

Isaac Almendros

List of Publications by Year in Descending Order

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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.

125
papers

2,998
citations

30
h-index

50
g-index

165
ext. papers

3,849
ext. citations

4.5
avg, IF

5.22
L-index

#	Paper	IF	Citations
125	[Translated article] International consensus document on obstructive sleep apnea.. <i>Archivos De Bronconeumologia</i> , 2022 , 58, T52-T68	0.7	2
124	Novel Decellularization Method for Tissue Slices.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 832178	5.8	0
123	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,	6.3	1
122	International Consensus Document on Obstructive Sleep Apnea. <i>Archivos De Bronconeumologia</i> , 2021 , 58, 52-52	0.7	12
121	Metabolic dysfunction in OSA: Is there something new under the sun?. <i>Journal of Sleep Research</i> , 2021 , e13418	5.8	4
120	Realizing the actual magnitudes of aortic diameter and cardiac output: a multisensory learning approach. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2021 , 45, 322-326	1.9	
119	Oxygen Biosensors and Control in 3D Physiomimetic Experimental Models. <i>Antioxidants</i> , 2021 , 10,	7.1	1
118	Experimental Setting for Applying Mechanical Stimuli to Study the Endothelial Response of Ex Vivo Vessels under Realistic Pathophysiological Environments. <i>Life</i> , 2021 , 11,	3	1
117	The force loading rate drives cell mechanosensing through both reinforcement and cytoskeletal softening. <i>Nature Communications</i> , 2021 , 12, 4229	17.4	10
116	Bioprintable Lung Extracellular Matrix Hydrogel Scaffolds for 3D Culture of Mesenchymal Stromal Cells. <i>Polymers</i> , 2021 , 13,	4.5	6
115	The effect of chronic intermittent hypoxia in cardiovascular gene expression is modulated by age in a mice model of sleep apnea. <i>Sleep</i> , 2021 , 44,	1.1	1
114	Circulating exosomes and gut microbiome induced insulin resistance in mice exposed to intermittent hypoxia: Effects of physical activity. <i>EBioMedicine</i> , 2021 , 64, 103208	8.8	8
113	Image-Based Method to Quantify Decellularization of Tissue Sections. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
112	Heterogeneity of Melanoma Cell Responses to Sleep Apnea-Derived Plasma Exosomes and to Intermittent Hypoxia. <i>Cancers</i> , 2021 , 13,	6.6	3
111	Aging Impairs Reverse Remodeling and Recovery of Ventricular Function after Isoproterenol-Induced Cardiomyopathy.. <i>International Journal of Molecular Sciences</i> , 2021 , 23,	6.3	2
110	ERS International Congress, Madrid, 2019: highlights from the Sleep and Clinical Physiology Assembly. <i>ERJ Open Research</i> , 2020 , 6,	3.5	1
109	Biophysically Preconditioning Mesenchymal Stem Cells Improves Treatment of Ventilator-Induced Lung Injury. <i>Archivos De Bronconeumologia</i> , 2020 , 56, 179-181	0.7	1

108	Lung cancer aggressiveness in an intermittent hypoxia murine model of postmenopausal sleep apnea. <i>Menopause</i> , 2020 , 27, 706-713	2.5	9
107	Obstructive sleep apnea intensifies stroke severity following middle cerebral artery occlusion. <i>Sleep Medicine</i> , 2020 , 67, 278-285	4.6	3
106	Murine models of cardiovascular damage in lung diseases 2020 , 31-46		
105	Biophysically Preconditioning Mesenchymal Stem Cells Improves Treatment of Ventilator-Induced Lung Injury. <i>Archivos De Bronconeumologia</i> , 2020 , 56, 179-181	0.7	5
104	Obesity, sleep apnea, and cancer. <i>International Journal of Obesity</i> , 2020 , 44, 1653-1667	5.5	18
103	Differential effect of intermittent hypoxia and sleep fragmentation on PD-1/PD-L1 upregulation. <i>Sleep</i> , 2020 , 43,	1.1	18
102	Obesity attenuates the effect of sleep apnea on active TGF- β levels and tumor aggressiveness in patients with melanoma. <i>Scientific Reports</i> , 2020 , 10, 15528	4.9	3
101	Sleep Apnoea Adverse Effects on Cancer: True, False, or Too Many Confounders?. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
100	The conventional isoproterenol-induced heart failure model does not consistently mimic the diaphragmatic dysfunction observed in patients. <i>PLoS ONE</i> , 2020 , 15, e0236923	3.7	0
99	Proangiogenic factor midkine is increased in melanoma patients with sleep apnea and induces tumor cell proliferation. <i>FASEB Journal</i> , 2020 , 34, 16179-16190	0.9	3
98	Intrahepatic Expression of Fatty Acid Translocase CD36 Is Increased in Obstructive Sleep Apnea. <i>Frontiers in Medicine</i> , 2020 , 7, 450	4.9	3
97	Effect of age on the cardiovascular remodelling induced by chronic intermittent hypoxia as a murine model of sleep apnoea. <i>Respirology</i> , 2020 , 25, 312-320	3.6	8
96	Understanding the pathophysiological mechanisms of cardiometabolic complications in obstructive sleep apnoea: towards personalised treatment approaches. <i>European Respiratory Journal</i> , 2020 , 56,	13.6	12
95	Biomechanical Response of Lung Epithelial Cells to Iron Oxide and Titanium Dioxide Nanoparticles. <i>Frontiers in Physiology</i> , 2019 , 10, 1047	4.6	4
94	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
93	Age-dependent hypoxia-induced PD-L1 upregulation in patients with obstructive sleep apnoea. <i>Respirology</i> , 2019 , 24, 684-692	3.6	17
92	Preview of Sleep and Breathing Conference 2019 and report on Early Career Member international collaboration. <i>Breathe</i> , 2019 , 15, 60-63	1.8	
91	Overnight Change in Urinary Prostacyclin and Thromboxane in Obstructive Sleep Apnea. <i>Archivos De Bronconeumologia</i> , 2019 , 55, 334-336	0.7	

90	Chronic Sleep Fragmentation Mimicking Sleep Apnea Does Not Worsen Left-Ventricular Function in Healthy and Heart Failure Mice. <i>Frontiers in Neurology</i> , 2019 , 10, 1364	4.1	2
89	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
88	Placental oxygen transfer reduces hypoxia-reoxygenation swings in fetal blood in a sheep model of gestational sleep apnea. <i>Journal of Applied Physiology</i> , 2019 , 127, 745-752	3.7	6
87	Aortic remodelling induced by obstructive apneas is normalized with mesenchymal stem cells infusion. <i>Scientific Reports</i> , 2019 , 9, 11443	4.9	9
86	Highlights from the 2018 European Respiratory Society International Congress: sleep and clinical physiology. <i>ERJ Open Research</i> , 2019 , 5,	3.5	1
85	Why ERS Early Career Members should attend the International Congress 2019 in Madrid. <i>Breathe</i> , 2019 , 15, 128-130	1.8	
84	Overnight Change in Urinary Prostacyclin and Thromboxane in Obstructive Sleep Apnea. <i>Archivos De Bronconeumologia</i> , 2019 , 55, 333-335	0.7	1
83	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
82	Early Career Members at the Lung Science Conference and the Sleep and Breathing Conference 2019. <i>Breathe</i> , 2019 , 15, 234-240	1.8	
81	Escherichia coli lipopolysaccharide induces alveolar epithelial cell stiffening. <i>Journal of Biomechanics</i> , 2019 , 83, 315-318	2.9	4
80	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
79	Bioengineered Lungs: A Challenge and An Opportunity. <i>Archivos De Bronconeumologia</i> , 2018 , 54, 31-38	0.7	8
78	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
77	Intermittent hypoxia and cancer: Undesirable bed partners?. <i>Respiratory Physiology and Neurobiology</i> , 2018 , 256, 79-86	2.8	35
76	Acetylsalicylic Acid Prevents Intermittent Hypoxia-Induced Vascular Remodeling in a Murine Model of Sleep Apnea. <i>Frontiers in Physiology</i> , 2018 , 9, 600	4.6	9
75	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
74	Intermittent Hypoxia Is Associated With High Hypoxia Inducible Factor-1 α but Not High Vascular Endothelial Growth Factor Cell Expression in Tumors of Cutaneous Melanoma Patients. <i>Frontiers in Neurology</i> , 2018 , 9, 272	4.1	9
73	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

72	Passive Stiffness of Left Ventricular Myocardial Tissue Is Reduced by Ovariectomy in a Post-menopause Mouse Model. <i>Frontiers in Physiology</i> , 2018 , 9, 1545	4.6	7
71	Gas Partial Pressure in Cultured Cells: Patho-Physiological Importance and Methodological Approaches. <i>Frontiers in Physiology</i> , 2018 , 9, 1803	4.6	15
70	Exosomal Cargo Properties, Endothelial Function and Treatment of Obesity Hypoventilation Syndrome: A Proof of Concept Study. <i>Journal of Clinical Sleep Medicine</i> , 2018 , 14, 797-807	3.1	17
69	Intermittent Hypoxia Severity in Animal Models of Sleep Apnea. <i>Frontiers in Physiology</i> , 2018 , 9, 1556	4.6	27
68	Early Career Members at the ERS Lung Science Conference: cell-matrix interactions in lung disease and regeneration: Early career forum. <i>Breathe</i> , 2018 , 14, e78-e83	1.8	1
67	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
66	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
65	Zooming in on the ERS fellowships and the International Congress. <i>Breathe</i> , 2018 , 14, 141-144	1.8	1
64	Obstructive sleep apnea and Fuhrman grade in patients with clear cell renal cell carcinoma treated surgically. <i>World Journal of Urology</i> , 2017 , 35, 51-56	4	10
63	Visceral White Adipose Tissue after Chronic Intermittent and Sustained Hypoxia in Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017 , 56, 477-487	5.7	49
62	Obstructive Sleep Apnea and Cancer: Insights from Intermittent Hypoxia Experimental Models. <i>Current Sleep Medicine Reports</i> , 2017 , 3, 22-29	1.2	2
61	Chronic intermittent hypoxia mimicking sleep apnoea increases spontaneous tumorigenesis in mice. <i>European Respiratory Journal</i> , 2017 , 49,	13.6	20
60	Aorta macrophage inflammatory and epigenetic changes in a murine model of obstructive sleep apnea: Potential role of CD36. <i>Scientific Reports</i> , 2017 , 7, 43648	4.9	33
59	Ageing and chronic intermittent hypoxia mimicking sleep apnea do not modify local brain tissue stiffness in healthy mice. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 71, 106-113	4.1	9
58	Prolonged Exposures to Intermittent Hypoxia Promote Visceral White Adipose Tissue Inflammation in a Murine Model of Severe Sleep Apnea: Effect of Normoxic Recovery. <i>Sleep</i> , 2017 , 40,	1.1	34
57	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
56	Hypoxia-induced PD-L1/PD-1 crosstalk impairs T-cell function in sleep apnoea. <i>European Respiratory Journal</i> , 2017 , 50,	13.6	58
55	Intermittent hypoxia increases kidney tumor vascularization in a murine model of sleep apnea. <i>PLoS ONE</i> , 2017 , 12, e0179444	3.7	23

54	Early Career Members at the ERS International Congress 2017: highlights from the Assemblies. <i>Breathe</i> , 2017 , 13, e121-e129	1.8	
53	Clinical physiology and sleep: insights from the European Respiratory Society Congress 2017. <i>Journal of Thoracic Disease</i> , 2017 , 9, S1532-S1536	2.6	
52	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
51	Sleep Apnea and Tumor Aggressivity. <i>Archivos De Bronconeumologia</i> , 2017 , 53, 300-301	0.7	
50	Temporal trajectories of novel object recognition performance in mice exposed to intermittent hypoxia. <i>European Respiratory Journal</i> , 2017 , 50,	13.6	12
49	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	3.7	10
48	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
47	Early Career Members at the ERS LSC 2017: mechanistic overlap between chronic lung injury and cancer. <i>Breathe</i> , 2017 , 13, 323-326	1.8	1
46	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
45	Tumor Cell Malignant Properties Are Enhanced by Circulating Exosomes in Sleep Apnea. <i>Chest</i> , 2016 , 150, 1030-1041	5.3	40
44	Early effects of continuous positive airway pressure in a rodent model of allergic rhinitis. <i>Sleep Medicine</i> , 2016 , 27-28, 25-27	4.6	3
43	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
42	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
41	Sleep Disorders and Cancer. <i>Current Sleep Medicine Reports</i> , 2016 , 2, 1-11	1.2	3
40	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
39	Treatment with TUG891, a free fatty acid receptor 4 agonist, restores adipose tissue metabolic dysfunction following chronic sleep fragmentation in mice. <i>International Journal of Obesity</i> , 2016 , 40, 1143-9	5.5	20
38	Heterotypic paracrine signaling drives fibroblast senescence and tumor progression of large cell carcinoma of the lung. <i>Oncotarget</i> , 2016 , 7, 82324-82337	3.3	13
37	Circulating exosomes potentiate tumor malignant properties in a mouse model of chronic sleep fragmentation. <i>Oncotarget</i> , 2016 , 7, 54676-54690	3.3	45

36	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
35	Relationship Between Sleep Apnea and Cancer. <i>Archivos De Bronconeumologia</i> , 2015 , 51, 456-61	0.7	12
34	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
33	Reduced NADPH oxidase type 2 activity mediates sleep fragmentation-induced effects on TC1 tumors in mice. <i>Oncolmmunology</i> , 2015 , 4, e976057	7.2	16
32	Resveratrol attenuates intermittent hypoxia-induced macrophage migration to visceral white adipose tissue and insulin resistance in male mice. <i>Endocrinology</i> , 2015 , 156, 437-43	4.8	48
31	Microarray-based analysis of plasma cirDNA epigenetic modification profiling in xenografted mice exposed to intermittent hypoxia. <i>Genomics Data</i> , 2015 , 5, 17-20		3
30	Relationship Between Sleep Apnea and Cancer. <i>Archivos De Bronconeumologia</i> , 2015 , 51, 456-461	0.7	8
29	Effect of resveratrol on visceral white adipose tissue inflammation and insulin sensitivity in a mouse model of sleep apnea. <i>International Journal of Obesity</i> , 2015 , 39, 418-23	5.5	29
28	Sex dimorphism in late gestational sleep fragmentation and metabolic dysfunction in offspring mice. <i>Sleep</i> , 2015 , 38, 545-57	1.1	19
27	Increased upper airway collapsibility in a mouse model of Marfan syndrome. <i>Respiratory Physiology and Neurobiology</i> , 2015 , 207, 58-60	2.8	4
26	Tumor circulating DNA profiling in xenografted mice exposed to intermittent hypoxia. <i>Oncotarget</i> , 2015 , 6, 556-69	3.3	25
25	Fragmented sleep accelerates tumor growth and progression through recruitment of tumor-associated macrophages and TLR4 signaling. <i>Cancer Research</i> , 2014 , 74, 1329-37	10.1	115
24	The polymorphic and contradictory aspects of intermittent hypoxia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014 , 307, L129-40	5.8	112
23	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
22	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
21	Sleep apnea awakens cancer: A unifying immunological hypothesis. <i>Oncolmmunology</i> , 2014 , 3, e28326	7.2	13
20	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	10.2	132
19	Early intermittent hypoxia induces proatherogenic changes in aortic wall macrophages in a murine model of obstructive sleep apnea. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014 , 190, 958-61	10.2	35

18	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
17	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
16	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
15	Intermittent hypoxia enhances cancer progression in a mouse model of sleep apnoea. <i>European Respiratory Journal</i> , 2012 , 39, 215-7	13.6	148
14	Potential role of adult stem cells in obstructive sleep apnea. <i>Frontiers in Neurology</i> , 2012 , 3, 112	4.1	16
13	Early and mid-term effects of obstructive apneas in myocardial injury and inflammation. <i>Sleep Medicine</i> , 2011 , 12, 1037-40	4.6	19
12	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
11	Potential role of bone marrow mesenchymal stem cells in obstructive sleep apnea. <i>International Journal of Stem Cells</i> , 2011 , 4, 43-9	3	2
10	Effects of heated humidification on nasal inflammation in a CPAP rat model. <i>Sleep Medicine</i> , 2010 , 11, 413-6	4.6	9
9	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
8	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
7	Obstructive apneas induce early release of mesenchymal stem cells into circulating blood. <i>Sleep</i> , 2009 , 32, 117-9	1.1	31
6	One-lung overventilation does not induce inflammation in the normally ventilated contralateral lung. <i>Respiratory Physiology and Neurobiology</i> , 2008 , 162, 100-2	2.8	7
5	Upper airway collapse and reopening induce inflammation in a sleep apnoea model. <i>European Respiratory Journal</i> , 2008 , 32, 399-404	13.6	38
4	Continuous positive airway pressure (CPAP) induces early nasal inflammation. <i>Sleep</i> , 2008 , 31, 127-31	1.1	24
3	Upper-airway inflammation triggered by vibration in a rat model of snoring. <i>Sleep</i> , 2007 , 30, 225-7	1.1	57
2	Rheology of passive and adhesion-activated neutrophils probed by atomic force microscopy. <i>Biophysical Journal</i> , 2006 , 91, 3508-18	2.9	72
1	Vibration enhances interleukin-8 release in a cell model of snoring-induced airway inflammation. <i>Sleep</i> , 2005 , 28, 1312-6	1.1	73

