	Assessment of distribution of ventilation by electrical impedance tomography in standing horses. <i>Physiological Measurement</i> , 2016 , 37, 175-86	2.9	15
59	Addressing the computational cost of large EIT solutions. <i>Physiological Measurement</i> , 2012 , 33, 787-800	2.9	15
58	Electrical impedance tomography in 3D using two electrode planes: characterization and evaluation. <i>Physiological Measurement</i> , 2016 , 37, 922-37	2.9	15
57	Functional validation and comparison framework for EIT lung imaging. <i>PLoS ONE</i> , 2014 , 9, e103045	3.7	13
56	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
55	Evaluation of the signal quality of wrist-based photoplethysmography. <i>Physiological Measurement</i> , 2019 , 40, 065008	2.9	11
54	Comparing D-bar and common regularization-based methods for electrical impedance tomography. <i>Physiological Measurement</i> , 2019 , 40, 044004	2.9	11

53	A measure of the information content of EIT data. <i>Physiological Measurement</i> , 2008 , 29, S101-9	2.9	11
52	Measuring Biometric Sample Quality in Terms of Biometric Information 2006 ,		11
51	Aortic blood pressure measured via EIT: investigation of different measurement settings. <i>Physiological Measurement</i> , 2015 , 36, 1147-59	2.9	10
50	Evaluating and implementing a collaborative office document system. <i>Interacting With Computers</i> , 2006 , 18, 665-682	1.6	10
49	Minimizing EIT image artefacts from mesh variability in finite element models. <i>Physiological Measurement</i> , 2011 , 32, 823-34	2.9	10
48	EIT image reconstruction with four dimensional regularization. <i>Medical and Biological Engineering and Computing</i> , 2008 , 46, 889-99	3.1	9
47	Automatic Identification of Participants in Haptic Systems		9
46	Automated robust test framework for electrical impedance tomography. <i>Physiological Measurement</i> , 2015 , 36, 1227-44	2.9	8
45	Off-line Uyghur signature recognition based on modified grid information features 2012 ,		8
44	Blood Impedance Characterization from Pulsatile Measurements 2006 ,		8
43	Fully Automated Software for Polar-Map Registration and Sampling from PET Images 2006 ,		8
42	An improved method for muscle activation detection during gait		8
41	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
40	A comparison framework for temporal image reconstructions in electrical impedance tomography. <i>Physiological Measurement</i> , 2015 , 36, 1093-107	2.9	7
39	An ultrasonic technique for imaging of tissue motion due to muscle contraction 2009 ,		7
38	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
37	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
36	Lobe based image reconstruction in Electrical Impedance Tomography. <i>Medical Physics</i> , 2017 , 44, 426-436	4.4	6

35	Thoracic EIT in 3D: experiences and recommendations. <i>Physiological Measurement</i> , 2019 , 40, 074006	2.9	6
34	2.5D finite element method for electrical impedance tomography considering the complete electrode model 2012 ,		6
33	An Improved Visual Cryptography Scheme for Secret Hiding		6
32	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
31	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
30	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
29	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
28	Fingerprint recognition performance in rugged outdoors and cold weather conditions 2009 ,		5
27	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
26	Electrical Impedance Tomography 2019 , 1-16		4
25	Detection of unreliable measurements in multi-sensor devices 2008 ,		4
24	Model-based factor analysis of dynamic sequences of cardiac positron emission tomography 2008 ,		4
23	Automatic face recognition system architecture for collaborative virtual environments		4
22	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
21	Biometric Permanence: Definition and Robust Calculation 2017 ,		3
20	Perflubron Distribution During Transition From Gas to Total Liquid Ventilation. <i>Frontiers in Physiology</i> , 2018 , 9, 1723	4.6	3
19	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
18	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

17	Beneficial techniques for spatio-temporal imaging in electrical impedance tomography. <i>Physiological Measurement</i> , 2020 , 41, 064003	2.9	2
16	A stroke based algorithm for dynamic signature verification		2
15	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
14	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
13	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
12	Development of a performance calibration system for X-26 tasers 2010 ,		1
11	Participant identification in haptic systems using hidden Markov models		1
10	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
9	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
8	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
7	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
6	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
5	The use of electrical impedance tomography (EIT) to evaluate pulse rate in anaesthetised horses. <i>Veterinary Journal</i> , 2021 , 273, 105694	2.5	0
4	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
3	Respiratory image analysis 2022 , 169-212		0
2	Conventional vs high-frequency ventilation for weaning from total liquid ventilation in lambs.. <i>Respiratory Physiology and Neurobiology</i> , 2022 , 299, 103867	2.8	
1	Detection of Leak From Left Atrial Appendage Occlusion Using Dielectric Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 2110-2116	5	