

Antonella LoMauro

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

2,206
citations

279701

23
h-index

233338

45
g-index

92
all docs

92
docs citations

92
times ranked

2376
citing authors

#	ARTICLE	IF	CITATIONS
1	Respiratory physiology of pregnancy. <i>Breathe</i> , 2015, 11, 297-301.	0.6	215
2	Sex differences in respiratory function. <i>Breathe</i> , 2018, 14, 131-140.	0.6	182
3	Regional chest wall volumes during exercise in chronic obstructive pulmonary disease. <i>Thorax</i> , 2004, 59, 210-216.	2.7	171
4	Effects of gender and posture on thoraco-abdominal kinematics during quiet breathing in healthy adults. <i>Respiratory Physiology and Neurobiology</i> , 2010, 172, 184-191.	0.7	136
5	Effect of salbutamol on lung function and chest wall volumes at rest and during exercise in COPD. <i>Thorax</i> , 2005, 60, 916-924.	2.7	83
6	Abdominal volume contribution to tidal volume as an early indicator of respiratory impairment in Duchenne muscular dystrophy. <i>European Respiratory Journal</i> , 2010, 35, 1118-1125.	3.1	82
7	Breathing pattern and chest wall volumes during exercise in patients with cystic fibrosis, pulmonary fibrosis and COPD before and after lung transplantation. <i>Thorax</i> , 2010, 65, 808-814.	2.7	78
8	Rib Cage Deformities Alter Respiratory Muscle Action and Chest Wall Function in Patients with Severe Osteogenesis Imperfecta. <i>PLoS ONE</i> , 2012, 7, e35965.	1.1	71
9	Assessment and management of respiratory function in patients with Duchenne muscular dystrophy: current and emerging options. <i>Therapeutics and Clinical Risk Management</i> , 2015, 11, 1475.	0.9	70
10	Physiology of respiratory disturbances in muscular dystrophies. <i>Breathe</i> , 2016, 12, 318-327.	0.6	70
11	Evolution of respiratory function in Duchenne muscular dystrophy from childhood to adulthood. <i>European Respiratory Journal</i> , 2018, 51, 1701418.	3.1	62
12	Respiratory kinematics by optoelectronic plethysmography during exercise in men and women. <i>European Journal of Applied Physiology</i> , 2005, 93, 581-587.	1.2	55
13	Influence of expiratory flow-limitation during exercise on systemic oxygen delivery in humans. <i>European Journal of Applied Physiology</i> , 2005, 95, 229-242.	1.2	51
14	Concomitant ventilatory and circulatory functions of the diaphragm and abdominal muscles. <i>Journal of Applied Physiology</i> , 2010, 109, 1432-1440.	1.2	48
15	The Abdominal Circulatory Pump. <i>PLoS ONE</i> , 2009, 4, e5550.	1.1	47
16	Determinants of cough efficiency in Duchenne muscular dystrophy. <i>Pediatric Pulmonology</i> , 2014, 49, 357-365.	1.0	47
17	Effect of helium breathing on intercostal and quadriceps muscle blood flow during exercise in COPD patients. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R1549-R1559.	0.9	46
18	Lung Volume Reduction in Emphysema Improves Chest Wall Asynchrony. <i>Chest</i> , 2015, 148, 185-195.	0.4	37

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19	Respiratory pattern in an adult population of dystrophic patients. <i>Journal of the Neurological Sciences</i> , 2011, 306, 54-61.	0.3	35
20	Effect of Nusinersen on Respiratory Muscle Function in Different Subtypes of Type 1 Spinal Muscular Atrophy. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 200, 1547-1550.	2.5	34
21	Spontaneous Breathing Pattern as Respiratory Functional Outcome in Children with Spinal Muscular Atrophy (SMA). <i>PLoS ONE</i> , 2016, 11, e0165818.	1.1	33
22	Low abdominal contribution to breathing as daytime predictor of nocturnal desaturation in adolescents and young adults with Duchenne Muscular Dystrophy. <i>Respiratory Medicine</i> , 2012, 106, 276-283.	1.3	31
23	Respiratory and leg muscles perceived exertion during exercise at altitude. <i>Respiratory Physiology and Neurobiology</i> , 2011, 177, 162-168.	0.7	25
24	Sleep Disordered Breathing in Duchenne Muscular Dystrophy. <i>Current Neurology and Neuroscience Reports</i> , 2017, 17, 44.	2.0	25
25	Sex and gender in respiratory physiology. <i>European Respiratory Review</i> , 2021, 30, 210038.	3.0	25
26	Effects of propofol anaesthesia on thoraco-abdominal volume variations during spontaneous breathing and mechanical ventilation. <i>Acta Anaesthesiologica Scandinavica</i> , 2011, 55, 588-596.	0.7	23
27	Frequency dependence of lung volume changes during superimposed high-frequency jet ventilation and high-frequency jet ventilation. <i>British Journal of Anaesthesia</i> , 2014, 112, 141-149.	1.5	21
28	Ribcage deformity and the altered breathing pattern in children with osteogenesis imperfecta. <i>Pediatric Pulmonology</i> , 2018, 53, 964-972.	1.0	21
29	Diaphragm Involvement in Duchenne Muscular Dystrophy (DMD): An MRI Study. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 461-471.	1.9	21
30	Acute Effects of Mechanical Insufflation-Exsufflation on the Breathing Pattern in Stable Subjects With Duchenne Muscular Dystrophy. <i>Respiratory Care</i> , 2018, 63, 955-965.	0.8	20
31	Alterations of thoraco-abdominal volumes and asynchronies in patients with spinal muscle atrophy type III. <i>Respiratory Physiology and Neurobiology</i> , 2014, 197, 1-8.	0.7	18
32	Acute respiratory muscle unloading by normoxic helium-O ₂ breathing reduces the O ₂ cost of cycling and perceived exertion in obese adolescents. <i>European Journal of Applied Physiology</i> , 2015, 115, 99-109.	1.2	18
33	Adaptation of lung, chest wall, and respiratory muscles during pregnancy: preparing for birth. <i>Journal of Applied Physiology</i> , 2019, 127, 1640-1650.	1.2	18
34	Influence of Tracheal Obstruction on the Efficacy of Superimposed High-frequency Jet Ventilation and Single-frequency Jet Ventilation. <i>Anesthesiology</i> , 2015, 123, 799-809.	1.3	17
35	Physiology masterclass: Extremes of age: newborn and infancy. <i>Breathe</i> , 2016, 12, 65-68.	0.6	17
36	Correlated Variability in the Breathing Pattern and End-Expiratory Lung Volumes in Conscious Humans. <i>PLoS ONE</i> , 2015, 10, e0116317.	1.1	17

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37	Comparison of superimposed high-frequency jet ventilation with conventional jet ventilation for laryngeal surgery. <i>British Journal of Anaesthesia</i> , 2012, 108, 690-697.	1.5	16
38	The impaired diaphragmatic function after bilateral lung transplantation: A multifactorial longitudinal study. <i>Journal of Heart and Lung Transplantation</i> , 2020, 39, 795-804.	0.3	16
39	A New Method for Measuring Bell-Shaped Chest Induced by Impaired Ribcage Muscles in Spinal Muscular Atrophy Children. <i>Frontiers in Neurology</i> , 2018, 9, 703.	1.1	15
40	Intellectual abilities, language comprehension, speech, and motor function in children with spinal muscular atrophy type 1. <i>Journal of Neurodevelopmental Disorders</i> , 2021, 13, 9.	1.5	15
41	Effects of a multidisciplinary body weight reduction program on static and dynamic thoraco-abdominal volumes in obese adolescents. <i>Applied Physiology, Nutrition and Metabolism</i> , 2016, 41, 649-658.	0.9	14
42	Postural effects on lung and chest wall volumes in late onset type II glycogenosis patients. <i>Respiratory Physiology and Neurobiology</i> , 2013, 186, 308-314.	0.7	13
43	Respiratory muscle endurance training reduces the O ₂ cost of cycling and perceived exertion in obese adolescents. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 313, R487-R495.	0.9	13
44	Blood Shift During Cough: Negligible or Significant?. <i>Frontiers in Physiology</i> , 2018, 9, 501.	1.3	13
45	Thoracoabdominal Asynchrony Contributes to Exercise Limitation in Mild Asthmatic Subjects. <i>Frontiers in Physiology</i> , 2018, 9, 719.	1.3	11
46	Physiological changes and compensatory mechanisms by the action of respiratory muscles in a porcine model of phrenic nerve injury. <i>Journal of Applied Physiology</i> , 2021, 130, 813-826.	1.2	11
47	Ribcage kinematics during exercise justifies thoracoscopic versus postero-lateral thoracotomy lobectomy prompt recovery. <i>European Journal of Cardio-thoracic Surgery</i> , 2017, 52, 1197-1205.	0.6	8
48	Specific anesthesia-induced lung volume changes from induction to emergence: a pilot study. <i>Acta Anaesthesiologica Scandinavica</i> , 2018, 62, 282-292.	0.7	8
49	Respiratory muscle activation and action during voluntary cough in healthy humans. <i>Journal of Electromyography and Kinesiology</i> , 2019, 49, 102359.	0.7	8
50	Balance and visual reliance in post-COVID syndrome patients assessed with a robotic system: a multi-sensory integration deficit. <i>Neurological Sciences</i> , 2022, 43, 85-88.	0.9	8
51	Eat, breathe, sleep with Osteogenesis Imperfecta. <i>Orphanet Journal of Rare Diseases</i> , 2021, 16, 435.	1.2	8
52	Breathing patterns recognition: A functional data analysis approach. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 217, 106670.	2.6	7
53	Quantitative Analysis by 3D Graphics of Thoraco-Abdominal Surface Shape and Breathing Motion. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	6
54	Non-Invasive Respiratory Assessment in Duchenne Muscular Dystrophy: From Clinical Research to Outcome Measures. <i>Life</i> , 2021, 11, 947.	1.1	5

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55	Respiratory physiology in pregnancy and assessment of pulmonary function. Best Practice and Research in Clinical Obstetrics and Gynaecology, 2022, 85, 3-16.	1.4	5
56	Two single cases treated by a new pseudoelastic upper-limb orthosis for secondary dystonia of the young. , 2017, 2017, 1260-1265.		4
57	A case of unexplained dyspnoea: when lung function testing matters!. Breathe, 2018, 14, 325-332.	0.6	4
58	Efficacy of lung volume optimization maneuver monitored by optoelectronic plethysmography in the management of congenital diaphragmatic hernia. Respiratory Medicine Case Reports, 2017, 22, 133-136.	0.2	3
59	Glossopharyngeal breathing can allow a lung expansion greater than inspiratory capacity in muscular dystrophy. European Respiratory Journal, 2019, 54, 1801938.	3.1	3
60	Functional analysis of the airways after pulmonary lobectomy through computational fluid dynamics. Scientific Reports, 2022, 12, 3321.	1.6	3
61	Comparison of different methods for lung immobilization in an animal model. Radiotherapy and Oncology, 2020, 150, 151-158.	0.3	2
62	Sniff test: Does what we measure at the nose reflect what happens in the chest wall?. Clinical Respiratory Journal, 2020, 14, 589-591.	0.6	2
63	Sex Differences in the Anatomy of the Airways and the Lungs: Impact on Dysanapsis across the Lifespan. Physiology in Health and Disease, 2021, , 13-38.	0.2	2
64	Over three decades of natural history of limb girdle muscular dystrophy type R1/2A and R2/2B: Mathematical modelling of a multifactorial study. Neuromuscular Disorders, 2021, 31, 489-497.	0.3	2
65	Effect of portable noninvasive ventilation on thoracoabdominal volumes in recovery from intermittent exercise in patients with COPD. Journal of Applied Physiology, 2021, 131, 401-413.	1.2	2
66	Should the diaphragm be evaluated after abdominoplasty?. Jornal Brasileiro De Pneumologia, 2019, 45, e20190146.	0.4	2
67	After-Effects of Thixotropic Maneuvers on Chest Wall and Compartmental Operational Volumes of Healthy Subjects Using Optoelectronic Plethysmography. Frontiers in Physiology, 2019, 10, 1376.	1.3	1
68	Reply to Chacko et al.: Limited Assessment of Respiratory Muscle Response to Nusinersen Treatment in Infants with Spinal Muscular Atrophy. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 624-626.	2.5	1
69	Respiratory physiology of the newborn. , 2021, , 21-37.		1
70	Respiratory function assessment at the time of a new respiratory virus pandemic. Respiratory Medicine, 2021, 187, 106570.	1.3	1
71	Thoracoabdominal asynchrony contributes to exercise limitation in mild asthmatic subjects. , 2018, , .		1
72	THE EFFECT OF PREGNANCY ON RESPIRATORY FUNCTION. , 2018, , .		1

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73	Can Breathing Pattern Assessment Predict the Need of Ventilatory Support in Treated Infants with Spinal Muscular Atrophy Type 1?. American Journal of Respiratory and Critical Care Medicine, 2022, 206, 118-120.	2.5	1
74	Mechanical in-Exsufflation Improves the Breathing Pattern in Patients with Duchenne Muscular Dystrophy. IFMBE Proceedings, 2016, , 737-740.	0.2	0
75	P.300Diaphragm imaging in Duchenne muscular dystrophy (DMD). Neuromuscular Disorders, 2019, 29, S154-S155.	0.3	0
76	P.359The beneficial effect of nusinersen on the breathing pattern of SMA type 1 children. Neuromuscular Disorders, 2019, 29, S186.	0.3	0
77	Effects of Mechanical Insufflation-Exsufflation on the Breathing Pattern in Stable Subjects With Duchenne Muscular Dystrophy: "A Step Into New Knowledge". Respiratory Care, 2019, 64, 236-238.	0.8	0
78	S13...Effect of portable non-invasive ventilation on thoracoabdominal volume regulation in recovery from intermittent exercise in patients with COPD. , 2021, , .		0
79	A Multidisciplinary Evaluation of Patients with DMD in An Italian Tertiary Care Center. Journal of Neuromuscular Diseases, 2021, 8, 235-249.	1.1	0
80	Scoliosis and spinal fusion (SF) correlate with spirometry but not with breathing pattern at rest in Duchenne muscular dystrophy (DMD). , 2015, , .		0
81	Spontaneous breathing pattern in children with spinal muscle atrophy (SMA). , 2015, , .		0
82	The natural course of lung volumes in Duchenne Muscular Dystrophy (DMD). , 2017, , .		0
83	Impaired ribcage muscles function alters ribcage structure in spinal muscle atrophy (SMA) children. , 2017, , .		0
84	The ventilatory pattern and the operational volumes during exercise in subjects with diagnosed exercise-induced laryngeal obstruction (EILO). , 2018, , .		0
85	The diaphragm before and after lung transplant (LT). , 2018, , .		0
86	Sniff test: does what we measure at the nose reflect what happens in the chest wall?. , 2019, , .		0
87	Patterns of changes of the flow-volume curve in Duchenne Muscular Dystrophy (DMD). , 2020, , .		0
88	EAT, BREATHE, SLEEP with Osteogenesis Imperfecta (OI). , 2020, , .		0
89	Uni- and bilateral diaphragm paralysis: an animal model. , 2020, , .		0
90	Design and custom fabrication of specialized orthoses for the upper-limb stabilization in childhood dyskinesia. Prosthetics and Orthotics International, 2022, Publish Ahead of Print, .	0.5	0