Stephen H Loring

List of Publications by Year
in descending order

58 papers	4,411 citations	201674 27 h-index	144013 57 g-index
60 all docs	60 docs citations	60 times ranked	3004 citing authors

#	Article	IF	Citations
1	Mechanical Ventilation Guided by Esophageal Pressure in Acute Lung Injury. New England Journal of Medicine, 2008, 359, 2095-2104.	27.0	948
2	The Application of Esophageal Pressure Measurement in Patients with Respiratory Failure. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 520-531.	5.6	443
3	Effect of Titrating Positive End-Expiratory Pressure (PEEP) With an Esophageal Pressureâ€“Guided Strategy vs an Empirical High PEEP-F<scp>io</scp>₂ Strategy on Death and Days Free From Mechanical Ventilation Among Patients With Acute Respiratory Distress Syndrome. JAMA - Journal of the American Medical Association, 2019, 321, 846.	7.4	279
4	Esophageal and transpulmonary pressures in acute respiratory failure*. Critical Care Medicine, 2006, 34, 1389-1394.	0.9	257
5	Airway Stabilization With Silicone Stents for Treating Adult Tracheobronchomalacia. Chest, 2007, 132, 609-616.	0.8	211
6	Pulmonary characteristics in COPD and mechanisms of increased work of breathing. Journal of Applied Physiology, 2009, 107, 309-314.	2.5	209
7	Respiratory restriction and elevated pleural and esophageal pressures in morbid obesity. Journal of Applied Physiology, 2010, 108, 212-218.	2.5	209
8	Tracheobronchomalacia: Comparison between End-expiratory and Dynamic Expiratory CT for Evaluation of Central Airway Collapse. Radiology, 2005, 235, 635-641.	7.3	159
9	Esophageal pressures in acute lung injury: do they represent artifact or useful information about transpulmonary pressure, chest wall mechanics, and lung stress?. Journal of Applied Physiology, 2010, 108, 515-522.	2.5	132
10	Quantifying unintended exposure to high tidal volumes from breath stacking dyssynchrony in ARDS: the BREATHE criteria. Intensive Care Medicine, 2016, 42, 1427-1436.	8.2	130
11	Relation between Preoperative Inspiratory Lung Resistance and the Outcome of Lung-Volumeâ€“Reduction Surgery for Emphysema. New England Journal of Medicine, 1998, 338, 1181-1185.	27.0	116
12	Volume-related and volume-independent effects of posture on esophageal and transpulmonary pressures in healthy subjects. Journal of Applied Physiology, 2006, 100, 753-758.	2.5	110
13	Airflow Shape Is Associated With the Pharyngeal Structure Causing OSA. Chest, 2017, 152, 537-546.	0.8	106
14	Mortality and pulmonary mechanics in relation to respiratory system and transpulmonary driving pressures in ARDS. Intensive Care Medicine, 2016, 42, 1206-1213.	8.2	99
15	Central Airway Mechanics and Flow Limitation in Acquired Tracheobronchomalacia. Chest, 2007, 131, 1118-1124.	0.8	93
16	Transpulmonary Pressure: The Importance of Precise Definitions and Limiting Assumptions. American Journal of Respiratory and Critical Care Medicine, 2016, 194, 1452-1457.	5.6	83
17	Lung mechanics and pulmonary function testing in cetaceans. Journal of Experimental Biology, 2015, 218, 2030-2038.	1.7	64
18	Transpulmonary pressures and lung mechanics with glossopharyngeal insufflation and exsufflation beyond normal lung volumes in competitive breath-hold divers. Journal of Applied Physiology, 2007, 102, 841-846.	2.5	62

#	Article	IF	Citations
19	Driving Pressure and Respiratory Mechanics in ARDS. New England Journal of Medicine, 2015, 372, 776-777.	27.0	51
20	Association Between Airway Caliber Changes With Lung Inflation and Emphysema Assessed by Volumetric CT Scan in Subjects With COPD. Chest, 2012, 141, 736-744.	0.8	50
21	Effect of Esophageal Pressureâ€“guided Positive End-Expiratory Pressure on Survival from Acute Respiratory Distress Syndrome: A Risk-based and Mechanistic Reanalysis of the EPVent-2 Trial. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 1153-1163.	5.6	49
22	Friction and lubrication of pleural tissues. Respiratory Physiology and Neurobiology, 2004, 142, 55-68.	1.6	38
23	Respiratory mechanical effects of surgical pneumoperitoneum in humans. Journal of Applied Physiology, 2014, 117, 1074-1079.	2.5	38
24	Lubrication regimes in mesothelial sliding. Journal of Biomechanics, 2005, 38, 2390-2396.	2.1	37
25	Sitting and Supine Esophageal Pressures in Overweight and Obese Subjects. Obesity, 2012, 20, 2354-2360.	3.0	37
26	Maintaining end-expiratory transpulmonary pressure prevents worsening of ventilator-induced lung injury caused by chest wall constriction in surfactant-depleted rats*. Critical Care Medicine, 2010, 38, 2358-2364.	0.9	34
27	Volume Delivered During Recruitment Maneuver Predicts Lung Stress in Acute Respiratory Distress Syndrome*. Critical Care Medicine, 2016, 44, 91-99.	0.9	33
28	Tube Law of the Pharyngeal Airway in Sleeping Patients with Obstructive Sleep Apnea. Sleep, 2016, 39, 337-343.	1.1	29
29	Age and Sex Dependence of Forced Expiratory Central Airway Collapse in Healthy Volunteers. Chest, 2012, 142, 168-174.	0.8	27
30	Test of the Starling resistor model in the human upper airway during sleep. Journal of Applied Physiology, 2014, 117, 1478-1485.	2.5	25
31	Elastohydrodynamic separation of pleural surfaces during breathing. Respiratory Physiology and Neurobiology, 2003, 137, 97-106.	1.6	23
32	Influence of pharyngeal muscle activity on inspiratory negative effort dependence in the human upper airway. Respiratory Physiology and Neurobiology, 2014, 201, 55-59.	1.6	19
33	Mediastinal and chest wall limitations to asymmetry of lung inflation. Journal of Applied Physiology, 2004, 96, 999-1004.	2.5	17
34	Determinants of friction in soft elastohydrodynamic lubrication. Journal of Biomechanics, 2009, 42, 1069-1074.	2.1	16
35	Pleural mechanics and the pathophysiology of air leaks. Journal of Thoracic and Cardiovascular Surgery, 2018, 155, 2182-2189.	0.8	16
36	Finite element simulation of elastohydrodynamic lubrication of soft biological tissues. Computers and Structures, 2007, 85, 1114-1120.	4.4	15

#	Article	IF	Citations
37	Stiffness of the pleural surface of the chest wall is similar to that of the lung. Journal of Applied Physiology, 2003, 95, 2345-2349.	2.5	14
38	Inflation and deflation pressure-volume loops in anesthetized pinnipeds confirms compliant chest and lungs. Frontiers in Physiology, 2014, 5, 433.	2.8	14
39	Relative motion of lung and chest wall promotes uniform pleural space thickness. Respiratory Physiology and Neurobiology, 2002, 131, 233-243.	1.6	13
40	Should we titrate peep based on end-expiratory transpulmonary pressure?â€"yes. Annals of Translational Medicine, 2018, 6, 390-390.	1.7	13
41	Inhalation heterogeneity from subresidual volumes in elite divers. Journal of Applied Physiology, 2010, 109, 1969-1973.	2.5	12
42	Raising positive end-expiratory pressures in ARDS to achieve a positive transpulmonary pressure does not cause hemodynamic compromise. Intensive Care Medicine, 2014, 40, 126-128.	8.2	11
43	Sources of graft restriction after single lung transplantation for emphysema. Journal of Thoracic and Cardiovascular Surgery, 2007, 134, 204-209.	0.8	8
44	Esophageal Pressures in Acute Respiratory Distress Syndrome. Critical Care Medicine, 2013, 41, e1.	0.9	7
45	Expiratory Abdominal Rounding in Acute Dyspnea Suggests Congestive Heart Failure. Lung, 2006, 184, 324-329.	3.3	6
46	Hydrodynamic thickening of lubricating fluid layer beneath sliding mesothelial tissues. Journal of Biomechanics, 2008, 41, 1197-1205.	2.1	6
47	Influence of the softness of the parietal pleura on respiratory sliding mechanisms. Respiratory Physiology and Neurobiology, 2011, 177, 114-119.	1.6	6
48	Monitoring of neuromuscular blockade: a comparison of train-of-four and the Campbell diagram. Intensive Care Medicine, 2018, 44, 2305-2306.	8.2	6
49	Pressure-decay testing of pleural air leaks in intact murine lungs: evidence for peripheral airway regulation. Physiological Reports, 2018, 6, e13712.	1.7	6
50	A Potential Elastohydrodynamic Origin of Load-Support and Coulomb-Like Friction in Lungâ^•Chest Wall Lubrication. Journal of Tribology, 2008, 130, 41201.	1.9	5
51	Potential hydrodynamic origin of frictional transients in sliding mesothelial tissues. Friction, 2013, 1, 163-177.	6.4	5
52	â€œVentilatory alternansâ€• A leftâ€"right alternation of inspiratory airflow in humans. Respiratory Physiology and Neurobiology, 2013, 185, 468-471.	1.6	5
53	Marked pericardial inhomogeneity of specific ventilation at total lung capacity and beyond. Respiratory Physiology and Neurobiology, 2009, 169, 44-49.	1.6	3
54	Science to Practice: How Do We Interpret the Transfer of Hyperpolarized¹²⁹Xe from Blood into Alveolar Gas?. Radiology, 2009, 252, 319-321.	7.3	2

#	Article	IF	Citations
55	Probing softness of the parietal pleural surface at the micron scale. Journal of Biomechanics, 2011, 44, 2558-2564.	2.1	2
56	Communications between Pulmonary Airways and Blood Vessels. A New Mechanism?. American Journal of Respiratory and Critical Care Medicine, 2017, 196, 799-800.	5.6	2
57	Revisiting atelectasis in lung units with low ventilation/perfusion ratios. Journal of Applied Physiology, 2019, 126, 782-786.	2.5	1
58	The authors reply. Critical Care Medicine, 2015, 43, e54-e55.	0.9	0