

Zhanqi Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

130
papers

2,774
citations

279798

23
h-index

206112

48
g-index

134
all docs

134
docs citations

134
times ranked

1539
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. <i>Thorax</i> , 2017, 72, 83-93.	5.6	580
2	Evaluation of an electrical impedance tomography-based global inhomogeneity index for pulmonary ventilation distribution. <i>Intensive Care Medicine</i> , 2009, 35, 1900-6.	8.2	223
3	PEEP titration guided by ventilation homogeneity: a feasibility study using electrical impedance tomography. <i>Critical Care</i> , 2010, 14, R8.	5.8	165
4	Spatial and temporal heterogeneity of regional lung ventilation determined by electrical impedance tomography during pulmonary function testing. <i>Journal of Applied Physiology</i> , 2012, 113, 1154-1161.	2.5	85
5	Regional ventilation in cystic fibrosis measured by electrical impedance tomography. <i>Journal of Cystic Fibrosis</i> , 2012, 11, 412-418.	0.7	75
6	Positive end-expiratory pressure titration with electrical impedance tomography and pressure-volume curve in severe acute respiratory distress syndrome. <i>Annals of Intensive Care</i> , 2019, 9, 7.	4.6	64
7	Multicenter Prospective Trial of Stent Placement in Patients with Symptomatic High-Grade Intracranial Stenosis. <i>American Journal of Neuroradiology</i> , 2016, 37, 1275-1280.	2.4	63
8	A review of electrical impedance tomography in lung applications: Theory and algorithms for absolute images. <i>Annual Reviews in Control</i> , 2019, 48, 442-471.	7.9	62
9	The EIT-based global inhomogeneity index is highly correlated with regional lung opening in patients with acute respiratory distress syndrome. <i>BMC Research Notes</i> , 2014, 7, 82.	1.4	60
10	Regional airway obstruction in cystic fibrosis determined by electrical impedance tomography in comparison with high resolution CT. <i>Physiological Measurement</i> , 2013, 34, N107-N114.	2.1	56
11	Hierarchical Parameter Identification in Models of Respiratory Mechanics. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 3234-3241.	4.2	55
12	Regional lung function determined by electrical impedance tomography during bronchodilator reversibility testing in patients with asthma. <i>Physiological Measurement</i> , 2016, 37, 698-712.	2.1	55
13	Regional lung response to bronchodilator reversibility testing determined by electrical impedance tomography in chronic obstructive pulmonary disease. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L8-L19.	2.9	45
14	Spontaneous breathing trials after prolonged mechanical ventilation monitored by electrical impedance tomography: an observational study. <i>Acta Anaesthesiologica Scandinavica</i> , 2017, 61, 1166-1175.	1.6	44
15	Positioning of electrode plane systematically influences EIT imaging. <i>Physiological Measurement</i> , 2015, 36, 1109-1118.	2.1	41
16	Electrical impedance tomography: functional lung imaging on its way to clinical practice?. <i>Expert Review of Respiratory Medicine</i> , 2015, 9, 721-737.	2.5	41
17	Preliminary Study of Assessing Bladder Urinary Volume Using Electrical Impedance Tomography. <i>Journal of Medical and Biological Engineering</i> , 2016, 36, 71-79.	1.8	39
18	Positive end-expiratory pressure titration with electrical impedance tomography and pressure-volume curve: a randomized trial in moderate to severe ARDS. <i>Physiological Measurement</i> , 2021, 42, 014002.	2.1	38

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19	Early individualized positive end-expiratory pressure guided by electrical impedance tomography in acute respiratory distress syndrome: a randomized controlled clinical trial. <i>Critical Care</i> , 2021, 25, 230.	5.8	38
20	Bedside Evaluation of Pulmonary Embolism by Saline Contrast Electrical Impedance Tomography Method: A Prospective Observational Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 202, 1464-1468.	5.6	37
21	Thoracic electrical impedance tomography in Chinese hospitals: a review of clinical research and daily applications. <i>Physiological Measurement</i> , 2020, 41, 04TR01.	2.1	33
22	Identification of regional overdistension, recruitment and cyclic alveolar collapse with electrical impedance tomography in an experimental ARDS model. <i>Critical Care</i> , 2016, 20, 119.	5.8	32
23	Assessment of Lung Recruitment by Electrical Impedance Tomography and Oxygenation in ARDS Patients. <i>Medicine (United States)</i> , 2016, 95, e3820.	1.0	29
24	Comparison of electrical impedance tomography and intracranial pressure during dehydration treatment of cerebral edema. <i>NeuroImage: Clinical</i> , 2019, 23, 101909.	2.7	27
25	Influence of overdistension/recruitment induced by high positive end-expiratory pressure on ventilation-perfusion matching assessed by electrical impedance tomography with saline bolus. <i>Critical Care</i> , 2020, 24, 586.	5.8	27
26	Qualitative and quantitative assessment of pendelluft: a simple method based on electrical impedance tomography. <i>Annals of Translational Medicine</i> , 2020, 8, 1216-1216.	1.7	24
27	PEEP guided by electrical impedance tomography during one-lung ventilation in elderly patients undergoing thoracoscopic surgery. <i>Annals of Translational Medicine</i> , 2019, 7, 757-757.	1.7	23
28	Effect of postextubation high-flow nasal cannula therapy on lung recruitment and overdistension in high-risk patient. <i>Critical Care</i> , 2020, 24, 82.	5.8	23
29	Positive End-expiratory Pressure Titration after Alveolar Recruitment Directed by Electrical Impedance Tomography. <i>Chinese Medical Journal</i> , 2015, 128, 1421-1427.	2.3	22
30	Adaptive SLICE method: an enhanced method to determine nonlinear dynamic respiratory system mechanics. <i>Physiological Measurement</i> , 2012, 33, 51-64.	2.1	21
31	Comparison of different functional EIT approaches to quantify tidal ventilation distribution. <i>Physiological Measurement</i> , 2018, 39, 01NT01.	2.1	21
32	Three broad classifications of acute respiratory failure etiologies based on regional ventilation and perfusion by electrical impedance tomography: a hypothesis-generating study. <i>Annals of Intensive Care</i> , 2021, 11, 134.	4.6	21
33	A lung area estimation method for analysis of ventilation inhomogeneity based on electrical impedance tomography. <i>Journal of X-Ray Science and Technology</i> , 2010, 18, 171-182.	1.0	20
34	Regional lung function measures determined by electrical impedance tomography during repetitive ventilation manoeuvres in patients with COPD. <i>Physiological Measurement</i> , 2021, 42, 015008.	2.1	20
35	Effects of neurally adjusted ventilatory assist on air distribution and dead space in patients with acute exacerbation of chronic obstructive pulmonary disease. <i>Critical Care</i> , 2017, 21, 126.	5.8	19
36	The incidence and interpretation of large differences in EIT-based measures for PEEP titration in ARDS patients. <i>Journal of Clinical Monitoring and Computing</i> , 2020, 34, 1005-1013.	1.6	19

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37	Detection of Acute Pulmonary Embolism by Electrical Impedance Tomography and Saline Bolus Injection. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 202, 881-882.	5.6	18
38	Regional ventilation redistribution measured by electrical impedance tomography during spontaneous breathing trial with automatic tube compensation. <i>Physiological Measurement</i> , 2017, 38, 1193-1203.	2.1	17
39	Electrical Impedance Changes at Different Phases of Cerebral Edema in Rats with Ischemic Brain Injury. <i>BioMed Research International</i> , 2018, 2018, 1-10.	1.9	17
40	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.	2.0	17
41	A narrative review of electrical impedance tomography in lung diseases with flow limitation and hyperinflation: methodologies and applications. <i>Annals of Translational Medicine</i> , 2020, 8, 1688-1688.	1.7	17
42	Prevalence and prognosis of respiratory pendelluft phenomenon in mechanically ventilated ICU patients with acute respiratory failure: a retrospective cohort study. <i>Annals of Intensive Care</i> , 2022, 12, 22.	4.6	17
43	Multi-layer ventilation inhomogeneity in cystic fibrosis. <i>Respiratory Physiology and Neurobiology</i> , 2016, 233, 25-32.	1.6	16
44	Regional air trapping in acute exacerbation of obstructive lung diseases measured with electrical impedance tomography: a feasibility study. <i>Minerva Anestesiologica</i> , 2020, 86, 172-180.	1.0	16
45	Influence of tidal volume and positive end-expiratory pressure on ventilation distribution and oxygenation during one-lung ventilation. <i>Physiological Measurement</i> , 2018, 39, 034003.	2.1	15
46	The influence of image reconstruction algorithms on linear thorax EIT image analysis of ventilation. <i>Physiological Measurement</i> , 2014, 35, 1083-1093.	2.1	14
47	Regional ventilation distribution in healthy lungs: can reference values be established for electrical impedance tomography parameters?. <i>Annals of Translational Medicine</i> , 2021, 9, 789-789.	1.7	14
48	The calculation of mechanical power is not suitable for intra-patient monitoring under pressure-controlled ventilation. <i>Intensive Care Medicine</i> , 2019, 45, 749-750.	8.2	13
49	Regional lung function testing in children using electrical impedance tomography. <i>Pediatric Pulmonology</i> , 2018, 53, 293-301.	2.0	12
50	Detection of pulmonary oedema by electrical impedance tomography: validation of previously proposed approaches in a clinical setting. <i>Physiological Measurement</i> , 2019, 40, 054008.	2.1	12
51	Simple Electrical Impedance Tomography Measures for the Assessment of Ventilation Distribution. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 201, 386-388.	5.6	12
52	The use of electrical impedance tomography for individualized ventilation strategy in COVID-19: a case report. <i>BMC Pulmonary Medicine</i> , 2021, 21, 38.	2.0	12
53	Lung Recruitment, Individualized PEEP, and Prone Position Ventilation for COVID-19-Associated Severe ARDS: A Single Center Observational Study. <i>Frontiers in Medicine</i> , 2020, 7, 603943.	2.6	12
54	Determination of Lung Area in EIT Images. , 2009, , .		11

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55	Assessment of a volume-dependent dynamic respiratory system compliance in ALI/ARDS by pooling breathing cycles. <i>Physiological Measurement</i> , 2012, 33, N61-N67.	2.1	11
56	The influence of an electrical impedance tomography belt on lung function determined by spirometry in sitting position. <i>Physiological Measurement</i> , 2020, 41, 044002.	2.1	11
57	A Wireless, Low-Power, and Miniaturized EIT System for Remote and Long-Term Monitoring of Lung Ventilation in the Isolation Ward of ICU. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-11.	4.7	11
58	Titration of extra-PEEP against intrinsic-PEEP in severe asthma by electrical impedance tomography. <i>Medicine (United States)</i> , 2020, 99, e20891.	1.0	10
59	Comparison of Combined Bipolar Radiofrequency Impedance-Controlled Endometrial Ablation with Levonorgestrel Intrauterine System versus Bipolar Radiofrequency Endometrial Ablation Alone in Women with Abnormal Uterine Bleeding. <i>Journal of Minimally Invasive Gynecology</i> , 2020, 27, 774-780.	0.6	9
60	Optimal mean airway pressure during high-frequency oscillatory ventilation in an experimental model of acute respiratory distress syndrome: EIT-based method. <i>Annals of Intensive Care</i> , 2020, 10, 31.	4.6	9
61	Prone position improves lung ventilationâ€“perfusion matching in non-intubated COVID-19 patients: a prospective physiologic study. <i>Critical Care</i> , 2022, 26, .	5.8	9
62	Regional lung function in nonsmokers and asymptomatic current and former smokers. <i>ERJ Open Research</i> , 2019, 5, 00240-2018.	2.6	8
63	Monitoring bronchoalveolar lavage with electrical impedance tomography: first experience in a patient with COVID-19. <i>Physiological Measurement</i> , 2020, 41, 085008.	2.1	8
64	Emerging Trends and Hot Spots of Electrical Impedance Tomography Applications in Clinical Lung Monitoring. <i>Frontiers in Medicine</i> , 2021, 8, 813640.	2.6	8
65	Is there a need for individualized adjustment of electrode belt position during EIT-guided titration of positive end-expiratory pressure?. <i>Physiological Measurement</i> , 2022, 43, 064001.	2.1	8
66	Global and local inhomogeneity indices of lung ventilation based on electrical impedance tomography. <i>IFMBE Proceedings</i> , 2009, , 256-259.	0.3	7
67	Patient-ventilator asynchrony identified with electrical impedance tomography. <i>IFAC-PapersOnLine</i> , 2018, 51, 52-55.	0.9	7
68	Oxygen Therapy Delivery and Body Position Effects Measured With Electrical Impedance Tomography. <i>Respiratory Care</i> , 2020, 65, 281-287.	1.6	7
69	Rapid dynamic bedside assessment of pulmonary perfusion defect by electrical impedance tomography in a patient with acute massive pulmonary embolism. <i>Pulmonary Circulation</i> , 2021, 11, 1-3.	1.7	7
70	Spatial Ventilation Inhomogeneity Determined by Electrical Impedance Tomography in Patients With Chronic Obstructive Lung Disease. <i>Frontiers in Physiology</i> , 2021, 12, 762791.	2.8	7
71	Individual thorax geometry reduces position and size differences in reconstructed images of electrical impedance tomography. <i>Journal of X-Ray Science and Technology</i> , 2014, 22, 797-807.	1.0	6
72	Inspiratory muscle training can be monitored by electrical impedance tomography. <i>Australian Critical Care</i> , 2019, 32, 79-80.	1.3	6

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73	COVID-19 pneumonia: phenotype assessment requires bedside tools. <i>Critical Care</i> , 2020, 24, 272.	5.8	6
74	First Attempt at Using Electrical Impedance Tomography to Predict High Flow Nasal Cannula Therapy Outcomes at an Early Phase. <i>Frontiers in Medicine</i> , 2021, 8, 737810.	2.6	6
75	Visualisation of Time-Variant Respiratory System Elastance in ARDS Models. <i>Biomedizinische Technik</i> , 2013, 58 Suppl 1, .	0.8	5
76	Management of adult-onset methylmalonic acidemia with hypotonia and acute respiratory failure. <i>Medicine (United States)</i> , 2018, 97, e11162.	1.0	5
77	Ventilation improvement after pneumonia treatment evaluated with electrical impedance tomography: an observational study. <i>Physiological Measurement</i> , 2021, 42, 104001.	2.1	5
78	Real-time assessment of global and regional lung ventilation in the anti-gravity straining maneuver using electrical impedance tomography. <i>Computers in Biology and Medicine</i> , 2021, 135, 104592.	7.0	5
79	Effect of Position Change From the Bed to a Wheelchair on the Regional Ventilation Distribution Assessed by Electrical Impedance Tomography in Patients With Respiratory Failure. <i>Frontiers in Medicine</i> , 2021, 8, 744958.	2.6	5
80	Ventilation inhomogeneity is one criterion among many in multidimensional PEEP titration. <i>Critical Care</i> , 2010, 14, 424.	5.8	4
81	Does thorax EIT image analysis depend on the image reconstruction method?. <i>Journal of Physics: Conference Series</i> , 2013, 434, 012040.	0.4	4
82	Determination of regional lung function in cystic fibrosis using electrical impedance tomography. <i>Current Directions in Biomedical Engineering</i> , 2016, 2, 633-636.	0.4	4
83	Influence of tidal volume on ventilation distribution and oxygenation during oneâ€œlungâ€œ ventilation. <i>Kaohsiung Journal of Medical Sciences</i> , 2018, 34, 420-421.	1.9	4
84	Respiratory muscle endurance training with normocapnic hyperpnoea for patients with chronic spinal cord injury: A pilot short-term randomized controlled trial. <i>Journal of Rehabilitation Medicine</i> , 2019, 51, 616-620.	1.1	4
85	On the analysis of dynamic lung mechanics separately in ins- and expiration. <i>IFMBE Proceedings</i> , 2010, , 164-167.	0.3	4
86	Determination of Dynamic Respiratory Mechanics with the Adaptive Slice Method. , 2008, , .		3
87	Identification of lung overdistension caused by tidal volume and positive end-expiratory pressure increases based on electrical impedance tomography. <i>British Journal of Anaesthesia</i> , 2021, 126, e167-e170.	3.4	3
88	Scoring System to Evaluate the Performance of ICU Ventilators in the Pandemic of COVID-19: A Lung Model Study. <i>Frontiers in Medicine</i> , 2021, 8, 663608.	2.6	3
89	On the separate determination of lung mechanics in in- and expiration. <i>IFMBE Proceedings</i> , 2009, , 2049-2052.	0.3	3
90	Lung sound analysis to monitor lung recruitment. <i>IFMBE Proceedings</i> , 2009, , 268-271.	0.3	3

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91	Twenty-four-hour mechanical power variation rate is associated with mortality among critically ill patients with acute respiratory failure: a retrospective cohort study. <i>BMC Pulmonary Medicine</i> , 2021, 21, 331.	2.0	3
92	Abnormal Pulmonary Function in Early Parkinson's Disease: A Preliminary Prospective Observational Study. <i>Lung</i> , 2022, 200, 325-329.	3.3	3
93	Comparison of Global and Regional Compliance-Guided Positive End-Expiratory Pressure Titration on Regional Lung Ventilation in Moderate-to-Severe Pediatric Acute Respiratory Distress Syndrome. <i>Frontiers in Medicine</i> , 2022, 9, .	2.6	3
94	Noninvasive method for measuring respiratory system compliance during pressure support ventilation. , 2011, 2011, 3808-11.		2
95	Project-oriented studying to support medical engineering education. , 2013, , .		2
96	Customized electrical impedance tomography based analysis of regional lung function: a feasibility study. <i>Biomedizinische Technik</i> , 2013, 58 Suppl 1, .	0.8	2
97	Electrical impedance tomography for chest imaging in acute respiratory failure. <i>European Respiratory Journal</i> , 2019, 54, 1901497.	6.7	2
98	Lung ventilation distribution in patients after traditional full sternotomy and minimally invasive thoracotomy: An observational study. <i>Acta Anaesthesiologica Scandinavica</i> , 2021, 65, 877-885.	1.6	2
99	Real-time monitoring hypoxia at high altitudes using electrical bioimpedance technique: an animal experiment. <i>Journal of Applied Physiology</i> , 2021, 130, 952-963.	2.5	2
100	Reply to Wang and Zhong: Bedside Evaluation of Pulmonary Embolism by Saline Contrast-enhanced Electrical Impedance Tomography: Considerations for Future Research. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 395-397.	5.6	2
101	Optimizing Perioperative Ventilation Support with Adequate Settings of Positive End-Expiratory Pressure. , 0, , .		2
102	Effect of Prone Positioning With Individualized Positive End-Expiratory Pressure in Acute Respiratory Distress Syndrome Using Electrical Impedance Tomography. <i>Frontiers in Physiology</i> , 0, 13, .	2.8	2
103	Regional Obstruction in Cystic Fibrosis Patients. , 2011, , .		1
104	Ventilation inhomogeneity in patients with cystic fibrosis measured by electrical impedance tomography. <i>Biomedizinische Technik</i> , 2012, 57, .	0.8	1
105	Involving Industry in Medical Engineering Education. <i>Biomedizinische Technik</i> , 2013, 58 Suppl 1, .	0.8	1
106	Evaluation of a New Measurement System Combining Body Plethysmography and Electrical Impedance Tomography. <i>Biomedizinische Technik</i> , 2013, 58 Suppl 1, .	0.8	1
107	Impact of Heart Rate on Ventilation and Pulmonary Perfusion Associated Impedance Changes. <i>IFMBE Proceedings</i> , 2016, , 1270-1275.	0.3	1
108	Is the Recruited Lung Volume Underestimated in Presence of Overdistension?. <i>Critical Care Medicine</i> , 2021, 49, e206-e207.	0.9	1

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109	Developing Customized Evaluation Software for Clinical Trials: An Example with Obstructive Lung Diseases. <i>Engineering</i> , 2013, 05, 103-107.	0.8	1
110	3-D Lung Visualization Using Electrical Impedance Tomography Combined with Body Plethysmography. <i>IFMBE Proceedings</i> , 2014, , 172-175.	0.3	1
111	Regional ventilation distribution in patients with scoliosis assessed by electrical impedance tomography: Is individual thorax shape required?. <i>Respiratory Physiology and Neurobiology</i> , 2022, 299, 103854.	1.6	1
112	Respiratory image analysis. , 2022, , 169-212.		1
113	Assessment of the Operative Feasibility and Ventilation Distribution during Nonintubation Thoracoscopic Surgery Using Electrical Impedance Tomography. <i>Journal of Personalized Medicine</i> , 2022, 12, 1066.	2.5	1
114	Assessment of Low Back Pain in Helicopter Pilots Using Electrical Bio-Impedance Technique: A Feasibility Study. <i>Frontiers in Neuroscience</i> , 0, 16, .	2.8	1
115	Editorial: Bedside visual image technologies for respiratory and circulatory management in intensive care settings. <i>Frontiers in Medicine</i> , 0, 9, .	2.6	1
116	Intratidal Analysis of Lung Mechanics in Ins- and Expiration. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings]</i> International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0
117	Analysis of Total Lung Compliance in Spontaneously Breathing Patients with the Adaptive Time Slice Method. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings]</i> International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0
118	Ventilation distribution on different body positions measured by electrical impedance tomography. , 2011, , .		0
119	Notice of Retraction: Disinfection Using UVA Light on Glass Surfaces with or without Titanium Dioxide Coating. , 2011, , .		0
120	A Hybrid Model of Interacting Physiological Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 290-294.	0.4	0
121	EIT image reconstruction with individual thorax geometry. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 103-106.	0.4	0
122	Individual thorax geometry improves EIT image reconstruction. <i>Biomedizinische Technik</i> , 2012, 57, .	0.8	0
123	Customized evaluation software for clinical trials: An example on pulmonary function test with electrical impedance tomography. , 2013, , .		0
124	Noise in respiratory signals influences dynamic respiratory system compliance analysis: A simulation study. <i>Biomedizinische Technik</i> , 2013, 58 Suppl 1, .	0.8	0
125	Chest Electrical Impedance Tomography and Its Clinical Applications. <i>IFMBE Proceedings</i> , 2016, , 1259-1263.	0.3	0
126	Electrical impedance tomography captures heterogeneous lung ventilation that may be associated with ineffective inspiratory efforts. <i>Critical Care</i> , 2021, 25, 303.	5.8	0

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127	Analysis of nonlinear dynamic respiratory system mechanics: an improvement of the Adaptive SLICE Method. IFMBE Proceedings, 2013, , 522-525.	0.3	0
128	Regionale Lungenobstruktion bei Mukoviszidose (CF): Korrelation von Elektro-Impedanztomografie (EIT) und HRCT. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2014, 186, .	1.3	0
129	Editorial: CardioPulmonary Physiology: Novel Approaches to Pulmonary Function and Critical Care. Frontiers in Physiology, 2021, 12, 825098.	2.8	0
130	A randomised trial evaluating mask ventilation using electrical impedance tomography during anesthetic induction: one-handed technique versus two-handed technique. Physiological Measurement, 2022, 43, 064004.	2.1	0