

Josep Maria Montserrat

List of Publications by Year in descending order

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125
papers

5,646
citations

101384

36
h-index

85405

71
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128
all docs

128
docs citations

128
times ranked

4870
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Continuous Positive Airway Pressure on the Incidence of Hypertension and Cardiovascular Events in Nonsleepy Patients With Obstructive Sleep Apnea. <i>JAMA - Journal of the American Medical Association</i> , 2012, 307, 2161-8.	3.8	687
2	Effect of CPAP on Blood Pressure in Patients With Obstructive Sleep Apnea and Resistant Hypertension. <i>JAMA - Journal of the American Medical Association</i> , 2013, 310, 2407.	3.8	567
3	Treatment with Continuous Positive Airway Pressure Is Not Effective in Patients with Sleep Apnea but No Daytime Sleepiness. <i>Annals of Internal Medicine</i> , 2001, 134, 1015.	2.0	466
4	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> , 2020, 8, 359-367.	5.2	257
5	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
6	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
7	Cardiac function after CPAP therapy in patients with chronic heart failure and sleep apnea: A multicenter study. <i>Sleep Medicine</i> , 2008, 9, 660-666.	0.8	131
8	Tele-monitoring of ventilator-dependent patients: a European Respiratory Society Statement. <i>European Respiratory Journal</i> , 2016, 48, 648-663.	3.1	121
9	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
10	Emerging risk factors and the dose-response relationship between physical activity and lone atrial fibrillation: a prospective case-control study. <i>Europace</i> , 2016, 18, 57-63.	0.7	115
11	Effect of CPAP on Cognition, Brain Function, and Structure Among Elderly Patients With OSA. <i>Chest</i> , 2015, 148, 1214-1223.	0.4	107
12	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
13	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, 1054-1061.	2.7	103
14	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
15	Recurrent obstructive apneas trigger early systemic inflammation in a rat model of sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , 2007, 155, 93-96.	0.7	85
16	Sham continuous positive airway pressure for placebo-controlled studies in sleep apnoea. <i>Lancet</i> , 1999, 353, 1154.	6.3	77
17	Performance of Nasal Prongs in Sleep Studies. <i>Chest</i> , 2001, 119, 442-450.	0.4	77
18	Obstructive sleep apnoea in the elderly: role of continuous positive airway pressure treatment. <i>European Respiratory Journal</i> , 2015, 46, 142-151.	3.1	75

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19	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.	0.6	70
20	Intermittent Hypoxia-Induced Cardiovascular Remodeling Is Reversed by Normoxia in a Mouse Model of Sleep Apnea. <i>Chest</i> , 2016, 149, 1400-1408.	0.4	63
21	Male Fertility Is Reduced by Chronic Intermittent Hypoxia Mimicking Sleep Apnea in Mice. <i>Sleep</i> , 2014, 37, 1757-1765.	0.6	61
22	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
23	A Randomized Controlled Trial of Continuous Positive Airway Pressure on Glucose Tolerance in Obese Patients with Obstructive Sleep Apnea. <i>Sleep</i> , 2016, 39, 35-41.	0.6	60
24	The influence of obesity and obstructive sleep apnea on metabolic hormones. <i>Sleep and Breathing</i> , 2012, 16, 649-656.	0.9	59
25	Sleep-Disordered Breathing Is Independently Associated With Increased Aggressiveness of Cutaneous Melanoma. <i>Chest</i> , 2018, 154, 1348-1358.	0.4	58
26	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
27	Positive Pressure Therapy: A Perspective on Evidence-based Outcomes and Methods of Application. <i>Proceedings of the American Thoracic Society</i> , 2008, 5, 161-172.	3.5	56
28	Management of Sleep Apnea without High Pretest Probability or with Comorbidities by Three Nights of Portable Sleep Monitoring. <i>Sleep</i> , 2014, 37, 1363-1373.	0.6	56
29	Personalised medicine in sleep respiratory disorders: focus on obstructive sleep apnoea diagnosis and treatment. <i>European Respiratory Review</i> , 2017, 26, 170069.	3.0	55
30	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
31	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.	1.4	44
32	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
33	Vitamin D Status and Parathyroid Hormone Levels in Patients with Obstructive Sleep Apnea. <i>Respiration</i> , 2013, 86, 295-301.	1.2	41
34	Telemedicine-Based Approach for Obstructive Sleep Apnea Management: Building Evidence. <i>Interactive Journal of Medical Research</i> , 2014, 3, e6.	0.6	41
35	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
36	Sleep-related breathing disorders in acute lacunar stroke. <i>Journal of Neurology</i> , 2009, 256, 2036-2042.	1.8	38

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37	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
38	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.	1.1	38
39	Diagnostic and Therapeutic Approach to Nonsleepy Apnea. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2007, 176, 6-9.	2.5	35
40	Effect of continuous positive airway pressure in patients with true refractory hypertension and sleep apnea. <i>Journal of Hypertension</i> , 2019, 37, 1269-1275.	0.3	34
41	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
42	Telemetric CPAP titration at home in patients with sleep apnea—hypopnea syndrome. <i>Sleep Medicine</i> , 2011, 12, 153-157.	0.8	32
43	Circadian Impairment of Distal Skin Temperature Rhythm in Patients With Sleep-Disordered Breathing: The Effect of CPAP. <i>Sleep</i> , 2017, 40, .	0.6	32
44	Impact of OSA on Biological Markers in Morbid Obesity and Metabolic Syndrome. <i>Journal of Clinical Sleep Medicine</i> , 2014, 10, 263-270.	1.4	30
45	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
46	Biomarkers of carcinogenesis and tumour growth in patients with cutaneous melanoma and obstructive sleep apnoea. <i>European Respiratory Journal</i> , 2018, 51, 1701885.	3.1	27
47	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
48	Early and mid-term effects of obstructive apneas in myocardial injury and inflammation. <i>Sleep Medicine</i> , 2011, 12, 1037-1040.	0.8	24
49	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
50	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
51	Effect of ovariectomy on inflammation induced by intermittent hypoxia in a mouse model of sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , 2014, 202, 71-74.	0.7	20
52	The Barcelona Sleepiness Index: A New Instrument to Assess Excessive Daytime Sleepiness in Sleep Disordered Breathing. <i>Journal of Clinical Sleep Medicine</i> , 2015, 11, 1289-1298.	1.4	19
53	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
54	Effects of a Combined Community Exercise Program in Obstructive Sleep Apnea Syndrome: A Randomized Clinical Trial. <i>Journal of Clinical Medicine</i> , 2019, 8, 361.	1.0	19

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55	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.	1.3	19
56	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> , 2021, 39, 302-309.	0.3	19
57	Assessment of upper airway mechanics during sleep. <i>Respiratory Physiology and Neurobiology</i> , 2008, 163, 74-81.	0.7	18
58	Potential Role of Adult Stem Cells in Obstructive Sleep Apnea. <i>Frontiers in Neurology</i> , 2012, 3, 112.	1.1	18
59	Comparative assessment of several automatic CPAP devices' responses: a bench test study. <i>ERJ Open Research</i> , 2015, 1, 00031-2015.	1.1	17
60	Obstructive Apneas Induce Early Release of Mesenchymal Stem Cells into Circulating Blood. <i>Sleep</i> , 2009, , .	0.6	16
61	Non-invasive system for applying airway obstructions to model obstructive sleep apnea in mice. <i>Respiratory Physiology and Neurobiology</i> , 2011, 175, 164-168.	0.7	16
62	Chronic intermittent hypoxia preserves bone density in a mouse model of sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , 2013, 189, 646-648.	0.7	16
63	The role of telemedicine and mobile health in the monitoring of sleep-breathing disorders: improving patient outcomes. <i>Smart Homecare Technology and Telehealth</i> , 0, Volume 4, 1-11.	0.3	15
64	Mobile health application to support CPAP therapy in obstructive sleep apnoea: design, feasibility and perspectives. <i>ERJ Open Research</i> , 2020, 6, 00220-2019.	1.1	15
65	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> , 2021, 57, 165-171.	0.4	15
66	Management of Sleep Apnea. <i>Chest</i> , 2007, 132, 1853-1857.	0.4	14
67	Optimizing screening of severe obstructive sleep apnea in patients undergoing bariatric surgery. <i>Surgery for Obesity and Related Diseases</i> , 2013, 9, 539-546.	1.0	14
68	Should the diagnosis and management of OSA move into general practice?. <i>Breathe</i> , 2016, 12, 243-247.	0.6	14
69	The role of telemedicine in obstructive sleep apnea management. <i>Expert Review of Respiratory Medicine</i> , 2017, 11, 699-709.	1.0	14
70	Potential Rebreathing After Continuous Positive Airway Pressure Failure During Sleep. <i>Chest</i> , 2002, 121, 196-200.	0.4	13
71	Correntropy measures to detect daytime sleepiness from EEG signals. <i>Physiological Measurement</i> , 2014, 35, 2067-2083.	1.2	13
72	Technology for noninvasive mechanical ventilation: looking into the black box. <i>ERJ Open Research</i> , 2016, 2, 00004-2016.	1.1	13

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73	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.	1.2	13
74	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.	1.5	13
75	Lung cancer aggressiveness in an intermittent hypoxia murine model of postmenopausal sleep apnea. <i>Menopause</i> , 2020, 27, 706-713.	0.8	13
76	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> , 2017, 26, 773-781.	1.7	12
77	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, .	0.6	11
78	Automatic continuous positive airway pressure devices for the treatment of sleep apnea hypopnea syndrome. <i>Sleep Medicine</i> , 2001, 2, 95-98.	0.8	10
79	Efecto de la presión positiva continua nasal sobre las fosas nasales de pacientes con síndrome de apneas del sueño sin patología nasal previa. Factores predictivos de cumplimiento. <i>Archivos De Bronconeumología</i> , 2016, 52, 519-526.	0.4	10
80	Acetylsalicylic Acid Prevents Intermittent Hypoxia-Induced Vascular Remodeling in a Murine Model of Sleep Apnea. <i>Frontiers in Physiology</i> , 2018, 9, 600.	1.3	10
81	New organisation for follow-up and assessment of treatment efficacy in sleep apnoea. <i>European Respiratory Review</i> , 2019, 28, 190059.	3.0	10
82	Telemedicine Strategy for CPAP Titration and Early Follow-up for Sleep Apnea During COVID-19 and Post-Pandemic Future. <i>Archivos De Bronconeumología</i> , 2021, 57, 56-58.	0.4	10
83	Central Sleep Apnoea Is Related to the Severity and Short-Term Prognosis of Acute Coronary Syndrome. <i>PLoS ONE</i> , 2016, 11, e0167031.	1.1	10
84	[Translated article] International consensus document on obstructive sleep apnea. <i>Archivos De Bronconeumología</i> , 2022, 58, T52-T68.	0.4	10
85	Breathing Flow Disturbances during Sleep. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 166, 259-260.	2.5	9
86	Effects of heated humidification on nasal inflammation in a CPAP rat model. <i>Sleep Medicine</i> , 2010, 11, 413-416.	0.8	9
87	Negative Expiratory Pressure Technique: An Awake Test to Measure Upper Airway Collapsibility in Adolescents. <i>Sleep</i> , 2015, 38, 1783-1791.	0.6	9
88	Good long-term adherence to continuous positive airway pressure therapy in patients with resistant hypertension and sleep apnea. <i>Journal of Sleep Research</i> , 2019, 28, e12805.	1.7	9
89	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> , 2020, 8, e16395.	1.8	9
90	Novel Approach to Simulate Sleep Apnea Patients for Evaluating Positive Pressure Therapy Devices. <i>PLoS ONE</i> , 2016, 11, e0151530.	1.1	8

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91	SleepPos App: An Automated Smartphone Application for Angle Based High Resolution Sleep Position Monitoring and Treatment. <i>Sensors</i> , 2021, 21, 4531.	2.1	8
92	Plant Material Exchanged between James Petiver (ca . 1663â€“1718) and Joan Salvador I Riera (1683â€“1725). I. The Balearic Plants Conserved in the Bc-Salvador and Bm-Sloane Herbaria. <i>Notes and Records of the Royal Society</i> , 2006, 60, 241-248.	0.1	7
93	Increased upper airway collapsibility in a mouse model of Marfan syndrome. <i>Respiratory Physiology and Neurobiology</i> , 2015, 207, 58-60.	0.7	7
94	Enhanced Monitoring of Sleep Position in Sleep Apnea Patients: Smartphone Triaxial Accelerometry Compared with Video-Validated Position from Polysomnography. <i>Sensors</i> , 2021, 21, 3689.	2.1	7
95	Relationship of peak exercise capacity with indexes of peripheral muscle vasodilation. <i>Medicine and Science in Sports and Exercise</i> , 1996, 28, 1254-1259.	0.2	7
96	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> , 2016, 11, e0147686.	1.1	6
97	New Technologies to Detect Static and Dynamic Upper Airway Obstruction During Sleep. <i>Sleep and Breathing</i> , 2001, 5, 193-206.	0.9	6
98	Gender differences in treatment recommendations for sleep apnea. <i>Clinical Practice (London, England)</i> , 2010, 10, 50-52.	0.1	5
99	Sleep medicine certification for physicians in Spain. <i>European Respiratory Journal</i> , 2015, 45, 1189-1191.	3.1	5
100	Parabolic model for differentiating local and systemic effects of continuous and intermittent hypoxia. <i>Journal of Applied Physiology</i> , 2015, 118, 42-47.	1.2	5
101	Sleep breathing disorders: have we reached the tipping point?. <i>ERJ Open Research</i> , 2018, 4, 00172-2017.	1.1	5
102	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> , 2021, 57, 281-290.	0.4	5
103	How to use the nasal pressure in clinical practice. <i>Sleep Medicine</i> , 2003, 4, 381-383.	0.8	4
104	Nuevos aspectos patogÃ©nicos en el sÃ­ndrome de apneas e hipopneas durante el sueÃ±o (SAHS). <i>Archivos De Bronconeumologia</i> , 2007, 43, 40-47.	0.4	4
105	Abarcando el problema del sÃ­ndrome de apneas-hipopneas del sueÃ±o desde la gestiÃ³n en red: unidades asistenciales. <i>Archivos De Bronconeumologia</i> , 2017, 53, 184-185.	0.4	4
106	Telemedicine in Sleep Apnea: A Simple Approach for Nasal Pressure (CPAP) Treatment. <i>Archivos De Bronconeumologia</i> , 2018, 54, 491-492.	0.4	4
107	Telemedicine Strategy to Rescue CPAP Therapy in Sleep Apnea Patients with Low Treatment Adherence: A Pilot Study. <i>Journal of Clinical Medicine</i> , 2021, 10, 4123.	1.0	4
108	Effect of Using the Flow or the Volume Signals on the Measurement of Nonapneic Respiratory Events. <i>Sleep</i> , 2005, 28, 990-992.	0.6	3

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109	Accuracy of one-night actigraphy for estimating sleep in patients with sleep apnea. <i>Sleep Medicine</i> , 2019, 63, 3-4.	0.8	3
110	Regularity of Cardiac Rhythm as a Marker of Sleepiness in Sleep Disordered Breathing. <i>PLoS ONE</i> , 2015, 10, e0122645.	1.1	3
111	Home Studies for Diagnosing Sleep Apnea Hypopnea Syndrome. <i>Clinical Pulmonary Medicine</i> , 2003, 10, 162-169.	0.3	2
112	An improved telemedicine system for remote titration and optimization of Home Mechanical Ventilation. , 2010, , .		2
113	Effects of CPAP on Daytime Function. <i>Sleep</i> , 2011, 34, 821-821.	0.6	2
114	Is There an Optimal Nasal Pressure for Treating Obstructive Sleep Apnea? And If So, What Is It?. <i>Sleep</i> , 2013, 36, 463-4.	0.6	2
115	Characterization of Daytime Sleepiness by Time-Frequency Measures of EEG Signals. <i>Journal of Medical and Biological Engineering</i> , 2015, 35, 406-417.	1.0	2
116	Los trastornos respiratorios durante el sueño 2018: una nueva dimensión. <i>Archivos De Bronconeumología</i> , 2019, 55, 122-123.	0.4	2
117	Ambulatory circadian monitoring in sleep disordered breathing patients and CPAP treatment. <i>Scientific Reports</i> , 2021, 11, 14711.	1.6	2
118	Telematic Multi-physician Decision-making for Improving CPAP Prescription in Sleep Apnoea. <i>Archivos De Bronconeumología</i> , 2019, 55, 604-606.	0.4	2
119	Telemedicine in Sleep Apnea: A Simple Approach for Nasal Pressure (CPAP) Treatment. <i>Archivos De Bronconeumología</i> , 2018, 54, 491-492.	0.4	1
120	Respiratory Disorders During Sleep: A New Dimension for 2018. <i>Archivos De Bronconeumología</i> , 2019, 55, 122-123.	0.4	1
121	Intra- and Inter-Physician Agreement in Therapeutic Decision for Sleep Apnea Syndrome. <i>Archivos De Bronconeumología</i> , 2020, 56, 18-22.	0.4	1
122	Intra- and Inter-Physician Agreement in Therapeutic Decision for Sleep Apnea Syndrome. <i>Archivos De Bronconeumología</i> , 2020, 56, 18-22.	0.4	1
123	Supporting patients receiving CPAP treatment: the role of training and telemedicine. , 2015, , 280-292.		1
124	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> , 2022, 19, 6034.	1.2	1
125	Quality Assessment of Real-Life Performance of Home Mechanical Ventilators. <i>Archivos De Bronconeumología</i> , 2020, 56, 258-259.	0.4	0