

# CITATION REPORT

List of articles citing

**Stress distribution in lungs: a model of pulmonary elasticity**

**DOI: 10.1152/jappl.1970.28.5.596**

**Journal of Applied Physiology, 1970, 28, 596-608.**

**Source:** <https://exaly.com/paper-pdf/10193001/citation-report.pdf>

**Version:** 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1213	Influence of surface forces on collateral ventilation. <i>Journal of Applied Physiology</i> , <b>1971</b> , 31, 544-9	3.7	18
1212	Respiration. <b>1972</b> , 34, 91-116		3
1211	A non-linear theory of the distribution of pulmonary ventilation. <b>1972</b> , 15, 1-38		33
1210	Ventilation of a lung model with the Engström respirator. The effect of different respirator settings on gas distribution. <b>1972</b> , 16, 206-15		6
1209	Peak expiratory flow rate and rate of change of pleural pressure. <b>1973</b> , 18, 222-37		6
1208	A general theory of respiratory mechanics applied to forced expiration. <b>1973</b> , 19, 60-79		10
1207	Normal airways conductance at different lung volumes. <b>1973</b> , 31, 429-41		9
1206	Bronchial and extrabronchial factors in chronic airflow obstruction. <b>1974</b> , 29, 394-400		9
1205	Physiology of Cough. <b>1974</b> , 83, 761-768		9
1204	A Theory of Elasticity of the Lung. <b>1974</b> , 41, 8-14		32
1203	The forces applied to the lung in health and disease. <b>1974</b> , 57, 371-7		35
1202	Macroscopic isotropy of lung expansion. <b>1974</b> , 20, 105-15		53
1201	A theory for distortion studies of lung parenchyma based on alveolar membrane properties. <b>1974</b> , 7, 101-7		30
1200	Bronchial hysteresis in excised lungs. <b>1975</b> , 249, 435-43		4
1199	Pulmonary surfactant: a surface chemistry viewpoint. <b>1975</b> , 3, 119-59		71
1198	Does the surface tension make the lung inherently unstable?. <b>1975</b> , 37, 497-502		43
1197	Evaluation of unilateral decortication. A patient successfully treated 44 years after onset of tuberculosis. <b>1975</b> , 19, 704-15		7

1196	Stress-strain relationships during uniform and non uniform expansion of isolated lungs. <b>1975</b> , 23, 87-107	27
1195	The significance of alveolar geometry and surface tension in the respiratory mechanics of the lung. <b>1975</b> , 24, 115-37	28
1194	Dynamic alveolar mechanics as studied by videomicroscopy. <b>1975</b> , 24, 217-32	29
1193	Lung gas tensions and active regulation of ventilation/perfusion ratios in health and disease. <b>1975</b> , 69, 153-70	31
1192	Stress, deformation, and atelectasis of the lung. <b>1975</b> , 37, 481-96	74
1191	Elasticity properties of lung parenchyma derived from experimental distortion data. <b>1975</b> , 15, 481-93	55
1190	The influence of transpulmonary pressure on the diameter of small arterial blood vessels in the lung. <b>1976</b> , 11, 57-66	11
1189	Increased elastic recoil as a determinant of pulmonary barotrauma in divers. <b>1976</b> , 26, 55-64	25
1188	Morphological and physical basis for lung surfactant action. <b>1976</b> , 27, 379-92	64
1187	Stress at the pleural surface. <b>1976</b> , 28, 65-74	14
1186	Pleural pressure with lobar obstruction in dogs. <b>1976</b> , 26, 239-48	24
1185	Lung distensibility. The static pressure-volume curve of the lungs and its use in clinical assessment. <b>1976</b> , 70, 143-84	80
1184	Small distortion properties of lung parenchyma as a compressible continuum. <b>1976</b> , 9, 641-8	6
1183	Local regulation of pulmonary blood flow and ventilation-perfusion ratios in the coatimundi. <i>Journal of Applied Physiology</i> , <b>1976</b> , 40, 216-28	3.7 56
1182	Influence of inflation and atelectasis on the hypoxic pressor response in isolated dog lung lobes. <b>1976</b> , 10, 672-7	13
1181	Effect of lung parenchyma on bronchial collapsibility during maximum expiratory flow in dogs. <b>1976</b> , 118, 1-10	3
1180	Pressure in the occluded bronchus in experimental pulmonary emphysema. <b>1976</b> , 81, 36-38	1
1179	SURGICAL ASPECTS OF ALBUMIN METABOLISM. <b>1977</b> , 333-344	1

1178	Mechanical forces producing pulmonary edema in acute asthma. <b>1977</b> , 297, 592-6		211
1177	Relationship between intrapulmonary airway diameter and smooth muscle tone in excised lungs. <b>1977</b> , 273, 355-65		5
1176	Effect of vascular, pleural, and alveolar pressures on filtration in isolated, perfused lobes of dogs. <b>1977</b> , 14, 265-77		2
1175	Axial forces in the bronchial tree. <i>Journal of Applied Physiology</i> , <b>1977</b> , 42, 773-81	3.7	15
1174	Influence of pulmonary vascular pressure on bronchial collapsibility of excised dog lungs. <b>1977</b> , 27, 157-66		2
1173	The compliance curve for the flow limiting segments of the airway. II. Experiments with human subjects. <b>1977</b> , 100, 139-53		4
1172	Noninvasive Inference of Airway Network Geometry From Broadband Lung Reflection Data. <b>1978</b> , 100, 131-138		17
1171	Effect of positive pressure breathing on lung lymph flow and water content in sheep. <b>1978</b> , 42, 550-7		63
1170	The distributed response of complex branching duct networks. <b>1978</b> , 63, 954-61		28
1169	Lung injury following a 50-metre fall into water. <b>1978</b> , 33, 175-80		25
1168	Mechanical Response of the Lungs at High Frequencies. <b>1978</b> , 100, 57-66		65
1167	Effect of hyperinflation and atelectasis on fluid accumulation in the puppy lung. <i>Journal of Applied Physiology</i> , <b>1978</b> , 45, 284-8	3.7	8
1166	Lung Surfactant Mechanics: Some Unresolved Problems. <b>1978</b> , 261-297		1
1165	Regional esophageal pressures with lobar obstruction in dogs. <b>1978</b> , 35, 108-14		2
1164	Alterations of mechanical properties and morphology in excised rabbit lungs rinsed with a detergent. <i>Journal of Applied Physiology</i> , <b>1979</b> , 47, 1002-10	3.7	91
1163	Reflex bronchoconstriction induced by capsaicin in the dog. <i>Journal of Applied Physiology</i> , <b>1979</b> , 47, 961-3.7	3.7	61
1162	Exponential analysis of elastic recoil and aging in healthy males and females. <i>Journal of Applied Physiology</i> , <b>1979</b> , 47, 683-91	3.7	142
1161	Sex and age differences in intrathoracic airways mechanics in normal man. <i>Journal of Applied Physiology</i> , <b>1979</b> , 46, 556-64	3.7	20

1160	Constitutive Equation of Lung Tissue Elasticity. <b>1979</b> , 101, 38-45	37
1159	Effects of spontaneous respiration on canine left ventricular function. <b>1979</b> , 45, 719-28	88
1158	Elastic properties of lung parenchyma: the effect of pressure--volume hysteresis on the behavior of large blood vessels. <b>1979</b> , 12, 757-64	23
1157	Assessing change in airway calibre--measurement of airway resistance. <b>1979</b> , 8, 307-19	43
1156	Effect of lung inflation on perivascular cuff fluid volume in isolated dog lung lobes. <b>1979</b> , 17, 192-201	51
1155	Influence of lung inflation on the elastic properties of intra-and extrapulmonary airways in man. <b>1979</b> , 37, 255-72	2
1154	Functional abnormalities caused by upper airway obstruction and heaves: their relationship to the etiology of epistaxis. <b>1979</b> , 1, 17-34	15
1153	Surface tension induced by dipalmitoyl lecithin in vitro under physiological conditions. <b>1979</b> , 297, 217-27	20
1152	Continuous positive airway pressure: modes of action in relation to clinical applications. <b>1980</b> , 27, 687-99	14
1151	A mathematical model of lung parenchyma. <b>1980</b> , 102, 124-36	35
1150	Evaluation of mechanical ventilation in newborn infants. II. Pulmonary and neuro-developmental sequelae in relation to original diagnosis. <b>1980</b> , 69, 151-8	10
1149	The effect of smoke inhalation on pulmonary surfactant. <b>1980</b> , 191, 171-81	72
1148	Connective tissue arrangement in respiratory airways. <b>1980</b> , 198, 245-54	10
1147	Airway closure and closing pressure during mechanical ventilation. <b>1980</b> , 24, 299-304	22
1146	Identification and parameter estimation of the mechanical ventilatory system. <b>1980</b> , 39, 75-86	2
1145	Deformation of a flexible disk bonded to an elastic half space-application to the lung. <b>1980</b> , 102, 234	3
1144	Elasticity of small pulmonary arteries in the cat. <b>1980</b> , 102, 170-7	42
1143	Cranio-caudal rib cage distortion with increasing inspiratory airflow in man. <b>1981</b> , 44, 215-37	18

1142	Isotropy and homogeneity of lung tissue deformation. <b>1981</b> , 14, 243-52	19
1141	Bronchial length and diameter behavior during bronchial collapse in excised dog lungs. <b>1981</b> , 43, 107-16	3
1140	The lung--a perspective of biomechanics development. <b>1981</b> , 103, 91-6	5
1139	Flow to lung compartments with different time constants: effect of choice of model. <b>1981</b> , 25, 39-45	5
1138	The effect of the minimal deflation pressure on lung mechanics in isolated rabbit lungs. <b>1981</b> , 159, 255-64	1
1137	Elasticity analysis of lung deformation problems. <b>1981</b> , 9, 451-62	11
1136	Mechanisms of expiratory flow limitation. <b>1981</b> , 9, 489-99	10
1135	Factors Affecting Transvascular Fluid and Protein Movement in Pulmonary Edema and Ards. <b>1981</b> , 2, 109-113	4
1134	Surface tension at low lung volumes: dependence on time and alveolar size. <b>1982</b> , 48, 339-55	144
1133	Effects of positive end expiratory pressure on shunt flow in atelectasis. <b>1982</b> , 48, 243-54	2
1132	Isovolum pressure-flow relationships in intrapulmonary bronchi of excised dog lungs. <i>Journal of Applied Physiology</i> , <b>1982</b> , 52, 295-303	3-7 3
1131	Mechanical factors determining pulmonary interstitial fluid pressure. <b>1982</b> , 160, 175-86	4
1130	Dynamics of viscoelastic spherical membranes- the balloon model of the alveolus. <b>1982</b> , 96, 517-32	8
1129	Alveolar stability during anaesthesia for reconstructive vascular surgery in the leg. <b>1983</b> , 27, 26-34	30
1128	Airway closure and trapped gas during low volume breathing. <b>1983</b> , 51, 63-77	1
1127	Finite element modeling of lungs including interlobar fissures and the heart cavity. <b>1983</b> , 16, 679-90	17
1126	Computing in Anesthesia and Intensive Care. <b>1983</b> ,	1
1125	Constitutive equations for the lung tissue. <b>1983</b> , 105, 374-80	27

1124	Retention of inhaled particles in hamsters with pulmonary fibrosis. <b>1983</b> , 128, 138-43	26
1123	Restoration of pulmonary functions after reinflation in chronic atelectasis. <b>1984</b> , 46, 209-17	6
1122	Effect of lung surface tension on pulmonary vascular mechanics in excised dog lungs. <b>1984</b> , 56, 21-35	2
1121	Mechanical ventilation: physiology and application. <b>1984</b> , 21, 1-87	4
1120	Pulmonary Interstitial Spaces and Lymphatics. <b>1985</b> , 167-230	9
1119	Review of exercise induced pulmonary haemorrhage and its possible relationship with mechanical stress. <b>1985</b> , 17, 166-72	28
1118	A lung perfusion technique for the detection of antigenic intrapulmonary bronchoconstriction and its mediation. <b>1985</b> , 14, 169-79	4
1117	Pulmonary Circulation. <b>1985</b> , 93-165	11
1116	Aerosol deposition along the vertical axis of the lung. <b>1985</b> , 16, 323-333	6
1115	Pressure-volume studies of lungs in situ: Reevaluation of the alveolar bubble model. <b>1986</b> , 1, 215-222	1
1114	Functional Morphology of Lung Parenchyma. <b>1986</b> , 89-111	11
1113	Mechanical Interaction of Respiration and Circulation. <b>1986</b> , 647-656	6
1112	Lung Recoil: Elastic and Rheological Properties. <b>1986</b> , 195-215	4
1111	A proposed alveolar model for adult human lungs: the regular dodecahedron. <b>1986</b> , 214, 266-72	11
1110	Micromechanics of the Lung. <b>1986</b> , 217-231	10
1109	Forced Expiration. <b>1986</b> , 295-314	7
1108	Distribution of Stresses Within the Lung. <b>1986</b> , 233-245	
1107	Collateral Flow. <b>1986</b> , 337-353	1

1106	Lung Mechanics in Disease. <b>1986</b> , 659-692		21
1105	Elastic Moduli of Lungs. <b>1987</b> , 54, 351-358		29
1104	A cellular model of lung elasticity. <b>1987</b> , 109, 126-31		16
1103	Elastic recoil pressure arising from surface tension in hamster lungs treated with intratracheal bleomycin. <b>1987</b> , 152, 325-31		1
1102	Partitioning of pulmonary resistance during constriction in the dog: effects of volume history. <i>Journal of Applied Physiology</i> , <b>1987</b> , 62, 807-15	3.7	129
1101	Pulmonary interstitial resistance. <b>1987</b> , 15, 173-82		2
1100	Augmentation of pressure in a vessel indenting the surface of the lung. <b>1987</b> , 15, 259-84		5
1099	Bursting the alveolar bubble. <b>1987</b> , 42, 467-9		2
1098	Effects of positive end-expiratory pressure on hyaline membrane formation in a rabbit model of the neonatal respiratory distress syndrome. <b>1988</b> , 14, 538-46		145
1097	Smoke inhalation. <b>1988</b> , 14, 473-94		30
1096	The elasticity of mammalian lungs. An historic perspective. <b>1988</b> , 93, 632-7		
1095	Elastic properties of air- and liquid-filled lung parenchyma. <i>Journal of Applied Physiology</i> , <b>1988</b> , 65, 2565-70		35
1094	Intrapartum and Delivery Room Management of Premature Rupture of Membranes Complicated by Oligohydramnios. <b>1989</b> , 16, 863-888		14
1093	The acoustical input impedance of excised human lungs--measurements and model matching. <b>1989</b> , 86, 475-92		9
1092	A least squares algorithm to determine the mechanical time constant distribution of the lung during forced expiration. <b>1989</b> , 24, 29-40		1
1091	Pulmonary vascular response to acetylcholine in isolated rat lungs treated with intratracheal bleomycin. <b>1990</b> , 161, 73-83		1
1090	Interdependence of regional expiratory flows limits alveolar pressure differences. <i>Journal of Applied Physiology</i> , <b>1990</b> , 69, 1413-8	3.7	7
1089	Effect on histamine responsiveness of reducing airway dimensions by altering posture. <b>1990</b> , 45, 530-5		4



1088	Peripheral lung resistance in normal and asthmatic subjects. <b>1990</b> , 141, 584-8		211
1087	Non-adrenergic, non-cholinergic neural activation stabilizes smooth-muscle tone independently of eicosanoid factors in guinea-pig isolated airways. <b>1991</b> , 104, 509-13		6
1086	Regional compliance and bronchial pressure-diameter relationships in excised pig lungs. <b>1991</b> , 86, 25-39		1
1085	Decreased pulmonary distensibility and pulmonary barotrauma in divers. <b>1991</b> , 86, 293-303		20
1084	Pleural pressure distribution and its relationship to lung volume and interstitial pressure. <i>Journal of Applied Physiology</i> , <b>1991</b> , 70, 967-78	3-7	99
1083	A model of foam elasticity based upon the laws of plateau. <b>1991</b> , 145, 255-259		42
1082	Cardiovascular effects of airways obstruction. <b>1991</b> , 169, 1-23		45
1081	Factors determining bronchial smooth muscle shortening. <b>1991</b> , 143, S47-8		13
1080	Asthma and airway hyperresponsiveness. <b>1991</b> , 42, 139-50		3
1079	Limitation of maximal bronchoconstriction in living dogs. <b>1992</b> , 145, 553-60		56
1078	Bradykinin causes airway hyperresponsiveness and enhances maximal airway narrowing. Role of microvascular leakage and airway edema. <b>1992</b> , 146, 1301-5		38
1077	Effect of body posture on concentration-response curves to inhaled methacholine. <b>1992</b> , 145, 750-5		22
1076	Postoperative pulmonary complications. When are preventive and therapeutic measures necessary?. <b>1992</b> , 91, 167-70, 173-5		56
1075	Effect of lung volume on plateau response of airways and tissue to methacholine in dogs. <i>Journal of Applied Physiology</i> , <b>1992</b> , 73, 1908-13	3-7	25
1074	Effect of bronchial smooth muscle contraction on lung compliance. <i>Journal of Applied Physiology</i> , <b>1992</b> , 72, 158-67	3-7	85
1073	Open up the lung and keep the lung open. <b>1992</b> , 18, 319-21		790
1072	In vivo evaluation of airway and pulmonary tissue response to inhaled methacholine in the rat. <b>1992</b> , 12, 235-8		7
1071	Mechanical model of lung parenchyma as a two-phase porous medium. <b>1993</b> , 11, 281-295		5

1070	Postpneumonectomy pulmonary edema. <b>1993</b> , 56, 190-5	44
1069	Mechanical factors in lung liquid distribution. <b>1993</b> , 55, 155-79	18
1068	Pressure-targeted, lung-protective ventilatory support in acute lung injury. <b>1994</b> , 105, 109S-115S	25
1067	Should the lung be rested or recruited? The Charybdis and Scylla of ventilator management. <b>1994</b> , 149, 1066-7	38
1066	Airway and tissue responses to antigen challenge in sensitized brown Norway rats. <b>1994</b> , 150, 218-26	43
1065	Respiratory and haemodynamic effects of conventional volume controlled PEEP ventilation, pressure regulated volume controlled ventilation and low frequency positive pressure ventilation with extracorporeal carbon dioxide removal in pigs with acute ARDS. <b>1994</b> , 38, 879-84	8
1064	Parenchymal mechanics and asthma. <b>1995</b> , 107, 140S-144S	15
1063	Healthy lungs tolerate repetitive collapse and reopening during short periods of mechanical ventilation. <b>1995</b> , 39, 370-6	52
1062	Hysteresis of airways and lung parenchyma. <b>1995</b> , 89, 317-22	8
1061	New concepts in the treatment of children with acute respiratory distress syndrome. <b>1995</b> , 127, 163-75	48
1060	Evolving concepts in the ventilatory management of acute respiratory distress syndrome. <b>1996</b> , 17, 555-75	55
1059	The effect of breathing exercises with body positioning on regional lung ventilation. <b>1996</b> , 42, 219-227	16
1058	Effect of the route and mode of agonist delivery on functional behaviour of the airways. <b>1996</b> , 106, 71-80	7
1057	High-frequency pressure-control ventilation with high positive end-expiratory pressure in children with acute respiratory distress syndrome. <b>1996</b> , 129, 566-73	39
1056	Courbe dose-réponse à la méthacholine chez deux groupes de sujets atteints d'asthme ou de mucoviscidose. <b>1996</b> , 36, 476-481	
1055	Effect of macroscopic deformation on lung microstructure. <i>Journal of Applied Physiology</i> , <b>1996</b> , 81, 1792-97	4
1054	Lung tissue behavior in the mouse during constriction induced by methacholine and endothelin-1. <i>Journal of Applied Physiology</i> , <b>1996</b> , 81, 2373-8	3.7 29
1053	Respiratory mechanics in patients ventilated for critical lung disease. <b>1996</b> , 9, 262-73	48

1052	New strategies in mechanical ventilation for acute lung injury. <b>1996</b> , 9, 1063-72		29
1051	Tidal volume, PEEP, and barotrauma. An open and shut case?. <b>1996</b> , 109, 302-4		18
1050	Intercellular adhesion molecule-1 mediates acid aspiration-induced lung injury. <b>1996</b> , 154, 504-10		47
1049	Increased type I procollagen mRNA in airways and pulmonary vessels after vagal denervation in rats. <b>1997</b> , 17, 691-701		10
1048	Experimental studies on lung mechanics, gas exchange and oxygen delivery under open lung conditions. Mechanical ventilation with decelerating versus constant inspiratory flow. <b>1997</b> , 102, 1-20		
1047	Surfactant dysfunction makes lungs vulnerable to repetitive collapse and reexpansion. <b>1997</b> , 155, 313-20		189
1046	On the causes of lung hyperinflation during bronchoconstriction. <b>1997</b> , 10, 468-75		63
1045	Airway and lung tissue behaviour during endothelin-1 induced constriction in rats: effects of receptor antagonists. <b>1997</b> , 75, 1369-1374		3
1044	Restoration of lung volume using the Flutter VRP1 or breathing exercise. <b>1997</b> , 43, 183-189		10
1043	The elephant's respiratory system: adaptations to gravitational stress. <b>1997</b> , 109, 177-94		14
1042	Morphological determinants of peripheral lung mechanical changes induced by capsaicin. <b>1997</b> , 108, 63-72		2
1041	High vascular and airway pressures increase interstitial protein mRNA expression in isolated rat lungs. <i>Journal of Applied Physiology</i> , <b>1997</b> , 83, 1697-705	3-7	57
1040	Ventilation patterns, surfactant and lung injury. <b>1997</b> , 71 Suppl 1, 13-7		3
1039	Effect of lung inflation in vivo on airways with smooth muscle tone or edema. <i>Journal of Applied Physiology</i> , <b>1997</b> , 82, 491-9	3-7	46
1038	Acute lung injury: Experimental data. <b>1997</b> , 41, 59-77		1
1037	Atelectasis after abdominal surgery. <b>1997</b> , 185, 584-92		26
1036	Respiratory mechanics and surfactant in the acute respiratory distress syndrome. <b>1998</b> , 25, 955-63		12
1035	Volume recruitment and oxygenation in pulmonary edema: a comparison between HFOV and CMV. <b>1998</b> , 13, 126-35		9

1034	NEONATAL RESPIRATORY FAILURE: Current Ventilator Management Strategies. <b>1998</b> , 16, 129-154		2
1033	The alveolar surface network: a new anatomy and its physiological significance. <b>1998</b> , 251, 491-527		40
1032	From ventilator-induced lung injury to multiple organ dysfunction?. <b>1998</b> , 24, 102-4		98
1031	New techniques and developments in physiologic imaging of airways. <b>1998</b> , 36, 211-30		8
1030	Mechanical coupling and liquid exchanges in the pleural space. <b>1998</b> , 19, 241-60		26
1029	Mechanical ventilation of patients with acute lung injury. <b>1998</b> , 14, 707-29, vii		13
1028	Anaesthesia, Pain, Intensive Care and Emergency Medicine - A.P.I.C.E.. <b>1998</b> ,		
1027	Ventilator-induced lung injury: lessons from experimental studies. <b>1998</b> , 157, 294-323		2919
1026	The mechanics of breathing. <b>1998</b> , 157, S88-94		23
1025	Airspace configuration at different transpulmonary pressures in normal and paraquat-induced lung injury in rats. <b>1998</b> , 158, 1230-4		10
1024	A comparative study of elastic properties of rat and guinea pig parenchymal strips. <b>1998</b> , 157, 846-52		11
1023	Assessing the effect of deep inhalation on airway calibre: a novel approach to lung function in bronchial asthma and COPD. <b>1998</b> , 12, 1219-27		72
1022	Paraquat poisoning: an experimental model of dose-dependent acute lung injury due to surfactant dysfunction. <b>1998</b> , 31, 445-50		11
1021	Airway-parenchymal interdependence after airway contraction in rat lung explants. <i>Journal of Applied Physiology</i> , <b>1998</b> , 85, 231-7	3.7	37
1020	Activation of human macrophages by mechanical ventilation in vitro. <b>1998</b> , 275, L1040-50		175
1019	Mechanical strain inhibits repair of airway epithelium in vitro. <b>1998</b> , 274, L883-92		43
1018	Force heterogeneity in a two-dimensional network model of lung tissue elasticity. <i>Journal of Applied Physiology</i> , <b>1998</b> , 85, 1223-9	3.7	40
1017	Elastic moduli of excised constricted rat lungs. <i>Journal of Applied Physiology</i> , <b>1999</b> , 86, 66-70	3.7	20

1016	Mechanical properties of lung parenchyma during bronchoconstriction. <i>Journal of Applied Physiology</i> , <b>1999</b> , 86, 496-502	3-7	20
1015	Lung injury caused by mechanical ventilation. <b>1999</b> , 116, 9S-15S		419
1014	Sigh in acute respiratory distress syndrome. <b>1999</b> , 159, 872-80		293
1013	Hyperinflation-induced lung injury during alveolar flooding in rats: effect of perfluorocarbon instillation. <b>1999</b> , 159, 1752-7		76
1012	International consensus conferences in intensive care medicine: Ventilator-associated Lung Injury in ARDS. This official conference report was cosponsored by the American Thoracic Society, The European Society of Intensive Care Medicine, and The Societ'de Rànimation de Langue Franãise, and was approved by the ATS Board of Directors, July 1999. <b>1999</b> , 160, 2118-24		232
1011	Mechanical ventilation affects local and systemic cytokines in an animal model of acute respiratory distress syndrome. <b>1999</b> , 160, 109-16		433
1010	Regional expansion of oleic acid-injured lungs. <b>1999</b> , 160, 250-8		111
1009	Effect of mechanical ventilation on inflammatory mediators in patients with acute respiratory distress syndrome: a randomized controlled trial. <b>1999</b> , 282, 54-61		1261
1008	Respiratory failure: current status of experimental therapies. <b>1999</b> , 8, 155-70		4
1007	Surfactant protein B (SP-B) -/- mice are rescued by restoration of SP-B expression in alveolar type II cells but not Clara cells. <b>1999</b> , 274, 19168-74		52
1006	Analysis of stress distribution in the alveolar septa of normal and simulated emphysematic lungs. <b>1999</b> , 32, 891-7		51
1005	Das Konzept der offenen Lunge. <b>1999</b> , 36, S031-S034		1
1004	Basics of Respiratory Mechanics and Artificial Ventilation. <b>1999</b> ,		1
1003	Partitioning of lung responses into airway and tissue components. <b>1999</b> , 133-142		
1002	Airway wall mechanics. <b>1999</b> , 1, 47-72		61
1001	The distal airways: are they important in asthma?. <b>1999</b> , 14, 1403-17		101
1000	Ventilatory management of severe acute respiratory failure for Y2K. <b>1999</b> , 91, 1567-70		7
999	Lung recruitment. <b>2000</b> , 6, 597-623		9

998	Physiotherapy for airway clearance in paediatrics. <b>2000</b> , 15, 196-204		54
997	Complications of mechanical ventilation. <b>2000</b> , 6, 213-52,v		24
996	Effects of mechanical ventilation on release of cytokines into systemic circulation in patients with normal pulmonary function. <b>2000</b> , 93, 1413-7		191
995	Analysis of nonlinear volume-dependent respiratory system mechanics in pediatric patients. <b>2000</b> , 1, 111-8		6
994	Mechanisms involved in airway obstruction: the role of smooth muscle. <b>2000</b> , 55 Suppl 61, 46-8		3
993	Effects of external nasal support on pulmonary gas exchange and EIPH in the horse. <b>2000</b> , 20, 579-585		26
992	A micromechanical model of airway-parenchymal interdependence. <b>2000</b> , 28, 309-17		11
991	[High frequency oscillatory ventilation as therapy for acute lung injury and ARDS]. <b>2000</b> , 49, 972-80		1
990	At surfactant deficiency, application of "the open lung concept" prevents protein leakage and attenuates changes in lung mechanics. <b>2000</b> , 28, 1450-4		28
989	Conventional ventilation versus high-frequency oscillation: hemodynamic effects in newborn babies. <b>2000</b> , 28, 227-31		35
988	Effects of age on elastic moduli of human lungs. <i>Journal of Applied Physiology</i> , <b>2000</b> , 89, 163-8	3.7	111
987	Compliance of peripheral airways deduced from morphometry. <i>Journal of Applied Physiology</i> , <b>2000</b> , 89, 2373-81	3.7	23
986	Prone positioning attenuates and redistributes ventilator-induced lung injury in dogs. <b>2000</b> , 28, 295-303		551
985	Use of recruitment maneuvers and high-positive end-expiratory pressure in a patient with acute respiratory distress syndrome. <b>2000</b> , 28, 1210-6		95
984	The 20th century in respiratory physiology: one view. <b>2000</b> , 62, 951-9		1
983	Fibroblasts and myofibroblasts. <b>2000</b> , 159-198		1
982	Deep inspiration-induced bronchoprotection is stronger than bronchodilation. <b>2000</b> , 162, 910-6		115
981	Tidal volumes for ventilated infants should be determined with a pneumotachometer placed at the endotracheal tube. <b>2000</b> , 162, 2109-12		91

980	Potential mechanism of hyperresponsive airways. <b>2000</b> , 161, 1619-23	26
979	Effects of cool, dry air stimulation on peripheral lung mechanics in asthma. <b>2000</b> , 162, 179-86	74
978	Airway-parenchyma uncoupling in nocturnal asthma. <b>2000</b> , 161, 50-6	94
977	High-frequency oscillatory ventilation does not decrease endothelin release in lung-lavaged rabbits. <b>2000</b> , 60, 213-20	1
976	Lung elastic tissue maturation and perturbations during the evolution of chronic lung disease. <b>2000</b> , 106, 1452-9	128
975	Ventilator-associated lung injury in ARDS. <b>2000</b> , 9, 53-61	
974	Lire les études animales: Pour. <b>2000</b> , 9, 78-82	
973	Anesthesia, Pain, Intensive Care and Emergency Medicine (A.P.I.C.E.. <b>2000</b> ,	
972	Mechanical ventilation in acute lung injury and acute respiratory distress syndrome. <b>2000</b> , 21, 491-510, viii	37
971	Frozen objects: small airways, big breaths, and asthma. <b>2000</b> , 106, 615-24	78
970	Advances in mechanical ventilation. <b>2001</b> , 344, 1986-96	362
969	Diagnosing latent tuberculosis infection: the 100-year upgrade. <b>2001</b> , 163, 807-8	56
968	The use of a pressure manometer enhances student physiotherapists' performance during manual hyperinflation. <b>2001</b> , 47, 121-31	23
967	Small airway inflammation in asthma. <b>2001</b> , 2, 333-9	86
966	Acute lung injury: pathophysiology, assessment and current therapy. <b>2001</b> , 2, 10-21	10
965	Molecular mechanisms underlying combined kidney-lung dysfunction during acute renal failure. <b>2001</b> , 132, 41-52	35
964	Mechanisms of recruitment in oleic acid-injured lungs. <i>Journal of Applied Physiology</i> , <b>2001</b> , 90, 1744-53	3.7 75
963	Historical perspective on airway smooth muscle: the saga of a frustrated cell. <i>Journal of Applied Physiology</i> , <b>2001</b> , 91, 938-52	3.7 70

962	Effects of smooth muscle activation on axial mechanical properties of excised canine bronchi. <i>Journal of Applied Physiology</i> , <b>2001</b> , 90, 1258-66	3-7	6
961	alpha-Actin: disposition, quantities, and estimated effects on lung recoil and compliance. <i>Journal of Applied Physiology</i> , <b>2001</b> , 91, 459-73	3-7	23
960	Stiffness of peripheral airway folding membrane in rabbits. <i>Journal of Applied Physiology</i> , <b>2001</b> , 90, 2041-37	3-7	15
959	Analysis of mechanical stresses within the alveolar septa leading to pulmonary edema. <b>2001</b> , 9, 257-267		13
958	Altered alveolar mechanics in the acutely injured lung. <b>2001</b> , 29, 1049-55		634
957	Relative roles of vascular and airspace pressures in ventilator-induced lung injury. <b>2001</b> , 29, 1593-8		56
956	Strategies to optimize alveolar recruitment. <b>2001</b> , 7, 15-20		20
955	Repetitive high-pressure recruitment maneuvers required to maximally recruit lung in a sheep model of acute respiratory distress syndrome. <b>2001</b> , 29, 1579-86		89
954	Cytokines During Ventilator-Induced Lung Injury: A Word of Caution. <b>2001</b> , 93, 251-252		11
953	Elastic properties of the lung and the chest wall in young and adult healthy pigs. <b>2001</b> , 17, 703-11		31
952	Morphometric Differences in Pulmonary Lesions in Primary and Secondary ARDS Preliminary Study in Autopsies. <b>2001</b> , 197, 521-530		6
951	Aspiration of dead space allows isocapnic low tidal volume ventilation in acute lung injury. Relationships to gas exchange and mechanics. <b>2001</b> , 27, 1496-503		25
950	Anaesthetic management and high frequency oscillatory ventilation. <b>2001</b> , 11, 483-7		11
949	Morphometric Differences in Pulmonary Lesions in Primary and Secondary ARDS. <b>2001</b> , 197, 521-530		3
948	Treatment and prevention of acute respiratory failure: physiological basis. <b>2001</b> , 32, 91-101		2
947	Alveolar surface forces and lung architecture. <b>2001</b> , 129, 183-93		125
946	Cytokines during ventilator-induced lung injury: a word of caution. <b>2001</b> , 93, 251-2		24
945	Pressure-volume curves: searching for the grail or laying patients with adult respiratory distress syndrome on procrustes' bed?. <b>2001</b> , 163, 2-3		74



944	Distal lung dysfunction at night in nocturnal asthma. <b>2001</b> , 163, 1551-6		94
943	Ventilator-induced airway dysfunction?. <b>2001</b> , 163, 806-7		10
942	Production of inflammatory cytokines in ventilator-induced lung injury: a reappraisal. <b>2001</b> , 163, 1176-80		234
941	Ventilator-induced lung injury and recommendations for mechanical ventilation of patients with ARDS. <b>2001</b> , 22, 269-80		28
940	Reducing asthma mortality with the asthma self-management plan system of care. <b>2001</b> , 163, 3-4		10
939	An in vitro pulmonary permeation system with simulation of respiratory dynamics. <b>2001</b> , 6, 363-71		
938	The pulmonary physician in critical care * 7: ventilator induced lung injury. <b>2002</b> , 57, 635-42		67
937	Perspective on lung injury and recruitment: a skeptical look at the opening and collapse story. <b>2002</b> , 165, 1647-53		286
936	The role of the distal lung in asthma. <b>2002</b> , 23, 347-59		7
935	Low-volume ventilation causes peripheral airway injury and increased airway resistance in normal rabbits. <i>Journal of Applied Physiology</i> , <b>2002</b> , 92, 949-56	3-7	110
934	Ventilation with Negative Airway Pressure Induces a Cytokine Response in Isolated Mouse Lung. <b>2002</b> , 94, 1577-1582		4
933	Tidal volume increases do not affect alveolar mechanics in normal lung but cause alveolar overdistension and exacerbate alveolar instability after surfactant deactivation. <b>2002</b> , 30, 2675-83		70
932	Ventilator-induced lung injury. <b>2002</b> , 8, 12-20		66
931	Reduced tidal volumes and lung protective ventilatory strategies: where do we go from here?. <b>2002</b> , 8, 45-50		18
930	Ventilation with negative airway pressure induces a cytokine response in isolated mouse lung. <b>2002</b> , 94, 1577-82, table of contents		16
929	Effects of short-term pressure-controlled ventilation on gas exchange, airway pressures, and gas distribution in patients with acute lung injury/ARDS: comparison with volume-controlled ventilation. <b>2002</b> , 122, 1382-8		108
928	On lung nerves and neurogenic injury. <b>2002</b> , 34, 226-40		19
927	Conventional mechanical ventilation of healthy lungs induced pro-inflammatory cytokine gene transcription. <b>2002</b> , 132, 191-203		41

926	Optimal peep in ARDS. Changing concepts and current controversies. <b>2002</b> , 18, 15-33, v-vi	11
925	Airway closure in anesthetized infants and children: influence of inspiratory pressures and volumes. <b>2002</b> , 46, 529-36	10
924	Kinetic and reversibility of mechanical ventilation-associated pulmonary and systemic inflammatory response in patients with acute lung injury. <b>2002</b> , 28, 834-41	158
923	Bronchodilation and bronchoprotection by deep inspiration and their relationship to bronchial hyperresponsiveness. <b>2003</b> , 24, 55-72	62
922	Ventilator-associated pneumonia and atelectasis: evaluation through bronchoalveolar lavage fluid analysis. <b>2003</b> , 29, 555-63	68
921	Positive end-expiratory pressure modulates local and systemic inflammatory responses in a sepsis-induced lung injury model. <b>2003</b> , 29, 1345-53	58
920	Fluorocarbons facilitate lung recruitment. <b>2003</b> , 29, 2297-2302	19
919	Hypothermia attenuates vascular manifestations of ventilator-induced lung injury in rats. <b>2003</b> , 181, 23-34	44
918	Physiology of the alveolar surface network. <b>2003</b> , 135, 39-104	43
917	Acute renal failure leads to dysregulation of lung salt and water channels. <b>2003</b> , 63, 600-6	180
916	Airway distension with lung inflation measured by HRCT. <b>2003</b> , 10, 1097-103	19
915	Controlled Mechanical Ventilation. <b>2003</b> , 13-38	
914	Science review: mechanisms of ventilator-induced injury. <b>2003</b> , 7, 233-41	139
913	Ventilator-associated lung injury. <b>2003</b> , 361, 332-40	293
912	Functional imaging of airway narrowing. <b>2003</b> , 137, 327-37	9
911	How respiratory system mechanics may help in minimising ventilator-induced lung injury in ARDS patients. <b>2003</b> , 42, 15s-21s	65
910	Physical and biological triggers of ventilator-induced lung injury and its prevention. <b>2003</b> , 47, 15s-25s	196
909	Lung volume: a principle determinant of airway smooth muscle function. <b>2003</b> , 22, 3-5	50

908	Prevention of endotracheal suctioning-induced alveolar derecruitment in acute lung injury. <b>2003</b> , 167, 1215-24		151
907	Ventilator-induced lung injury. <b>2003</b> , 42, 2s-9s		154
906	On the physiologic and clinical relevance of lung-borne cytokines during ventilator-induced lung injury. <b>2003</b> , 167, 1467-71		126
905	Novel aspects of pulmonary mechanics in intensive care. <b>2003</b> , 91, 81-91		39
904	Mechanisms of surface-tension-induced epithelial cell damage in a model of pulmonary airway reopening. <i>Journal of Applied Physiology</i> , <b>2003</b> , 94, 770-83	3-7	254
903	Airway wall remodeling: friend or foe?. <i>Journal of Applied Physiology</i> , <b>2003</b> , 95, 426-34	3-7	173
902	Atelectasis causes vascular leak and lethal right ventricular failure in uninjured rat lungs. <b>2003</b> , 167, 1633-40		161
901	Lung recruitment in real time: learning was never so easy. <b>2003</b> , 167, 1585-6		4
900	The role of a journal in a scientific controversy. <b>2003</b> , 168, 511		20
899	Are recruiting maneuvers needed when ventilating acute respiratory distress syndrome?. <b>2003</b> , 31, 2701-3		6
898	Antioxidant therapy for severe sepsis: promise and perspective. <b>2003</b> , 31, 2697-8		74
897	Measuring the effect of airway pressure on pulmonary arterial diameter in the intact rat lung. <b>2003</b> ,		
896	Morphometric effects of the recruitment maneuver on saline-lavaged canine lungs. A computed tomographic analysis. <b>2003</b> , 99, 71-80		36
895	Lung-protective ventilation strategies in acute lung injury. <b>2003</b> , 31, S312-6		115
894	Guidelines for critical care services and personnel-Innovations and improvements in patient care?. <b>2003</b> , 31, 2709-10		7
893	A rationale for lung recruitment in acute respiratory distress syndrome. <b>2003</b> , 54, 326-8		3
892	Carbon dioxide: a "waste product" with potential therapeutic utilities in critical care. <b>2003</b> , 31, 2705-7		4
891	Vasopressin in septic shock: clinical equipoise mandates a time for restraint. <b>2003</b> , 31, 2707-9		14

890	Is adherence to clinical guidelines a good thing?. <b>2003</b> , 31, 2711-2		4
889	Ventilators: how clever, how complex?. <b>2003</b> , 31, 2704-5		1
888	Effects of recruitment maneuvers in patients with acute lung injury and acute respiratory distress syndrome ventilated with high positive end-expiratory pressure. <b>2003</b> , 31, 2592-7		175
887	Still unresolved issues with brain-type natriuretic peptide measurement in the critically ill patient. <b>2003</b> , 31, 2703-4		4
886	Proposed mechanism for induction of heat shock protein 70 by geranylgeranyl acetone by prenylation of Ras proteins. <b>2003</b> , 31, 2700-1		9
885	Determination of infection probability versus the diagnosis and treatment of antibiotic-responsive diseases. <b>2003</b> , 31, 2699-700		2
884	Lung and alveolar wall elastic and hysteretic behavior in rats: effects of in vivo elastase treatment. <i>Journal of Applied Physiology</i> , <b>2003</b> , 95, 1926-36	3.7	63
883	Laplace's law and the alveolus: a misconception of anatomy and a misapplication of physics. <b>2003</b> , 27, 34-40		45
882	Understanding airway pathophysiology with computed tomography. <i>Journal of Applied Physiology</i> , <b>2003</b> , 95, 854-62	3.7	33
881	The mechanics of the lung parenchyma and airway responsiveness to metacholine. <b>2004</b> , 61, 222-5		1
880	A century of the mechanics of breathing. <b>2004</b> , 170, 10-5		8
879	[Clinical impact of recruitment maneuvers in patients with acute respiratory distress syndrome]. <b>2004</b> , 39, 463-70		1
878	Does mechanical injury of the peripheral airways play a role in the genesis of COPD in smokers?. <b>2004</b> , 1, 85-92		35
877	Protective ventilation of patients with acute respiratory distress syndrome. <b>2004</b> , 92, 261-70		66
876	PEEP in ARDS--how much is enough?. <b>2004</b> , 351, 389-91		38
875	Evaluation of a recruitment maneuver with positive inspiratory pressure and high PEEP in patients with severe ARDS. <b>2004</b> , 48, 287-93		29
874	Nichtinvasives Beatmungsregime und liberales Volumenmanagement bei schwerem ARDS mit septischer Genese—eine Kasuistik. <b>2004</b> , 41, 345		
873	Immunoglobulin M-enriched intravenous polyclonal immunoglobulins reduce bacteremia following <i>Klebsiella pneumoniae</i> infection in an acute respiratory distress syndrome rat model. <b>2004</b> , 30, 251-60		9

872	Bench-to-bedside review: Recruitment and recruiting maneuvers. <b>2005</b> , 9, 60-5	62
871	Higher versus lower positive end-expiratory pressures in patients with the acute respiratory distress syndrome. <b>2004</b> , 351, 327-36	1777
870	Differences in alveolar size in inbred mouse strains. <b>2004</b> , 140, 283-91	70
869	The bronchodilatory effect of deep inspiration diminishes with aging. <b>2004</b> , 98, 838-43	31
868	Alveolar septal collapse in the transitional infant lung: a possible common mechanism in sudden unexpected death in infancy. <b>2004</b> , 63, 485-93	1
867	Ventilatory management of acute respiratory distress syndrome: a consensus of two. <b>2004</b> , 32, 250-5	146
866	Age and functional status as determinants of intensive care unit outcome: sound basis for health policy or tip of the outcomes iceberg. <b>2004</b> , 32, 291-3	7
865	Can endotracheal tube occlusion be predicted?. <b>2004</b> , 32, 298-9	57
864	Leukocyte lysozyme: a novel cause of septic myocardial depression?. <b>2004</b> , 32, 304-5	
863	Anemia and blood transfusion in the critically ill: a decade without change. <b>2004</b> , 32, 290-1	8
862	Advances in the understanding of acute respiratory distress syndrome: summarizing a decade of progress. <b>2004</b> , 10, 265-71	7
861	Cardiogenic shock: art and science. <b>2004</b> , 32, 293-4	39
860	Con: Is the tele-intensive care unit ready for prime time?. <b>2004</b> , 32, 288-90	7
859	Ventilator strategies for posttraumatic acute respiratory distress syndrome: airway pressure release ventilation and the role of spontaneous breathing in critically ill patients. <b>2004</b> , 10, 549-57	18
858	Pro: Multiplier. <b>2004</b> , 32, 287-8	18
857	Relative importance of stretch and shear in ventilator-induced lung injury. <b>2004</b> , 32, 302-4	28
856	How relaxed should we be with acute respiratory distress syndrome?. <b>2004</b> , 32, 296-8	14
855	Are we ready to monitor for delirium in the intensive care unit?. <b>2004</b> , 32, 295-6	12

854	Caveats of evaluating costs in critical care. <b>2004</b> , 32, 299-300		4
853	Airway pressure-time curve profile (stress index) detects tidal recruitment/hyperinflation in experimental acute lung injury. <b>2004</b> , 32, 1018-27		203
852	Physical Therapy for Adults With Bronchiectasis. <b>2004</b> , 11, 201-209		6
851	Exercise response after rapid intravenous infusion of saline in healthy humans. <i>Journal of Applied Physiology</i> , <b>2004</b> , 97, 697-703	3-7	37
850	Acute respiratory distress syndrome, the critical care paradigm: what we learned and what we forgot. <b>2004</b> , 10, 272-8		23
849	A Rationale for Recruitment Maneuvers in ARDS. <b>2004</b> , 11, 33-39		1
848	Optimization of intestinal mucosal oxygenation in shock: a role for medical therapy?. <b>2004</b> , 32, 301-2		2
847	Transit care medicine--a critical link. <b>2004</b> , 32, 305-6		10
846	Mediator modulation therapy of severe sepsis and septic shock: does it work?. <b>2004</b> , 32, 282-6		35
845	LABORATORY INVESTIGATIONS. <b>2004</b> , 32, 1027		
844	Effects of peak inspiratory flow on development of ventilator-induced lung injury in rabbits. <b>2004</b> , 101, 722-8		68
843	Clinical respiratory physiology of the neonate and infant with congenital heart disease. <b>2004</b> , 42, 29-43		5
842	Stretch-induced changes in constricted lung parenchymal strips: role of extracellular matrix. <b>2004</b> , 23, 193-8		13
841	Dependence of lung injury on inflation rate during low-volume ventilation in normal open-chest rabbits. <i>Journal of Applied Physiology</i> , <b>2004</b> , 97, 260-8	3-7	62
840	On defining total lung capacity in the mouse. <i>Journal of Applied Physiology</i> , <b>2004</b> , 96, 1658-64	3-7	70
839	Pressure gradient, not exposure duration, determines the extent of epithelial cell damage in a model of pulmonary airway reopening. <i>Journal of Applied Physiology</i> , <b>2004</b> , 97, 269-76	3-7	100
838	Monitoring of pulmonary mechanics in acute respiratory distress syndrome to titrate therapy. <b>2005</b> , 11, 252-8		22
837	Dynamic alveolar mechanics and ventilator-induced lung injury. <b>2005</b> , 33, S122-8		94

836	Comparison of prone positioning and high-frequency oscillatory ventilation in patients with acute respiratory distress syndrome. <b>2005</b> , 33, 2162-71		107
835	Induced hypothermia as a new approach to lung rest for the acutely injured lung. <b>2005</b> , 33, 2049-55		73
834	Recruitment maneuvers attenuate repeated derecruitment-associated lung injury. <b>2005</b> , 33, 1070-6		29
833	Ventilator-induced lung injury without biotrauma?. <i>Journal of Applied Physiology</i> , <b>2005</b> , 99, 384-5	3.7	12
832	How to ventilate patients with acute lung injury and acute respiratory distress syndrome. <b>2005</b> , 11, 69-76		43
831	Vaporized perfluorohexane attenuates ventilator-induced lung injury in isolated, perfused rabbit lungs. <b>2005</b> , 102, 597-605		11
830	Vascular Contribution to VILI. <b>2005</b> , 227-242		
829	VILI: Physiological Evidence. <b>2005</b> , 243-258		0
828	How to Detect VILI at the Bedside. <b>2005</b> , 301-317		
827	Recruitment Maneuvers in ARDS. <b>2005</b> , 335-352		0
826	Mechanical interactions between collagen and proteoglycans: implications for the stability of lung tissue. <i>Journal of Applied Physiology</i> , <b>2005</b> , 98, 672-9	3.7	192
825	Medical devices and their role in the incidence of ventilator-associated pneumonia--challenging some sacred cows!. <b>2005</b> , 21, 131-4		
824	Mechanical ventilation affects inflammatory mediators in patients undergoing cardiopulmonary bypass for cardiac surgery: a randomized clinical trial. <b>2005</b> , 130, 378-83		155
823	Elastic pressure-volume curves in acute lung injury and acute respiratory distress syndrome. <b>2005</b> , 31, 205-12		19
822	Does high tidal volume generate ALI/ARDS in healthy lungs?. <b>2005</b> , 31, 893-5		12
821	The Mechanism of Ventilator-induced Lung Injury: Role of Dynamic Alveolar Mechanics. <b>2005</b> , 80-92		7
820	Alterations in lung mechanics in decorin-deficient mice. <b>2005</b> , 288, L159-66		44
819	Stresses on pulmonary blood vessels. <b>2005</b> , 288, L1-2		

818	Airway narrowing in porcine bronchi with and without lung parenchyma. <b>2005</b> , 26, 804-11	28
817	On the role of surface tension in the pathophysiology of emphysema. <b>2005</b> , 171, 300-4	27
816	5-Lipoxygenase deficiency prevents respiratory failure during ventilator-induced lung injury. <b>2005</b> , 172, 334-43	44
815	Cellular stress failure in ventilator-injured lungs. <b>2005</b> , 171, 1328-42	167
814	Airway hyperresponsiveness in the elderly: prevalence and clinical implications. <b>2005</b> , 25, 364-75	55
813	Prone position reduces lung stress and strain in severe acute respiratory distress syndrome. <b>2005</b> , 25, 534-44	91
812	De la physiologie à la médecine fondée sur des preuves pour la prise en charge ventilatoire du syndrome de détresse respiratoire aiguë: un pacte de non-agression?. <b>2005</b> , 14, 307-309	1
811	Spontaneous breathing with airway pressure release ventilation favors ventilation in dependent lung regions and counters cyclic alveolar collapse in oleic-acid-induced lung injury: a randomized controlled computed tomography trial. <b>2005</b> , 9, R780-9	76
810	Paradoxical responses to positive end-expiratory pressure in patients with airway obstruction during controlled ventilation. <b>2005</b> , 33, 1519-28	110
809	Association between reduced bronchodilatory effect of deep inspiration and loss of alveolar attachments. <b>2005</b> , 6, 55	16
808	Summary of Clinical Trials of Mechanical Ventilation in ARDS. <b>2005</b> , 405-414	
807	Basic ventilator management: lung protective strategies. <b>2006</b> , 86, 1389-408	17
806	Mechanical ventilation and acute respiratory distress syndrome. <b>2006</b> , 18, 8-12	5
805	STRESS DISTRIBUTION IN THE LUNG. <b>2006</b> , 124-131	
804	New insights into the pathophysiology of the small airways in asthma. <b>2006</b> , 27, 41-52, vi	36
803	Goal oriented ventilation in acute respiratory distress syndrome: a concept for optimal gas exchange at lung protective ventilation. <b>2006</b> , 15, 14-20	
802	Lésions induites par la VM: que nous ont appris les études animales?. <b>2006</b> , 15, 29-35	
801	Lung and 'end organ' injury due to mechanical ventilation in animals: comparison between the prone and supine positions. <b>2006</b> , 10, R38	35



800	Desmin modulates lung elastic recoil and airway responsiveness. <b>2006</b> , 290, L890-6	15
799	Dynamic versus static respiratory mechanics in acute lung injury and acute respiratory distress syndrome. <b>2006</b> , 34, 2090-8	1173
798	Neuromuscular blocking agents decrease inflammatory response in patients presenting with acute respiratory distress syndrome. <b>2006</b> , 34, 2749-57	250
797	Negative Studies Deserve More Attention. <b>2006</b> , 173, 1415-1415	1
796	The implications of arterial Po2 oscillations for conventional arterial blood gas analysis. <b>2006</b> , 102, 1758-64	20
795	Year in review in intensive care medicine. 2005. I. Acute respiratory failure and acute lung injury, ventilation, hemodynamics, education, renal failure. <b>2006</b> , 32, 207-216	19
794	Ventilator-induced lung injury: from the bench to the bedside. <b>2006</b> , 32, 24-33	387
793	A comment on "Ventilator-induced lung injury: from the bench to the bedside", by Tremblay and Slutsky. <b>2006</b> , 32, 1278; author reply 1279-80	
792	Respiratory mechanics in brain-damaged patients. <b>2006</b> , 32, 1947-54	41
791	[The eternal promise of high frequency ventilation]. <b>2006</b> , 30, 19-22	
790	Negative studies deserve more attention. <b>2006</b> , 173, 1414-5; author reply 1415	4
789	Bactericidal function of alveolar macrophages in mechanically ventilated rabbits. <b>2006</b> , 34, 719-26	8
788	The role of cytokines during the pathogenesis of ventilator-associated and ventilator-induced lung injury. <b>2006</b> , 27, 350-64	98
787	Early emphysema in the tight skin and pallid mice: roles of microfibril-associated glycoproteins, collagen, and mechanical forces. <b>2006</b> , 34, 688-94	47
786	Effects of an alveolar recruitment maneuver on cardiovascular and respiratory parameters during total intravenous anesthesia in ponies. <b>2006</b> , 67, 152-9	40
785	Airway remodeling in allergen-challenged Brown Norway rats: distribution of proteoglycans. <b>2006</b> , 290, L1052-8	25
784	Quantification of atelectatic lung volumes in two different porcine models of ARDS. <b>2006</b> , 97, 883-95	35
783	Ventilator-Induced Lung Injury. <b>2006</b> ,	3

782	Alveolar recruitment in acute lung injury. <b>2006</b> , 96, 156-66		78
781	Applied Physiology in Intensive Care Medicine. <b>2006</b> ,		8
780	Stress transmission in the lung: pathways from organ to molecule. <b>2006</b> , 68, 507-41		90
779	The contribution of biophysical lung injury to the development of biotrauma. <b>2006</b> , 68, 585-618		135
778	Lung-protective mechanical ventilation strategy for acute lung injury and acute respiratory distress syndrome. <b>2006</b> , 2, 209-220		1
777	Chronic effects of mechanical force on airways. <b>2006</b> , 68, 563-83		116
776	Efficient gas exchange with low tidal volume ventilation in acute respiratory distress syndrome. <b>2007</b> , 3, 82-89		1
775	Airway distensibility in adults with asthma and healthy adults, measured by forced oscillation technique. <b>2007</b> , 176, 129-37		80
774	Airway Remodeling: Effect of Current and Future Asthma Therapies. <b>2007</b> , 3, 297-308		
773	Absence of alveolar tears in rat lungs with significant alveolar instability. <b>2007</b> , 74, 439-46		8
772	Alveolar expansion imaged by optical sectioning microscopy. <i>Journal of Applied Physiology</i> , <b>2007</b> , 103, 1037-44	3-7	94
771	Alveolar instability caused by mechanical ventilation initially damages the nondependent normal lung. <b>2007</b> , 11, R104		38
770	The decreasing incidence of late posttraumatic acute respiratory distress syndrome: the potential role of lung protective ventilation and conservative transfusion practice. <b>2007</b> , 63, 1-7; discussion 8		60
769	Airway pressure release and biphasic intermittent positive airway pressure ventilation: are they ready for prime time?. <b>2007</b> , 62, 1298-308; discussion 1308-9		23
768	Mechanical ventilation and hemorrhagic shock-resuscitation interact to increase inflammatory cytokine release in rats. <b>2007</b> , 35, 2601-6		47
767	Perflubron dosing affects ventilator-induced lung injury in rats with previous lung injury. <b>2007</b> , 35, 561-7		39
766	How to monitor lung recruitment in patients with acute lung injury. <b>2007</b> , 13, 338-43		25
765	Effect of PEEP on induced constriction is enhanced in decorin-deficient mice. <b>2007</b> , 293, L1111-7		8

764	Cytokine release following recruitment maneuvers. <b>2007</b> , 132, 1434-9	21
763	Mechanisms of limited airway dimension with lung inflation. <b>2007</b> , 20, 118-25	5
762	Mechanics of airway and alveolar collapse in human breath-hold diving. <b>2007</b> , 159, 202-10	32
761	Mechanical ventilation affects pulmonary inflammation in cardiac surgery patients: the role of the open-lung concept. <b>2007</b> , 21, 279-84	16
760	Low-tidal-volume ventilation in the acute respiratory distress syndrome. <b>2007</b> , 357, 1113-20	160
759	Bench-to-bedside review: distal airways in acute respiratory distress syndrome. <b>2007</b> , 11, 206	18
758	Regional distribution of acoustic-based lung vibration as a function of mechanical ventilation mode. <b>2007</b> , 11, R26	45
757	Physiopathologie de l'œdème pulmonaire. <b>2007</b> , 16, 102-110	6
756	Pulmonary contusions and critical care management in thoracic trauma. <b>2007</b> , 17, 11-23, v	27
755	"The use of positive end-expiratory pressure in mechanical ventilation". <b>2007</b> , 23, 251-61, x	31
754	Physiology of mechanical ventilation. <b>2007</b> , 23, 117-34, vii	24
753	In silico modeling of interstitial lung mechanics: implications for disease development and repair. <b>2007</b> , 4, 139-145	23
752	In silico modeling of airway mechanics. <b>2007</b> , 4, 125-129	4
751	Lung, respiratory mechanics, artificial ventilation. <b>2007</b> , 19-27	
750	Mechanical Ventilation. <b>2007</b> , 1079-1122	
749	Complex airway behavior and paradoxical responses to bronchoprovocation. <i>Journal of Applied Physiology</i> , <b>2007</b> , 103, 655-63	3-7 69
748	[Mechanical ventilatory parameters guided by the low flow pressure-volume curve in patients with acute lung injury/acute respiratory distress syndrome]. <b>2007</b> , 135, 307-16	0
747	O uso da hiperinsuflação como recurso fisioterapêutico em unidade de terapia intensiva. <b>2007</b> , 19, 221-225	4

746	Using pressure-volume curves to set proper PEEP in acute lung injury. <b>2007</b> , 12, 231-41	9
745	Lung protective ventilatory strategies in acute lung injury and acute respiratory distress syndrome: from experimental findings to clinical application. <b>2007</b> , 27, 67-90	40
744	Is there a safe plateau pressure in ARDS? The right heart only knows. <b>2007</b> , 33, 444-7	137
743	Reduction in alveolar macrophages attenuates acute ventilator induced lung injury in rats. <b>2007</b> , 33, 1212-1218	48
742	Closing volume: a reappraisal (1967-2007). <b>2007</b> , 99, 567-83	105
741	Anisotropic nature of mouse lung parenchyma. <b>2008</b> , 36, 2111-20	29
740	Cell wounding and repair in ventilator injured lungs. <b>2008</b> , 163, 44-53	35
739	Contact surface and material nonlinearity modeling of human lungs. <b>2008</b> , 53, 305-17	71
738	Ventilator-Associated Lung Injury. <b>2008</b> , 119-137	
737	The Open Lung Concept in Cardiac Surgery Patients. <b>2008</b> , 153-163	
736	Lung stress and strain during mechanical ventilation for acute respiratory distress syndrome. <b>2008</b> , 178, 346-55	480
735	Refining ventilatory treatment for acute lung injury and acute respiratory distress syndrome. <b>2008</b> , 299, 691-3	79
734	Respiratory System and Artificial Ventilation. <b>2008</b> ,	2
733	Exacerbation of wood smoke-induced acute lung injury by mechanical ventilation using moderately high tidal volume in mice. <b>2008</b> , 160, 99-108	12
732	Cardiovascular Disease in the Elderly. <b>2008</b> ,	3
731	Nitrogen washout/washin, helium dilution and computed tomography in the assessment of end expiratory lung volume. <b>2008</b> , 12, R150	70
730	Ventilatory Support for Chronic Respiratory Failure. <b>2008</b> ,	
729	Ciclesonide improves measures of small airway involvement in asthma. <b>2008</b> , 31, 1213-20	88

728	Obesity and the lung: 3. Obesity, respiration and intensive care. <b>2008</b> , 63, 925-31		74
727	Current ventilatory management of patients with acute lung injury/acute respiratory distress syndrome. <b>2008</b> , 2, 119-33		3
726	Alveolar dynamics during respiration: are the pores of Kohn a pathway to recruitment?. <b>2008</b> , 38, 572-8		76
725	At Last! A Realistic Animal Model of Severe Asthma. <b>2008</b> , 177, 245-6		0
724	Pathophysiology of Chronic Obstructive Pulmonary Disease. <b>2008</b> , 4, 250-257		2
723	Propagation prevention: a complementary mechanism for "lung protective" ventilation in acute respiratory distress syndrome. <b>2008</b> , 36, 3252-8		45
722	Peripheral airways injury in acute lung injury/acute respiratory distress syndrome. <b>2008</b> , 14, 37-43		12
721	Neonatal Mechanical Ventilation. <b>2008</b> , 529-551		
720	Mechanical Ventilation in Acute Respiratory Distress Syndrome. <b>2008</b> , 191-203		
719	Mechanical Ventilation in Severe Chest Trauma. <b>2008</b> , 627-634		
718	Commentaries on viewpoint: use of mean airspace chord length to assess emphysema. Mean airspace chord length is useful in assessing emphysema. <i>Journal of Applied Physiology</i> , <b>2008</b> , 105, 1982; author reply 1986-7	3-7	8
717	Cytokine release, small airway injury, and parenchymal damage during mechanical ventilation in normal open-chest rats. <i>Journal of Applied Physiology</i> , <b>2008</b> , 104, 41-9	3-7	39
716	Ventilator-Induced Lung Injury. <b>2008</b> , 42-50		
715	Characterization of free breathing patterns with 5D lung motion model. <b>2009</b> , 36, 5183-9		24
714	Respiratory flow phenomena and gravitational deposition in a three-dimensional space-filling model of the pulmonary acinar tree. <b>2009</b> , 131, 031010		91
713	Effect of heterogeneous material of the lung on deformable image registration. <b>2009</b> ,		1
712	Esophageal pressure in acute lung injury. <b>2009</b> , 360, 831; author reply 832-3		
711	Methacholine and ovalbumin challenges assessed by forced oscillations and synchrotron lung imaging. <b>2009</b> , 180, 296-303		66

710	Lung parenchymal mechanics in health and disease. <b>2009</b> , 89, 759-75	115
709	Changes of splanchnic perfusion after applying positive end expiratory pressure in patients with acute respiratory distress syndrome. <b>2009</b> , 13, 12-6	3
708	Alveolar recruitment maneuvers in acute lung injury/acute respiratory distress syndrome. <b>2009</b> , 13, 1-6	8
707	Lung computed tomography density distribution in a porcine model of one-lung ventilation. <b>2009</b> , 102, 551-60	18
706	History of mechanical ventilation may affect respiratory mechanics evolution in acute respiratory distress syndrome. <b>2009</b> , 24, 626.e1-6	3
705	Pressure-controlled versus volume-controlled ventilation during one-lung ventilation in the prone position for robot-assisted esophagectomy. <b>2009</b> , 23, 2286-91	32
704	A comparison of methods to identify open-lung PEEP. <b>2009</b> , 35, 740-7	40
703	Prise en charge de l'hypoxémie peropératoire en ventilation unipulmonaire. <b>2009</b> , 30, S35-S40	3
702	Is the way to man's heart (and lung) through the abdomen?. <b>2009</b> , 13, 199	1
701	Ventilator-induced endothelial activation and inflammation in the lung and distal organs. <b>2009</b> , 13, R182	53
700	Sliding characteristic and material compressibility of human lung: parametric study and verification. <b>2009</b> , 36, 4625-33	48
699	Physicochemical effects enhance surfactant transport in pulsatile motion of a semi-infinite bubble. <b>2009</b> , 96, 312-27	10
698	Patient-specific finite element modeling of respiratory lung motion using 4D CT image data. <b>2009</b> , 36, 1500-11	100
697	Pulmonary Physiology. <b>2009</b> , 53-69	2
696	Applied Physiology in Intensive Care Medicine. <b>2009</b> ,	0
695	Elastic pressure-volume curves in acute lung injury and acute respiratory distress syndrome. <b>2009</b> , 367-374	
694	Ventilator-induced lung injury:from the bench to the bedside. <b>2009</b> , 429-438	
693	Inhaled vasodilators for pulmonary hypertension in left heart disease: should we start considering?. <b>2009</b> , 37, 1155-6	

692	Solutions for care of patients with severe sepsis: where and how?. <b>2009</b> , 37, 1128-9	1
691	The fate and role of mesenchymal stem cells engrafted in the heart after a myocardial infarction during a second ischemic event. <b>2009</b> , 37, 1130-1	
690	Ultrasound is coming to a pediatric intensive care unit near you. <b>2009</b> , 37, 1170-2	2
689	Hemofiltration in the early phase of sepsis: friend or foe?. <b>2009</b> , 37, 1125-6	9
688	The role of positive end-expiratory pressure in modulating the apoptosis response during atelectasis-induced lung injury. <b>2009</b> , 37, 1161-2	
687	Functional capillary density measurement: a useful new tool to assess the peripheral circulation in infants?. <b>2009</b> , 37, 1173-4	0
686	Terlipressin--more than just a prodrug of lysine vasopressin?. <b>2009</b> , 37, 1135-6	7
685	The molecular sepsis signature. <b>2009</b> , 37, 1137-8	3
684	Two and a half weeks: time enough for end-of-life care planning?. <b>2009</b> , 37, 1145	1
683	How can we be helpful? Triggers for palliative care consultation in the surgical intensive care unit. <b>2009</b> , 37, 1147-8	599
682	Don't ask, don't tell: delirium in the intensive care unit. <b>2009</b> , 37, 1129-30	1
681	Pulmonary atelectasis during low stretch ventilation: "open lung" versus "lung rest" strategy. <b>2009</b> , 37, 1046-53	79
680	Cerebral vasospasm in patients suffering from aneurysmal subarachnoid hemorrhage: an unresolved diagnostic and therapeutic challenge. <b>2009</b> , 37, 1150-1	2
679	Breathing normobaric oxygen protects against splanchnic ischemic injury: how does it work?. <b>2009</b> , 37, 1162-4	1
678	Erythropoietin in sepsis: a new use for a familiar drug?. <b>2009</b> , 37, 1138-9	2
677	Would you like your colloid straight or with a twist of an anti-inflammatory antioxidant?. <b>2009</b> , 37, 1133-4	1
676	Physiology of the circulation--an old-new vocabulary. <b>2009</b> , 37, 1143-4	2
675	Improving the assessment score in spontaneous intracerebral hemorrhage. <b>2009</b> , 37, 1152-3	1

674	Transfusion improves cerebral oxygenation . . . but not always. <b>2009</b> , 37, 1166-7	3
673	Poisoned patients are different--sometimes fat is a good thing. <b>2009</b> , 37, 1157-8	45
672	Key questions in ventilator management of the burn-injured patient (first of two parts). <b>2009</b> , 30, 128-38	12
671	Internal space of interfaces for noninvasive ventilation: dead, but not deadly. <b>2009</b> , 37, 1146-7	1
670	The digital patient: predicting physiologic dynamics with mathematical models. <b>2009</b> , 37, 1167-8	15
669	Pay for performance in critical care: like it or not, here it comes!. <b>2009</b> , 37, 1132-3	
668	The "how to" of temperature management in the intensive care unit. <b>2009</b> , 37, 1172-3	3
667	Vasopressin plus corticosteroids: the shock duo!. <b>2009</b> , 37, 1126-7	11
666	Alveolar dynamics in acute lung injury: heterogeneous distension rather than cyclic opening and collapse. <b>2009</b> , 37, 2604-11	136
665	Preventing fatal diagnostic errors: the position of D-dimer assays in the diagnostic procedures for acute chest pain. <b>2009</b> , 37, 1140-1	
664	Does platelet hyperfunction explain grim survival rates after out-of-hospital cardiac arrest?. <b>2009</b> , 37, 1153-5	1
663	The red blood cell: an underestimated actor in alterations of the microcirculation. <b>2009</b> , 37, 1158-60	2
662	The role of time and pressure on alveolar recruitment. <i>Journal of Applied Physiology</i> , <b>2009</b> , 106, 757-65	3,7 99
661	Airway pressure release ventilation. <b>2009</b> , 30, 929-36	13
660	Key questions in ventilator management of the burn-injured patient (second of two parts). <b>2009</b> , 30, 211-20	14
659	Prophylactic pulsatile cardiopulmonary bypass in the elderly--stress response reduction at what cost?. <b>2009</b> , 37, 1142-3	1
658	Tomatoes, cadmium, and death in the critically ill--time for a new approach in mortality prediction?. <b>2009</b> , 37, 1149-50	
657	Understanding the shared responsibility in assessing the benefits and risks of research for the vulnerable critical care patient. <b>2009</b> , 37, 1169-70	2



656	Pseudomonas aeruginosa and Candida albicans: do they really need to stick together?. <b>2009</b> , 37, 1164-6	3
655	Hyperglycemia: breaking the barriers?. <b>2009</b> , 37, 1160-1	
654	RAGE inhibition: healthy or harmful?. <b>2010</b> , 38, 1487-90	4
653	Ventilator-induced lung injury: the anatomical and physiological framework. <b>2010</b> , 38, S539-48	150
652	Take my breath away: perivascular fluid cuffs impair lung mechanics. <b>2010</b> , 38, 1494-6	2
651	Airway pressure and flow monitoring. <b>2010</b> , 16, 255-60	13
650	Optimizing Ventilation with the Open Lung Maneuver. <b>2010</b> , 6, 279-284	1
649	Examining disparities in Acute Respiratory Distress Network trial enrollment: moving closer to evidence-based medicine. <b>2010</b> , 38, 1493-4	1
648	Acute pulmonary hypertension: what is wrong on the right?. <b>2010</b> , 38, 1486-7	0
647	Escape from the false dichotomy. <b>2010</b> , 38, 1491-2	
646	Can we prevent the spread of focal lung inflammation?. <b>2010</b> , 38, S574-81	3
645	Insulin infusion and hypoglycemia: clinical implications and prevention. <b>2010</b> , 38, 1490-1	2
644	Intensive insulin therapy: are burns different?. <b>2010</b> , 38, 1496-7	2
643	Mechanical ventilation in trauma. <b>2010</b> , 23, 228-32	21
642	Extracorporeal membrane oxygenation in pandemic flu: insufficient evidence or worth the effort?. <b>2010</b> , 38, 1484-5	13
641	Effect of ventilator-induced lung injury on skeletal muscle oxidative balance. <b>2010</b> , 112, 279-81	
640	[Protective ventilation in the operating room: absence of evidence is not evidence of absence]. <b>2010</b> , 59, 593-4	
639	Airway wall stiffening increases peak wall shear stress: a fluid-structure interaction study in rigid and compliant airways. <b>2010</b> , 38, 1836-53	61

638	[The basics on mechanical ventilation support in acute respiratory distress syndrome]. <b>2010</b> , 34, 418-27	8
637	Structure-function studies of blood and air capillaries in chicken lung using 3D electron microscopy. <b>2010</b> , 170, 202-9	52
636	Gas distribution in a two-compartment model during volume or pressure ventilation: role of elastic elements. <b>2010</b> , 171, 225-31	2
635	Perioperative tidal volume and intra-operative open lung strategy in healthy lungs: where are we going?. <b>2010</b> , 24, 199-210	12
634	Prevention and reversal of lung collapse during the intra-operative period. <b>2010</b> , 24, 183-97	48
633	New insights into experimental evidence on atelectasis and causes of lung injury. <b>2010</b> , 24, 171-82	13
632	Mechanical ventilation in cardiac surgery. <b>2010</b> , 21, 250-254	0
631	Towards a comprehensive computational model for the respiratory system. <b>2010</b> , 26, n/a-n/a	14
630	Theoretical modeling of the interaction between alveoli during inflation and deflation in normal and diseased lungs. <b>2010</b> , 43, 1202-7	20
629	A nested dynamic multi-scale approach for 3D problems accounting for micro-scale multi-physics. <b>2010</b> , 199, 1342-1351	18
628	Mild endotoxemia during mechanical ventilation produces spatially heterogeneous pulmonary neutrophilic inflammation in sheep. <b>2010</b> , 112, 658-69	53
627	Cytoskeleton and mechanotransduction in the pathophysiology of ventilator-induced lung injury. <b>2010</b> , 36, 363-71	8
626	Pathophysiology of evolution of small airways disease to overt COPD. <b>2010</b> , 7, 269-75	29
625	Therapeutic implications of the pathophysiology of COPD. <b>2010</b> , 35, 676-80	64
624	Acute cigarette smoke inhalation blunts lung responsiveness to methacholine and allergen in rabbit: differentiation of central and peripheral effects. <b>2010</b> , 299, L242-51	8
623	Esophageal pressures in acute lung injury: do they represent artifact or useful information about transpulmonary pressure, chest wall mechanics, and lung stress?. <i>Journal of Applied Physiology</i> , <b>2010</b> , 108, 515-22	3-7 103
622	Lung opening and closing during ventilation of acute respiratory distress syndrome. <b>2010</b> , 181, 578-86	226
621	Lung-lung interaction in isolated perfused unilateral hyperventilated rat lungs. <b>2010</b> , 155, 228-37	4

620	The physical basis of ventilator-induced lung injury. <b>2010</b> , 4, 373-85	65
619	What Is the Role of Alveolar Recruitment Maneuvers in the Management of ARDS?. <b>2010</b> , 118-124	
618	Deformable image registration of heterogeneous human lung incorporating the bronchial tree. <b>2010</b> , 37, 4560-71	34
617	Mechanics of the lung in the 20th century. <b>2011</b> , 1, 2009-27	14
616	Pulmonary kinematics from image data: a review. <b>2011</b> , 18, 402-17	11
615	Higher PEEP in patients with acute lung injury: a systematic review and meta-analysis. <b>2011</b> , 56, 568-75	30
614	Lung stress and strain during mechanical ventilation: any safe threshold?. <b>2011</b> , 183, 1354-62	222
613	Expiratory flow limitation. <b>2011</b> , 1, 1861-82	19
612	Ventilation-induced lung injury. <b>2011</b> , 1, 635-61	29
611	Beyond volutrauma in ARDS: the critical role of lung tissue deformation. <b>2011</b> , 15, 304	32
610	Mechanical Dysfunction of the Respiratory System. <b>2011</b> , 534-549	
609	Emergent structure-function relations in emphysema and asthma. <b>2011</b> , 39, 263-80	31
608	Capnography. 11-18	0
607	Ventilator-Induced Lung Injury. <b>2011</b> , 697-705	
606	Ventilaci3n mec3nica en el paciente con lesi3n cerebral aguda. <b>2011</b> , 139, 382-390	1
605	Capnography. 148-159	
604	New images, new insights for VILI. <i>Journal of Applied Physiology</i> , <b>2011</b> , 111, 1233-4	3.7 6
603	Case scenario: Management of intraoperative hypoxemia during one-lung ventilation. <b>2011</b> , 114, 167-74	36

602	Should mechanical ventilation be guided by esophageal pressure measurements?. <b>2011</b> , 17, 275-80	8
601	Pressure support improves oxygenation and lung protection compared to pressure-controlled ventilation and is further improved by random variation of pressure support. <b>2011</b> , 39, 746-55	62
600	Lung parenchymal mechanics. <b>2011</b> , 1, 1317-51	101
599	Syndr�me de dtresse respiratoire aigu� <b>2011</b> , 8, 1-17	
598	Syndr�me de dtresse respiratoire aigu� <b>2011</b> , 8, 1-17	
597	Quantitative imaging of alveolar recruitment with hyperpolarized gas MRI during mechanical ventilation. <i>Journal of Applied Physiology</i> , <b>2011</b> , 110, 499-511	3-7 30
596	High versus low positive end-expiratory pressures (PEEP) levels for mechanically ventilated adult patients with acute lung injury and acute respiratory distress syndrome. <b>2011</b> ,	
595	Effects of surfactant depletion on regional pulmonary metabolic activity during mechanical ventilation. <i>Journal of Applied Physiology</i> , <b>2011</b> , 111, 1249-58	3-7 30
594	[Acute lung injury/acute respiratory distress syndrome: progress in diagnosis and treatment. Topics: III. Treatment; 1. Clinical practice of mechanical ventilation for ALI/ARDS]. <b>2011</b> , 100, 1568-74	
593	Influence of low tidal volume ventilation on time to extubation in cardiac surgical patients. <b>2011</b> , 114, 1102-10	93
592	Biomarkers of lung injury after one-lung ventilation for lung resection. <b>2011</b> , 16, 138-45	15
591	Morphometry of subpleural alveoli may be greatly biased by local pressure changes induced by the microscopic device. <b>2011</b> , 178, 283-9	6
590	Tidal lung recruitment and exhaled nitric oxide during coronary artery bypass grafting in patients with and without chronic obstructive pulmonary disease. <b>2011</b> , 189, 499-509	9
589	Stress index in presence of pleural effusion: does it have any meaning?. <b>2011</b> , 37, 561-3	6
588	Time to generate ventilator-induced lung injury among mammals with healthy lungs: a unifying hypothesis. <b>2011</b> , 37, 1913-20	38
587	Modeling the time-course of ventilator-induced lung injury: what can we learn from interspecies discrepancies?. <b>2011</b> , 37, 1901-3	4
586	Endotracheal suctioning in hypoxemic patients. <b>2011</b> , 20, 12-18	4
585	Ventilator-induced lung injury: historical perspectives and clinical implications. <b>2011</b> , 1, 28	71

584	Toward efficient biomechanical-based deformable image registration of lungs for image-guided radiotherapy. <b>2011</b> , 56, 4701-13		48
583	Micromechanics of alveolar edema. <b>2011</b> , 44, 34-9		81
582	What do we know about mechanical strain in lung alveoli?. <b>2011</b> , 301, L625-35		108
581	Point: Is pressure assist-control preferred over volume assist-control mode for lung protective ventilation in patients with ARDS? Yes. <b>2011</b> , 140, 286-290		17
580	Rebuttal From Dr Marini. <b>2011</b> , 140, 292-293		
579	Rebuttal From Dr MacIntyre. <b>2011</b> , 140, 293-294		1
578	Linking microscopic spatial patterns of tissue destruction in emphysema to macroscopic decline in stiffness using a 3D computational model. <b>2011</b> , 7, e1001125		34
577	Respiratory Physiology and Care. <b>2012</b> , 109-122		1
576	Acute respiratory failure complicating advanced liver disease. <b>2012</b> , 33, 96-110		26
575	Protective ventilation in experimental acute respiratory distress syndrome after ventilator-induced lung injury: a randomized controlled trial. <b>2012</b> , 109, 584-94		10
574	Towards ultraprotective mechanical ventilation. <b>2012</b> , 25, 141-7		39
573	What is an adequate measure of lung function?. <b>2012</b> , 109, 1006-7; author reply 1007-8		
572	Effect of airway smooth muscle tone on airway distensibility measured by the forced oscillation technique in adults with asthma. <i>Journal of Applied Physiology</i> , <b>2012</b> , 112, 1494-503	3-7	41
571	Mechanobiology in lung epithelial cells: measurements, perturbations, and responses. <b>2012</b> , 2, 1-29		64
570	Gas exchange in the respiratory distress syndromes. <b>2012</b> , 2, 1585-617		3
569	Pathogenesis of small airways in asthma. <b>2012</b> , 84, 4-11		60
568	Does high tidal volume generate ALI/ARDS in healthy lungs?. <b>2012</b> , 375-377		
567	Stress and strain within the lung. <b>2012</b> , 18, 42-7		75

566 Alveolar Cell Wounding by Deforming Stress in the Lung. **2012**, 8, 108-115

565	Plasma membrane disruptions with different modes of injurious mechanical ventilation in normal rat lungs*. <b>2012</b> , 40, 869-75		11
564	Effect of regional lung inflation on ventilation heterogeneity at different length scales during mechanical ventilation of normal sheep lungs. <i>Journal of Applied Physiology</i> , <b>2012</b> , 113, 947-57	3:7	30
563	Temporal change in IL-6 mRNA and protein expression produced by cyclic stretching of human pulmonary artery endothelial cells. <b>2012</b> , 30, 509-13		5
562	The pathophysiology of perioperative lung injury. <b>2012</b> , 30, 573-90		8
561	Síndrome de dificultad respiratoria aguda. <b>2012</b> , 38, 1-19		
560	Lung recruitment in ARDS: we are still confused, but on a higher PEEP level. <b>2012</b> , 16, 108		15
559	Optimizing positive end-expiratory pressure by oscillatory mechanics minimizes tidal recruitment and distension: an experimental study in a lavage model of lung injury. <b>2012</b> , 16, R217		17
558	Obesity and ARDS. <b>2012</b> , 142, 785-790		43
557	Airway-parenchymal interdependence. <b>2012</b> , 2, 1921-35		38
556	Mechanical properties of the upper airway. <b>2012</b> , 2, 1853-72		71
555	The effect of lung size mismatch on complications and resource utilization after bilateral lung transplantation. <b>2012</b> , 31, 492-500		54
554	Sitting and supine esophageal pressures in overweight and obese subjects. <b>2012</b> , 20, 2354-60		21
553	Applied Physiology in Intensive Care Medicine 2. <b>2012</b> ,		0
552	A fresh look at paralytics in the critically ill: real promise and real concern. <b>2012</b> , 2, 43		21
551	The Lung in Multiorgan Failure. <b>2012</b> , 103-128		
550	Pulmonary mechanics during mechanical ventilation. <b>2012</b> , 180, 162-72		24
549	Lungs in critical care: new look at old practices. <b>2012</b> , 79, 116-22		1

548	Novel approaches to minimize ventilator-induced lung injury. <b>2013</b> , 11, 85	75
547	Annual Update in Intensive Care and Emergency Medicine 2013. <b>2013</b> ,	4
546	High versus low positive end-expiratory pressure (PEEP) levels for mechanically ventilated adult patients with acute lung injury and acute respiratory distress syndrome. <b>2013</b> , CD009098	58
545	Prone position in acute respiratory distress syndrome. Rationale, indications, and limits. <b>2013</b> , 188, 1286-93	231
544	Ventilator-induced lung injury. <b>2013</b> , 369, 2126-36	1515
543	Computer Models in Biomechanics. <b>2013</b> ,	1
542	Effects of ventilation strategy on distribution of lung inflammatory cell activity. <b>2013</b> , 17, R175	28
541	Time to reach a new equilibrium after changes in PEEP in acute respiratory distress syndrome patients. <b>2013</b> , 39, 2053-5	3
540	High positive end-expiratory pressure: only a dam against oedema formation?. <b>2013</b> , 17, R131	7
539	Small-airways dysfunction associates with respiratory symptoms and clinical features of asthma: a systematic review. <b>2013</b> , 131, 646-57	106
538	Modeling lung deformation: a combined deformable image registration method with spatially varying Young's modulus estimates. <b>2013</b> , 40, 081902	36
537	Mechanical ventilation: past lessons and the near future. <b>2013</b> , 17 Suppl 1, S1	30
536	Our favorite unproven ideas for future critical care. <b>2013</b> , 17 Suppl 1, S9	3
535	Visual anatomical lung CT scan assessment of lung recruitability. <b>2013</b> , 39, 66-73	24
534	Influence of parenchymal heterogeneity on airway-parenchymal interdependence. <b>2013</b> , 188, 94-101	12
533	Vibration Analysis of Circular Membrane Model of Alveolar Wall in Examining Ultrasound-induced Lung Hemorrhage. <b>2013</b> , 21, 81-91	5
532	Heterogeneous distribution of mechanical stress in human lung: a mathematical approach to evaluate abnormal remodeling in IPF. <b>2013</b> , 332, 136-40	37
531	In vivo measurement of the mouse pulmonary endothelial surface layer. <b>2013</b> , e50322	10

530	Mechanical Ventilation. <b>2013</b> , 981-997.e3	6
529	Respiratory microflows in the pulmonary acinus. <b>2013</b> , 46, 284-98	73
528	Respiratory and hemodynamic effects of a stepwise lung recruitment maneuver in pediatric ARDS: a feasibility study. <b>2013</b> , 48, 1135-43	16
527	Cardiopulmonary bypass during a second-lung implantation improves postoperative oxygenation after sequential double-lung transplantation. <b>2013</b> , 27, 467-73	3
526	Lung inhomogeneity in patients with acute respiratory distress syndrome. <b>2014</b> , 189, 149-58	184
525	High-frequency oscillatory ventilation on shaky ground. <b>2013</b> , 368, 863-5	39
524	Biophysical determinants of alveolar epithelial plasma membrane wounding associated with mechanical ventilation. <b>2013</b> , 305, L478-84	38
523	Intraoperative ventilatory strategies to prevent postoperative pulmonary complications: a meta-analysis. <b>2013</b> , 26, 126-33	102
522	Acute respiratory distress syndrome in children: physiology and management. <b>2013</b> , 25, 338-43	24
521	Fluid management in thoracic surgery. <b>2013</b> , 26, 31-9	46
520	Plectin-containing, centrally localized focal adhesions exert traction forces in primary lung epithelial cells. <b>2013</b> , 126, 3746-55	12
519	Ventilator-associated problems related to obstructive lung disease. <b>2013</b> , 58, 938-49	6
518	Lung stress and strain during mechanical ventilation: any difference between statics and dynamics?. <b>2013</b> , 41, 1046-55	185
517	Structure and function of the mucus clearance system of the lung. <b>2013</b> , 3,	31
516	Obesity and Lung Disease. <b>2013</b> ,	4
515	Rebuttal from James P. Butler, Robert L. Owens, Atul Malhotra and Andrew Wellman. <b>2013</b> , 591, 2237	
514	Protect the lungs during abdominal surgery: it may change the postoperative outcome. <b>2013</b> , 118, 1254-7	22
513	Murine pulmonary acinar mechanics during quasi-static inflation using synchrotron refraction-enhanced computed tomography. <i>Journal of Applied Physiology</i> , <b>2013</b> , 115, 219-28	3-7 42



512	Effect of positive end-expiratory pressure on regional ventilation distribution during mechanical ventilation after surfactant depletion. <b>2013</b> , 119, 89-100		30
511	Regional lung derecruitment and inflammation during 16 hours of mechanical ventilation in supine healthy sheep. <b>2013</b> , 119, 156-65		14
510	Distribution of lung tissue hysteresis during free breathing. <b>2013</b> , 40, 043501		12
509	Imaging the interaction of atelectasis and overdistension in surfactant-depleted lungs. <b>2013</b> , 41, 527-35		37
508	Pathogenetische Bedeutung der kleinen Atemwege bei Asthma. <b>2013</b> , 1, 8-14		
507	Positive end-expiratory pressure and variable ventilation in lung-healthy rats under general anesthesia. <b>2014</b> , 9, e110817		10
506	Mechanical interactions between adjacent airways in the lung. <i>Journal of Applied Physiology</i> , <b>2014</b> , 116, 628-34	3-7	14
505	Non-lobar atelectasis generates inflammation and structural alveolar injury in the surrounding healthy tissue during mechanical ventilation. <b>2014</b> , 18, 505		53
504	Lung metabolism during ventilator-induced lung injury: stretching the relevance of the normally aerated lung*. <b>2014</b> , 42, 1010-2		
503	Lower airway function: Response to exercise and training. <b>2014</b> , 587-603		
502	Stress concentration around an atelectatic region: a finite element model. <b>2014</b> , 201, 101-10		24
501	In situ determination of alveolar septal strain, stress and effective Young's modulus: an experimental/computational approach. <b>2014</b> , 307, L302-10		16
500	Regional lung strain and the metabolic signature of injury*. <b>2014</b> , 42, 1745-6		
499	Role of alveolar topology on acinar flows and convective mixing. <b>2014</b> , 136, 061007		24
498	Spontaneous breathing, extrapulmonary CO(2) removal, and ventilator-induced lung injury risk: less power to the people?*. <b>2014</b> , 42, 758-60		2
497	Ventilatory strategies in severe acute respiratory failure. <b>2014</b> , 35, 418-30		6
496	Tidal ventilation distribution during pressure-controlled ventilation and pressure support ventilation in post-cardiac surgery patients. <b>2014</b> , 58, 997-1006		9
495	Mechanical ventilation causes airway distension with proinflammatory sequelae in mice. <b>2014</b> , 307, L27-37		23

494	Epithelial and endothelial damage induced by mechanical ventilation modes. <b>2014</b> , 20, 17-24	30
493	Physiotherapy and cystic fibrosis: what is the evidence base?. <b>2014</b> , 20, 613-7	20
492	Functional residual capacity and absolute lung volume. <b>2014</b> , 20, 347-51	6
491	Which is the most important strain in the pathogenesis of ventilator-induced lung injury: dynamic or static?. <b>2014</b> , 20, 33-8	32
490	Regional distribution of lung compliance by image analysis of computed tomograms. <b>2014</b> , 201, 60-70	16
489	Hysteresis Phenomena in Biology. <b>2014</b> ,	16
488	Mechanical breath profile of airway pressure release ventilation: the effect on alveolar recruitment and microstrain in acute lung injury. <b>2014</b> , 149, 1138-45	55
487	Comparison of high-frequency oscillatory ventilation and conventional mechanical ventilation in pediatric respiratory failure. <b>2014</b> , 168, 243-9	60
486	Flow-controlled expiration: a novel ventilation mode to attenuate experimental porcine lung injury. <b>2014</b> , 113, 474-83	27
485	The respiratory system: Anatomy, physiology, and adaptations to exercise and training. <b>2014</b> , 125-154	2
484	<sup>18</sup> F-FDG kinetics parameters depend on the mechanism of injury in early experimental acute respiratory distress syndrome. <b>2014</b> , 55, 1871-7	25
483	Prone positioning for acute respiratory distress syndrome. <b>2014</b> , 35, 743-52	9
482	Respiratory mechanics in mechanically ventilated patients. <b>2014</b> , 59, 1773-94	73
481	Mechanical ventilation during extracorporeal membrane oxygenation. <b>2014</b> , 18, 203	100
480	Stress et strain : application au cours du syndrome de dtresse respiratoire aigu <b>2014</b> , 23, 412-419	1
479	Detection of 'best' positive end-expiratory pressure derived from electrical impedance tomography parameters during a decremental positive end-expiratory pressure trial. <b>2014</b> , 18, R95	69
478	Assessment of ventilation inhomogeneity during mechanical ventilation using a rapid-response oxygen sensor-based oxygen washout method. <b>2014</b> , 2, 14	3
477	Protective Ventilatory Approaches to One-Lung Ventilation: More than Reduction of Tidal Volume. <b>2014</b> , 4, 150-159	9

476	Mechanics of Breathing. <b>2014,</b>		3
475	Core Knowledge in Critical Care Medicine. <b>2014,</b>		
474	0893. High respiratory rate favors pulmonary edema in an experimental model of acute lung injury. <b>2014, 2,</b>		1
473	Early inflammation mainly affects normally and poorly aerated lung in experimental ventilator-induced lung injury*. <b>2014, 42, e279-87</b>		43
472	Hyperpolarized gas diffusion MRI for the study of atelectasis and acute respiratory distress syndrome. <b>2014, 27, 1468-78</b>		6
471	Low respiratory rate plus minimally invasive extracorporeal Co2 removal decreases systemic and pulmonary inflammatory mediators in experimental Acute Respiratory Distress Syndrome. <b>2014, 42, e451-60</b>		40
470	A micromechanical model for estimating alveolar wall strain in mechanically ventilated edematous lungs. <i>Journal of Applied Physiology</i> , <b>2014, 117, 586-92</b>	3-7	7
469	Labat and the Anglo-French drug company's Neocaine. <b>2015, 123, 627</b>		
468	In reply. <b>2015, 122, 1179-80</b>		
467	Is permissive hypercarbia pneumoprotective?. <b>2015, 122, 1179</b>		2
466	Lung inhomogeneities and time course of ventilator-induced mechanical injuries. <b>2015, 123, 618-27</b>		56
465	Intraoperative protective mechanical ventilation for prevention of postoperative pulmonary complications: a comprehensive review of the role of tidal volume, positive end-expiratory pressure, and lung recruitment maneuvers. <b>2015, 123, 692-713</b>		232
464	Effects of Sigh on Regional Lung Strain and Ventilation Heterogeneity in Acute Respiratory Failure Patients Undergoing Assisted Mechanical Ventilation. <b>2015, 43, 1823-31</b>		38
463	Modulation of stress versus time product during mechanical ventilation influences inflammation as well as alveolar epithelial and endothelial response in rats. <b>2015, 122, 106-16</b>		18
462	How to monitor a recruitment maneuver at the bedside. <b>2015, 21, 253-8</b>		17
461	Lung Injury After One-Lung Ventilation: A Review of the Pathophysiologic Mechanisms Affecting the Ventilated and the Collapsed Lung. <b>2015, 121, 302-18</b>		198
460	Lung inhomogeneities, inflation and [18F]FDG uptake rate in ards. <b>2015, 3,</b>		78
459	GDF-15 prevents ventilator-induced lung injury by inhibiting the formation of platelet-neutrophil aggregates. <b>2015, 114, 434-7</b>		5

458	Oscillatory Mechanics in Asthma: Emphasis on Airway Variability and Heterogeneity. <b>2015</b> , 43, 97-130	6
457	Ventilator-Induced Lung Injury (VILI) in Acute Respiratory Distress Syndrome (ARDS): Volutrauma and Molecular Effects. <b>2015</b> , 9, 112-9	26
456	Pulmonary Hemodynamics. <b>2015</b> , 205-243	3
455	Ventilator-Associated Lung Injury. <b>2015</b> , 917-945	
454	Driving pressure and respiratory mechanics in ARDS. <b>2015</b> , 372, 776-7	34
453	Comment ventiler un patient sous ECMO ou ECCO2R ?. <b>2015</b> , 24, 344-351	
452	Increasing the inspiratory time and I:E ratio during mechanical ventilation aggravates ventilator-induced lung injury in mice. <b>2015</b> , 19, 23	25
451	Lung re-inflation after one-lung ventilation for thoracic surgery: an alternative technique. <b>2015</b> , 62, 424-5	2
450	Ventilation par oscillations ^ haute frence : rideau ?. <b>2015</b> , 24, 4-10	1
449	Putting the Squeeze on Airway Epithelia. <b>2015</b> , 30, 293-303	25
448	Correlation between alveolar ventilation and electrical properties of lung parenchyma. <b>2015</b> , 36, 1211-26	18
447	Determination of 'recruited volume' following a PEEP step is not a measure of lung recruitability. <b>2015</b> , 59, 35-46	7
446	Resistance to alveolar shape change limits range of force propagation in lung parenchyma. <b>2015</b> , 211, 22-8	7
445	Alveolar derecruitment and collapse induration as crucial mechanisms in lung injury and fibrosis. <b>2015</b> , 52, 232-43	75
444	Positive expiratory pressure - Common clinical applications and physiological effects. <b>2015</b> , 109, 297-307	50
443	Selecting the 'right' positive end-expiratory pressure level. <b>2015</b> , 21, 50-7	30
442	Novel approaches to minimize ventilator-induced lung injury. <b>2015</b> , 21, 20-5	19
441	Artificial intelligence for closed-loop ventilation therapy with hemodynamic control using the open lung concept. <b>2015</b> , 8, 50-68	14

440	Recruitment Maneuvers and PEEP Titration. <b>2015</b> , 60, 1688-704		54
439	Did studies on HFOV fail to improve ARDS survival because they did not decrease VILI? On the potential validity of a physiological concept enounced several decades ago. <b>2015</b> , 41, 2076-86		18
438	Effect of surfactant on regional lung function in an experimental model of respiratory distress syndrome in rabbit. <i>Journal of Applied Physiology</i> , <b>2015</b> , 119, 290-8	3-7	5
437	Impact of mechanical ventilation on the pathophysiology of progressive acute lung injury. <i>Journal of Applied Physiology</i> , <b>2015</b> , 119, 1245-61	3-7	48
436	Sensitivity of tumor motion simulation accuracy to lung biomechanical modeling approaches and parameters. <b>2015</b> , 60, 8833-49		19
435	Potential role of the airway wall in the asthma of obesity. <i>Journal of Applied Physiology</i> , <b>2015</b> , 118, 36-41; 37		28
434	Respiratory mechanics in brain injury: A review. <b>2016</b> , 5, 65-73		16
433	Personalizing mechanical ventilation for acute respiratory distress syndrome. <b>2016</b> , 8, E172-4		8
432	Segmental bronchi collapsibility: computed tomography-based quantification in patients with chronic obstructive pulmonary disease and correlation with emphysema phenotype, corresponding lung volume changes and clinical parameters. <b>2016</b> , 8, 3521-3529		6
431	Visualizing the Propagation of Acute Lung Injury. <b>2016</b> , 124, 121-31		16
430	Volume Delivered During Recruitment Maneuver Predicts Lung Stress in Acute Respiratory Distress Syndrome. <b>2016</b> , 44, 91-9		26
429	Systems physiology of the airways in health and obstructive pulmonary disease. <b>2016</b> , 8, 423-37		14
428	Open lung approach ventilation abolishes the negative effects of respiratory rate in experimental lung injury. <b>2016</b> , 60, 1131-41		6
427	There is no cephalocaudal gradient of computed tomography densities or lung behavior in supine patients with acute respiratory distress syndrome. <b>2016</b> , 60, 767-79		5
426	Role of Strain Rate in the Pathogenesis of Ventilator-Induced Lung Edema. <b>2016</b> , 44, e838-45		68
425	Regional gas transport in the heterogeneous lung during oscillatory ventilation. <i>Journal of Applied Physiology</i> , <b>2016</b> , 121, 1306-1318	3-7	14
424	Asthma. <b>2016</b> , 223-253		
423	Functional respiratory imaging, regional strain, and expiratory time constants at three levels of positive end expiratory pressure in an ex vivo pig model. <b>2016</b> , 4, e13059		3

422	Regional tidal lung strain in mechanically ventilated normal lungs. <i>Journal of Applied Physiology</i> , <b>2016</b> , 121, 1335-1347	3-7	22
421	Lung Metabolic Activation as an Early Biomarker of Acute Respiratory Distress Syndrome and Local Gene Expression Heterogeneity. <b>2016</b> , 125, 992-1004		15
420	Detection of optimal PEEP for equal distribution of tidal volume by volumetric capnography and electrical impedance tomography during decreasing levels of PEEP in post cardiac-surgery patients. <b>2016</b> , 116, 862-9		24
419	How ARDS should be treated. <b>2016</b> , 20, 86		19
418	Early detection of changes in lung mechanics with oscillometry following bariatric surgery in severe obesity. <b>2016</b> , 41, 538-47		19
417	Invasive Mechanical Ventilation in the Pathogenesis of Bronchopulmonary Dysplasia. <b>2016</b> , 27-54		1
416	Respiratory Mechanics. <b>2016</b> ,		1
415	Clinical challenges in mechanical ventilation. <b>2016</b> , 387, 1856-66		71
414	Transpulmonary Pressure: The Importance of Precise Definitions and Limiting Assumptions. <b>2016</b> , 194, 1452-1457		59
413	Biotrauma and Ventilator-Induced Lung Injury: Clinical Implications. <b>2016</b> , 150, 1109-1117		112
412	Zero expiratory pressure and low oxygen concentration promote heterogeneity of regional ventilation and lung densities. <b>2016</b> , 60, 958-68		5
411	[Does intraoperative lung-protective ventilation reduce postoperative pulmonary complications?]. <b>2016</b> , 65, 573-9		6
410	Assessing Respiratory System Mechanical Function. <b>2016</b> , 37, 615-632		2
409	Clinical, Radiographic, Physiologic, and Biologic Measurements to Facilitate Personalized Medicine for ARDS. <b>2016</b> , 150, 989-990		3
408	Ventilator-induced Lung Injury. <b>2016</b> , 37, 633-646		121
407	Strain Rate and Cycling Frequency-The "Dynamic Duo" of Injurious Tidal Stress. <b>2016</b> , 44, 1800-1		5
406	Pressure-regulated volume control vs. volume control ventilation in healthy and injured rabbit lung: An experimental study. <b>2016</b> , 33, 767-75		8
405	Mechanical Power and Development of Ventilator-induced Lung Injury. <b>2016</b> , 124, 1100-8		182

404	Should A Tidal Volume of 6 mL/kg Be Used in All Patients?. <b>2016</b> , 61, 774-90	17
403	In Reply. <b>2016</b> , 124, 736-7	
402	Respiratory System Mechanics and Energetics. <b>2016</b> , 76-91.e2	
401	Effect of Airway Pressure Release Ventilation on Dynamic Alveolar Heterogeneity. <b>2016</b> , 151, 64-72	39
400	Mechanisms of pulmonary cyst pathogenesis in Birt-Hogg-Dube syndrome: The stretch hypothesis. <b>2016</b> , 52, 47-52	33
399	Mild loss of lung aeration augments stretch in healthy lung regions. <i>Journal of Applied Physiology</i> , <b>2016</b> , 120, 444-54	3-7 11
398	A glossary of ARDS for beginners. <b>2016</b> , 42, 659-662	4
397	What the concept of VILI has taught us about ARDS management. <b>2016</b> , 42, 811-813	8
396	Association between driving pressure and development of postoperative pulmonary complications in patients undergoing mechanical ventilation for general anaesthesia: a meta-analysis of individual patient data. <b>2016</b> , 4, 272-80	264
395	Acute Lung Injury Causes Asynchronous Alveolar Ventilation That Can Be Corrected by Individual Sighs. <b>2016</b> , 193, 396-406	30
394	Lung inhomogeneities, inflation and [18F]2-fluoro-2-deoxy-D-glucose uptake rate in acute respiratory distress syndrome. <b>2016</b> , 47, 233-42	34
393	Acute Hypoxemic Respiratory Failure and ARDS. <b>2016</b> , 1740-1760.e7	3
392	A comprehensive computational human lung model incorporating inter-acinar dependencies: Application to spontaneous breathing and mechanical ventilation. <b>2017</b> , 33, e02787	19
391	Fifty Years of Research in ARDS. Setting Positive End-Expiratory Pressure in Acute Respiratory Distress Syndrome. <b>2017</b> , 195, 1429-1438	101
390	Fifty Years of Research in ARDS. Insight into Acute Respiratory Distress Syndrome. From Models to Patients. <b>2017</b> , 196, 18-28	37
389	Personalizing mechanical ventilation according to physiologic parameters to stabilize alveoli and minimize ventilator induced lung injury (VILI). <b>2017</b> , 5, 8	58
388	Personalising airway clearance in chronic lung disease. <b>2017</b> , 26,	43
387	Opening pressures and atelectrauma in acute respiratory distress syndrome. <b>2017</b> , 43, 603-611	67

386	The authors reply. <b>2017</b> , 45, e328-e329		3
385	The role of high airway pressure and dynamic strain on ventilator-induced lung injury in a heterogeneous acute lung injury model. <b>2017</b> , 5, 25		18
384	Ventilator-Induced Lung Injury. <b>2017</b> , 201-223		
383	Monitoring of Respiratory Mechanics. <b>2017</b> , 225-243		2
382	Ventilation Strategies: High-Frequency Oscillatory Ventilation. <b>2017</b> , 41-60		
381	Reply: Lung Recruitment Assessment. <b>2017</b> , 195, 1276-1277		
380	Alveolar septal patterning during compensatory lung growth: Part II the effect of parenchymal pressure gradients. <b>2017</b> , 421, 168-178		1
379	Acute Respiratory Distress Syndrome. <b>2017</b> ,		0
378	Mechanical ventilation in the acute respiratory distress syndrome. <b>2017</b> , 45, 88-98		6
377	Synergistic Effect of Hyperoxia and Biotrauma On Ventilator-Induced Lung Injury. <b>2017</b> , 38, 91-96		2
376	Trends in mechanical ventilation: are we ventilating our patients in the best possible way?. <b>2017</b> , 13, 84-98		32
375	Gas Exchange in the Prone Posture. <b>2017</b> , 62, 1097-1110		29
374	Transient Receptor Potential Vanilloid 4 and Serum Glucocorticoid-regulated Kinase 1 Are Critical Mediators of Lung Injury in Overventilated Mice In Vivo. <b>2017</b> , 126, 300-311		33
373	How to approach the acute respiratory distress syndrome: Prevention, plan, and prudence. <b>2017</b> , 55, 190-195		2
372	Dynamic Mechanical Interactions Between Neighboring Airspaces Determine Cyclic Opening and Closure in Injured Lung. <b>2017</b> , 45, 687-694		25
371	Coupling of EIT with computational lung modeling for predicting patient-specific ventilatory responses. <i>Journal of Applied Physiology</i> , <b>2017</b> , 122, 855-867	3-7	8
370	Physiology in Medicine: Understanding dynamic alveolar physiology to minimize ventilator-induced lung injury. <i>Journal of Applied Physiology</i> , <b>2017</b> , 122, 1516-1522	3-7	23
369	Fifty Years of Research in ARDS. Respiratory Mechanics in Acute Respiratory Distress Syndrome. <b>2017</b> , 196, 822-833		82



368	Tissue remodelling in pulmonary fibrosis. <b>2017</b> , 367, 607-626	63
367	Bronchopulmonary dysplasia: A review of pathogenesis and pathophysiology. <b>2017</b> , 132, 170-177	123
366	Respiratory mechanics to understand ARDS and guide mechanical ventilation. <b>2017</b> , 38, R280-H303	16
365	Mechanical Ventilation in Adults with Acute Respiratory Distress Syndrome. Summary of the Experimental Evidence for the Clinical Practice Guideline. <b>2017</b> , 14, S261-S270	27
364	Lung Recruitment and Titrated PEEP in Moderate to Severe ARDS: Is the Door Closing on the Open Lung?. <b>2017</b> , 318, 1327-1329	34
363	Fifty Years of Research in ARDS. Vt Selection in Acute Respiratory Distress Syndrome. <b>2017</b> , 196, 1519-1525	29
362	Ventilator-induced Lung Injury: Follow the Right Direction! Another Piece of the Puzzle in the Ventilator-induced Lung Injury Epic. <b>2017</b> , 196, 1366-1368	7
361	A simplified parametrised model for lung microstructures capable of mimicking realistic geometrical and mechanical properties. <b>2017</b> , 89, 104-114	7
360	Tidal changes on CT and progression of ARDS. <b>2017</b> , 72, 981-989	25
359	High-Frequency Oscillatory Ventilation in Adults With ARDS: Past, Present, and Future. <b>2017</b> , 152, 1306-1317	34
358	How Much Does ICU Structure Account for Variation in Mobility Practices Between Acute Respiratory Distress Syndrome Network Hospitals?. <b>2017</b> , 45, e329-e330	2
357	Computational modelling of the respiratory system: Discussion of coupled modelling approaches and two recent extensions. <b>2017</b> , 314, 473-493	18
356	Mechanical Ventilation to Minimize Progression of Lung Injury in Acute Respiratory Failure. <b>2017</b> , 195, 438-442	491
355	Síndrome de dificultad respiratoria aguda. <b>2017</b> , 43, 1-18	
354	The future of mechanical ventilation: lessons from the present and the past. <b>2017</b> , 21, 183	92
353	Linking Ventilator Injury-Induced Leak across the Blood-Gas Barrier to Derangements in Murine Lung Function. <b>2017</b> , 8, 466	20
352	Driving pressure and mechanical power: new targets for VILI prevention. <b>2017</b> , 5, 286	100
351	Principles of Lung-Protective Ventilation. <b>2017</b> , 188-194.e3	1

350	Current Concepts of ARDS: A Narrative Review. <b>2016</b> , 18,	80
349	Regional physiology of ARDS. <b>2017</b> , 21, 312	38
348	Pathophysiology of Ventilator-Dependent Infants. <b>2017</b> , 1632-1642.e3	1
347	ARDS in Aged Patients: Respiratory System Mechanics and Outcome. <b>2017</b> , 11,	2
346	Unstable Inflation Is Harmful and More Common Supine Than Prone. <b>2018</b> , 198, 146-147	2
345	Biologic Impact of Mechanical Power at High and Low Tidal Volumes in Experimental Mild Acute Respiratory Distress Syndrome. <b>2018</b> , 128, 1193-1206	27
344	Obesity and asthma. <b>2018</b> , 141, 1169-1179	260
343	Protective ventilation in general anesthesia. Anything new?. <b>2018</b> , 65, 218-224	
342	Ventilation protectrice pour tous? (Effet pulmonaire cardiogénique, embolie pulmonaire, asthme, BPCO). <b>2018</b> , 4, 141-146	0
341	Understanding Pulmonary Stress-Strain Relationships in Severe ARDS and Its Implications for Designing a Safer Approach to Setting the Ventilator. <b>2018</b> , 63, 219-226	14
340	Reclassifying Acute Respiratory Distress Syndrome. <b>2018</b> , 197, 1586-1595	50
339	Unstable Inflation Causing Injury. Insight from Prone Position and Paired Computed Tomography Scans. <b>2018</b> , 198, 197-207	23
338	Alveolar Tidal recruitment/derecruitment and Overdistension During Four Levels of End-Expiratory Pressure with Protective Tidal Volume During Anesthesia in a Murine Lung-Healthy Model. <b>2018</b> , 196, 335-342	4
337	Inspiratory preload obliteration may injure lungs via cyclical "on-off" vascular flow. <b>2018</b> , 44, 1521-1523	5
336	Does Regional Lung Strain Correlate With Regional Inflammation in Acute Respiratory Distress Syndrome During Nonprotective Ventilation? An Experimental Porcine Study. <b>2018</b> , 46, e591-e599	26
335	Protective Ventilation in general anesthesia. Anything new?. <b>2018</b> , 65, 218-224	0
334	The Basic Science and Molecular Mechanisms of Lung Injury and Acute Respiratory Distress Syndrome. <b>2018</b> , 56, 1-25	8
333	Micromechanical model of lung parenchyma hyperelasticity. <b>2018</b> , 112, 126-144	7

332	Dissipation of energy during the respiratory cycle: conditional importance of ergotrauma to structural lung damage. <b>2018</b> , 24, 16-22	14
331	Looking beyond macroventilatory parameters and rethinking ventilator-induced lung injury. <i>Journal of Applied Physiology</i> , <b>2018</b> , 124, 1214-1218	3-7 6
330	Esophageal pressure: research or clinical tool?. <b>2018</b> , 113, 13-20	6
329	Does high PEEP prevent alveolar cycling?. <b>2018</b> , 113, 7-12	6
328	Atelectrauma or volutrauma: the dilemma. <b>2018</b> , 10, 1258-1264	14
327	Elevation in lung volume and preventing catastrophic airway closure in asthmatics during bronchoconstriction. <b>2018</b> , 13, e0208337	5
326	Ventilator-induced lung injury and lung mechanics. <b>2018</b> , 6, 378	37
325	Preemptive Mechanical Ventilation Based on Dynamic Physiology in the Alveolar Microenvironment: Novel Considerations of Time-Dependent Properties of the Respiratory System. <b>2018</b> , 85, 1081-1091	10
324	The micromechanics of lung alveoli: structure and function of surfactant and tissue components. <b>2018</b> , 150, 661-676	128
323	Shape and Facet Analyses of Alveolar Airspaces of the Lung. <b>2018</b> , 49-64	0
322	Driving-pressure-independent protective effects of open lung approach against experimental acute respiratory distress syndrome. <b>2018</b> , 22, 228	6
321	Minimisation of dissipated energy in the airways during mechanical ventilation by using constant inspiratory and expiratory flows - Flow-controlled ventilation (FCV). <b>2018</b> , 121, 167-176	10
320	Volutrauma and atelectrauma: which is worse?. <b>2018</b> , 22, 264	23
319	Where Did the Gas Go? Recruitment Versus Aeration. <b>2018</b> , 46, 1873-1874	0
318	22 Mechanical Ventilation and Pulmonary Critical Care. <b>2018</b> ,	
317	Recent advances in understanding and treating acute respiratory distress syndrome. <b>2018</b> , 7,	35
316	Perioperative lung protective ventilation. <b>2018</b> , 362, k3030	28
315	Pressure support ventilation + sigh in acute hypoxemic respiratory failure patients: study protocol for a pilot randomized controlled trial, the PROTECTION trial. <b>2018</b> , 19, 460	1

314	The Year in Cardiothoracic Critical Care: Selected Highlights From 2017. <b>2018</b> , 32, 2037-2042		
313	Improvement in upright and supine lung mechanics with bariatric surgery affects bronchodilator responsiveness and sleep quality. <i>Journal of Applied Physiology</i> , <b>2018</b> ,	3-7	5
312	The effect of obesity on lung function. <b>2018</b> , 12, 755-767		231
311	Acute lung injury: how to stabilize a broken lung. <b>2018</b> , 22, 136		27
310	Variation of poorly ventilated lung units (silent spaces) measured by electrical impedance tomography to dynamically assess recruitment. <b>2018</b> , 22, 26		44
309	Linking lung function to structural damage of alveolar epithelium in ventilator-induced lung injury. <b>2018</b> , 255, 22-29		13
308	Alveolar Micromechanics in Bleomycin-induced Lung Injury. <b>2018</b> , 59, 757-769		29
307	Determinants and Prevention of Ventilator-Induced Lung Injury. <b>2018</b> , 34, 343-356		16
306	Spatial Heterogeneity of Lung Strain and Aeration and Regional Inflammation During Early Lung Injury Assessed with PET/CT. <b>2019</b> , 26, 313-325		2
305	Power to mechanical power to minimize ventilator-induced lung injury?. <b>2019</b> , 7, 38		31
304	Alveolar dynamics during mechanical ventilation in the healthy and injured lung. <b>2019</b> , 7, 34		17
303	Effect of Pleural Membrane on the Propagation of Rayleigh Waves in Inflated Porous Lungs: A Study. <b>2019</b> , 7, 85169-85177		0
302	The Effect of Positive End-Expiratory Pressure on Lung Micromechanics Assessed by Synchrotron Radiation Computed Tomography in an Animal Model of ARDS. <b>2019</b> , 8,		4
301	Targeting transpulmonary pressure to prevent ventilator-induced lung injury. <b>2019</b> , 13, 737-746		17
300	Assessment of Work of Breathing in Patients with Acute Exacerbations of Chronic Obstructive Pulmonary Disease. <b>2019</b> , 16, 418-428		1
299	How I optimize power to avoid VILI. <b>2019</b> , 23, 326		4
298	Surfactant Protein B Deficiency Induced High Surface Tension: Relationship between Alveolar Micromechanics, Alveolar Fluid Properties and Alveolar Epithelial Cell Injury. <b>2019</b> , 20,		14
297	Surfactant dysfunction and alveolar collapse are linked with fibrotic septal wall remodeling in the TGF- $\beta$ -induced mouse model of pulmonary fibrosis. <b>2019</b> , 99, 830-852		21

296	Stress, strain and mechanical power: Is material science the answer to prevent ventilator induced lung injury?. <b>2019</b> , 43, 165-175		0
295	Lung Recruitment Strategies During High Frequency Oscillatory Ventilation in Preterm Lambs. <b>2018</b> , 6, 436		2
294	Caloric restriction prevents the development of airway hyperresponsiveness in mice on a high fat diet. <b>2019</b> , 9, 279		6
293	Clinical Management of One-Lung Ventilation. <b>2019</b> , 107-129		1
292	Impact of "opening the lung" ventilatory strategy on burn patients with acute respiratory distress syndrome. <b>2019</b> , 45, 1841-1847		2
291	The role of three-dimensionality and alveolar pressure in the distribution and amplification of alveolar stresses. <b>2019</b> , 9, 8783		8
290	Regional Behavior of Airspaces During Positive Pressure Reduction Assessed by Synchrotron Radiation Computed Tomography. <b>2019</b> , 10, 719		5
289	Recent Advances in Inflammation and Treatment of Small Airways in Asthma. <b>2019</b> , 20,		12
288	Evolving concepts for safer ventilation. <b>2019</b> , 23, 114		10
287	Ventilator-Induced Lung Injury: Classic and Novel Concepts. <b>2019</b> , 64, 629-637		20
286	The Aftermath of Bronchoconstriction. <b>2019</b> , 2, 0108031-108036		
285	Airway Transmural Pressures in an Airway Tree During Bronchoconstriction in Asthma. <b>2019</b> , 2, 0110051-110056		
284	The time-controlled adaptive ventilation protocol: mechanistic approach to reducing ventilator-induced lung injury. <b>2019</b> , 28,		12
283	Is Progression of Pulmonary Fibrosis due to Ventilation-induced Lung Injury?. <b>2019</b> , 200, 140-151		26
282	Acute Respiratory Distress Syndrome: Respiratory Monitoring and Pulmonary Physiology. <b>2019</b> , 40, 66-80		5
281	Multivascular networks and functional intravascular topologies within biocompatible hydrogels. <b>2019</b> , 364, 458-464		557
280	Using injury cost functions from a predictive single-compartment model to assess the severity of mechanical ventilator-induced lung injuries. <i>Journal of Applied Physiology</i> , <b>2019</b> , 127, 58-70	3.7	6
279	¿QUÉ HEMOS APRENDIDO DE FALLA RESPIRATORIA CATASTRÓFICA?. <b>2019</b> , 30, 140-150		

278	Recruitment Maneuvers and Higher PEEP, the So-Called Open Lung Concept, in Patients with ARDS. <b>2019</b> , 59-69		1
277	Clinical implications of the rheological theory in the prevention of ventilator-induced lung injury. Is mechanical power the solution?. <b>2019</b> , 43, 373-381		
276	Recruitment Maneuvers and Higher PEEP, the So-Called Open Lung Concept, in Patients with ARDS. <b>2019</b> , 23, 73		19
275	Microscale to mesoscale analysis of parenchymal tethering: the effect of heterogeneous alveolar pressures on the pulmonary mechanics of compliant airways. <i>Journal of Applied Physiology</i> , <b>2019</b> , 126, 1204-1213	3-7	4
274	Minimal Change in Cardiac Index With Increasing PEEP in Pediatric Acute Respiratory Distress Syndrome. <b>2019</b> , 7, 9		1
273	Beatmungsstrategien in der Intensivmedizin. <b>2019</b> , 15, 19-34		
272	Imaging the Injured Lung: Mechanisms of Action and Clinical Use. <b>2019</b> , 131, 716-749		14
271	The Effects of Positive End-Expiratory Pressure on Transpulmonary Pressure and Recruitment-Derecruitment During Neurally Adjusted Ventilator Assist: A Continuous Computed Tomography Study in an Animal Model of Acute Respiratory Distress Syndrome. <b>2019</b> , 10, 1392		2
270	Driving Pressure and Transpulmonary Pressure: How Do We Guide Safe Mechanical Ventilation?. <b>2019</b> , 131, 155-163		25
269	Individual Airway Closure Characterized In Vivo by Phase-Contrast CT Imaging in Injured Rabbit Lung. <b>2019</b> , 47, e774-e781		20
268	Ventilation during General Anaesthesia. <b>2019</b> , 271-284		
267	Ventilation for low dissipated energy achieved using flow control during both inspiration and expiration. <b>2019</b> , 24, 5-12		13
266	Relation between Respiratory Mechanics, Inflammation, and Survival in Experimental Mechanical Ventilation. <b>2019</b> , 60, 179-188		13
265	Clinical implications of the rheological theory in the prevention of ventilator-induced lung injury. Is mechanical power the solution?. <b>2019</b> , 43, 373-381		1
264	Bedside respiratory physiology to detect risk of lung injury in acute respiratory distress syndrome. <b>2019</b> , 25, 3-11		5
263	Stress, strain and mechanical power: Is material science the answer to prevent ventilator induced lung injury?. <b>2019</b> , 43, 165-175		4
262	A clinical study on mechanical ventilation PEEP setting for traumatic ARDS patients guided by esophageal pressure. <b>2019</b> , 27, 37-47		4
261	A Time to Heal: The EMPROVE Protocol. <b>2019</b> , 43, 217-221		5

260	Integrated lung tissue mechanics one piece at a time: Computational modeling across the scales of biology. <b>2019</b> , 66, 20-31	8
259	Current Trends in Biomedical Engineering and Bioimages Analysis. <b>2020</b> ,	1
258	Static and Dynamic Contributors to Ventilator-induced Lung Injury in Clinical Practice. Pressure, Energy, and Power. <b>2020</b> , 201, 767-774	45
257	Prevention and treatment of acute lung injury with time-controlled adaptive ventilation: physiologically informed modification of airway pressure release ventilation. <b>2020</b> , 10, 3	24
256	Searching for the optimal positive end-expiratory pressure for lung protective ventilation. <b>2020</b> , 26, 53-58	5
255	PEEP Titration to Minimize Driving Pressure in Subjects With ARDS: A Prospective Physiological Study. <b>2020</b> , 65, 583-589	5
254	Lung protection in acute respiratory distress syndrome: what should we target?. <b>2020</b> , 26, 26-34	2
253	Determinants of the esophageal-pleural pressure relationship in humans. <i>Journal of Applied Physiology</i> , <b>2020</b> , 128, 78-86	3-7 5
252	Functional lung imaging with synchrotron radiation: Methods and preclinical applications. <b>2020</b> , 79, 22-35	3
251	Upscaling the poroelastic behavior of the lung parenchyma: A finite-deformation micromechanical model. <b>2020</b> , 145, 104147	3
250	Structure-Function Relationships in Various Respiratory Systems. <b>2020</b> ,	1
249	A physiological approach to understand the role of respiratory effort in the progression of lung injury in SARS-CoV-2 infection. <b>2020</b> , 24, 494	44
248	Time Course of Evolving Ventilator-Induced Lung Injury: The "Shrinking Baby Lung". <b>2020</b> , 48, 1203-1209	17
247	Association of patient weight status with plasma surfactant protein D, a biomarker of alveolar epithelial injury, in children with acute respiratory failure. <b>2020</b> , 55, 2730-2736	1
246	Airway mechanical compression: its role in asthma pathogenesis and progression. <b>2020</b> , 29,	13
245	Hidden Microatelectases Increase Vulnerability to Ventilation-Induced Lung Injury. <b>2020</b> , 11, 530485	4
244	Asthma and Lung Mechanics. <b>2020</b> , 10, 975-1007	3
243	Effect of Driving Pressure Change During Extracorporeal Membrane Oxygenation in Adults With Acute Respiratory Distress Syndrome: A Randomized Crossover Physiologic Study. <b>2020</b> , 48, 1771-1778	12

242	Physiological effects of different recruitment maneuvers in a pig model of ARDS. <b>2020</b> , 20, 266	0
241	Alveolar Dynamics and Beyond - The Importance of Surfactant Protein C and Cholesterol in Lung Homeostasis and Fibrosis. <b>2020</b> , 11, 386	4
240	A viscoelastic two-dimensional network model of the lung extracellular matrix. <b>2020</b> , 19, 2241-2253	7
239	Elastic power but not driving power is the key promoter of ventilator-induced lung injury in experimental acute respiratory distress syndrome. <b>2020</b> , 24, 284	6
238	Esophageal Manometry. <b>2020</b> , 65, 772-792	9
237	Airway Remodeling in Asthma. <b>2020</b> , 7, 191	69
236	Coronavirus and Obesity: Could Insulin Resistance Mediate the Severity of Covid-19 Infection?. <b>2020</b> , 8, 184	27
235	A linearized expiration flow homogenizes the compartmental pressure distribution in a physical model of the inhomogeneous respiratory system. <b>2020</b> , 41, 045005	2
234	Bioengineering the Blood-gas Barrier. <b>2020</b> , 10, 415-452	7
233	The Contribution of Surface Tension-Dependent Alveolar Septal Stress Concentrations to Ventilation-Induced Lung Injury in the Acute Respiratory Distress Syndrome. <b>2020</b> , 11, 388	5
232	Lung and Chest Wall Elasticity. <b>2020</b> , 187-201	
231	Air Space Distension Precedes Spontaneous Fibrotic Remodeling and Impaired Cholesterol Metabolism in the Absence of Surfactant Protein C. <b>2020</b> , 62, 466-478	13
230	What is the role of PEEP and recruitment maneuvers in ARDS?. <b>2020</b> , 50-56.e1	
229	Ventilation and Perfusion at the Alveolar Level: Insights From Lung Intravital Microscopy. <b>2020</b> , 11, 291	5
228	A Physiologically Informed Strategy to Effectively Open, Stabilize, and Protect the Acutely Injured Lung. <b>2020</b> , 11, 227	14
227	Mechanical Ventilation Lessons Learned From Alveolar Micromechanics. <b>2020</b> , 11, 233	2
226	Intravenous sulforhodamine B reduces alveolar surface tension, improves oxygenation, and reduces ventilation injury in a respiratory distress model. <i>Journal of Applied Physiology</i> , <b>2021</b> , 130, 1305-1316	2
225	Evidence-Based Management of the Critically Ill Adult With SARS-CoV-2 Infection. <b>2021</b> , 36, 18-41	5



224	Obesity in Critically Ill Patients. <b>2021</b> , 935-947		
223	Control of Breathing. <b>2021</b> , 205-218		0
222	Stress, Strain, and the Inflation of the Lung. <b>2021</b> , 167-175		
221	PEEP: dos lados de la misma moneda. <b>2021</b> , 35, 34-46		0
220	Cardiopulmonary Monitoring in the Patient with an Inflamed Lung. <b>2021</b> , 729-739		
219	Hypoxemic Respiratory Failure. VILI. <b>2021</b> , 175-180		
218	[Radiological features of interstitial lung diseases]. <b>2021</b> , 42, 86-94		
217	Fifty Years of Mechanical Ventilation-1970s to 2020. <b>2021</b> , 49, 558-574		2
216	Pneumothorax and pulmonary air leaks as ventilator-induced injuries in COVID-19. <b>2021</b> , 36, 75-77		
215	Improved Alveolar Dynamics and Structure After Alveolar Epithelial Type II Cell Transplantation in Bleomycin Induced Lung Fibrosis. <b>2021</b> , 8, 640020		2
214	Imaging atelectrauma in Ventilator-Induced Lung Injury using 4D X-ray microscopy. <b>2021</b> , 11, 4236		4
213	Inspiratory Efforts, Positive End-Expiratory Pressure, and External Resistances Influence Intraparenchymal Gas Redistribution in Mechanically Ventilated Injured Lungs. <b>2020</b> , 11, 618640		3
212	Second-generation lung-on-a-chip with an array of stretchable alveoli made with a biological membrane. <b>2021</b> , 4, 168		65
211	Quantification of dual-energy CT-derived functional parameters as potential imaging markers for progression of idiopathic pulmonary fibrosis. <b>2021</b> , 31, 6640-6651		4
210	Dexamethasone and transdehydroandrosterone significantly reduce pulmonary epithelial cell injuries associated with mechanical ventilation. <i>Journal of Applied Physiology</i> , <b>2021</b> , 130, 1143-1151	3-7	1
209	Established severe BPD: is there a way out? Change of ventilatory paradigms. <b>2021</b> ,		1
208	Regional lung viscoelastic properties in supine and prone position in a porcine model of acute respiratory distress syndrome. <i>Journal of Applied Physiology</i> , <b>2021</b> , 131, 15-25	3-7	0
207	Physiological and inflammatory consequences of high and low respiratory rate in acute respiratory distress syndrome. <b>2021</b> , 65, 1013-1022		0

206	Diaphragm neurostimulation during mechanical ventilation reduces atelectasis and transpulmonary plateau pressure, preserving lung homogeneity and [Formula: see text]/[Formula: see text]. <i>Journal of Applied Physiology</i> , <b>2021</b> , 131, 290-301	3-7	2
205	Oscillatory ventilation redux: alternative perspectives on ventilator-induced lung injury in the acute respiratory distress syndrome. <b>2021</b> , 21, 36-43		3
204	Effects of The Prone Position on Regional Neutrophilic Lung Inflammation According To 18F-FDG PET In An Experimental Ventilator-Induced Lung Injury Model. <b>2021</b> ,		0
203	Implications of microscale lung damage for COVID-19 pulmonary ventilation dynamics: A narrative review. <b>2021</b> , 274, 119341		5
202	Ventilation inhomogeneity in CDH infants [A new attitude within a simulation study. <b>2021</b> , 41, 1378-1378		0
201	An assessment of esophageal balloon use for the titration of airway pressure release ventilation and controlled mechanical ventilation in a patient with extrapulmonary acute respiratory distress syndrome: a case report. <b>2021</b> , 15, 435		1
200	Perioperative Pulmonary Atelectasis: Part I. Biology and Mechanisms. <b>2021</b> ,		7
199	Pathophysiology of Acute Respiratory Distress Syndrome and COVID-19 Lung Injury. <b>2021</b> , 37, 749-776		6
198	Alveolar Wall Micromechanics. <b>2022</b> , 232-238		
197	Ventilator-induced lung injury: from the bench to the bedside. <b>2006</b> , 357-366		4
196	Stress, Strain, and Stability of Organs. <b>1990</b> , 382-451		5
195	Ventilator-Induced Lung Injury in Patients with Ards. <b>1998</b> , 293-302		1
194	Assessment of ventilation inhomogeneity and gas exchange with volume controlled ventilation and pressure regulated volume controlled ventilation on pigs with surfactant depleted lungs. <b>1996</b> , 388, 539-44		4
193	Mechanics of Lung and Chest Wall. <b>1996</b> , 173-207		2
192	Lung Surface Tension and Surfactant: The Early Years. <b>1996</b> , 208-229		4
191	Sigh in Acute Respiratory Failure. <b>2003</b> , 243-252		1
190	Expiratory Flow Limitation in Mechanically Ventilated Patients. <b>2003</b> , 272-279		1
189	Mechanical Ventilation of Patients with Severe Obesity. <b>2013</b> , 201-215		1

188	Synchrotron X-Ray-Based Functional and Anatomical Lung Imaging Techniques. <b>2018</b> , 151-167	3
187	Challenges with Conventional Ventilation of Infants with Inhomogeneous Lungs. <b>2020</b> , 234-244	1
186	Effect of Friction and Material Compressibility on Deformable Modeling of Human Lung. <b>2008</b> , 98-106	9
185	Biophysical Modeling of Respiratory Organ Motion. <b>2013</b> , 61-84	2
184	Examples of Hysteresis Phenomena in Biology. <b>2014</b> , 35-45	2
183	Lung Recruitment During ARDS. <b>1998</b> , 236-257	6
182	The Open Lung Concept. <b>1998</b> , 430-440	10
181	Mechanical Ventilation-Induced Injury. <b>1998</b> , 457-471	3
180	Advantages and Rationale for Pressure Controlled Ventilation. <b>1994</b> , 524-533	2
179	Respiration. <b>1976</b> , 122-145	11
178	Pulmonary mechanics beyond peripheral airways. <b>1998</b> , 199-210	1
177	Bridging Scales in Respiratory Mechanics. <b>2013</b> , 395-407	2
176	Positive airway pressure: some physical and biological effects. <b>1982</b> , 125-139	1
175	Mechanical ventilation-induced alterations of intracellular surfactant pool and blood-gas barrier in healthy and pre-injured lungs. <b>2021</b> , 155, 183-202	3
174	Resistance of the Pulmonary Circulation. <b>1983</b> , 4, 127-137	47
173	Resolution of Pulmonary Edema: Mechanisms of Liquid, Protein, and Cellular Clearance from the Lung. <b>1985</b> , 6, 521-545	26
172	Inverse ratio ventilation--simply an alternative, or something more?. <b>1995</b> , 23, 224-8	20
171	Do variations in cardiac output influence lung edema?. <b>2001</b> , 29, 1079-80	2

170	Recruitment maneuvers to achieve an "open lung"--whether and how?. <b>2001</b> , 29, 1647-8	45
169	Respiratory mechanics in acute respiratory distress syndrome: relevance to monitoring and therapy of ventilator-induced lung injury. <b>1999</b> , 5, 17	4
168	Case scenario: power of positive end-expiratory pressure: use of esophageal manometry to illustrate pulmonary physiology in an obese patient. <b>2014</b> , 121, 1320-6	4
167	Does Iso-mechanical Power Lead to Iso-lung Damage?: An Experimental Study in a Porcine Model. <b>2020</b> , 132, 1126-1137	17
166	Second-generation lung-on-a-chip array with a stretchable biological membrane.	7
165	Continuum vs. spring network models of airway-parenchymal interdependence. <i>Journal of Applied Physiology</i> , <b>2012</b> , 113, 124-9	3-7 15
164	Critical role for CXCR2 and CXCR2 ligands during the pathogenesis of ventilator-induced lung injury. <b>2002</b> , 110, 1703-1716	292
163	Contributions of loss of lung recoil and of enhanced airways collapsibility to the airflow obstruction of chronic bronchitis and emphysema. <b>1973</b> , 52, 2117-28	42
162	Airway hyperresponsiveness in asthma: a problem of limited smooth muscle relaxation with inspiration. <b>1995</b> , 96, 2393-403	351
161	Critical role for CXCR2 and CXCR2 ligands during the pathogenesis of ventilator-induced lung injury. <b>2002</b> , 110, 1703-16	186
160	Coagulation-dependent mechanisms and asthma. <b>2004</b> , 114, 20-23	28
159	Coagulation-dependent mechanisms and asthma. <b>2004</b> , 114, 20-3	10
158	Severe community-acquired pneumonia. <b>1997</b> , 25, 222-34	2
157	Progression of regional lung strain and heterogeneity in lung injury: assessing the evolution under spontaneous breathing and mechanical ventilation. <b>2020</b> , 10, 107	13
156	Mechanical power at a glance: a simple surrogate for volume-controlled ventilation. <b>2019</b> , 7, 61	25
155	Recent advances in understanding acute respiratory distress syndrome. <b>2018</b> , 7,	12
154	Emerging concepts in ventilation-induced lung injury. <b>2020</b> , 9,	14
153	Cell Jamming in the Airway Epithelium. <b>2016</b> , 13 Suppl 1, S64-7	10

152	SDRA e ventila�. <b>1999</b> , 25, 251-262	1
151	Role of airway recruitment and derecruitment in lung injury. <b>2011</b> , 39, 297-317	24
150	Positive end-expiratory pressure: how to set it at the individual level. <b>2017</b> , 5, 288	41
149	Value of measuring esophageal pressure to evaluate heart-lung interactions-applications for invasive hemodynamic monitoring. <b>2018</b> , 6, 351	4
148	Should we titrate peep based on end-expiratory transpulmonary pressure?-yes. <b>2018</b> , 6, 390	5
147	Should we titrate positive end-expiratory pressure based on an end-expiratory transpulmonary pressure?. <b>2018</b> , 6, 391	4
146	Respiratory mechanics in patients with acute respiratory distress syndrome. <b>2018</b> , 6, 382	17
145	Monitoring of regional lung ventilation using electrical impedance tomography. <b>2019</b> , 85, 1231-1241	7
144	Theoretical Modelling of Alveolar Resonance Mechanism of Ultrasound-Induced Lung Haemorrhage. <b>2012</b> , 18, 59-71	1
143	New insights into the pathophysiology of the small airways in asthma. <b>2007</b> , 2, 28-33	20
142	Mathematics of Ventilator-induced Lung Injury. <b>2017</b> , 21, 521-524	8
141	Better Physiology does not Necessarily Translate Into Improved Clinical Outcome. <b>2016</b> , 44, 165-166	2
140	Constant Tidal Volume Ventilation and Surfactant Dysfunction: An Overlooked Cause of Ventilator-Induced Lung Injury. <b>2021</b> ,	0
139	Inflation instability in the lung: an analytical model of a thick-walled alveolus with wavy fibres under large deformations. <b>2021</b> , 18, 20210594	2
138	Role of Surfactant in Ventilation-Induced Lung Injury. <b>2000</b> , 101-106	
137	Lung. <b>2000</b> , 353-364	
136	Respiratory Physiology as a Basis for the Management of Acute Lung Injury. <b>2000</b> , 283-289	
135	Das Konzept der offenen Lunge (Open Lung Concept). <b>2000</b> , 233-243	

- 134 Die akute respiratorische Insuffizienz im Rahmen des multiplen Organdysfunktionssyndroms. **2000**, 397-453 0
- 133 Pathophysiologische Grundlagen, Klinik und Therapie schwerer akuter Lungenfunktionsstörungen in der Intensivmedizin. **2002**, 17-51
- 132 Structure-to-Function Relationships in Chronic Obstructive Pulmonary Disease and Asthma. **2002**, 194-200
- 131 Aspiration of Airway Dead Space: a New Method to Enhance CO<sub>2</sub> Elimination. **2002**, 67-74
- 130 Mechanisms in Applications of Recruitment and Derecruitment in the Acute Respiratory Distress Syndrome. **2002**, 348-358
- 129 Functional Imaging of Airway Distensibility. **2002**, 238-248
- 128 Bedside hemodynamic monitoring. **2002**, 125-125
- 127 Pathophysiologische Grundlagen, Klinik und Therapie schwerer akuter Lungenfunktionsstörungen in der Intensivmedizin. **2004**, 17-50
- 126 Pediatric Mucus Clearance by Chest Physiotherapy. **2004**, 471-502 3
- 125 Respiratory Physiology and Care. **2006**, 114-133 1
- 124 Ventilator-Induced Lung Injury. **2006**, 719-730
- 123 Stress Distribution in the Lung. **2006**, 239-246
- 122 Mechanical Dysfunction of the Respiratory System. **2006**, 543-556
- 121 The Role of Protective Ventilation in Cardiac Surgery Patients. **2007**, 398-406
- 120 The Role of Protective Ventilation in Cardiac Surgery Patients. **2007**, 398-406
- 119 Open Lung Management. **2008**, 276-285 3
- 118 Protective Mechanical Ventilation: Lessons Learned From Alveolar Mechanics. **2008**, 245-255
- 117 Ventilator-Induced Lung Injury. **2008**, 615-623

116 The Role of Protein-protein Interactions in Mechanotransduction: Implications in Ventilator Induced Lung Injury. **2010**, 255-273

115 Respiratory System Mechanics and Energetics. **2010**, 89-107

114 Acute Respiratory Distress Syndrome. **2010**, 2104-2129

113 Mechanostimulation and Mechanics Analysis of Lung Cells, Lung Tissue and the Entire Lung Organ. **2011**, 129-154

112 Respiratory System Mechanics and Respiratory Muscle Function. **2011**, 303-313

111 Esophageal Pressure Monitoring in ARDS. **2013**, 451-463

110 Update on Lung Imaging to Select Ventilatory Management in ARDS Patients. **2014**, 81-102

109 CURRENT TRENDS IN THE PHARMACOTHERAPY OF ATOPIC ASTHMA. **2013**, 10, 33-41

1

108 Functional Imaging of Airway Distensibility. **2014**, 231-245

107 Pathophysiology of Airflow Obstruction. **2014**, 37-51

106 Mechanical Ventilation. **2014**, 1-98

105 Disorders of Respiration. **1972**, 73-104

104 Biomechanics. **1973**, 625-642

103 Atemphysiologie. **1979**, 27-98

102 THE EFFECT OF LUNG VOLUME AND MEDIASTINAL STRUCTURES ON TRACHEAL COLLAPSIBILITY FOR IN SITU DOGS. **1981**, 631-638

101 Assessing Change in Airway Calibre Measurement of Airway Resistance. **1981**, 25-37

1

100 Surface tension and alveolar changes during ventilation. **1982**, 191-206

99 Pathophysiology of the Pulmonary Circulation. **1984**, 11-64

0

- 98 Mechanical Ventilation: The Role Of High-Frequency Ventilation. **1987**, 287-294
- 97 Lung Tissue Mechanics: Historical Overview. **1990**, 3-18 1
- 96 Lung Tissue Mechanics. **1990**, 39-43 1
- 95 Physiology of the Airways. **1993**, 24-49
- 94 Volumenkontrollierte vs. druckkontrollierte Beatmung. **1993**, 25-32
- 93 Prophylaxe und Therapie der akuten respiratorischen Insuffizienz im Rahmen des multiplen Organdysfunktionssyndroms. **1996**, 249-289
- 92 Mechanisms of Respiratory Failure and New Management Strategies. **1996**, 271-283
- 91 Modern History of Respiratory Muscle Physiology. **1996**, 230-248
- 90 Concept: Open Up the Lung and Keep the Lung Open. **1996**, 349-353 1
- 89 A Pressure Targeted Approach to Ventilating. **1996**, 393-407
- 88 Iatrogenic Lung Damage by Artificial Ventilation: What Is the Role of the Pulmonary Surfactant System?. **1998**, 141-146
- 87 Barotrauma, Volume Trauma and Their Relation to FRC. **1998**, 133-139
- 86 Mechanical Ventilation in ARDS: What a Fine Mess!. **1998**, 171-179
- 85 Effects of mechanical ventilation on kidney function. **1998**, 1055-1065
- 84 Mechanical Ventilation in Ards: Good or Bad News?. **1998**, 285-292
- 83 Permissive Hypercapnia. **1998**, 258-275
- 82 Determination of Lung Volume in the ICU. **1998**, 353-360
- 81 Mechanisms of Regional Lung Expansion in Acute Respiratory Distress Syndrome. **1999**, 252-268



- 80 Acute Respiratory Distress Syndrome (ARDS). **2016**, 153-166
- 79 Lung Mechanics. **2016**, 1-18
- 78 Complicaties en andere gevolgen van mechanische beademing. **2017**, 149-170
- 77 Lung protection strategy based on transpulmonary pressure could repel the need for extracorporeal membrane oxygenation in a neonate with severe acute respiratory distress syndrome. **2017**, 24, 332-336
- 76 Protective ventilation in abdominal surgery. **2018**, 25 1
- 75 Personalized Airway Pressure Release Ventilation for acute respiratory distress syndrome: pathophysiological rationale, clinical trials and application prospects. **2019**, 52
- 74 Conventional Mechanical Ventilation in Pediatric Acute Respiratory Distress Syndrome. **2020**, 63-71
- 73 Intracycle power and ventilation mode as potential contributors to ventilator-induced lung injury. **2021**, 9, 55 1
- 72 Grundlagen der Lungenphysiologie. **1983**, 67-100
- 71 Gas Distribution and Ventilation-Perfusion Relationships during Anaesthesia and in Acute Respiratory Failure. Clinical Implications. **1983**, 121-140
- 70 Functional Properties of Lower Airway Estimated by Oscillometry: Is Oscillometry Useful for Detecting Lower-Airway Abnormalities?. **2020**, 137-145
- 69 Management of One-Lung Ventilation: Protective Lung Ventilation. **2022**, 279-292
- 68 Pulmonary Pathophysiology and Lung Mechanics in Anesthesiology. **2022**, 66-87
- 67 Ventilator-Associated Lung Injury (VALI). **2020**, 77-86
- 66 Challenges for the development of alternative low-cost ventilators during COVID-19 pandemic in Brazil. **2020**, 32, 444-457 2
- 65 Assessment of VILI Risk During Spontaneous Breathing and Assisted Mechanical Ventilation. **2020**, 81-88 1
- 64 Lung and chest wall mechanics in COVID-19 acute respiratory distress syndrome.. **2021**, 13, 6214-6216 0
- 63 Intravenous sulforhodamine B reduces alveolar surface tension, improves oxygenation and reduces ventilation injury in a respiratory distress model.

- 62 Respiratory function in morbidly obese subjects. **2005**, 16, 145-150
- 61 Die akute respiratorische Insuffizienz im Rahmen des multiplen Organdysfunktionssyndroms. **2005**, 359-401
- 60 Elastic pressure-volume curves in acute lung injury and acute respiratory distress syndrome. **2006**, 295-302
- 59 Protective Mechanical Ventilation: Lessons Learned From Alveolar Mechanics. **2008**, 245-255
- 58 Physiopathologie et lésions induites par la ventilation. **2008**, 29-49 1
- 57 Modes ventilatoires au cours du SDRA. **2008**, 83-95
- 56 Asthma. **2009**, 139-154
- 55 Enhancement of Protective Ventilation Strategies Using Electrical Impedance Tomography. **2007**, 3902-3905
- 54 Modeling and Simulation of Airway Tissues Stresses during Pulmonary Recruitment. **2008**, 200-207
- 53 Proceedings Correlation between ultrastructure and histochemistry of mammalian intrafusal muscle fibres. **1975**, 252, 16P-17P 10
- 52 Pathogenesis of bronchopulmonary dysplasia following hyaline membrane disease. **1976**, 82, 241-64 162
- 51 Inhomogeneous computed tomographic densities in lungs in acute respiratory distress syndrome: stress multipliers leading to ventilator-induced injury?. **2014**, 189, 123-4 2
- 50 Pycnogenol, a compound isolated from the bark of pinus maritime mill, attenuates ventilator-induced lung injury through inhibiting NF- $\kappa$ B-mediated inflammatory response. **2015**, 8, 1824-33 9
- 49 Mechanical Power Correlates With Lung Inflammation Assessed by Positron-Emission Tomography in Experimental Acute Lung Injury in Pigs. **2021**, 12, 717266 0
- 48 Ventilation-Induced Lung Injury (VILI) in Neonates: Evidence-Based Concepts and Lung-Protective Strategies.. **2022**, 11, 2
- 47 R glage du ventilateur chez le patient chirurgical : y a-t-il un consensus ? . **2022**, 8, 77-86
- 46 Airway Closure and Expiratory Flow Limitation in Acute Respiratory Distress Syndrome.. **2021**, 12, 815601 1
- 45 Spontaneous Breathing in Acute Respiratory Failure. **2022**, 129-136

44	Neurally Adjusted Ventilatory Assist in Acute Respiratory Failure-A Narrative Review.. <b>2022</b> , 11,	0
43	Mechanical power thresholds during mechanical ventilation: An experimental study.. <b>2022</b> , 10, e15225	1
42	Increased regional ventilation as early imaging marker for future disease progression of interstitial lung disease: a feasibility study.. <b>2022</b> , 1	1
41	Revisiting Airflow and Aerosol Transport Phenomena in the Deep Lungs with Microfluidics.. <b>2021</b> ,	3
40	Mechanical ventilation promotes lung tumor spread by modulation of cholesterol cell content. <b>2021</b> ,	1
39	Pulmonary Interstitial Matrix and Lung Fluid Balance From Normal to the Acutely Injured Lung.. <b>2021</b> , 12, 781874	7
38	Table_1.DOCX. <b>2019</b> ,	
37	Data_Sheet_1.doc. <b>2019</b> ,	
36	Data_Sheet_2.doc. <b>2019</b> ,	
35	Table_1.DOCX. <b>2020</b> ,	
34	Extracellular Microenvironmental Control for Organoid Assembly.. <b>2022</b> ,	0
33	Inhomogeneous Computed Tomographic Densities in Lungs in Acute Respiratory Distress Syndrome: Stress Multipliers Leading to Ventilator-induced Injury?. <b>2014</b> , 189, 123-124	2
32	Metformin Alleviates Airway Hyperresponsiveness in a Mouse Model of Diet-Induced Obesity.. <b>2022</b> , 13, 883275	1
31	Mechanics of lung cancer: A finite element model shows strain amplification during early tumorigenesis.	1
30	Verification of morphological and physical properties for the development of a lung substitute phantom using microspheres. <b>2022</b> , 93, 064101	
29	Intracycle power distribution in a heterogeneous multi-compartmental mathematical model: possible links to strain and VILI. <b>2022</b> , 10,	0
28	Computational lung modelling in respiratory medicine. <b>2022</b> , 19,	0
27	Spatiotemporal Distribution of Cellular Injury and Leukocytes during the Progression of Ventilator-Induced Lung Injury.	0

- 26 The impact of spontaneous cough on pleural pressure changes during therapeutic thoracentesis. **2022**, 12,
- 25 Monitoring Lung Injury Severity and Ventilation Intensity during Mechanical Ventilation. **2022**, 43, 346-368 1
- 24 Fluid dynamic assessment of positive end-expiratory pressure in a tracheostomy tube connector during respiration.
- 23 Pneumothorax: Challenging the Paradigm of Persistent Air Leak, but Where is the Leak?. 0
- 22 Principles of lung-protective ventilation. **2022**, 241-248.e3 0
- 21 Mapping cell cortex rheology to tissue rheology and vice versa. **2022**, 106, 1
- 20 Relaxation and creep response of the alveolar lung to diagnosis and treatments for respiratory and lung disorders. 026765912211281 0
- 19 Protective ventilation in a pig model of acute lung injury: Timing is as important as pressure. 0
- 18 Multiscale compression-induced restructuring of stacked lipid bilayers: from buckling delamination to molecular packing. 0
- 17 Incidence and Outcome of Pneumomediastinum in Non-ICU Hospitalized COVID-19 Patients. Publish Ahead of Print, 0
- 16 The role of mathematical models in designing mechanopharmacological therapies for asthma. 2, 0
- 15 Negative Pressure is the Positive Way to Breathe!. 0
- 14 Mechanics of lung cancer: A finite element model shows strain amplification during early tumorigenesis. **2022**, 18, e1010153 0
- 13 Multiscale compression-induced restructuring of stacked lipid bilayers: From buckling delamination to molecular packing. **2022**, 17, e0275079 0
- 12 Selection of the End-Expiratory Pressure for Mechanical Respiratory Support (Review). **2022**, 18, 50-58 0
- 11 Lung Mechanics: A Review of Solid Mechanical Elasticity in Lung Parenchyma. 0
- 10 Application of Machine Learning for Segmentation of the Pulmonary Acinus Imaged by Synchrotron X-Ray Tomography. 0
- 9 A new method of ventilation inhomogeneity assessment based on a simulation study using clinical data on congenital diaphragmatic hernia cases. **2022**, 12, 0

- 8 Analysis of the alveolar shape in 3D. ○
- 7 L'association entre une ventilation peropatoire à basse pression motrice et le congé à domicile : une étude de cohorte historique. **2023**, 70, 359-373 ○
- 6 Respiratory Monitoring During Mechanical Ventilation: The Present and the Future. **2023**, 38, 407-417 ○
- 5 Impact of early screening echocardiography and targeted PDA treatment on neonatal outcomes in 22-23 week and 24-26 infants. **2023**, 47, 151721 ○
- 4 Mechanical power of ventilation and driving pressure: two undervalued parameters for pre extracorporeal membrane oxygenation ventilation and during daily management?. **2023**, 27, ○
- 3 Acinar micromechanics in health and lung injury: what we have learned from quantitative morphology. 14, ○
- 2 PEEP Titration by the Bedside: How Do We Set It Right?. **2023**, 27-35 ○
- 1 Flow-controlled expiration reduces positive end-expiratory pressure requirement in dorsally recumbent, anesthetized horses. 10, ○