BartÃâ€omiej Grychtol

List of Publications by Year
in descending order

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	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
2	Multiparametric Cystoscopy for Detection of Bladder Cancer Using Real-time Multispectral Imaging. European Urology, 2020, 77, 251-259.	1.9	28
3	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
4	Thoracic EIT in 3D: experiences and recommendations. Physiological Measurement, 2019, 40, 074006.	2.1	17
5	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
6	Spectral and temporal multiplexing for multispectral fluorescence and reflectance imaging using two color sensors. Optics Express, 2017, 25, 12812.	3.4	13
7	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
8	3D EIT image reconstruction with GREIT. Physiological Measurement, 2016, 37, 785-800.	2.1	44
9	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
10	Simultaneous real-time multicomponent fluorescence and reflectance imaging method for fluorescence-guided surgery. Optics Letters, 2016, 41, 1173.	3.3	6
11	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
12	Tracking boundary movement and exterior shape modelling in lung EIT imaging. Physiological Measurement, 2015, 36, 1119-1135.	2.1	15
13	Why is EIT so hard, and what are we doing about it?. Physiological Measurement, 2015, 36, 1067-1073.	2.1	32
14	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
15	Aortic blood pressure measured via EIT: investigation of different measurement settings. Physiological Measurement, 2015, 36, 1147-1159.	2.1	13
16	A comparison framework for temporal image reconstructions in electrical impedance tomography. Physiological Measurement, 2015, 36, 1093-1107.	2.1	10
17	Functional Validation and Comparison Framework for EIT Lung Imaging. PLoS ONE, 2014, 9, e103045.	2.5	15
18	Choice of reconstructed tissue properties affects interpretation of lung EIT images. Physiological Measurement, 2014, 35, 1035-1050.	2.1	11

#	Article	IF	Citations
19	Cross-section electrical resistance tomography of La SoufriÃ¨re of Guadeloupe lava dome. Geophysical Journal International, 2014, 197, 1516-1526.	2.4	19
20	Evaluation and Real-Time Monitoring of Data Quality in Electrical Impedance Tomography. IEEE Transactions on Medical Imaging, 2013, 32, 1997-2005.	8.9	10
21	Uniform background assumption produces misleading lung EIT images. Physiological Measurement, 2013, 34, 579-593.	2.1	28
22	FEM electrode refinement for electrical impedance tomography. , 2013, 2013, 6429-32.		26
23	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
24	A Novel Method for Monitoring Data Quality in Electrical Impedance Tomography. Journal of Physics: Conference Series, 2013, 434, 012077.	0.4	0
25	Impact of Model Shape Mismatch on Reconstruction Quality in Electrical Impedance Tomography. IEEE Transactions on Medical Imaging, 2012, 31, 1754-1760.	8.9	78
26	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
27	Regional lung volume changes during high-frequency oscillatory ventilation*. Pediatric Critical Care Medicine, 2010, 11, 610-615.	0.5	25
28	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
29	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
30	Regional overdistension identified with electrical impedance tomography in the perflubron-treated lung. Physiological Measurement, 2010, 31, S85-S95.	2.1	10
31	The strathclyde brain computer interface. , 2009, 2009, 606-9.		11
32	Differences in regional pulmonary pressureâ€“impedance curves before and after lung injury assessed with a novel algorithm. Physiological Measurement, 2009, 30, S137-S148.	2.1	21
33	GREIT: a unified approach to 2D linear EIT reconstruction of lung images. Physiological Measurement, 2009, 30, S35-S55.	2.1	520
34	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