Jason H T Bates

List of Publications by Year
in descending order

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181 papers	9,672 citations	44069 48 h-index	46799 89 g-index
212 all docs	212 docs citations	212 times ranked	6378 citing authors

#	Article	IF	Citations
1	A computational modeling approach for dosing endoscopic intratumoral chemotherapy for advanced non-small cell lung cancer. Scientific Reports, 2022, 12, 44.	3.3	5
2	Update on the Features and Measurements of Experimental Acute Lung Injury in Animals: An Official American Thoracic Society Workshop Report. American Journal of Respiratory Cell and Molecular Biology, 2022, 66, e1-e14.	2.9	82
3	Prediction of lung cancer risk based on age and smoking history. Computer Methods and Programs in Biomedicine, 2022, 216, 106660.	4.7	6
4	Deep Fusion of Ultrasound Videos for Furosemide Classification. , 2022, , .		0
5	What is new in respiratory monitoring?. Journal of Clinical Monitoring and Computing, 2022, 36, 599-607.	1.6	4
6	Electric Cell-Substrate Impedance Sensing (ECIS) as a Platform for Evaluating Barrier-Function Susceptibility and Damage from Pulmonary Atelectrauma. Biosensors, 2022, 12, 390.	4.7	5
7	Forced expiratory time: a composite of airway narrowing and airway closure. Journal of Applied Physiology, 2021, 130, 80-86.	2.5	5
8	Central airway collapse is related to obesity independent of asthma phenotype. Respirology, 2021, 26, 334-341.	2.3	14
9	Wavelet decomposition facilitates training on small datasets for medical image classification by deep learning. Histochemistry and Cell Biology, 2021, 155, 309-317.	1.7	12
10	An oropharyngeal device for airway management of conscious and semiconscious patients: A randomized clinical trial. Journal of the American College of Emergency Physicians Open, 2021, 2, e12440.	0.7	0
11	Measuring the mechanical input impedance of the respiratory system with breath-driven flow oscillations. Journal of Applied Physiology, 2021, 130, 1064-1071.	2.5	1
12	A simple assessment of lung nodule location for reduction in unnecessary invasive procedures. Journal of Thoracic Disease, 2021, 13, 4207-4216.	1.4	0
13	Percolation of collagen stress in a random network model of the alveolar wall. Scientific Reports, 2021, 11, 16654.	3.3	8
14	Altered airway mechanics in the context of obesity and asthma. Journal of Applied Physiology, 2021, 130, 36-47.	2.5	20
15	Positive expiratory pressure: a potential therapy to mitigate acute bronchoconstriction in the asthma of obesity. Journal of Applied Physiology, 2021, 131, 1663-1670.	2.5	3
16	Modeling lung perfusion abnormalities to explain early COVID-19 hypoxemia. Nature Communications, 2020, 11, 4883.	12.8	95
17	Modeling Lung Derecruitment in VILI Due to Fluid-Occlusion: The Role of Emergent Behavior. Frontiers in Physiology, 2020, 11, 542744.	2.8	2
18	Physiological signature of late-onset nonallergic asthma of obesity. ERJ Open Research, 2020, 6, 00049-2020.	2.6	7

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19	Classification and Detection of Breathing Patterns with Wearable Sensors and Deep Learning. Sensors, 2020, 20, 6481.	3.8	22
20	Atelectrauma Versus Volutrauma: A Tale of Two Time-Constants. , 2020, 2, e0299.		21
21	Tumor density is associated with response to endobronchial ultrasound-guided transbronchial needle injection of cisplatin. Journal of Thoracic Disease, 2020, 12, 4825-4832.	1.4	6
22	The POOR Get POORer: A Hypothesis for the Pathogenesis of Ventilator-induced Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2020, 202, 1081-1087.	5.6	51
23	Three Alveolar Phenotypes Govern Lung Function in Murine Ventilator-Induced Lung Injury. Frontiers in Physiology, 2020, 11, 660.	2.8	20
24	An Analytical Model for Estimating Alveolar Wall Elastic Moduli From Lung Tissue Uniaxial Stress-Strain Curves. Frontiers in Physiology, 2020, 11, 121.	2.8	22
25	Technical standards for respiratory oscillometry. European Respiratory Journal, 2020, 55, 1900753.	6.7	311
26	An Analytic Model of Tissue Self-Healing and Its Network Implementation: Application to Fibrosis and Aging. Frontiers in Physiology, 2020, 11, 583024.	2.8	5
27	Analyzing Complex Medical Image Information: Convolution Versus Wavelets in a Neural Net. , 2019, , 85-94.		1
28	BMI but not central obesity predisposes to airway closure during bronchoconstriction. Respirology, 2019, 24, 543-550.	2.3	26
29	The Role of Airway Shunt Elastance on the Compartmentalization of Respiratory System Impedance. Journal of Engineering and Science in Medical Diagnostics and Therapy, 2019, 2, 0110011-110018.	0.5	4
30	Cisplatin Pharmacodynamics Following Endobronchial Ultrasound-Guided Transbronchial Needle Injection into Lung Tumors. Scientific Reports, 2019, 9, 6819.	3.3	17
31	Using injury cost functions from a predictive single-compartment model to assess the severity of mechanical ventilator-induced lung injuries. Journal of Applied Physiology, 2019, 127, 58-70.	2.5	14
32	Sources of breathing pattern variability in the respiratory feedback control loop. Journal of Theoretical Biology, 2019, 469, 148-162.	1.7	8
33	Linking Physiological Biomarkers of Ventilator-Induced Lung Injury to a Rich-Get-Richer Mechanism of Injury Progression. Annals of Biomedical Engineering, 2019, 47, 638-645.	2.5	5
34	Sighs matter. Respirology, 2018, 23, 727-728.	2.3	1
35	Beyond BMI. Chest, 2018, 153, 702-709.	0.8	91
36	Ventilator-induced lung injury and lung mechanics. Annals of Translational Medicine, 2018, 6, 378-378.	1.7	81

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37	Breathing In and Out: Airway Resistance. Respiratory Medicine, 2018, , 127-150.	0.1	2
38	A model-based approach to interpreting multibreath nitrogen washout data. Journal of Applied Physiology, 2018, 124, 1155-1163.	2.5	13
39	Linking lung function to structural damage of alveolar epithelium in ventilator-induced lung injury. Respiratory Physiology and Neurobiology, 2018, 255, 22-29.	1.6	23
40	Alveolar Micromechanics in Bleomycin-induced Lung Injury. American Journal of Respiratory Cell and Molecular Biology, 2018, 59, 757-769.	2.9	42
41	Mitigation of airways responsiveness by deep inflation of the lung. Journal of Applied Physiology, 2018, 124, 1447-1455.	2.5	3
42	Topographic distribution of idiopathic pulmonary fibrosis: a hybrid physics- and agent-based model. Physiological Measurement, 2018, 39, 064007.	2.1	22
43	Alveolar leak develops by a rich-get-richer process in ventilator-induced lung injury. PLoS ONE, 2018, 13, e0193934.	2.5	26
44	The role of fractional calculus in modeling biological phenomena: A review. Communications in Nonlinear Science and Numerical Simulation, 2017, 51, 141-159.	3.3	448
45	An Official American Thoracic Society Workshop Report: Obesity and Metabolism. An Emerging Frontier in Lung Health and Disease. Annals of the American Thoracic Society, 2017, 14, 1050-1059.	3.2	45
46	Dynamic Mechanical Interactions Between Neighboring Airspaces Determine Cyclic Opening and Closure in Injured Lung. Critical Care Medicine, 2017, 45, 687-694.	0.9	33
47	CORP: Measurement of lung function in small animals. Journal of Applied Physiology, 2017, 123, 1039-1046.	2.5	18
48	Pathophysiology to Phenotype in the Asthma of Obesity. Annals of the American Thoracic Society, 2017, 14, S395-S398.	3.2	34
49	Fluctuation Analysis of Peak Expiratory Flow and Its Association with Treatment Failure in Asthma. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 993-999.	5.6	24
50	Linking Ventilator Injury-Induced Leak across the Blood-Gas Barrier to Derangements in Murine Lung Function. Frontiers in Physiology, 2017, 8, 466.	2.8	31
51	Dissecting the inflammatory twitch in allergically inflamed mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L1003-L1009.	2.9	3
52	Predicting the Mortality Benefit of CT Screening for Second Lung Cancer in a High-Risk Population. PLoS ONE, 2016, 11, e0165471.	2.5	3
53	Entropy Production and the Pressureâ€“Volume Curve of the Lung. Frontiers in Physiology, 2016, 7, 73.	2.8	15
54	The Virtual Microbiome: Computational Approaches to the Study of Microbe-Host Interactions. Critical Reviews in Biomedical Engineering, 2016, 44, 459-472.	0.9	0

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55	Systems physiology of the airways in health and obstructive pulmonary disease. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2016, 8, 423-437.	6.6	25
56	Predicting ventilator-induced lung injury using a lung injury cost function. Journal of Applied Physiology, 2016, 121, 106-114.	2.5	32
57	A Computational Model of Cellular Engraftment on Lung Scaffolds. BioResearch Open Access, 2016, 5, 308-319.	2.6	6
58	Weight Loss Decreases Inherent and Allergic Methacholine Hyperresponsiveness in Mouse Models of Diet-Induced Obese Asthma. American Journal of Respiratory Cell and Molecular Biology, 2016, 55, 176-187.	2.9	31
59	It's in our interests not to be in conflictâ€"of interest, that is. Journal of Applied Physiology, 2016, 121, 829-830.	2.5	0
60	Failure to Disclose Conflicts of Interest. JAMA Surgery, 2016, 151, 1190.	4.3	0
61	Modeling the Progression of Epithelial Leak Caused by Overdistension. Cellular and Molecular Bioengineering, 2016, 9, 151-161.	2.1	10
62	Effect of Airway Pressure Release Ventilation on Dynamic Alveolar Heterogeneity. JAMA Surgery, 2016, 151, 64.	4.3	49
63	Physiological Mechanisms of Airway Hyperresponsiveness in Obese Asthma. American Journal of Respiratory Cell and Molecular Biology, 2016, 54, 618-623.	2.9	42
64	Sex-Related Differences in Pulmonary Function following 6 Months of Cigarette Exposure: Implications for Sexual Dimorphism in Mild COPD. PLoS ONE, 2016, 11, e0164835.	2.5	34
65	Digital resolution enhancement of intracardiac excitation maps during atrial fibrillation. Journal of Clinical Monitoring and Computing, 2015, 29, 279-89.	1.6	0
66	Prospectively Quantifying the Propensity for Atrial Fibrillation: A Mechanistic Formulation. PLoS ONE, 2015, 10, e0118746.	2.5	4
67	Structural Defects Lead to Dynamic Entrapment in Cardiac Electrophysiology. PLoS ONE, 2015, 10, e0119535.	2.5	0
68	Predicting the response of the injured lung to the mechanical breath profile. Journal of Applied Physiology, 2015, 118, 932-940.	2.5	40
69	Mechanical Properties of the Lung. , 2015, , 289-304.		8
70	Evaluation of scientific impact: insights and incites. Journal of Applied Physiology, 2015, 118, 253-254.	2.5	0
71	Modeling the impairment of airway smooth muscle force by stretch. Journal of Applied Physiology, 2015, 118, 684-691.	2.5	12
72	A computational model of unresolved allergic inflammation in chronic asthma. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L384-L390.	2.9	19

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73	Human Trachealis and Main Bronchi Smooth Muscle Are Normoresponsive in Asthma. American Journal of Respiratory and Critical Care Medicine, 2015, 191, 884-893.	5.6	50
74	Resistance to alveolar shape change limits range of force propagation in lung parenchyma. Respiratory Physiology and Neurobiology, 2015, 211, 22-28.	1.6	10
75	Computational models of ventilator induced lung injury and surfactant dysfunction. Drug Discovery Today: Disease Models, 2015, 15, 17-22.	1.2	7
76	Potential role of the airway wall in the asthma of obesity. Journal of Applied Physiology, 2015, 118, 36-41.	2.5	30
77	Variable Ventilation as a Diagnostic Tool for the Injured Lung. IEEE Transactions on Biomedical Engineering, 2015, 62, 2106-2113.	4.2	9
78	Mechanical interactions between adjacent airways in the lung. Journal of Applied Physiology, 2014, 116, 628-634.	2.5	19
79	A network model of correlated growth of tissue stiffening in pulmonary fibrosis. New Journal of Physics, 2014, 16, 065022.	2.9	19
80	Influence of distinct asthma phenotypes on lung function following weight loss in the obese. Respirology, 2014, 19, 1170-1177.	2.3	54
81	Mechanical Breath Profile of Airway Pressure Release Ventilation. JAMA Surgery, 2014, 149, 1138.	4.3	72
82	The Nonallergic Asthma of Obesity. A Matter of Distal Lung Compliance. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 1494-1502.	5.6	127
83	Elucidating the fuzziness in physician decision making in ARDS. Journal of Clinical Monitoring and Computing, 2013, 27, 357-363.	1.6	7
84	Assessing the Progression of Ventilator-Induced Lung Injury in Mice. IEEE Transactions on Biomedical Engineering, 2013, 60, 3449-3457.	4.2	18
85	A Progressive Rupture Model of Soft Tissue Stress Relaxation. Annals of Biomedical Engineering, 2013, 41, 1129-1138.	2.5	9
86	Linking the Development of Ventilator-Induced Injury to Mechanical Function in the Lung. Annals of Biomedical Engineering, 2013, 41, 527-536.	2.5	48
87	Influence of parenchymal heterogeneity on airway-parenchymal interdependence. Respiratory Physiology and Neurobiology, 2013, 188, 94-101.	1.6	17
88	Airway-parenchymal interdependence in the lung slice. Respiratory Physiology and Neurobiology, 2013, 185, 211-216.	1.6	19
89	The Inflammatory Twitch as a General Strategy for Controlling the Host Response. Journal of Immunology, 2013, 190, 3510-3516.	0.8	15
90	Of course respiratory mechanics are related to airway inflammation in asthma! The more difficult question is â€œWhy?â€• Clinical and Experimental Allergy, 2013, 43, 488-490.	2.9	1

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91	A Multi-Scale Approach to Airway Hyperresponsiveness: From Molecule to Organ. Frontiers in Physiology, 2012, 3, 191.	2.8	39
92	Airway responsiveness depends on the diffusion rate of methacholine across the airway wall. Journal of Applied Physiology, 2012, 112, 1670-1677.	2.5	18
93	Continuum vs. spring network models of airway-parenchymal interdependence. Journal of Applied Physiology, 2012, 113, 124-129.	2.5	20
94	The Temporal Evolution of Airways Hyperresponsiveness and Inflammation. Journal of Allergy & Therapy, 2012, 01, 1-7.	0.1	27
95	Oscillation Mechanics of the Respiratory System. , 2011, 1, 1233-1272.		157
96	Mechanical Determinants of Airways Hyperresponsiveness. Critical Reviews in Biomedical Engineering, 2011, 39, 281-296.	0.9	17
97	Lung tissue mechanics as an emergent phenomenon. Journal of Applied Physiology, 2011, 110, 1111-1118.	2.5	115
98	Effects of recruitment/derecruitment dynamics on the efficacy of variable ventilation. Journal of Applied Physiology, 2011, 110, 1319-1326.	2.5	24
99	Multi-scale lung modeling. Journal of Applied Physiology, 2011, 110, 1466-1472.	2.5	54
100	Effects of Central Airway Shunting on the Mechanical Impedance of the Mouse Lung. Annals of Biomedical Engineering, 2011, 39, 497-507.	2.5	10
101	Analysis of Regional Mechanics in Canine Lung Injury Using Forced Oscillations and 3D Image Registration. Annals of Biomedical Engineering, 2011, 39, 1112-1124.	2.5	72
102	Quantifying the Roles of Tidal Volume and PEEP in the Pathogenesis of Ventilator-Induced Lung Injury. Annals of Biomedical Engineering, 2011, 39, 1505-1516.	2.5	64
103	Detrimental effects of albuterol on airway responsiveness requires airway inflammation and is independent of Î²-receptor affinity in murine models of asthma. Respiratory Research, 2011, 12, 27.	3.6	23
104	Emergence of Complex Behavior. Circulation: Arrhythmia and Electrophysiology, 2011, 4, 586-591.	4.8	27
105	Complexity and Emergent Phenomena. , 2011, 1, 995-1029.		25
106	Could an increase in airway smooth muscle shortening velocity cause airway hyperresponsiveness?. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 300, L121-L131.	2.9	28
107	Modeling the Complex Dynamics of Derecruitment in the Lung. Annals of Biomedical Engineering, 2010, 38, 3466-3477.	2.5	33
108	Inhaled salmeterol and/or fluticasone alters structure/function in a murine model of allergic airways disease. Respiratory Research, 2010, 11, 22.	3.6	35

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109	A multiscale, spatially distributed model of asthmatic airway hyper-responsiveness. Journal of Theoretical Biology, 2010, 266, 614-624.	1.7	70
110	The multiscale manifestations of airway smooth muscle contraction in the lung. Journal of Applied Physiology, 2010, 109, 269-270.	2.5	6
111	Influence of airway wall stiffness and parenchymal tethering on the dynamics of bronchoconstriction. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2010, 299, L98-L108.	2.9	52
112	A Continuous-Binding Cross-Linker Model for Passive Airway Smooth Muscle. Biophysical Journal, 2010, 99, 3164-3171.	0.5	22
113	Balancing Robustness against the Dangers of Multiple Attractors in a Hopfield-Type Model of Biological Attractors. PLoS ONE, 2010, 5, e14413.	2.5	12
114	On the ill-conditioned nature of the intracardiac inverse problem. , 2009, 2009, 3929-31.		2
115	Physiologic Dysfunction of the Asthmatic Lung: What's Going On Down There, Anyway?. Proceedings of the American Thoracic Society, 2009, 6, 306-311.	3.5	37
116	Acid aspiration-induced airways hyperresponsiveness in mice. Journal of Applied Physiology, 2009, 107, 1763-1770.	2.5	32
117	Neither fibrin nor plasminogen activator inhibitor-1 deficiency protects lung function in a mouse model of acute lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 296, L277-L285.	2.9	21
118	Animal models of asthma. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 297, L401-L410.	2.9	148
119	Pulmonary mechanics: A system identification perspective. , 2009, 2009, 170-2.		15
120	The role of time and pressure on alveolar recruitment. Journal of Applied Physiology, 2009, 106, 757-765.	2.5	135
121	Assessment of peripheral lung mechanics. Respiratory Physiology and Neurobiology, 2008, 163, 54-63.	1.6	40
122	Extracellular matrix mechanics in lung parenchymal diseases. Respiratory Physiology and Neurobiology, 2008, 163, 33-43.	1.6	125
123	The Synergistic Interactions of Allergic Lung Inflammation and Intratracheal Cationic Protein. American Journal of Respiratory and Critical Care Medicine, 2008, 177, 261-268.	5.6	52
124	How should airway smooth muscle be punished for causing asthma?. Journal of Applied Physiology, 2008, 104, 575-576.	2.5	1
125	Unrestrained video-assisted plethysmography: a noninvasive method for assessment of lung mechanical function in small animals. Journal of Applied Physiology, 2008, 104, 253-261.	2.5	19
126	Heterogeneity of bronchoconstriction does not distinguish mild asthmatic subjects from healthy controls when supine. Journal of Applied Physiology, 2008, 104, 10-19.	2.5	28

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127	Computational assessment of airway wall stiffness in vivo in allergically inflamed mouse models of asthma. Journal of Applied Physiology, 2008, 104, 1601-1610.	2.5	35
128	Modeling the dynamics of recruitment and derecruitment in mice with acute lung injury. Journal of Applied Physiology, 2008, 105, 1813-1821.	2.5	70
129	The response to recruitment worsens with progression of lung injury and fibrin accumulation in a mouse model of acid aspiration. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 292, L1580-L1589.	2.9	42
130	Linking Parenchymal Disease Progression to Changes in Lung Mechanical Function by Percolation. American Journal of Respiratory and Critical Care Medicine, 2007, 176, 617-623.	5.6	119
131	Airway Hyperresponsiveness in Allergically Inflamed Mice. American Journal of Respiratory and Critical Care Medicine, 2007, 175, 768-774.	5.6	132
132	Point:Counterpoint: Lung impedance measurements are/are not more useful than simpler measurements of lung function in animal models of pulmonary disease. Journal of Applied Physiology, 2007, 103, 1900-1901.	2.5	18
133	In silico modeling of interstitial lung mechanics: implications for disease development and repair. Drug Discovery Today: Disease Models, 2007, 4, 139-145.	1.2	26
134	Intrinsic and antigen-induced airway hyperresponsiveness are the result of diverse physiological mechanisms. Journal of Applied Physiology, 2007, 102, 221-230.	2.5	84
135	Bronchodilatory effect of deep inspiration on the dynamics of bronchoconstriction in mice. Journal of Applied Physiology, 2007, 103, 1696-1705.	2.5	30
136	Parenchymal tethering, airway wall stiffness, and the dynamics of bronchoconstriction. Journal of Applied Physiology, 2007, 102, 1912-1920.	2.5	68
137	A Recruitment Model of Quasi-Linear Power-Law Stress Adaptation in Lung Tissue. Annals of Biomedical Engineering, 2007, 35, 1165-1174.	2.5	69
138	Exaggerated airway narrowing in mice treated with intratracheal cationic protein. Journal of Applied Physiology, 2006, 100, 500-506.	2.5	45
139	The Estimation of Lung Mechanics Parameters in the Presence of Pathology: A Theoretical Analysis. Annals of Biomedical Engineering, 2006, 34, 384-392.	2.5	60
140	Choosing the frequency of deep inflation in mice: balancing recruitment against ventilator-induced lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 291, L710-L717.	2.9	60
141	Airway hyperresponsiveness induced by cationic proteins in vivo: site of action. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2005, 289, L413-L418.	2.9	34
142	Pulmonary impedance and alveolar instability during injurious ventilation in rats. Journal of Applied Physiology, 2005, 99, 723-730.	2.5	63
143	Modeling the oscillation dynamics of activated airway smooth muscle strips. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2005, 289, L849-L855.	2.9	29
144	Tumor Necrosis Factorâ€“Î± Overexpression in Lung Disease. American Journal of Respiratory and Critical Care Medicine, 2005, 171, 1363-1370.	5.6	231

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145	The interface between measurement and modeling of peripheral lung mechanics. Respiratory Physiology and Neurobiology, 2005, 148, 153-164.	1.6	51
146	Dynamic mechanical consequences of deep inflation in mice depend on type and degree of lung injury. Journal of Applied Physiology, 2004, 96, 293-300.	2.5	71
147	The allergic mouse model of asthma: normal smooth muscle in an abnormal lung?. Journal of Applied Physiology, 2004, 96, 2019-2027.	2.5	201
148	The Use and Misuse of Penh in Animal Models of Lung Disease. American Journal of Respiratory Cell and Molecular Biology, 2004, 31, 373-374.	2.9	228
149	Time Course of Airway Mechanics of the (+)Insert Myosin Isoform Knockout Mouse. American Journal of Respiratory Cell and Molecular Biology, 2004, 30, 326-332.	2.9	26
150	Thoracic Gas Volume Measurements in Paralyzed Mice. Annals of Biomedical Engineering, 2004, 32, 1420-1427.	2.5	12
151	The "Goldilocks effect" in cystic fibrosis: identification of a lung phenotype in the cftr knockout and heterozygous mouse. BMC Genetics, 2004, 5, 21.	2.7	48
152	Mechanical properties of mouse distal lung: in vivo versus in vitro comparison. Respiratory Physiology and Neurobiology, 2004, 143, 77-86.	1.6	22
153	Oscillation mechanics of the human lung periphery in asthma. Journal of Applied Physiology, 2004, 97, 1849-1858.	2.5	58
154	Extravascular fibrin, plasminogen activator, plasminogen activator inhibitors, and airway hyperresponsiveness. Journal of Clinical Investigation, 2004, 114, 104-111.	8.2	91
155	Extravascular fibrin, plasminogen activator, plasminogen activator inhibitors, and airway hyperresponsiveness. Journal of Clinical Investigation, 2004, 114, 104-111.	8.2	148
156	Measuring the lung function in the mouse: the challenge of size. Respiratory Research, 2003, 4, 4.	3.6	320
157	Measuring lung function in mice: the phenotyping uncertainty principle. Journal of Applied Physiology, 2003, 94, 1297-1306.	2.5	190
158	Î±1-Antitrypsin Determines the Pattern of Emphysema and Function in Tobacco Smokeâ€“exposed Mice. American Journal of Respiratory and Critical Care Medicine, 2002, 166, 1596-1603.	5.6	109
159	A reevaluation of the validity of unrestrained plethysmography in mice. Journal of Applied Physiology, 2002, 93, 1198-1207.	2.5	235
160	Airway and tissue mechanics in a murine model of asthma: alveolar capsule vs. forced oscillations. Journal of Applied Physiology, 2002, 93, 263-270.	2.5	197
161	Time dependence of recruitment and derecruitment in the lung: a theoretical model. Journal of Applied Physiology, 2002, 93, 705-713.	2.5	1,217
162	Geometric determinants of airway resistance in two isomorphic rodent species. Respiratory Physiology and Neurobiology, 2002, 130, 317-325.	1.6	31

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163	Transient mechanical benefits of a deep inflation in the injured mouse lung. Journal of Applied Physiology, 2002, 93, 1709-1715.	2.5	58
164	Nonlinearity of respiratory mechanics during bronchoconstriction in mice with airway inflammation. Journal of Applied Physiology, 2002, 92, 1802-1807.	2.5	64
165	Mechanical output impedance of the lung determined from cardiogenic oscillations. Journal of Applied Physiology, 2001, 91, 859-865.	2.5	26
166	Effects of deep inspiration on bronchoconstriction in the rat. Respiration Physiology, 2001, 127, 201-215.	2.7	15
167	A Micromechanical Model of Airway-Parenchymal Interdependence. Annals of Biomedical Engineering, 2000, 28, 309-317.	2.5	13
168	Kinetics of respiratory system elastance after airway challenge in dogs. Journal of Applied Physiology, 2000, 89, 2023-2029.	2.5	17
169	Breathing responses to small inspiratory threshold loads in humans. Journal of Applied Physiology, 1999, 86, 874-880.	2.5	19
170	Current Patterns and Electrode Types for Single-Source Electrical Impedance Tomography of the Thorax. Annals of Biomedical Engineering, 1998, 26, 253-259.	2.5	13
171	Nonparametric Block-Structured Modeling of Lung Tissue Strip Mechanics. Annals of Biomedical Engineering, 1998, 26, 242-252.	2.5	38
172	A Micromechanical Model of Lung Tissue Rheology. Annals of Biomedical Engineering, 1998, 26, 679-687.	2.5	17
173	An Adaptive Filter to Reduce Cardiogenic Oscillations on Esophageal Pressure Signals. Annals of Biomedical Engineering, 1998, 26, 260-267.	2.5	23
174	Airway-parenchymal interdependence after airway contraction in rat lung explants. Journal of Applied Physiology, 1998, 85, 231-237.	2.5	41
175	Force heterogeneity in a two-dimensional network model of lung tissue elasticity. Journal of Applied Physiology, 1998, 85, 1223-1229.	2.5	46
176	Effect of time-varying load on degree of bronchoconstriction in the dog. Journal of Applied Physiology, 1998, 85, 1464-1470.	2.5	12
177	Electrical impedance tomography can monitor dynamic hyperinflation in dogs. Journal of Applied Physiology, 1998, 84, 726-732.	2.5	40
178	Effect of stochastic heterogeneity on lung impedance during acute bronchoconstriction: a model analysis. Journal of Applied Physiology, 1997, 82, 1616-1625.	2.5	122
179	Temporal dynamics of acute isovolume bronchoconstriction in the rat. Journal of Applied Physiology, 1997, 82, 55-62.	2.5	71
180	A model of the spontaneously breathing patient: applications to intrinsic PEEP and work of breathing. Journal of Applied Physiology, 1997, 82, 1694-1703.	2.5	23

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181	A distributed nonlinear model of lung tissue elasticity. Journal of Applied Physiology, 1997, 82, 32-41.	2.5	115