

Ramon Farr Ventura

List of Publications by Citations

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

280
papers

9,345
citations

52
h-index

83
g-index

334
ext. papers

11,277
ext. citations

5.8
avg, IF

5.97
L-index

#	Paper	IF	Citations
280	Microrheology of human lung epithelial cells measured by atomic force microscopy. <i>Biophysical Journal</i> , 2003 , 84, 2071-9	2.9	540
279	Sleep-disordered breathing and cancer mortality: results from the Wisconsin Sleep Cohort Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012 , 186, 190-4	10.2	287
278	Effectiveness of CPAP treatment in daytime function in sleep apnea syndrome: a randomized controlled study with an optimized placebo. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001 , 164, 608-13	10.2	267
277	Association between obstructive sleep apnea and cancer incidence in a large multicenter Spanish cohort. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013 , 187, 99-105	10.2	259
276	Probing mechanical properties of living cells by atomic force microscopy with blunted pyramidal cantilever tips. <i>Physical Review E</i> , 2005 , 72, 021914	2.4	250
275	Chronic Sleep Disruption Alters Gut Microbiota, Induces Systemic and Adipose Tissue Inflammation and Insulin Resistance in Mice. <i>Scientific Reports</i> , 2016 , 6, 35405	4.9	191
274	Automatic control of tracheal tube cuff pressure in ventilated patients in semirecumbent position: a randomized trial. <i>Critical Care Medicine</i> , 2007 , 35, 1543-9	1.4	167
273	Micropatterning of single endothelial cell shape reveals a tight coupling between nuclear volume in G1 and proliferation. <i>Biophysical Journal</i> , 2008 , 94, 4984-95	2.9	155
272	Intermittent hypoxia enhances cancer progression in a mouse model of sleep apnoea. <i>European Respiratory Journal</i> , 2012 , 39, 215-7	13.6	148
271	Evaluation of nasal prongs for estimating nasal flow. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1997 , 155, 211-5	10.2	134
270	Intermittent hypoxia-induced changes in tumor-associated macrophages and tumor malignancy in a mouse model of sleep apnea. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014 , 189, 593-601 ²	10.2	132
269	Intermittent hypoxia alters gut microbiota diversity in a mouse model of sleep apnoea. <i>European Respiratory Journal</i> , 2015 , 45, 1055-65	13.6	129
268	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	4.1	124
267	Stability of microfabricated high aspect ratio structures in poly(dimethylsiloxane). <i>Langmuir</i> , 2005 , 21, 5542-8	4	122
266	Oscillation mechanics of the respiratory system. <i>Comprehensive Physiology</i> , 2011 , 1, 1233-72	7.7	113
265	Viscoelasticity of human alveolar epithelial cells subjected to stretch. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004 , 287, L1025-34	5.8	110
264	Intermittent hypoxia increases melanoma metastasis to the lung in a mouse model of sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , 2013 , 186, 303-7	2.8	106

263	Obstructive sleep apnea is associated with cancer mortality in younger patients. <i>Sleep Medicine</i> , 2014 , 15, 742-8	4.6	102
262	Technical standards for respiratory oscillometry. <i>European Respiratory Journal</i> , 2020 , 55,	13.6	96
261	Obesity and intermittent hypoxia increase tumor growth in a mouse model of sleep apnea. <i>Sleep Medicine</i> , 2012 , 13, 1254-60	4.6	92
260	Response of automatic continuous positive airway pressure devices to different sleep breathing patterns: a bench study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002 , 166, 469-73	10.2	91
259	Challenges and perspectives in obstructive sleep apnoea: Report by an working group of the Sleep Disordered Breathing Group of the European Respiratory Society and the European Sleep Research Society. <i>European Respiratory Journal</i> , 2018 , 52,	13.6	91
258	Electroencephalographic slowing heralds mild cognitive impairment in idiopathic REM sleep behavior disorder. <i>Sleep Medicine</i> , 2010 , 11, 534-9	4.6	81
257	Accuracy of thermistors and thermocouples as flow-measuring devices for detecting hypopnoeas. <i>European Respiratory Journal</i> , 1998 , 11, 179-82	13.6	81
256	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, 1127-33	1.1	80
255	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, 1526-30	10.2	77
254	Noninvasive monitoring of respiratory mechanics during sleep. <i>European Respiratory Journal</i> , 2004 , 24, 1052-60	13.6	75
253	Vibration enhances interleukin-8 release in a cell model of snoring-induced airway inflammation. <i>Sleep</i> , 2005 , 28, 1312-6	1.1	73
252	Association between sleep disordered breathing and aggressiveness markers of malignant cutaneous melanoma. <i>European Respiratory Journal</i> , 2014 , 43, 1661-8	13.6	72
251	Rheology of passive and adhesion-activated neutrophils probed by atomic force microscopy. <i>Biophysical Journal</i> , 2006 , 91, 3508-18	2.9	72
250	Obstructive sleep apnea and cancer: Epidemiologic links and theoretical biological constructs. <i>Sleep Medicine Reviews</i> , 2016 , 27, 43-55	10.2	71
249	Telemonitoring in Chronic Obstructive Pulmonary Disease (CHROMED). A Randomized Clinical Trial. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 198, 620-628	10.2	70
248	A Bayesian cost-effectiveness analysis of a telemedicine-based strategy for the management of sleep apnoea: a multicentre randomised controlled trial. <i>Thorax</i> , 2015 , 70, 1054-61	7.3	70
247	Effect of CPAP on Cognition, Brain Function, and Structure Among Elderly Patients With OSA: A Randomized Pilot Study. <i>Chest</i> , 2015 , 148, 1214-1223	5.3	68
246	Recurrent obstructive apneas trigger early systemic inflammation in a rat model of sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , 2007 , 155, 93-6	2.8	68

245	Effects of freezing/thawing on the mechanical properties of decellularized lungs. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 413-9	5.4	67
244	Respiratory input impedance in anesthetized paralyzed patients. <i>Journal of Applied Physiology</i> , 1990 , 69, 1372-9	3.7	67
243	Performance of nasal prongs in sleep studies : spectrum of flow-related events. <i>Chest</i> , 2001 , 119, 442-50	5.3	66
242	Probing Micromechanical Properties of the Extracellular Matrix of Soft Tissues by Atomic Force Microscopy. <i>Journal of Cellular Physiology</i> , 2017 , 232, 19-26	7	63
241	Sham continuous positive airway pressure for placebo-controlled studies in sleep apnoea. <i>Lancet, The</i> , 1999 , 353, 1154	4.0	63
240	Effect of body posture on respiratory impedance. <i>Journal of Applied Physiology</i> , 1988 , 64, 194-9	3.7	63
239	Mapping cell-matrix stresses during stretch reveals inelastic reorganization of the cytoskeleton. <i>Biophysical Journal</i> , 2008 , 95, 464-71	2.9	61
238	Noninvasive detection of expiratory flow limitation in COPD patients during nasal CPAP. <i>European Respiratory Journal</i> , 2006 , 27, 983-91	13.6	61
237	Hypoxia-induced PD-L1/PD-1 crosstalk impairs T-cell function in sleep apnoea. <i>European Respiratory Journal</i> , 2017 , 50,	13.6	58
236	Upper-airway inflammation triggered by vibration in a rat model of snoring. <i>Sleep</i> , 2007 , 30, 225-7	1.1	57
235	Local micromechanical properties of decellularized lung scaffolds measured with atomic force microscopy. <i>Acta Biomaterialia</i> , 2013 , 9, 6852-9	10.8	56
234	Rat model of chronic recurrent airway obstructions to study the sleep apnea syndrome. <i>Sleep</i> , 2007 , 30, 930-3	1.1	56
233	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, 494-7	10.2	56
232	Inspiratory dynamic obstruction detected by forced oscillation during CPAP. A model study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1997 , 155, 952-6	10.2	54
231	Thrombin and histamine induce stiffening of alveolar epithelial cells. <i>Journal of Applied Physiology</i> , 2005 , 98, 1567-74	3.7	54
230	Importance of the pulse oximeter averaging time when measuring oxygen desaturation in sleep apnea. <i>Sleep</i> , 1998 , 21, 386-90	1.1	54
229	Automatic regulation of the cuff pressure in endotracheally-intubated patients. <i>European Respiratory Journal</i> , 2002 , 20, 1010-3	13.6	50
228	Normoxic Recovery Mimicking Treatment of Sleep Apnea Does Not Reverse Intermittent Hypoxia-Induced Bacterial Dysbiosis and Low-Grade Endotoxemia in Mice. <i>Sleep</i> , 2016 , 39, 1891-1897	1.1	49

227	Adipose tissue macrophage polarization by intermittent hypoxia in a mouse model of OSA: effect of tumor microenvironment. <i>Cancer Letters</i> , 2015 , 361, 233-9	9.9	48
226	Bench model to simulate upper airway obstruction for analyzing automatic continuous positive airway pressure devices. <i>Chest</i> , 2006 , 130, 350-61	5.3	48
225	Intermittent Hypoxia-Induced Cardiovascular Remodeling Is Reversed by Normoxia in a Mouse Model of Sleep Apnea. <i>Chest</i> , 2016 , 149, 1400-8	5.3	47
224	Nasal prongs in the detection of sleep-related disordered breathing in the sleep apnoea/hypopnoea syndrome. <i>European Respiratory Journal</i> , 1998 , 11, 880-3	13.6	47
223	Putative Links Between Sleep Apnea and Cancer: From Hypotheses to Evolving Evidence. <i>Chest</i> , 2015 , 148, 1140-1147	5.3	46
222	Management of sleep apnea without high pretest probability or with comorbidities by three nights of portable sleep monitoring. <i>Sleep</i> , 2014 , 37, 1363-73	1.1	45
221	Positive pressure therapy: a perspective on evidence-based outcomes and methods of application. <i>Proceedings of the American Thoracic Society</i> , 2008 , 5, 161-72		45
220	Circulating exosomes potentiate tumor malignant properties in a mouse model of chronic sleep fragmentation. <i>Oncotarget</i> , 2016 , 7, 54676-54690	3.3	45
219	Effects of the decellularization method on the local stiffness of acellular lungs. <i>Tissue Engineering - Part C: Methods</i> , 2014 , 20, 412-22	2.9	44
218	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, 186-95	4.1	43
217	Oxygen diffusion and consumption in extracellular matrix gels: implications for designing three-dimensional cultures. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 2776-84	5.4	41
216	Male fertility is reduced by chronic intermittent hypoxia mimicking sleep apnea in mice. <i>Sleep</i> , 2014 , 37, 1757-65	1.1	41
215	An in vitro study to assess determinant features associated with fluid sealing in the design of endotracheal tube cuffs and exerted tracheal pressures. <i>Critical Care Medicine</i> , 2013 , 41, 518-26	1.4	41
214	A system to generate simultaneous forced oscillation and continuous positive airway pressure. <i>European Respiratory Journal</i> , 1997 , 10, 1349-53	13.6	41
213	Tumor Cell Malignant Properties Are Enhanced by Circulating Exosomes in Sleep Apnea. <i>Chest</i> , 2016 , 150, 1030-1041	5.3	40
212	Pre-treatment with mesenchymal stem cells reduces ventilator-induced lung injury. <i>European Respiratory Journal</i> , 2012 , 40, 939-48	13.6	40
211	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, 1550-4	10.2	40
210	Sleep-Disordered Breathing Is Independently Associated With Increased Aggressiveness of Cutaneous Melanoma: A Multicenter Observational Study in 443 Patients. <i>Chest</i> , 2018 , 154, 1348-1358	5.3	40

209	Heterogeneous micromechanical properties of the extracellular matrix in healthy and infarcted hearts. <i>Acta Biomaterialia</i> , 2014 , 10, 3235-42	10.8	38
208	Upper airway collapse and reopening induce inflammation in a sleep apnoea model. <i>European Respiratory Journal</i> , 2008 , 32, 399-404	13.6	38
207	Atrial fibrosis in a chronic murine model of obstructive sleep apnea: mechanisms and prevention by mesenchymal stem cells. <i>Respiratory Research</i> , 2014 , 15, 54	7.3	37
206	Collapsible upper airway segment to study the obstructive sleep apnea/hypopnea syndrome in rats. <i>Respiratory Physiology and Neurobiology</i> , 2003 , 136, 199-209	2.8	37
205	Challenges in obstructive sleep apnoea. <i>Lancet Respiratory Medicine</i> , 2018 , 6, 170-172	35.1	35
204	Cell dynamic adhesion and elastic properties probed with cylindrical atomic force microscopy cantilever tips. <i>Journal of Molecular Recognition</i> , 2007 , 20, 459-66	2.6	35
203	Thrombin-induced contraction in alveolar epithelial cells probed by traction microscopy. <i>Journal of Applied Physiology</i> , 2006 , 101, 512-20	3.7	35
202	Biological consequences of oxygen desaturation and respiratory effort in an acute animal model of obstructive sleep apnea (OSA). <i>Sleep Medicine</i> , 2009 , 10, 892-7	4.6	34
201	Forced oscillation technique for the evaluation of severe sleep apnoea/hypopnoea syndrome: a pilot study. <i>European Respiratory Journal</i> , 1998 , 11, 1128-34	13.6	34
200	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	3	33
199	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	4.9	32
198	A Novel Chip for Cyclic Stretch and Intermittent Hypoxia Cell Exposures Mimicking Obstructive Sleep Apnea. <i>Frontiers in Physiology</i> , 2016 , 7, 319	4.6	32
197	Obstructive apneas induce early release of mesenchymal stem cells into circulating blood. <i>Sleep</i> , 2009 , 32, 117-9	1.1	31
196	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	4.9	30
195	Sleep Apnea Morbidity: A Consequence of Microbial-Immune Cross-Talk?. <i>Chest</i> , 2018 , 154, 754-759	5.3	30
194	Exosomes and Metabolic Function in Mice Exposed to Alternating Dark-Light Cycles Mimicking Night Shift Work Schedules. <i>Frontiers in Physiology</i> , 2017 , 8, 882	4.6	30
193	Changes in oxygen partial pressure of brain tissue in an animal model of obstructive apnea. <i>Respiratory Research</i> , 2010 , 11, 3	7.3	30
192	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, 1222-7	13.6	30

191	Human respiratory impedance from 8 to 256 Hz corrected for upper airway shunt. <i>Journal of Applied Physiology</i> , 1989 , 67, 1973-81	3.7	30
190	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	5.3	30
189	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,	13.6	29
188	Mechanical properties of mouse lungs along organ decellularization by sodium dodecyl sulfate. <i>Respiratory Physiology and Neurobiology</i> , 2014 , 200, 1-5	2.8	29
187	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	4.1	29
186	A correction procedure for the asymmetry of differential pressure transducers in respiratory impedance measurements. <i>IEEE Transactions on Biomedical Engineering</i> , 1989 , 36, 1137-40	5	29
185	Telemedicine-based approach for obstructive sleep apnea management: building evidence. <i>Interactive Journal of Medical Research</i> , 2014 , 3, e6	2.1	29
184	A New mHealth application to support treatment of sleep apnoea patients. <i>Journal of Telemedicine and Telecare</i> , 2017 , 23, 14-18	6.8	28
183	The effects of intermittent hypoxia on redox status, NF- κ B activation, and plasma lipid levels are dependent on the lowest oxygen saturation. <i>Free Radical Biology and Medicine</i> , 2013 , 65, 1143-1154	7.8	28
182	Altered CD8+ T-Cell Lymphocyte Function and TC1 Cell Stemness Contribute to Enhanced Malignant Tumor Properties in Murine Models of Sleep Apnea. <i>Sleep</i> , 2017 , 40,	1.1	28
181	Integrin-specific mechanoresponses to compression and extension probed by cylindrical flat-ended AFM tips in lung cells. <i>PLoS ONE</i> , 2012 , 7, e32261	3.7	28
180	Physiological consequences of prolonged periods of flow limitation in patients with sleep apnea hypopnea syndrome. <i>Respiratory Medicine</i> , 2006 , 100, 813-7	4.6	28
179	Telemetric CPAP titration at home in patients with sleep apnea-hypopnea syndrome. <i>Sleep Medicine</i> , 2011 , 12, 153-7	4.6	27
178	Morbidity due to obstructive sleep apnea: insights from animal models. <i>Current Opinion in Pulmonary Medicine</i> , 2008 , 14, 530-6	3	27
177	Intermittent Hypoxia Severity in Animal Models of Sleep Apnea. <i>Frontiers in Physiology</i> , 2018 , 9, 1556	4.6	27
176	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	3.2	26
175	Performance of mechanical ventilators at the patient's home: a multicentre quality control study. <i>Thorax</i> , 2006 , 61, 400-4	7.3	26
174	Oscillatory resistance measured during noninvasive proportional assist ventilation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001 , 164, 790-4	10.2	26

173	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	4.1	24
172	Continuous positive airway pressure (CPAP) induces early nasal inflammation. <i>Sleep</i> , 2008 , 31, 127-31	1.1	24
171	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, L1104-10	5.8	24
170	Oscillatory magnetic tweezers based on ferromagnetic beads and simple coaxial coils. <i>Review of Scientific Instruments</i> , 2003 , 74, 4012-4020	1.7	24
169	Noninvasive assessment of respiratory resistance in severe chronic respiratory patients with nasal CPAP. <i>European Respiratory Journal</i> , 2000 , 15, 314-9	13.6	24
168	Respiratory mechanics in ventilated COPD patients: forced oscillation versus occlusion techniques. <i>European Respiratory Journal</i> , 1998 , 12, 170-6	13.6	24
167	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	5.7	23
166	Intermittent hypoxia increases kidney tumor vascularization in a murine model of sleep apnea. <i>PLoS ONE</i> , 2017 , 12, e0179444	3.7	23
165	Brain tissue hypoxia and oxidative stress induced by obstructive apneas is different in young and aged rats. <i>Sleep</i> , 2014 , 37, 1249-56	1.1	23
164	Effect of expiratory flow limitation on respiratory mechanical impedance: a model study. <i>Journal of Applied Physiology</i> , 1996 , 81, 2399-406	3.7	23
163	Impact of different hypopnea definitions on obstructive sleep apnea severity and cardiovascular mortality risk in women and elderly individuals. <i>Sleep Medicine</i> , 2016 , 27-28, 54-58	4.6	23
162	Static and dynamic upper airway obstruction in sleep apnea: role of the breathing gas properties. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2003 , 168, 659-63	10.2	22
161	Forced oscillation assessment of respiratory mechanics in ventilated patients. <i>Critical Care</i> , 2001 , 5, 3-9	10.8	22
160	Intermittent Hypoxia Mimicking Sleep Apnea Increases Passive Stiffness of Myocardial Extracellular Matrix. A Multiscale Study. <i>Frontiers in Physiology</i> , 2018 , 9, 1143	4.6	22
159	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	2.6	21
158	Forced oscillation total respiratory resistance and spontaneous breathing lung resistance in COPD patients. <i>European Respiratory Journal</i> , 1999 , 14, 172-8	13.6	21
157	Chronic intermittent hypoxia mimicking sleep apnoea increases spontaneous tumorigenesis in mice. <i>European Respiratory Journal</i> , 2017 , 49,	13.6	20
156	Obstructive apneas induce early activation of mesenchymal stem cells and enhancement of endothelial wound healing. <i>Respiratory Research</i> , 2010 , 11, 91	7.3	20

155	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, 1855-63	10.2	20
154	Cancer and Sleep Apnea: Cutaneous Melanoma as a Case Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 200, 1345-1353	10.2	19
153	A prospective multicenter cohort study of cutaneous melanoma: clinical staging and potential associations with HIF-1 α and VEGF expressions. <i>Melanoma Research</i> , 2017 , 27, 558-564	3.3	19
152	Early and mid-term effects of obstructive apneas in myocardial injury and inflammation. <i>Sleep Medicine</i> , 2011 , 12, 1037-40	4.6	19
151	Evaluation of a simplified oscillation technique for assessing airway obstruction in sleep apnoea. <i>European Respiratory Journal</i> , 2001 , 17, 456-61	13.6	19
150	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, 1001-5	5	19
149	Nonlinear elasticity of the lung extracellular microenvironment is regulated by macroscale tissue strain. <i>Acta Biomaterialia</i> , 2019 , 92, 265-276	10.8	18
148	Barrier-protective effects of activated protein C in human alveolar epithelial cells. <i>PLoS ONE</i> , 2013 , 8, e56965	3.7	18
147	Evaluation of upper airway patency during Cheyne-Stokes breathing in heart failure patients. <i>European Respiratory Journal</i> , 2012 , 40, 1523-30	13.6	18
146	Early Impairment of Lung Mechanics in a Murine Model of Marfan Syndrome. <i>PLoS ONE</i> , 2016 , 11, e0152124	3.7	18
145	Obesity, sleep apnea, and cancer. <i>International Journal of Obesity</i> , 2020 , 44, 1653-1667	5.5	18
144	Differential effect of intermittent hypoxia and sleep fragmentation on PD-1/PD-L1 upregulation. <i>Sleep</i> , 2020 , 43,	1.1	18
143	Age-dependent hypoxia-induced PD-L1 upregulation in patients with obstructive sleep apnoea. <i>Respirology</i> , 2019 , 24, 684-692	3.6	17
142	Silk-Reinforced Collagen Hydrogels with Raised Multiscale Stiffness for Mesenchymal Cells 3D Culture. <i>Tissue Engineering - Part A</i> , 2020 , 26, 358-370	3.9	17
141	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	10.2	17
140	Assessment of bronchial reactivity by forced oscillation admittance avoids the upper airway artefact. <i>European Respiratory Journal</i> , 1999 , 13, 761-6	13.6	17
139	Biomarkers of carcinogenesis and tumour growth in patients with cutaneous melanoma and obstructive sleep apnoea. <i>European Respiratory Journal</i> , 2018 , 51,	13.6	16
138	Comprehensive management of obstructive sleep apnea by telemedicine: Clinical improvement and cost-effectiveness of a Virtual Sleep Unit. A randomized controlled trial. <i>PLoS ONE</i> , 2019 , 14, e0224069	3.7	16

137	Potential role of adult stem cells in obstructive sleep apnea. <i>Frontiers in Neurology</i> , 2012 , 3, 112	4.1	16
136	Mesenchymal stem cells reduce inflammation in a rat model of obstructive sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , 2010 , 172, 210-2	2.8	16
135	Analog circuit for real-time computation of respiratory mechanical impedance in sleep studies. <i>IEEE Transactions on Biomedical Engineering</i> , 1997 , 44, 1156-9	5	16
134	Oscillometric assessment of airway obstruction in a mechanical model of vocal cord dysfunction. <i>Journal of Biomechanics</i> , 2004 , 37, 37-43	2.9	16
133	Quality control of mechanical ventilation at the patient's home. <i>Intensive Care Medicine</i> , 2003 , 29, 484-6	14.5	16
132	Animal model of unilateral ventilator-induced lung injury. <i>Intensive Care Medicine</i> , 2005 , 31, 487-90	14.5	16
131	A portable forced oscillation device for respiratory home monitoring. <i>European Respiratory Journal</i> , 2002 , 19, 146-50	13.6	16
130	Soluble PD-L1 is a potential biomarker of cutaneous melanoma aggressiveness and metastasis in obstructive sleep apnoea patients. <i>European Respiratory Journal</i> , 2019 , 53,	13.6	16
129	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	10.2	15
128	Effect of ovariectomy on inflammation induced by intermittent hypoxia in a mouse model of sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , 2014 , 202, 71-4	2.8	15
127	Gas Partial Pressure in Cultured Cells: Patho-Physiological Importance and Methodological Approaches. <i>Frontiers in Physiology</i> , 2018 , 9, 1803	4.6	15
126	Chronic intermittent hypoxia preserves bone density in a mouse model of sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , 2013 , 189, 646-8	2.8	14
125	First-in-human PeriCord cardiac bioimplant: Scalability and GMP manufacturing of an allogeneic engineered tissue graft. <i>EBioMedicine</i> , 2020 , 54, 102729	8.8	14
124	Assessment of upper airway mechanics during sleep. <i>Respiratory Physiology and Neurobiology</i> , 2008 , 163, 74-81	2.8	13
123	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	3.1	13
122	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, 531-7	3.1	13
121	An Official American Thoracic Society Workshop Report: Noninvasive Identification of Inspiratory Flow Limitation in Sleep Studies. <i>Annals of the American Thoracic Society</i> , 2017 , 14, 1076-1085	4.7	13
120	Evaluation of a method for assessing respiratory mechanics during noninvasive ventilation. <i>European Respiratory Journal</i> , 2000 , 16, 704-9	13.6	13

119	Relationship Between Sleep Apnea and Cancer. <i>Archivos De Bronconeumologia</i> , 2015 , 51, 456-61	0.7	12
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117	A bioreactor for subjecting cultured cells to fast-rate intermittent hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2012 , 182, 47-52	2.8	12
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