

Daniel Navajas

List of Publications by Year in descending order

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239
papers

37,647
citations

20797

60
h-index

2949

189
g-index

244
all docs

244
docs citations

244
times ranked

33177
citing authors

#	ARTICLE	IF	CITATIONS
1	Standardisation of spirometry. <i>European Respiratory Journal</i> , 2005, 26, 319-338.	3.1	12,939
2	Interpretative strategies for lung function tests. <i>European Respiratory Journal</i> , 2005, 26, 948-968.	3.1	4,712
3	Standardisation of the measurement of lung volumes. <i>European Respiratory Journal</i> , 2005, 26, 511-522.	3.1	2,253
4	Standardisation of the single-breath determination of carbon monoxide uptake in the lung. <i>European Respiratory Journal</i> , 2005, 26, 720-735.	3.1	1,925
5	General considerations for lung function testing. <i>European Respiratory Journal</i> , 2005, 26, 153-161.	3.1	1,661
6	Scaling the Microrheology of Living Cells. <i>Physical Review Letters</i> , 2001, 87, 148102.	2.9	1,056
7	Force Triggers YAP Nuclear Entry by Regulating Transport across Nuclear Pores. <i>Cell</i> , 2017, 171, 1397-1410.e14.	13.5	927
8	Microrheology of Human Lung Epithelial Cells Measured by Atomic Force Microscopy. <i>Biophysical Journal</i> , 2003, 84, 2071-2079.	0.2	630
9	Universal physical responses to stretch in the living cell. <i>Nature</i> , 2007, 447, 592-595.	13.7	626
10	Collective cell durotaxis emerges from long-range intercellular force transmission. <i>Science</i> , 2016, 353, 1157-1161.	6.0	484
11	Effectiveness of CPAP Treatment in Daytime Function in Sleep Apnea Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001, 164, 608-613.	2.5	320
12	Time scale and other invariants of integrative mechanical behavior in living cells. <i>Physical Review E</i> , 2003, 68, 041914.	0.8	317
13	Probing mechanical properties of living cells by atomic force microscopy with blunted pyramidal cantilever tips. <i>Physical Review E</i> , 2005, 72, 021914.	0.8	316
14	Alzheimer's Disease Mutant Mice Exhibit Reduced Brain Tissue Stiffness Compared to Wild-type Mice in both Normoxia and following Intermittent Hypoxia Mimicking Sleep Apnea. <i>Frontiers in Neurology</i> , 2018, 9, 1.	1.1	250
15	Force loading explains spatial sensing of ligands by cells. <i>Nature</i> , 2017, 552, 219-224.	13.7	244
16	Automatic control of tracheal tube cuff pressure in ventilated patients in semirecumbent position: A randomized trial*. <i>Critical Care Medicine</i> , 2007, 35, 1543-1549.	0.4	201
17	Intermittent hypoxia alters gut microbiota diversity in a mouse model of sleep apnoea. <i>European Respiratory Journal</i> , 2015, 45, 1055-1065.	3.1	199
18	Standardized Nanomechanical Atomic Force Microscopy Procedure (SNAP) for Measuring Soft and Biological Samples. <i>Scientific Reports</i> , 2017, 7, 5117.	1.6	195

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19	Intermittent hypoxia enhances cancer progression in a mouse model of sleep apnoea. <i>European Respiratory Journal</i> , 2012, 39, 215-217.	3.1	190
20	Micropatterning of Single Endothelial Cell Shape Reveals a Tight Coupling between Nuclear Volume in G1 and Proliferation. <i>Biophysical Journal</i> , 2008, 94, 4984-4995.	0.2	168
21	Past, present and future of atomic force microscopy in life sciences and medicine. <i>Journal of Molecular Recognition</i> , 2007, 20, 418-431.	1.1	165
22	Correction of Microrheological Measurements of Soft Samples with Atomic Force Microscopy for the Hydrodynamic Drag on the Cantilever. <i>Langmuir</i> , 2002, 18, 716-721.	1.6	161
23	Evaluation of nasal prongs for estimating nasal flow.. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1997, 155, 211-215.	2.5	159
24	Mechanical properties of cultured human airway smooth muscle cells from 0.05 to 0.4 Hz. <i>Journal of Applied Physiology</i> , 2000, 89, 1619-1632.	1.2	146
25	Intermittent hypoxia increases melanoma metastasis to the lung in a mouse model of sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , 2013, 186, 303-307.	0.7	143
26	Measurement of cell microrheology by magnetic twisting cytometry with frequency domain demodulation. <i>Journal of Applied Physiology</i> , 2001, 91, 1152-1159.	1.2	136
27	Viscoelasticity of human alveolar epithelial cells subjected to stretch. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 287, L1025-L1034.	1.3	132
28	Stability of Microfabricated High Aspect Ratio Structures in Poly(dimethylsiloxane). <i>Langmuir</i> , 2005, 21, 5542-5548.	1.6	132
29	The local microenvironment limits the regenerative potential of the mouse neonatal heart. <i>Science Advances</i> , 2018, 4, eaao5553.	4.7	124
30	Hydraulic fracture during epithelial stretching. <i>Nature Materials</i> , 2015, 14, 343-351.	13.3	122
31	Obesity and intermittent hypoxia increase tumor growth in a mouse model of sleep apnea. <i>Sleep Medicine</i> , 2012, 13, 1254-1260.	0.8	117
32	Vascular Smooth Muscle Cell Phenotypic Changes in Patients With Marfan Syndrome. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 960-972.	1.1	116
33	Accuracy of thermistors and thermocouples as flow-measuring devices for detecting hypopnoeas. <i>European Respiratory Journal</i> , 1998, 11, 179-182.	3.1	115
34	Response of Automatic Continuous Positive Airway Pressure Devices to Different Sleep Breathing Patterns. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 166, 469-473.	2.5	106
35	Electroencephalographic slowing heralds mild cognitive impairment in idiopathic REM sleep behavior disorder. <i>Sleep Medicine</i> , 2010, 11, 534-539.	0.8	97
36	Tissue Oxygenation in Brain, Muscle, and Fat in a Rat Model of Sleep Apnea: Differential Effect of Obstructive Apneas and Intermittent Hypoxia. <i>Sleep</i> , 2011, 34, 1127-1133.	0.6	93

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37	Snail1-Expressing Fibroblasts in the Tumor Microenvironment Display Mechanical Properties That Support Metastasis. <i>Cancer Research</i> , 2015, 75, 284-295.	0.4	92
38	Physical principles of membrane remodelling during cell mechanoadaptation. <i>Nature Communications</i> , 2015, 6, 7292.	5.8	91
39	Probing Micromechanical Properties of the Extracellular Matrix of Soft Tissues by Atomic Force Microscopy. <i>Journal of Cellular Physiology</i> , 2017, 232, 19-26.	2.0	91
40	Noninvasive monitoring of respiratory mechanics during sleep. <i>European Respiratory Journal</i> , 2004, 24, 1052-1060.	3.1	88
41	A comprehensive evaluation of popular proteomics software workflows for label-free proteome quantification and imputation. <i>Briefings in Bioinformatics</i> , 2018, 19, 1344-1355.	3.2	88
42	Assessment of Airflow Obstruction during CPAP by Means of Forced Oscillation in Patients with Sleep Apnea. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1998, 157, 1526-1530.	2.5	85
43	Cytoskeletal mechanics in adherent human airway smooth muscle cells: probe specificity and scaling of protein-protein dynamics. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C643-C654.	2.1	85
44	Rheology of Passive and Adhesion-Activated Neutrophils Probed by Atomic Force Microscopy. <i>Biophysical Journal</i> , 2006, 91, 3508-3518.	0.2	85
45	Effects of freezing/thawing on the mechanical properties of decellularized lungs. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 413-419.	2.1	85
46	Lung tissue rheology and 1/f noise. <i>Annals of Biomedical Engineering</i> , 1994, 22, 674-681.	1.3	82
47	Mechanobiology in Lung Epithelial Cells: Measurements, Perturbations, and Responses. , 2012, 2, 1-29.		82
48	Vibration Enhances Interleukin-8 Release in a Cell Model of Snoring-Induced Airway Inflammation. <i>Sleep</i> , 2005, 28, 1312-1316.	0.6	79
49	Respiratory input impedance in anesthetized paralyzed patients. <i>Journal of Applied Physiology</i> , 1990, 69, 1372-1379.	1.2	78
50	Sham continuous positive airway pressure for placebo-controlled studies in sleep apnoea. <i>Lancet</i> , The, 1999, 353, 1154.	6.3	77
51	Performance of Nasal Prongs in Sleep Studies. <i>Chest</i> , 2001, 119, 442-450.	0.4	77
52	Local micromechanical properties of decellularized lung scaffolds measured with atomic force microscopy. <i>Acta Biomaterialia</i> , 2013, 9, 6852-6859.	4.1	77
53	Noninvasive detection of expiratory flow limitation in COPD patients during nasal CPAP. <i>European Respiratory Journal</i> , 2006, 27, 983-991.	3.1	75
54	Rat Model of Chronic Recurrent Airway Obstructions to Study the Sleep Apnea Syndrome. <i>Sleep</i> , 2007, 30, 930-933.	0.6	74

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55	Mapping Cell-Matrix Stresses during Stretch Reveals Inelastic Reorganization of the Cytoskeleton. <i>Biophysical Journal</i> , 2008, 95, 464-471.	0.2	70
56	Effect of body posture on respiratory impedance. <i>Journal of Applied Physiology</i> , 1988, 64, 194-199.	1.2	69
57	Upper-Airway Inflammation Triggered by Vibration in a Rat Model of Snoring. <i>Sleep</i> , 2007, 30, 225-227.	0.6	67
58	Dynamic viscoelastic nonlinearity of lung parenchymal tissue. <i>Journal of Applied Physiology</i> , 1995, 79, 348-356.	1.2	66
59	Relevance of Linearizing Nasal Prongs for Assessing Hypopneas and Flow Limitation During Sleep. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001, 163, 494-497.	2.5	64
60	The temperature dependence of cell mechanics measured by atomic force microscopy. <i>Physical Biology</i> , 2009, 6, 025009.	0.8	64
61	Bidirectional mechanobiology between cells and their local extracellular matrix probed by atomic force microscopy. <i>Seminars in Cell and Developmental Biology</i> , 2018, 73, 71-81.	2.3	63
62	Automatic regulation of the cuff pressure in endotracheally-intubated patients. <i>European Respiratory Journal</i> , 2002, 20, 1010-1013.	3.1	62
63	Male Fertility Is Reduced by Chronic Intermittent Hypoxia Mimicking Sleep Apnea in Mice. <i>Sleep</i> , 2014, 37, 1757-1765.	0.6	61
64	Inspiratory dynamic obstruction detected by forced oscillation during CPAP. A model study.. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1997, 155, 952-956.	2.5	60
65	Importance of the Pulse Oximeter Averaging Time When Measuring Oxygen Desaturation in Sleep Apnea. <i>Sleep</i> , 1998, 21, 386-390.	0.6	60
66	Bench Model To Simulate Upper Airway Obstruction for Analyzing Automatic Continuous Positive Airway Pressure Devices. <i>Chest</i> , 2006, 130, 350-361.	0.4	60
67	Nasal prongs in the detection of sleep-related disordered breathing in the sleep apnoea/hypopnoea syndrome. <i>European Respiratory Journal</i> , 1998, 11, 880-883.	3.1	59
68	Thrombin and histamine induce stiffening of alveolar epithelial cells. <i>Journal of Applied Physiology</i> , 2005, 98, 1567-1574.	1.2	59
69	Low-cost, easy-to-build noninvasive pressure support ventilator for under-resourced regions: open source hardware description, performance and feasibility testing. <i>European Respiratory Journal</i> , 2020, 55, 2000846.	3.1	58
70	Ventilation-Perfusion Mismatch after Methacholine Challenge in Patients with Mild Bronchial Asthma. <i>The American Review of Respiratory Disease</i> , 1991, 144, 88-94.	2.9	57
71	Differential Oxygenation in Tumor Microenvironment Modulates Macrophage and Cancer Cell Crosstalk: Novel Experimental Setting and Proof of Concept. <i>Frontiers in Oncology</i> , 2019, 9, 43.	1.3	56
72	A system to generate simultaneous forced oscillation and continuous positive airway pressure. <i>European Respiratory Journal</i> , 1997, 10, 1349-1353.	3.1	55

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73	Forced oscillation technique for the evaluation of severe sleep apnoea/hypopnoea syndrome: a pilot study. <i>European Respiratory Journal</i> , 1998, 11, 1128-1134.	3.1	52
74	Clinical Application of the Forced Oscillation Technique for CPAP Titration in the Sleep Apnea/Hypopnea Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1999, 160, 1550-1554.	2.5	51
75	Effects of the Decellularization Method on the Local Stiffness of Acellular Lungs. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 412-422.	1.1	51
76	Heterogeneous micromechanical properties of the extracellular matrix in healthy and infarcted hearts. <i>Acta Biomaterialia</i> , 2014, 10, 3235-3242.	4.1	51
77	Fibroblast viability and phenotypic changes within glycated stiffened three-dimensional collagen matrices. <i>Respiratory Research</i> , 2015, 16, 82.	1.4	51
78	Proteomics Analysis of Extracellular Matrix Remodeling During Zebrafish Heart Regeneration. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 1745-1755.	2.5	51
79	Upper airway collapse and reopening induce inflammation in a sleep apnoea model. <i>European Respiratory Journal</i> , 2008, 32, 399-404.	3.1	50
80	Inhomogeneity of local stiffness in the extracellular matrix scaffold of fibrotic mouse lungs. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 37, 186-195.	1.5	50
81	Collapsible upper airway segment to study the obstructive sleep apnea/hypopnea syndrome in rats. <i>Respiratory Physiology and Neurobiology</i> , 2003, 136, 199-209.	0.7	49
82	Nonlinear elasticity of the lung extracellular microenvironment is regulated by macroscale tissue strain. <i>Acta Biomaterialia</i> , 2019, 92, 265-276.	4.1	49
83	Intermittent Hypoxia Severity in Animal Models of Sleep Apnea. <i>Frontiers in Physiology</i> , 2018, 9, 1556.	1.3	47
84	Performance of mechanical ventilators at the patient's home: a multicentre quality control study. <i>Thorax</i> , 2006, 61, 400-404.	2.7	46
85	Pre-treatment with mesenchymal stem cells reduces ventilator-induced lung injury. <i>European Respiratory Journal</i> , 2012, 40, 939-948.	3.1	45
86	Head-to-head comparison of two engineered cardiac grafts for myocardial repair: From scaffold characterization to pre-clinical testing. <i>Scientific Reports</i> , 2018, 8, 6708.	1.6	45
87	A New mHealth application to support treatment of sleep apnoea patients. <i>Journal of Telemedicine and Telecare</i> , 2017, 23, 14-18.	1.4	43
88	Effects of Sustained and Intermittent Hypoxia on Human Lung Cancer Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 61, 540-544.	1.4	43
89	A Novel Chip for Cyclic Stretch and Intermittent Hypoxia Cell Exposures Mimicking Obstructive Sleep Apnea. <i>Frontiers in Physiology</i> , 2016, 7, 319.	1.3	42
90	Thrombin-induced contraction in alveolar epithelial cells probed by traction microscopy. <i>Journal of Applied Physiology</i> , 2006, 101, 512-520.	1.2	41

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91	Telemedicine-Based Approach for Obstructive Sleep Apnea Management: Building Evidence. <i>Interactive Journal of Medical Research</i> , 2014, 3, e6.	0.6	41
92	Cell dynamic adhesion and elastic properties probed with cylindrical atomic force microscopy cantilever tips. <i>Journal of Molecular Recognition</i> , 2007, 20, 459-466.	1.1	40
93	Definition of COPD: based on evidence or opinion?. <i>European Respiratory Journal</i> , 2008, 31, 681-682.	3.1	40
94	Servocontrolled generator to measure respiratory impedance from 0.25 to 26 Hz in ventilated patients at different PEEP levels. <i>European Respiratory Journal</i> , 1995, 8, 1222-1227.	3.1	39
95	Biological consequences of oxygen desaturation and respiratory effort in an acute animal model of obstructive sleep apnea (OSA). <i>Sleep Medicine</i> , 2009, 10, 892-897.	0.8	39
96	Role of Cyclooxygenase-2 on Intermittent Hypoxia-Induced Lung Tumor Malignancy in a Mouse Model of Sleep Apnea. <i>Scientific Reports</i> , 2017, 7, 44693.	1.6	38
97	Leaves of isoprene-emitting tobacco plants maintain PSII stability at high temperatures. <i>New Phytologist</i> , 2019, 223, 1307-1318.	3.5	38
98	In vitro comparative study of two decellularization protocols in search of an optimal myocardial scaffold for recellularization. <i>American Journal of Translational Research (discontinued)</i> , 2015, 7, 558-73.	0.0	37
99	Respiratory mechanics in ventilated COPD patients: forced oscillation versus occlusion techniques. <i>European Respiratory Journal</i> , 1998, 12, 170-176.	3.1	36
100	Rapid detection of sepsis in rats through volatile organic compounds in breath. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 881-882, 76-82.	1.2	36
101	A correction procedure for the asymmetry of differential pressure transducers in respiratory impedance measurements. <i>IEEE Transactions on Biomedical Engineering</i> , 1989, 36, 1137-1140.	2.5	35
102	Human respiratory impedance from 8 to 256 Hz corrected for upper airway shunt. <i>Journal of Applied Physiology</i> , 1989, 67, 1973-1981.	1.2	34
103	Mechanical properties of mouse lungs along organ decellularization by sodium dodecyl sulfate. <i>Respiratory Physiology and Neurobiology</i> , 2014, 200, 1-5.	0.7	34
104	Gas Partial Pressure in Cultured Cells: Patho-Physiological Importance and Methodological Approaches. <i>Frontiers in Physiology</i> , 2018, 9, 1803.	1.3	34
105	Morbidity due to obstructive sleep apnea: insights from animal models. <i>Current Opinion in Pulmonary Medicine</i> , 2008, 14, 530-536.	1.2	33
106	Changes in oxygen partial pressure of brain tissue in an animal model of obstructive apnea. <i>Respiratory Research</i> , 2010, 11, 3.	1.4	33
107	Silk-Reinforced Collagen Hydrogels with Raised Multiscale Stiffness for Mesenchymal Cells 3D Culture. <i>Tissue Engineering - Part A</i> , 2020, 26, 358-370.	1.6	33
108	Noninvasive assessment of respiratory resistance in severe chronic respiratory patients with nasal CPAP. <i>European Respiratory Journal</i> , 2000, 15, 314.	3.1	32

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109	Telemetric CPAP titration at home in patients with sleep apnea—hypopnea syndrome. <i>Sleep Medicine</i> , 2011, 12, 153-157.	0.8	32
110	Intermittent Hypoxia Mimicking Sleep Apnea Increases Passive Stiffness of Myocardial Extracellular Matrix. A Multiscale Study. <i>Frontiers in Physiology</i> , 2018, 9, 1143.	1.3	32
111	Obstructive apneas induce early release of mesenchymal stem cells into circulating blood. <i>Sleep</i> , 2009, 32, 117-9.	0.6	32
112	Oscillatory Resistance Measured during Noninvasive Proportional Assist Ventilation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001, 164, 790-794.	2.5	31
113	Integrin-Specific Mechanoresponses to Compression and Extension Probed by Cylindrical Flat-Ended AFM Tips in Lung Cells. <i>PLoS ONE</i> , 2012, 7, e32261.	1.1	31
114	Mechanical properties of acellular mouse lungs after sterilization by gamma irradiation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 40, 168-177.	1.5	31
115	Finite element simulation for the mechanical characterization of soft biological materials by atomic force microscopy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 62, 222-235.	1.5	31
116	Effect of expiratory flow limitation on respiratory mechanical impedance: a model study. <i>Journal of Applied Physiology</i> , 1996, 81, 2399-2406.	1.2	30
117	Effects of Halothane and Isoflurane on Ventilation and Occlusion Pressure. <i>Anesthesiology</i> , 1994, 81, 563-571.	1.3	29
118	Forced oscillation assessment of respiratory mechanics in ventilated patients. <i>Critical Care</i> , 2001, 5, 3.	2.5	29
119	Development of a Three-Dimensional Bone-Like Construct in a Soft Self-Assembling Peptide Matrix. <i>Tissue Engineering - Part A</i> , 2013, 19, 870-881.	1.6	29
120	Brain Tissue Hypoxia and Oxidative Stress Induced by Obstructive Apneas is Different in Young and Aged Rats. <i>Sleep</i> , 2014, 37, 1249-1256.	0.6	29
121	Continuous Positive Airway Pressure (CPAP) Induces Early Nasal Inflammation. <i>Sleep</i> , 2008, 31, 127-131.	0.6	28
122	Pressure- and flow-controlled media perfusion differently modify vascular mechanics in lung decellularization. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 49, 69-79.	1.5	28
123	Polarized cortical tension drives zebrafish epiboly movements. <i>EMBO Journal</i> , 2017, 36, 25-41.	3.5	28
124	Forced oscillation total respiratory resistance and spontaneous breathing lung resistance in COPD patients. <i>European Respiratory Journal</i> , 1999, 14, 172.	3.1	28
125	Evaluation of a simplified oscillation technique for assessing airway obstruction in sleep apnoea. <i>European Respiratory Journal</i> , 2001, 17, 456-461.	3.1	27
126	Effect of stretch on structural integrity and micromechanics of human alveolar epithelial cell monolayers exposed to thrombin. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006, 290, L1104-L1110.	1.3	27

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127	First-in-human PeriCord cardiac bioimplant: Scalability and GMP manufacturing of an allogeneic engineered tissue graft. <i>EBioMedicine</i> , 2020, 54, 102729.	2.7	27
128	Assessment of bronchial reactivity by forced oscillation admittance avoids the upper airway artefact. <i>European Respiratory Journal</i> , 1999, 13, 761.	3.1	27
129	Elastic properties of hydrogels and decellularized tissue sections used in mechanobiology studies probed by atomic force microscopy. <i>Microscopy Research and Technique</i> , 2017, 80, 85-96.	1.2	26
130	Bioprintable Lung Extracellular Matrix Hydrogel Scaffolds for 3D Culture of Mesenchymal Stromal Cells. <i>Polymers</i> , 2021, 13, 2350.	2.0	26
131	Static and Dynamic Upper Airway Obstruction in Sleep Apnea. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2003, 168, 659-663.	2.5	25
132	Low oxygen tension enhances the generation of lung progenitor cells from mouse embryonic and induced pluripotent stem cells. <i>Physiological Reports</i> , 2014, 2, e12075.	0.7	25
133	Bioprinting Decellularized Breast Tissue for the Development of Three-Dimensional Breast Cancer Models. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29467-29482.	4.0	25
134	A new estimator to minimize the error due to breathing in the measurement of respiratory impedance. <i>IEEE Transactions on Biomedical Engineering</i> , 1988, 35, 1001-1005.	2.5	24
135	A portable forced oscillation device for respiratory home monitoring. <i>European Respiratory Journal</i> , 2002, 19, 146-150.	3.1	24
136	Early and mid-term effects of obstructive apneas in myocardial injury and inflammation. <i>Sleep Medicine</i> , 2011, 12, 1037-1040.	0.8	24
137	Flow-dependent Positive Airway Pressure to Maintain Airway Patency in Sleep Apnea—Hypopnea Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1998, 157, 1855-1863.	2.5	23
138	Quality control of mechanical ventilation at the patient's home. <i>Intensive Care Medicine</i> , 2003, 29, 484-486.	3.9	23
139	Obstructive apneas induce early activation of mesenchymal stem cells and enhancement of endothelial wound healing. <i>Respiratory Research</i> , 2010, 11, 91.	1.4	22
140	Barrier-Protective Effects of Activated Protein C in Human Alveolar Epithelial Cells. <i>PLoS ONE</i> , 2013, 8, e56965.	1.1	22
141	Frequency and magnitude of intermittent hypoxia modulate endothelial wound healing in a cell culture model of sleep apnea. <i>Journal of Applied Physiology</i> , 2017, 123, 1047-1054.	1.2	22
142	Oscillometric assessment of airway obstruction in a mechanical model of vocal cord dysfunction. <i>Journal of Biomechanics</i> , 2004, 37, 37-43.	0.9	21
143	Animal model of unilateral ventilator-induced lung injury. <i>Intensive Care Medicine</i> , 2005, 31, 487-490.	3.9	21
144	Mesenchymal stem cells reduce inflammation in a rat model of obstructive sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , 2010, 172, 210-212.	0.7	21

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145	Aging Reduces Intermittent Hypoxia-induced Lung Carcinoma Growth in a Mouse Model of Sleep Apnea. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 1234-1236.	2.5	21
146	Early Impairment of Lung Mechanics in a Murine Model of Marfan Syndrome. <i>PLoS ONE</i> , 2016, 11, e0152124.	1.1	21
147	Forced oscillation measurements do not affect upper airway muscle tone or sleep in clinical studies. <i>European Respiratory Journal</i> , 2001, 18, 335-339.	3.1	19
148	Unsupervised self-testing of airway obstruction by forced oscillation at the patient's home. <i>European Respiratory Journal</i> , 2003, 22, 668-671.	3.1	19
149	Thermal activation and ATP dependence of the cytoskeleton remodeling dynamics. <i>Physical Review E</i> , 2009, 79, 051920.	0.8	19
150	Lung bioengineering: physical stimuli and stem/progenitor cell biology interplay towards biofabricating a functional organ. <i>Respiratory Research</i> , 2016, 17, 161.	1.4	19
151	Is Telemedicine a Key Tool for Improving Continuous Positive Airway Pressure Adherence in Patients with Sleep Apnea?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 12-14.	2.5	19
152	Analysis of the dynamic characteristics of pressure transducers for studying respiratory mechanics at high frequencies. <i>Medical and Biological Engineering and Computing</i> , 1989, 27, 531-537.	1.6	18
153	Assessment of upper airway mechanics during sleep. <i>Respiratory Physiology and Neurobiology</i> , 2008, 163, 74-81.	0.7	18
154	Potential Role of Adult Stem Cells in Obstructive Sleep Apnea. <i>Frontiers in Neurology</i> , 2012, 3, 112.	1.1	18
155	Evaluation of a method for assessing respiratory mechanics during noninvasive ventilation. <i>European Respiratory Journal</i> , 2000, 16, 704.	3.1	18
156	Density dependence of respiratory input and transfer impedances in humans. <i>Journal of Applied Physiology</i> , 1988, 65, 928-933.	1.2	17
157	Human lung impedance from spontaneous breathing frequencies to 32 Hz. <i>Journal of Applied Physiology</i> , 1994, 76, 1176-1183.	1.2	17
158	Comparative assessment of several automatic CPAP devices' responses: a bench test study. <i>ERJ Open Research</i> , 2015, 1, 00031-2015.	1.1	17
159	Baseline Stiffness Modulates the Non-Linear Response to Stretch of the Extracellular Matrix in Pulmonary Fibrosis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12928.	1.8	17
160	Time-domain digital filter to improve signal-to-noise ratio in respiratory impedance measurements. <i>Medical and Biological Engineering and Computing</i> , 1991, 29, 18-24.	1.6	16
161	Analog circuit for real-time computation of respiratory mechanical impedance in sleep studies. <i>IEEE Transactions on Biomedical Engineering</i> , 1997, 44, 1156-1159.	2.5	16
162	Obstructive Apneas Induce Early Release of Mesenchymal Stem Cells into Circulating Blood. <i>Sleep</i> , 2009, , .	0.6	16

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