

BartÅœmiej Grychtol

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,850
citations

430874

18
h-index

454955

30
g-index

34
all docs

34
docs citations

34
times ranked

1360
citing authors

#	ARTICLE	IF	CITATIONS
1	Chest electrical impedance tomography examination, data analysis, terminology, clinical use and recommendations: consensus statement of the TRanslational EIT developmEnt stuDY group. Thorax, 2017, 72, 83-93.	5.6	580
2	GREIT: a unified approach to 2D linear EIT reconstruction of lung images. Physiological Measurement, 2009, 30, S35-S55.	2.1	520
3	Impact of Model Shape Mismatch on Reconstruction Quality in Electrical Impedance Tomography. IEEE Transactions on Medical Imaging, 2012, 31, 1754-1760.	8.9	78
4	Regional lung volume changes in children with acute respiratory distress syndrome during a derecruitment maneuver*. Critical Care Medicine, 2007, 35, 1972-1978.	0.9	68
5	Spatiotemporal Aeration and Lung Injury Patterns Are Influenced by the First Inflation Strategy at Birth. American Journal of Respiratory Cell and Molecular Biology, 2016, 54, 263-272.	2.9	48
6	3D EIT image reconstruction with GREIT. Physiological Measurement, 2016, 37, 785-800.	2.1	44
7	An individualized approach to sustained inflation duration at birth improves outcomes in newborn preterm lambs. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L1138-L1149.	2.9	43
8	Toward Morphological Thoracic EIT: Major Signal Sources Correspond to Respective Organ Locations in CT. IEEE Transactions on Biomedical Engineering, 2012, 59, 3000-3008.	4.2	40
9	Effectiveness of individualized lung recruitment strategies at birth: an experimental study in preterm lambs. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 312, L32-L41.	2.9	34
10	Why is EIT so hard, and what are we doing about it?. Physiological Measurement, 2015, 36, 1067-1073.	2.1	32
11	Quantification of ventilation distribution in regional lung injury by electrical impedance tomography and xenon computed tomography. Physiological Measurement, 2013, 34, 1303-1318.	2.1	29
12	Uniform background assumption produces misleading lung EIT images. Physiological Measurement, 2013, 34, 579-593.	2.1	28
13	Multiparametric Cystoscopy for Detection of Bladder Cancer Using Real-time Multispectral Imaging. European Urology, 2020, 77, 251-259.	1.9	28
14	FEM electrode refinement for electrical impedance tomography. , 2013, 2013, 6429-32.		26
15	Regional lung volume changes during high-frequency oscillatory ventilation*. Pediatric Critical Care Medicine, 2010, 11, 610-615.	0.5	25
16	Differences in regional pulmonary pressure impedance curves before and after lung injury assessed with a novel algorithm. Physiological Measurement, 2009, 30, S137-S148.	2.1	21
17	Towards lung EIT image segmentation: automatic classification of lung tissue state from analysis of EIT monitored recruitment manoeuvres. Physiological Measurement, 2010, 31, S31-S43.	2.1	20
18	Cross-section electrical resistance tomography of La SoufriÃre of Guadeloupe lava dome. Geophysical Journal International, 2014, 197, 1516-1526.	2.4	19

#	ARTICLE	IF	CITATIONS
19	Human Behavior Integration Improves Classification Rates in Real-Time BCI. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 362-368.	4.9	18
20	Thoracic EIT in 3D: experiences and recommendations. Physiological Measurement, 2019, 40, 074006.	2.1	17
21	Influence of heart motion on cardiac output estimation by means of electrical impedance tomography: a case study. Physiological Measurement, 2015, 36, 1075-1091.	2.1	16
22	Functional Validation and Comparison Framework for EIT Lung Imaging. PLoS ONE, 2014, 9, e103045.	2.5	15
23	Tracking boundary movement and exterior shape modelling in lung EIT imaging. Physiological Measurement, 2015, 36, 1119-1135.	2.1	15
24	Aortic blood pressure measured via EIT: investigation of different measurement settings. Physiological Measurement, 2015, 36, 1147-1159.	2.1	13
25	Spectral and temporal multiplexing for multispectral fluorescence and reflectance imaging using two color sensors. Optics Express, 2017, 25, 12812.	3.4	13
26	The strathclyde brain computer interface. , 2009, 2009, 606-9.		11
27	Choice of reconstructed tissue properties affects interpretation of lung EIT images. Physiological Measurement, 2014, 35, 1035-1050.	2.1	11
28	Regional overdistension identified with electrical impedance tomography in the perflubron-treated lung. Physiological Measurement, 2010, 31, S85-S95.	2.1	10
29	Evaluation and Real-Time Monitoring of Data Quality in Electrical Impedance Tomography. IEEE Transactions on Medical Imaging, 2013, 32, 1997-2005.	8.9	10
30	A comparison framework for temporal image reconstructions in electrical impedance tomography. Physiological Measurement, 2015, 36, 1093-1107.	2.1	10
31	Simultaneous real-time multicomponent fluorescence and reflectance imaging method for fluorescence-guided surgery. Optics Letters, 2016, 41, 1173.	3.3	6
32	Establishment of Real-Time Multispectral Imaging for the Detection of Bladder Cancer Using a Preclinical in Vivo Model. Bladder Cancer, 2020, 6, 285-294.	0.4	2
33	A Novel Method for Monitoring Data Quality in Electrical Impedance Tomography. Journal of Physics: Conference Series, 2013, 434, 012077.	0.4	0
34	Ex vivo validation of a real-time multispectral endoscopic system for the detection and biopsy of bladder tumors. Translational Andrology and Urology, 2021, 10, 2373-2383.	1.4	0