

# Josep Maria Montserrat

## List of Publications by Citations

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117  
papers

3,986  
citations

32  
h-index

60  
g-index

128  
ext. papers

4,883  
ext. citations

4.4  
avg, IF

4.86  
L-index

#	Paper	IF	Citations
117	Effect of continuous positive airway pressure on the incidence of hypertension and cardiovascular events in nonsleepy patients with obstructive sleep apnea: a randomized controlled trial. <i>JAMA - Journal of the American Medical Association</i> , <b>2012</b> , 307, 2161-8	27.4	504
116	Effect of CPAP on blood pressure in patients with obstructive sleep apnea and resistant hypertension: the HIPARCO randomized clinical trial. <i>JAMA - Journal of the American Medical Association</i> , <b>2013</b> , 310, 2407-15	27.4	402
115	Treatment with continuous positive airway pressure is not effective in patients with sleep apnea but no daytime sleepiness. a randomized, controlled trial. <i>Annals of Internal Medicine</i> , <b>2001</b> , 134, 1015-23 <sup>8</sup>		366
114	Intermittent hypoxia alters gut microbiota diversity in a mouse model of sleep apnoea. <i>European Respiratory Journal</i> , <b>2015</b> , 45, 1055-65	13.6	129
113	Intermittent hypoxia increases melanoma metastasis to the lung in a mouse model of sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , <b>2013</b> , 186, 303-7	2.8	106
112	Cardiac function after CPAP therapy in patients with chronic heart failure and sleep apnea: a multicenter study. <i>Sleep Medicine</i> , <b>2008</b> , 9, 660-6	4.6	105
111	Obesity and intermittent hypoxia increase tumor growth in a mouse model of sleep apnea. <i>Sleep Medicine</i> , <b>2012</b> , 13, 1254-60	4.6	92
110	Effect of obstructive sleep apnoea and its treatment with continuous positive airway pressure on the prevalence of cardiovascular events in patients with acute coronary syndrome (ISAACC study): a randomised controlled trial. <i>Lancet Respiratory Medicine</i> , <b>2020</b> , 8, 359-367	35.1	92
109	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> , <b>2002</b> , 166, 469-73	10.2	91
108	Emerging risk factors and the dose-response relationship between physical activity and lone atrial fibrillation: a prospective case-control study. <i>Europace</i> , <b>2016</b> , 18, 57-63	3.9	81
107	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> , <b>2011</b> , 34, 1127-33	1.1	80
106	Tele-monitoring of ventilator-dependent patients: a European Respiratory Society Statement. <i>European Respiratory Journal</i> , <b>2016</b> , 48, 648-63	13.6	78
105	A Bayesian cost-effectiveness analysis of a telemedicine-based strategy for the management of sleep apnoea: a multicentre randomised controlled trial. <i>Thorax</i> , <b>2015</b> , 70, 1054-61	7.3	70
104	Effect of CPAP on Cognition, Brain Function, and Structure Among Elderly Patients With OSA: A Randomized Pilot Study. <i>Chest</i> , <b>2015</b> , 148, 1214-1223	5.3	68
103	Recurrent obstructive apneas trigger early systemic inflammation in a rat model of sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , <b>2007</b> , 155, 93-6	2.8	68
102	Performance of nasal prongs in sleep studies : spectrum of flow-related events. <i>Chest</i> , <b>2001</b> , 119, 442-50 <sup>3</sup>		66
101	Sham continuous positive airway pressure for placebo-controlled studies in sleep apnoea. <i>Lancet, The</i> , <b>1999</b> , 353, 1154	40	63

100	Obstructive sleep apnoea in the elderly: role of continuous positive airway pressure treatment. <i>European Respiratory Journal</i> , <b>2015</b> , 46, 142-51	13.6	51
99	A Randomized Controlled Trial of Continuous Positive Airway Pressure on Glucose Tolerance in Obese Patients with Obstructive Sleep Apnea. <i>Sleep</i> , <b>2016</b> , 39, 35-41	1.1	51
98	Normoxic Recovery Mimicking Treatment of Sleep Apnea Does Not Reverse Intermittent Hypoxia-Induced Bacterial Dysbiosis and Low-Grade Endotoxemia in Mice. <i>Sleep</i> , <b>2016</b> , 39, 1891-1897	1.1	49
97	Bench model to simulate upper airway obstruction for analyzing automatic continuous positive airway pressure devices. <i>Chest</i> , <b>2006</b> , 130, 350-61	5.3	48
96	Intermittent Hypoxia-Induced Cardiovascular Remodeling Is Reversed by Normoxia in a Mouse Model of Sleep Apnea. <i>Chest</i> , <b>2016</b> , 149, 1400-8	5.3	47
95	The influence of obesity and obstructive sleep apnea on metabolic hormones. <i>Sleep and Breathing</i> , <b>2012</b> , 16, 649-56	3.1	46
94	Management of sleep apnea without high pretest probability or with comorbidities by three nights of portable sleep monitoring. <i>Sleep</i> , <b>2014</b> , 37, 1363-73	1.1	45
93	Positive pressure therapy: a perspective on evidence-based outcomes and methods of application. <i>Proceedings of the American Thoracic Society</i> , <b>2008</b> , 5, 161-72		45
92	Male fertility is reduced by chronic intermittent hypoxia mimicking sleep apnea in mice. <i>Sleep</i> , <b>2014</b> , 37, 1757-65	1.1	41
91	Sleep-Disordered Breathing Is Independently Associated With Increased Aggressiveness of Cutaneous Melanoma: A Multicenter Observational Study in 443 Patients. <i>Chest</i> , <b>2018</b> , 154, 1348-1358	5.3	40
90	Atrial fibrosis in a chronic murine model of obstructive sleep apnea: mechanisms and prevention by mesenchymal stem cells. <i>Respiratory Research</i> , <b>2014</b> , 15, 54	7.3	37
89	Collapsible upper airway segment to study the obstructive sleep apnea/hypopnea syndrome in rats. <i>Respiratory Physiology and Neurobiology</i> , <b>2003</b> , 136, 199-209	2.8	37
88	Sleep-related breathing disorders in acute lacunar stroke. <i>Journal of Neurology</i> , <b>2009</b> , 256, 2036-42	5.5	36
87	Personalised medicine in sleep respiratory disorders: focus on obstructive sleep apnoea diagnosis and treatment. <i>European Respiratory Review</i> , <b>2017</b> , 26,	9.8	34
86	Biological consequences of oxygen desaturation and respiratory effort in an acute animal model of obstructive sleep apnea (OSA). <i>Sleep Medicine</i> , <b>2009</b> , 10, 892-7	4.6	34
85	Vitamin D status and parathyroid hormone levels in patients with obstructive sleep apnea. <i>Respiration</i> , <b>2013</b> , 86, 295-301	3.7	32
84	Role of Cyclooxygenase-2 on Intermittent Hypoxia-Induced Lung Tumor Malignancy in a Mouse Model of Sleep Apnea. <i>Scientific Reports</i> , <b>2017</b> , 7, 44693	4.9	30
83	Changes in oxygen partial pressure of brain tissue in an animal model of obstructive apnea. <i>Respiratory Research</i> , <b>2010</b> , 11, 3	7.3	30

82	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> , <b>2020</b> , 55,	13.6	29
81	Telemedicine-based approach for obstructive sleep apnea management: building evidence. <i>Interactive Journal of Medical Research</i> , <b>2014</b> , 3, e6	2.1	29
80	A New mHealth application to support treatment of sleep apnoea patients. <i>Journal of Telemedicine and Telecare</i> , <b>2017</b> , 23, 14-18	6.8	28
79	Telemetric CPAP titration at home in patients with sleep apnea-hypopnea syndrome. <i>Sleep Medicine</i> , <b>2011</b> , 12, 153-7	4.6	27
78	Effect of continuous positive airway pressure in patients with true refractory hypertension and sleep apnea: a post-hoc intention-to-treat analysis of the HIPARCO randomized clinical trial. <i>Journal of Hypertension</i> , <b>2019</b> , 37, 1269-1275	1.9	24
77	Brain tissue hypoxia and oxidative stress induced by obstructive apneas is different in young and aged rats. <i>Sleep</i> , <b>2014</b> , 37, 1249-56	1.1	23
76	Impact of OSA on biological markers in morbid obesity and metabolic syndrome. <i>Journal of Clinical Sleep Medicine</i> , <b>2014</b> , 10, 263-70	3.1	23
75	Diagnostic and therapeutic approach to nonsleepy apnea. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2007</b> , 176, 6-9	10.2	23
74	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> , <b>2003</b> , 168, 659-63	10.2	22
73	Circadian Impairment of Distal Skin Temperature Rhythm in Patients With Sleep-Disordered Breathing: The Effect of CPAP. <i>Sleep</i> , <b>2017</b> , 40,	1.1	22
72	Obstructive apneas induce early activation of mesenchymal stem cells and enhancement of endothelial wound healing. <i>Respiratory Research</i> , <b>2010</b> , 11, 91	7.3	20
71	Early and mid-term effects of obstructive apneas in myocardial injury and inflammation. <i>Sleep Medicine</i> , <b>2011</b> , 12, 1037-40	4.6	19
70	Biomarkers of carcinogenesis and tumour growth in patients with cutaneous melanoma and obstructive sleep apnoea. <i>European Respiratory Journal</i> , <b>2018</b> , 51,	13.6	16
69	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> , <b>2019</b> , 14, e0224069	3.7	16
68	Potential role of adult stem cells in obstructive sleep apnea. <i>Frontiers in Neurology</i> , <b>2012</b> , 3, 112	4.1	16
67	Mesenchymal stem cells reduce inflammation in a rat model of obstructive sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , <b>2010</b> , 172, 210-2	2.8	16
66	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> , <b>2018</b> , 197, 12-14	10.2	15
65	Effect of ovariectomy on inflammation induced by intermittent hypoxia in a mouse model of sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , <b>2014</b> , 202, 71-4	2.8	15

64	Chronic intermittent hypoxia preserves bone density in a mouse model of sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , <b>2013</b> , 189, 646-8	2.8	14
63	Optimizing screening of severe obstructive sleep apnea in patients undergoing bariatric surgery. <i>Surgery for Obesity and Related Diseases</i> , <b>2013</b> , 9, 539-46	3	14
62	The Barcelona Sleepiness Index: A New Instrument to Assess Excessive Daytime Sleepiness in Sleep Disordered Breathing. <i>Journal of Clinical Sleep Medicine</i> , <b>2015</b> , 11, 1289-98	3.1	14
61	Effects of a Combined Community Exercise Program in Obstructive Sleep Apnea Syndrome: A Randomized Clinical Trial. <i>Journal of Clinical Medicine</i> , <b>2019</b> , 8,	5.1	13
60	Assessment of upper airway mechanics during sleep. <i>Respiratory Physiology and Neurobiology</i> , <b>2008</b> , 163, 74-81	2.8	13
59	Management of sleep apnea: concordance between nonreference and reference centers. <i>Chest</i> , <b>2007</b> , 132, 1853-7	5.3	13
58	The role of telemedicine and mobile health in the monitoring of sleep-breathing disorders: improving patient outcomes. <i>Smart Homecare Technology and Telehealth</i> , <b>2017</b> , Volume 4, 1-11	1.3	12
57	Non-invasive system for applying airway obstructions to model obstructive sleep apnea in mice. <i>Respiratory Physiology and Neurobiology</i> , <b>2011</b> , 175, 164-8	2.8	12
56	International Consensus Document on Obstructive Sleep Apnea. <i>Archivos De Bronconeumologia</i> , <b>2021</b> , 58, 52-52	0.7	12
55	The role of telemedicine in obstructive sleep apnea management. <i>Expert Review of Respiratory Medicine</i> , <b>2017</b> , 11, 699-709	3.8	11
54	Correntropy measures to detect daytime sleepiness from EEG signals. <i>Physiological Measurement</i> , <b>2014</b> , 35, 2067-83	2.9	11
53	Comparative assessment of several automatic CPAP devicesResponses: a bench test study. <i>ERJ Open Research</i> , <b>2015</b> , 1,	3.5	11
52	Potential rebreathing after continuous positive airway pressure failure during sleep. <i>Chest</i> , <b>2002</b> , 121, 196-200	5.3	11
51	Technology for noninvasive mechanical ventilation: looking into the black box. <i>ERJ Open Research</i> , <b>2016</b> , 2,	3.5	11
50	Should the diagnosis and management of OSA move into general practice?. <i>Breathe</i> , <b>2016</b> , 12, 243-247	1.8	11
49	Obstructive sleep apnea and Fuhrman grade in patients with clear cell renal cell carcinoma treated surgically. <i>World Journal of Urology</i> , <b>2017</b> , 35, 51-56	4	10
48	The HIPARCO-2 study: long-term effect of continuous positive airway pressure on blood pressure in patients with resistant hypertension: a multicenter prospective study. <i>Journal of Hypertension</i> , <b>2021</b> , 39, 302-309	1.9	10
47	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> , <b>2017</b> , 71, 106-113	4.1	9

46	Lung cancer aggressiveness in an intermittent hypoxia murine model of postmenopausal sleep apnea. <i>Menopause</i> , <b>2020</b> , 27, 706-713	2.5	9
45	Acetylsalicylic Acid Prevents Intermittent Hypoxia-Induced Vascular Remodeling in a Murine Model of Sleep Apnea. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 600	4.6	9
44	Effects of heated humidification on nasal inflammation in a CPAP rat model. <i>Sleep Medicine</i> , <b>2010</b> , 11, 413-6	4.6	9
43	Automatic continuous positive airway pressure devices for the treatment of sleep apnea hypopnea syndrome. <i>Sleep Medicine</i> , <b>2001</b> , 2, 95-98	4.6	9
42	Effect of Nasal Continuous Positive Pressure on the Nostrils of Patients with Sleep Apnea Syndrome and no Previous Nasal Pathology. Predictive Factors for Compliance. <i>Archivos De Bronconeumologia</i> , <b>2016</b> , 52, 519-26	0.7	9
41	A randomized controlled trial: branched-chain amino acid levels and glucose metabolism in patients with obesity and sleep apnea. <i>Journal of Sleep Research</i> , <b>2017</b> , 26, 773-781	5.8	8
40	Breathing flow disturbances during sleep: can they be accurately assessed by nasal prongs?. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2002</b> , 166, 259-60	10.2	8
39	Effect of age on the cardiovascular remodelling induced by chronic intermittent hypoxia as a murine model of sleep apnoea. <i>Respirology</i> , <b>2020</b> , 25, 312-320	3.6	8
38	Negative Expiratory Pressure Technique: An Awake Test to Measure Upper Airway Collapsibility in Adolescents. <i>Sleep</i> , <b>2015</b> , 38, 1783-91	1.1	7
37	Relationship of peak exercise capacity with indexes of peripheral muscle vasodilation. <i>Medicine and Science in Sports and Exercise</i> , <b>1996</b> , 28, 1254-9	1.2	7
36	Novel Approach to Simulate Sleep Apnea Patients for Evaluating Positive Pressure Therapy Devices. <i>PLoS ONE</i> , <b>2016</b> , 11, e0151530	3.7	7
35	New organisation for follow-up and assessment of treatment efficacy in sleep apnoea. <i>European Respiratory Review</i> , <b>2019</b> , 28,	9.8	7
34	Good long-term adherence to continuous positive airway pressure therapy in patients with resistant hypertension and sleep apnea. <i>Journal of Sleep Research</i> , <b>2019</b> , 28, e12805	5.8	7
33	Long-term Effect of CPAP Treatment on Cardiovascular Events in Patients With Resistant Hypertension and Sleep Apnea. Data From the HIPARCO-2 Study. <i>Archivos De Bronconeumologia</i> , <b>2021</b> , 57, 165-171	0.7	6
32	Sleep medicine certification for physicians in Spain. <i>European Respiratory Journal</i> , <b>2015</b> , 45, 1189-91	13.6	5
31	Gender differences in treatment recommendations for sleep apnea. <i>Clinical Practice (London, England)</i> , <b>2012</b> , 9, 565-578	3	5
30	Impact of Obstructive Sleep Apnea on the Levels of Placental Growth Factor (PlGF) and Their Value for Predicting Short-Term Adverse Outcomes in Patients with Acute Coronary Syndrome. <i>PLoS ONE</i> , <b>2016</b> , 11, e0147686	3.7	5
29	Telemedicine in Sleep Apnea: A Simple Approach for Nasal Pressure (CPAP) Treatment. <i>Archivos De Bronconeumologia</i> , <b>2018</b> , 54, 491-492	0.7	4

28	Increased upper airway collapsibility in a mouse model of Marfan syndrome. <i>Respiratory Physiology and Neurobiology</i> , <b>2015</b> , 207, 58-60	2.8	4
27	Plant Material Exchanged between James Petiver ( ca . 1663-1718) and Joan Salvador I Riera (1683-1725). I. The Balearic Plants Conserved in the Bc-Salvador and Bm-Sloane Herbaria. <i>Notes and Records of the Royal Society</i> , <b>2006</b> , 60, 241-248	0.4	4
26	Central Sleep Apnoea Is Related to the Severity and Short-Term Prognosis of Acute Coronary Syndrome. <i>PLoS ONE</i> , <b>2016</b> , 11, e0167031	3.7	4
25	Integrated Care Intervention Supported by a Mobile Health Tool for Patients Using Noninvasive Ventilation at Home: Randomized Controlled Trial. <i>JMIR MHealth and UHealth</i> , <b>2020</b> , 8, e16395	5.5	4
24	New technologies to detect static and dynamic upper airway obstruction during sleep. <i>Sleep and Breathing</i> , <b>2001</b> , 5, 193-206	3.1	4
23	Mobile health application to support CPAP therapy in obstructive sleep apnoea: design, feasibility and perspectives. <i>ERJ Open Research</i> , <b>2020</b> , 6,	3.5	4
22	Parabiotic model for differentiating local and systemic effects of continuous and intermittent hypoxia. <i>Journal of Applied Physiology</i> , <b>2015</b> , 118, 42-7	3.7	3
21	Accuracy of one-night actigraphy for estimating sleep in patients with sleep apnea. <i>Sleep Medicine</i> , <b>2019</b> , 63, 3-4	4.6	2
20	Characterization of Daytime Sleepiness by Time-Frequency Measures of EEG Signals. <i>Journal of Medical and Biological Engineering</i> , <b>2015</b> , 35, 406-417	2.2	2
19	Effects of CPAP on daytime function. <i>Sleep</i> , <b>2011</b> , 34, 821; author reply 823, 825	1.1	2
18	Effect of using the flow or the volume signals on the measurement of nonapneic respiratory events. <i>Sleep</i> , <b>2005</b> , 28, 990-2	1.1	2
17	[Translated article] International consensus document on obstructive sleep apnea.. <i>Archivos De Bronconeumologia</i> , <b>2022</b> , 58, T52-T68	0.7	2
16	Regularity of cardiac rhythm as a marker of sleepiness in sleep disordered breathing. <i>PLoS ONE</i> , <b>2015</b> , 10, e0122645	3.7	2
15	Telematic Multi-physician Decision-making for Improving CPAP Prescription in Sleep Apnoea. <i>Archivos De Bronconeumologia</i> , <b>2019</b> , 55, 604-606	0.7	2
14	Telemedicine Strategy for CPAP Titration and Early Follow-up for Sleep Apnea During COVID-19 and Post-Pandemic Future. <i>Archivos De Bronconeumologia</i> , <b>2021</b> , 57, 56-58	0.7	2
13	Respiratory Disorders During Sleep: A New Dimension for 2018. <i>Archivos De Bronconeumologia</i> , <b>2019</b> , 55, 122-123	0.7	1
12	An improved telemedicine system for remote titration and optimization of Home Mechanical Ventilation <b>2010</b> ,		1
11	Nuevos aspectos patogénicos en el síndrome de apneas e hipopneas durante el sueño (SAHS). <i>Archivos De Bronconeumologia</i> , <b>2007</b> , 43, 40-47	0.7	1

10	Spanish Society of Pulmonology and Thoracic Surgery positioning on the use of telemedicine in sleep-disordered breathing and mechanical ventilation. <i>Archivos De Bronconeumologia</i> , <b>2021</b> , 57, 281-290	0.7	1
9	Enhanced Monitoring of Sleep Position in Sleep Apnea Patients: Smartphone Triaxial Accelerometry Compared with Video-Validated Position from Polysomnography. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
8	Ambulatory circadian monitoring in sleep disordered breathing patients and CPAP treatment. <i>Scientific Reports</i> , <b>2021</b> , 11, 14711	4.9	1
7	The effect of chronic intermittent hypoxia in cardiovascular gene expression is modulated by age in a mice model of sleep apnea. <i>Sleep</i> , <b>2021</b> , 44,	1.1	1
6	Intra- and Inter-Physician Agreement in Therapeutic Decision for Sleep Apnea Syndrome. <i>Archivos De Bronconeumologia</i> , <b>2020</b> , 56, 18-22	0.7	0
5	Telemedicine in Sleep Apnea: A Simple Approach for Nasal Pressure (CPAP) Treatment. <i>Archivos De Bronconeumologia</i> , <b>2018</b> , 54, 491-492	0.7	0
4	Effectiveness of Intermediate Respiratory Care Units as an Alternative to Intensive Care Units during the COVID-19 Pandemic in Catalonia. <i>International Journal of Environmental Research and Public Health</i> , <b>2022</b> , 19, 6034	4.6	0
3	Home Studies for Diagnosing Sleep Apnea Hypopnea Syndrome. <i>Clinical Pulmonary Medicine</i> , <b>2003</b> , 10, 162-169	0.3	
2	Quality Assessment of Real-Life Performance of Home Mechanical Ventilators. <i>Archivos De Bronconeumologia</i> , <b>2020</b> , 56, 258-259	0.7	
1	Intra- and Inter-Physician Agreement in Therapeutic Decision for Sleep Apnea Syndrome. <i>Archivos De Bronconeumologia</i> , <b>2020</b> , 56, 18-22	0.7	