Raffaele Dellaca'

List of Publications by Year
in descending order

172	4,035	156536 32	156644 58
papers	citations	h-index	g-index

172	172	172	2814
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Selfâ€reported exerciseâ€induced dyspnea and airways obstruction assessed by oscillometry and spirometry in adolescents. Pediatric Allergy and Immunology, 2022, 33, e13702.	1.1	3
2	An Implantable Electronic Device for Monitoring Fetal Lung Pressure in a Lamb Model of Congenital Diaphragmatic Hernia. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	3
3	Assessment of bronchodilator response by forced oscillation technique in a preterm infant with evolving bronchopulmonary dysplasia: A case report. Pediatric Pulmonology, 2022, 57, 1092-1095.	1.0	4
4	Clinical significance and applications of oscillometry. European Respiratory Review, 2022, 31, 210208.	3.0	64
5	A portable fan-based device for evaluating lung function in horses by the forced oscillation technique. Physiological Measurement, 2022, 43, 025001.	1.2	3
6	Contactless Monitoring of Breathing Pattern and Thoracoabdominal Asynchronies in Preterm Infants Using Depth Cameras: A Feasibility Study. IEEE Journal of Translational Engineering in Health and Medicine, 2022, 10, 1-8.	2.2	5
7	Role of hyperpnea in the relaxant effect of inspired CO₂ on methacholine-induced bronchoconstriction. Journal of Applied Physiology, 2022, , .	1.2	0
8	An Experimental Apparatus for E-Nose Breath Analysis in Respiratory Failure Patients. Diagnostics, 2022, 12, 776.	1.3	10
9	Oscillatory mechanics at 36â€...weeks post-menstrual age as markers of lung disease in preterm infants: a cohort study. European Respiratory Journal, 2022, 59, 2103023.	3.1	4
10	Simultaneous monitoring of vocal doses and breathing patterns in professional singers. Computers in Biology and Medicine, 2022, 144, 105352.	3.9	2
11	Within-Breath Oscillatory Mechanics in Horses Affected by Severe Equine Asthma in Exacerbation and in Remission of the Disease. Animals, 2022, 12, 4.	1.0	8
12	Preclinical Assessment of Nebulized Surfactant Delivered through Neonatal High Flow Nasal Cannula Respiratory Support. Pharmaceutics, 2022, 14, 1093.	2.0	1
13	A bench test system for developing E-nose diagnostic tools with exhaled breath sampling. , 2022, , .		2
14	Tidal Breathing Measurements in Former Preterm Infants: AÂRetrospective Longitudinal Study. Journal of Pediatrics, 2021, 230, 112-118.e4.	0.9	16
15	Bacterialâ€“viral filters to limit the spread of aerosolized respiratory pathogens during neonatal respiratory support in a pandemic era. Pediatric Research, 2021, 89, 1322-1325.	1.1	3
16	Aerosol drug delivery to spontaneously-breathing preterm neonates: lessons learned. Respiratory Research, 2021, 22, 71.	1.4	29
17	Closing volume detection by single-breath gas washout and forced oscillation technique. Journal of Applied Physiology, 2021, 130, 903-913.	1.2	4
18	Role of ventilator and nasal interface in pressure transmission during neonatal intermittent positive pressure ventilation: A bench study. Pediatric Pulmonology, 2021, 56, 2561-2569.	1.0	1

#	Article	IF	Citations
19	Early extubation to noninvasive respiratory support of former preterm lambs improves long-term respiratory outcomes. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 321, L248-L262.	1.3	1
20	Effects of Air Stacking on Dyspnea and Lung Function in Neuromuscular Diseases. Archives of Physical Medicine and Rehabilitation, 2021, 102, 1562-1567.	0.5	4
21	An Automated Approach for General Movement Assessment: A Pilot Study. Frontiers in Pediatrics, 2021, 9, 720502.	0.9	3
22	Artificial intelligence for quality control of oscillometry measures. Computers in Biology and Medicine, 2021, 138, 104871.	3.9	3
23	Oscillatory mechanics at birth for identifying infants requiring surfactant: a prospective, observational trial. Respiratory Research, 2021, 22, 314.	1.4	10
24	Respiratory mechanics during initial lung aeration at birth in the preterm lamb. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L525-L532.	1.3	10
25	A novel delivery system for supraglottic atomization allows increased lung deposition rates of pulmonary surfactant in newborn piglets. Pediatric Research, 2020, 87, 1019-1024.	1.1	7
26	Technical standards for respiratory oscillometry: test loads for calibration and verification. European Respiratory Journal, 2020, 56, 2003369.	3.1	7
27	Effect of nocturnal EPAP titration to abolish tidal expiratory flow limitation in COPD patients with chronic hypercapnia: a randomized, cross-over pilot study. Respiratory Research, 2020, 21, 301.	1.4	8
28	A Compartment-Based Mathematical Model for Studying Convective Aerosol Transport in Newborns Receiving Nebulized Drugs during Noninvasive Respiratory Support. Pharmaceutics, 2020, 12, 936.	2.0	2
29	Forced Oscillometry, Symptoms and Exacerbations During Home Telemonitoring of Severe Asthma. , 2020, , .		0
30	Accuracy of volume and pressure delivery by mechanical ventilators in use in neonatal intensive care units: A quality control study. Pediatric Pulmonology, 2020, 55, 1955-1962.	1.0	5
31	Effect of stimulating waveform and of data processing on respiratory impedance measurement. Physiological Measurement, 2020, 41, 055005.	1.2	4
32	Day-to-day variability of forced oscillatory mechanics for early detection of acute exacerbations in COPD. European Respiratory Journal, 2020, 56, 1901739.	3.1	23
33	Forced oscillation technique for optimising PEEP in ventilated extremely preterm infants. European Respiratory Journal, 2020, 55, 1901650.	3.1	12
34	Technical standards for respiratory oscillometry. European Respiratory Journal, 2020, 55, 1900753.	3.1	311
35	Changes in respiratory mechanics at birth in preterm infants: A pilot study. Pediatric Pulmonology, 2020, 55, 1640-1645.	1.0	8
36	Benefit of Physiologically Variable Over Pressure-Controlled Ventilation in a Model of Chronic Obstructive Pulmonary Disease: A Randomized Study. Frontiers in Physiology, 2020, 11, 625777.	1.3	2

#	Article	IF	Citations
37	Autotitrating external positive end-expiratory airway pressure to abolish expiratory flow limitation during tidal breathing in patients with severe COPD: a physiological study. European Respiratory Journal, 2020, 56, 1902234.	3.1	13
38	Self-Mixing Flow Sensor for Lung Surfactant Delivery. , 2020, , .		0
39	Self-Mixing Flow Sensor for Lung Surfactant Delivery. , 2020, , .		0
40	Predicting hospitalisation post-discharge in preterm infants by tPTEF/tE. , 2020, , .		0
41	Oscillatory respiratory mechanics on the first day of life improves prediction of respiratory outcomes in extremely preterm newborns. Pediatric Research, 2019, 85, 312-317.	1.1	24
42	Non-invasive measurements of respiratory system mechanical properties by the forced oscillation technique in spontaneously breathing, mixed-breed, normal term lambs from birth to five months of age. Physiological Measurement, 2019, 40, 105007.	1.2	5
43	New insights in respiratory impedance in young children after repair of congenital diaphragmatic hernia: a cross-sectional study. Italian Journal of Pediatrics, 2019, 45, 82.	1.0	1
44	Forced Oscillation Technique and Small Airway Involvement in Chronic Hypersensitivity Pneumonitis. Archivos De Bronconeumologia, 2019, 55, 519-525.	0.4	1
45	Detection of Expiratory Flow Limitation by Forced Oscillations during Noninvasive Ventilation. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 1063-1065.	2.5	14
46	Automatic tailoring of the lowest PEEP to abolish tidal expiratory flow limitation in seated and supine COPD patients. Respiratory Medicine, 2019, 155, 13-18.	1.3	9
47	Forced Oscillation Technique and Small Airway Involvement in Chronic Hypersensitivity Pneumonitis. Archivos De Bronconeumologia, 2019, 55, 519-525.	0.4	1
48	An injectable, degradable hydrogel plug for tracheal occlusion in congenital diaphragmatic hernia (CDH). Materials Science and Engineering C, 2019, 99, 430-439.	3.8	12
49	Aeration strategy at birth influences the physiological response to surfactant in preterm lambs. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2019, 104, F587-F593.	1.4	21
50	Forced oscillation measurements in the first week of life and pulmonary outcome in very preterm infants on noninvasive respiratory support. Pediatric Research, 2019, 86, 382-388.	1.1	15
51	Monitoring of respiratory resistance in the diagnosis of mild intermittent asthma. Clinical and Experimental Allergy, 2019, 49, 921-923.	1.4	3
52	Withinâ€breath changes in respiratory system impedance in children with cystic fibrosis. Pediatric Pulmonology, 2019, 54, 737-742.	1.0	10
53	Regional distribution of chest wall displacements in infants during high-frequency ventilation. Journal of Applied Physiology, 2019, 126, 928-933.	1.2	2
54	Gradual Aeration at Birth Is More Lung Protective Than a Sustained Inflation in Preterm Lambs. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 608-616.	2.5	53

#	Article	IF	Citations
55	Optical Flow Sensor for Lung Surfactant Delivery. , 2019, , .		2
56	Temporal variability of forced oscillometry from home telemonitoring and relationship with patient-centred outcomes and AECOPD. , 2019, , .		1
57	Respiratory reactance (Xrs) by Forced Oscillation Technique (FOT) during the first 24h of life in non-intubated preterm infants. , 2019, , .		1
58	Association between longitudinal changes in respiratory symptoms and lung mechanics in COPD. , 2019, , .		0
59	Effect of continuous positive airway pressure on breathing variability in early preterm lung disease. Pediatric Pulmonology, 2018, 53, 755-761.	1.0	7
60	Telemonitoring in Chronic Obstructive Pulmonary Disease (CHROMED). A Randomized Clinical Trial. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 620-628.	2.5	112
61	Role of Lung Function Monitoring by the Forced Oscillation Technique for Tailoring Ventilation and Weaning in Neonatal ECMO: New Insights From a Case Report. Frontiers in Pediatrics, 2018, 6, 332.	0.9	10
62	Accuracy of oscillatory pressure measured by mechanical ventilators during high frequency oscillatory ventilation in newborns. Pediatric Pulmonology, 2018, 53, 901-906.	1.0	5
63	Plasma proteomics reveals gestational age-specific responses to mechanical ventilation and identifies the mechanistic pathways that initiate preterm lung injury. Scientific Reports, 2018, 8, 12616.	1.6	13
64	Effects of sustained lung inflation (SLI) at birth on lung aeration during non-invasive resuscitation of preterm lambs. , 2018, , .		1
65	Assessment of lung mechanics for the prediction and evaluation of pulmonary outcome in preterm infants. , 2018, , .		2
66	Effects of nocturnal Non-Invasive Ventilation (NIV) with automatic tailoring of Positive End Expiratory Pressure (PEEP) on gas exchange and patient-ventilator interaction in COPD (Chronic) Tj ETQq0 0 0 rgBT /Overlock10 Tf 50 2		
67	Change of lung function in severe eosinophilic asthma undergoing treatment with anti-interleukin-5 monoclonal antibody. , 2018, , .		1
68	Longitudinal assessment of lung function in patients with pectus excavatum (PE)>. , 2018, , .		0
69	Overnight monitoring of lung mechanics and Tidal expiratory flow limitation (EFLT) by Forced Oscillation Technique (FOT) in Chronic Obstructive Pulmonary Disease (COPD) receiving non-invasive ventilation (NIV): the impact of sleep and posture. , 2018, , .		1
70	Toward Predicting Individual Risk in Asthma Using Daily Home Monitoring of Resistance. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 265-267.	2.5	15
71	Trends in mechanical ventilation: are we ventilating our patients in the best possible way?. Breathe, 2017, 13, 84-98.	0.6	49
72	Time to lung aeration during a sustained inflation at birth is influenced by gestation in lambs. Pediatric Research, 2017, 82, 712-720.	1.1	27

#	Article	IF	Citations
73	Supraglottic Atomization of Surfactant in Spontaneously Breathing Lambs Receiving Continuous Positive Airway Pressure. Pediatric Critical Care Medicine, 2017, 18, e428-e434.	0.2	12
74	Effect of frequency on pressure cost of ventilation and gas exchange in newborns receiving high-frequency oscillatory ventilation. Pediatric Research, 2017, 82, 994-999.	1.1	17
75	Relationship between Mean Airways Pressure, Lung Mechanics, and Right Ventricular Output during High-Frequency Oscillatory Ventilation in Infants. Journal of Pediatrics, 2017, 180, 110-115.	0.9	14
76	The association of tidal EFL with exercise performance, exacerbations, and death in COPD. International Journal of COPD, 2017, Volume 12, 2179-2188.	0.9	18
77	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.	1.3	34
78	Effects of automatic tailoring of Positive End Expiratory Pressure (PEEP) by Forced Oscillation Technique (FOT) during nocturnal Non-Invasive Ventilation (NIV) in Chronic Obstructive Pulmonary Disease (COPD). , 2017, , .		2
79	Changes in forced oscillation mechanics and symptoms prior to COPD exacerbations during home telemonitoring. , 2017, , .		0
80	Longitudinal assessment of lung mechanics in preterm infants. , 2017, , .		0
81	Postnatal steroids in preterm lambs: long term impact on lung mechanics and respiratory control. , 2017, , .		0
82	Effects of posture on tidal Expiratory Flow Limitation (EFLT) and on minimum PEEP(Positive End) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 2017, , .		0
83	Oscillometry reference values in preschool children. , 2017, , .		0
84	Accuracy of flow and pressure parameters delivered by mechanical ventilators in use in neonatal intensive care unit (NICU): a quality control study. , 2017, , .		0
85	Changes in respiratory oscillatory mechanics of spontaneously breathing preterm infants receiving CPAP over the first day of life. , 2017, , .		0
86	Comparison between within-test and triplicate recordings of impedance by forced oscillation technique (FOT). , 2017, , .		0
87	Effect of different mask design for measuring respiratory input impedance in pre-school children by forced oscillation technique (FOT). , 2017, , .		0
88	Intratracheal atomized surfactant provides similar outcomes as bolus surfactant in preterm lambs with respiratory distress syndrome. Pediatric Research, 2016, 80, 92-100.	1.1	16
89	Effects of posture and sleep in respiratory mechanics detected by forced oscillation tecnique (FOT). , 2016, , .		0
90	LATE-BREAKING ABSTRACT: Randomised controlled trial of telemonitoring with addition of daily forced oscillation in older people with COPD and co-morbidity. , 2016, , .		0

#	Article	IF	Citations
91	Contribution of respiratory resistance variability measured by forced oscillation technique (FOT) to assess the likelihood of asthma diagnosis. , 2016, , .		0
92	Home telemonitoring and adjustement of CPAP settings in patients with sleep apnea. , 2016, , .		0
93	SBW and FOT in healthy and asthmatics pre and post bronchial challenge. , 2016, , .		0
94	Day-to-day variability of inspiratory resistance: A sensitive and specific marker of asthma. , 2016, , .		0
95	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.	1.3	43
96	Decision Making Concepts for the Remote, Personalized Evaluation of COPD Patientsâ€™ Health Status. Methods of Information in Medicine, 2015, 54, 240-247.	0.7	12
97	Severity grading of chronic obstructive pulmonary disease: the confounding effect of phenotype and thoracic gas compression. Journal of Applied Physiology, 2015, 118, 796-802.	1.2	18
98	Positional effects on lung mechanics of ventilated preterm infants with acute and chronic lung disease. Pediatric Pulmonology, 2015, 50, 798-804.	1.0	15
99	Correlated Variability in the Breathing Pattern and End-Expiratory Lung Volumes in Conscious Humans. PLoS ONE, 2015, 10, e0116317.	1.1	17
100	Parasympathetic Stimuli on Bronchial and Cardiovascular Systems in Humans. PLoS ONE, 2015, 10, e0127697.	1.1	9
101	Changes in inspiratory resistance after exercise challenge relate to subclinical airways inflammation in adolescents without FEV1-fall. , 2015, , .		0
102	Resonance frequency of the respiratory system in premature infants receiving high frequency oscillatory ventilation (HFOV). , 2015, , .		0
103	Regional distribution of chest wall displacements in infants during high frequency oscillatory ventilation (HFOV). , 2015, , .		1
104	LATE-BREAKING ABSTRACT: Lung function assessed by home forced oscillation and self reported symptoms during COPD exacerbations. , 2015, , .		0
105	Ventilation heterogeneity in obesity. Journal of Applied Physiology, 2014, 116, 1175-1181.	1.2	39
106	Optimal mean airway pressure during high-frequency oscillatory ventilation determined by measurement of respiratory system reactance. Pediatric Research, 2014, 75, 493-499.	1.1	33
107	The effects of parasympathetic activity on bronchial tone. , 2014, , .		0
108	Respiratory mechanics during NCPAP and HHHFNC at equal distending pressures. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2014, 99, F315-F320.	1.4	73

#	Article	IF	Citations
109	S56 Differences In Forced Oscillation Technique Between Healthy Individuals, Obstructive Sleep Apnoea And Obesity Hypoventilation Syndrome. Thorax, 2014, 69, A31-A31.	2.7	0
110	Forced Oscillation Technique. , 2014, , 137-148.		1
111	Use of FOT for Optimising Mechanical Ventilation. , 2014, , 381-395.		0
112	Relationship between respiratory impedance and positive end-expiratory pressure in mechanically ventilated neonates. Intensive Care Medicine, 2013, 39, 511-519.	3.9	22
113	Assessment of Dynamic Mechanical Properties of the Respiratory System During High-Frequency Oscillatory Ventilation*. Critical Care Medicine, 2013, 41, 2502-2511.	0.4	19
114	Mechanical correlates of dyspnea in bronchial asthma. Physiological Reports, 2013, 1, e00166.	0.7	10
115	Short-term variability in respiratory impedance and effect of deep breath in asthmatic and healthy subjects with airway smooth muscle activation and unloading. Journal of Applied Physiology, 2013, 115, 708-715.	1.2	16
116	Actual performance of mechanical ventilators in ICU: a multicentric quality control study. Medical Devices: Evidence and Research, 2012, 5, 111.	0.4	12
117	Monitoring the Temporal Changes of Respiratory Resistance: A Novel Test for the Management of Asthma. American Journal of Respiratory and Critical Care Medicine, 2012, 185, 1330-1331.	2.5	28
118	Optimizing positive end-expiratory pressure by oscillatory mechanics minimizes tidal recruitment and distension: an experimental study in a lavage model of lung injury. Critical Care, 2012, 16, R217.	2.5	18
119	Airway distensibility with lung inflation after allogeneic haematopoietic stem-cell transplantation. Respiratory Physiology and Neurobiology, 2012, 184, 80-85.	0.7	6
120	Positive end-expiratory pressure optimization with forced oscillation technique reduces ventilator induced lung injury: a controlled experimental study in pigs with saline lavage lung injury. Critical Care, 2011, 15, R126.	2.5	21
121	Telemetric CPAP titration at home in patients with sleep apneaâ€“hypopnea syndrome. Sleep Medicine, 2011, 12, 153-157.	0.8	32
122	Functional Evaluation and Rehabilitation Engineering. IEEE Pulse, 2011, 2, 24-34.	0.1	7
123	Automatic Detection Of Expiratory Flow Limitation By Forced Oscillation Technique (FOT) During Non-Invasive Ventilation (NIV). , 2011, , .		0
124	Respiratory and leg muscles perceived exertion during exercise at altitude. Respiratory Physiology and Neurobiology, 2011, 177, 162-168.	0.7	25
125	Measurement of Local Chest Wall Displacement by a Custom Self-Mixing Laser Interferometer. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2894-2901.	2.4	37
126	Optimisation of positive end-expiratory pressure by forced oscillation technique in a lavage model of acute lung injury. Intensive Care Medicine, 2011, 37, 1021-30.	3.9	41

#	Article	IF	Citations
127	Self-mixing interferometer for direct vibration measurement on human skin. , 2011, , .		0
128	Oscillation Mechanics of the Respiratory System: Applications to Lung Disease. Critical Reviews in Biomedical Engineering, 2011, 39, 337-359.	0.5	100
129	TIDAL HYPERINFLATION ASSESSED BY TOTAL RESPIRATORY SYSTEM INPUT REACTANCE. , 2010, , .		0
130	Airway distensibility and volume recruitment with lung inflation in COPD. Journal of Applied Physiology, 2010, 109, 1019-1026.	1.2	30
131	Quality Control Of The Actual Breathing Pattern Delivered By Mechanical Ventilators In Intensive Care Units (ICU). , 2010, , .		0
132	Airway responses to methacholine and exercise at high altitude in healthy lowlanders. Journal of Applied Physiology, 2010, 108, 256-265.	1.2	31
133	Home monitoring of within-breath respiratory mechanics by a simple and automatic forced oscillation technique device. Physiological Measurement, 2010, 31, N11-N24.	1.2	38
134	An improved telemedicine system for remote titration and optimization of Home Mechanical Ventilation. , 2010, , .		2
135	A new FOT set-up for the assessment of respiratory system mechanics in mechanically ventilated infants. , 2010, , .		1
136	Measurement of Total and Compartmental Lung Volume Changes in Newborns by Optoelectronic Plethysmography. Pediatric Research, 2010, 67, 11-16.	1.1	51
137	A MEMS accelerometers based system for the measurement of lung sound delays. , 2010, , .		1
138	Optimization of an Optical Magnetic Twisting Cytometry system for the study of cell mechanics. , 2010, , .		1
139	Comparison of a Visual Analogue Scale and Lake Louise Symptom Scores for Acute Mountain Sickness. High Altitude Medicine and Biology, 2010, 11, 69-72.	0.5	14
140	Optical interferometer for measuring forced oscillation on human respiratory system. , 2010, , .		2
141	Mechanical effects of obesity on airway responsiveness in otherwise healthy humans. Journal of Applied Physiology, 2009, 107, 408-416.	1.2	52
142	The Abdominal Circulatory Pump. PLoS ONE, 2009, 4, e5550.	1.1	47
143	A New Telemedicine System for the Home Monitoring of Lung Function in Patients with Obstructive Respiratory Diseases. , 2009, , .		14
144	Effect of bronchodilation on expiratory flow limitation and resting lung mechanics in COPD. European Respiratory Journal, 2009, 33, 1329-1337.	3.1	90

#	Article	IF	Citations
145	Respiratory impedance during weaning from mechanical ventilation in a mixed population of critically ill patients. British Journal of Anaesthesia, 2009, 103, 828-832.	1.5	11
146	Airway hyperresponsiveness with chest strapping: A matter of heterogeneity or reduced lung volume?. Respiratory Physiology and Neurobiology, 2009, 166, 47-53.	0.7	14
147	Pulmonary kinetics at the onset of exercise is faster when actual changes in alveolar O2 stores are considered. Respiratory Physiology and Neurobiology, 2009, 169, 78-82.	0.7	14
148	Lung recruitment assessed by total respiratory system input reactance. Intensive Care Medicine, 2009, 35, 2164-72.	3.9	66
149	CHRONIOUS: A wearable system for the management of chronic disease patients. , 2009, , .		15
150	An open, ubiquitous and adaptive chronic disease management platform. , 2009, , .		5
151	A Novel Simple Internet-Based System for Real Time Monitoring and Optimizing Home Mechanical Ventilation. , 2009, , .		14
152	Changes in the mechanical properties of the respiratory system during the development of interstitial lung edema. Respiratory Research, 2008, 9, 51.	1.4	43
153	Chest wall mechanics during pressure support ventilation. Critical Care, 2006, 10, R54.	2.5	38
154	Expiratory flow limitation detected by forced oscillation and negative expiratory pressure. European Respiratory Journal, 2006, 29, 363-374.	3.1	105
155	Noninvasive detection of expiratory flow limitation in COPD patients during nasal CPAP. European Respiratory Journal, 2006, 27, 983-991.	3.1	75
156	Redundant System of Passive Markers for Ultrasound Scanhead Tracking. IEEE Transactions on Biomedical Engineering, 2005, 52, 88-96.	2.5	2
157	Influence of expiratory flow-limitation during exercise on systemic oxygen delivery in humans. European Journal of Applied Physiology, 2005, 95, 229-242.	1.2	51
158	Effect of salbutamol on lung function and chest wall volumes at rest and during exercise in COPD. Thorax, 2005, 60, 916-924.	2.7	83
159	Detection of expiratory flow limitation in COPD using the forced oscillation technique. European Respiratory Journal, 2004, 23, 232-240.	3.1	285
160	Regional chest wall volumes during exercise in chronic obstructive pulmonary disease. Thorax, 2004, 59, 210-216.	2.7	171
161	Effects of posture and bronchoconstriction on low-frequency input and transfer impedances in humans. Journal of Applied Physiology, 2004, 97, 109-118.	1.2	11
162	Effect of changing the gravity vector on respiratory output and control. Journal of Applied Physiology, 2004, 97, 1219-1226.	1.2	8

#	Article	IF	Citations
163	Spatial Distribution of Human Respiratory System Transfer Impedance. Annals of Biomedical Engineering, 2003, 31, 121-131.	1.3	11
164	Effects of rapid saline infusion on lung mechanics and airway responsiveness in humans. Journal of Applied Physiology, 2003, 95, 728-734.	1.2	49
165	Tracking variations in airway caliber by using total respiratory vs. airway resistance in healthy and asthmatic subjects. Journal of Applied Physiology, 2003, 95, 511-518.	1.2	32
166	Chest wall kinematic determinants of diaphragm length by optoelectronic plethysmography and ultrasonography. Journal of Applied Physiology, 2003, 94, 621-630.	1.2	59
167	Determinants of exercise performance in normal men with externally imposed expiratory flow limitation. Journal of Applied Physiology, 2002, 92, 1943-1952.	1.2	99
168	Breathing Induced by Abdominal Muscle Stimulation in Individuals Without Spontaneous Ventilation. Neuromodulation, 2002, 5, 180-185.	0.4	12
169	Estimation of end-expiratory lung volume variations by optoelectronic plethysmography. Critical Care Medicine, 2001, 29, 1807-1811.	0.4	45
170	Compartmental Analysis of Breathing in the Supine and Prone Positions by Optoelectronic Plethysmography. Annals of Biomedical Engineering, 2001, 29, 60-70.	1.3	150
171	Transfer Impedance of the Respiratory System by Forced Oscillation Technique and Optoelectronic Plethysmography. Annals of Biomedical Engineering, 2001, 29, 71-82.	1.3	15
172	Optoelectronic Plethysmography in Intensive Care Patients. American Journal of Respiratory and Critical Care Medicine, 2000, 161, 1546-1552.	2.5	397