Thomas Penzel

List of Publications by Year
in descending order

566 papers	20,620 citations	16411 64 h-index	15683 125 g-index
683 all docs	683 docs citations	683 times ranked	14949 citing authors

#	Article	IF	Citations
1	Estimation of the global prevalence and burden of obstructive sleep apnoea: a literature-based analysis. Lancet Respiratory Medicine,the, 2019, 7, 687-698.	5.2	1,866
2	Cohort Profile: The Study of Health in Pomerania. International Journal of Epidemiology, 2011, 40, 294-307.	0.9	876
3	Effect of Nasal Continuous Positive Airway Pressure Treatment on Blood Pressure in Patients With Obstructive Sleep Apnea. Circulation, 2003, 107, 68-73.	1.6	844
4	The Visual Scoring of Sleep in Adults. Journal of Clinical Sleep Medicine, 2007, 03, 121-131.	1.4	821
5	Correlated and Uncorrelated Regions in Heart-Rate Fluctuations during Sleep. Physical Review Letters, 2000, 85, 3736-3739.	2.9	495
6	Comparison of detrended fluctuation analysis and spectral analysis for heart rate variability in sleep and sleep apnea. IEEE Transactions on Biomedical Engineering, 2003, 50, 1143-1151.	2.5	400
7	Systematic comparison of different algorithms for apnoea detection based on electrocardiogram recordings. Medical and Biological Engineering and Computing, 2002, 40, 402-407.	1.6	366
8	The visual scoring of sleep in adults. Journal of Clinical Sleep Medicine, 2007, 3, 121-31.	1.4	333
9	Therapeutic Electrical Stimulation of the Hypoglossal Nerve in Obstructive Sleep Apnea. JAMA Otolaryngology, 2001, 127, 1216.	1.5	268
10	An E-Health Solution for Automatic Sleep Classification according to Rechtschaffen and Kales: Validation Study of the Somnolyzer 24 × 7 Utilizing the Siesta Database. Neuropsychobiology, 2005, 51, 115-133.	0.9	251
11	Common scale-invariant patterns of sleep-wake transitions across mammalian species. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17545-17548.	3.3	231
12	A randomized controlled study of pergolide in patients with restless legs syndrome. Neurology, 1999, 52, 944-944.	1.5	220
13	The apnea-ECG database. , 0, , .		209
14	Computer based sleep recording and analysis. Sleep Medicine Reviews, 2000, 4, 131-148.	3.8	206
15	Prevalence and association analysis of obstructive sleep apnea with gender and age differences – Results of SHIP-Trend. Journal of Sleep Research, 2019, 28, e12770.	1.7	201
16	Phase transitions in physiologic coupling. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10181-10186.	3.3	199
17	Expiratory flow limitation and intrinsic positive end-expiratory pressure in obesity. Journal of Applied Physiology, 1998, 85, 1236-1243.	1.2	196
18	Diabetes Mellitus Prevalence and Control in Sleep-Disordered Breathing. Chest, 2014, 146, 982-990.	0.4	192

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19	Recommendations for the management of patients with obstructive sleep apnoea and hypertension. European Respiratory Journal, 2013, 41, 523-538.	3.1	190
20	Sleep-related Breathing Disorder Is an Independent Risk Factor for Systemic Hypertension. American Journal of Respiratory and Critical Care Medicine, 1999, 160, 1875-1882.	2.5	189
21	Position paper on the management of patients with obstructive sleep apnea and hypertension. Journal of Hypertension, 2012, 30, 633-646.	0.3	179
22	Experimental Evidence for Phase Synchronization Transitions in the Human Cardiorespiratory System. Physical Review Letters, 2007, 98, 054102.	2.9	177
23	Insomnia, anxiety, and depression during the COVID-19 pandemic: an international collaborative study. Sleep Medicine, 2021, 87, 38-45.	0.8	177
24	Interrater reliability between scorers from eight European sleep laboratories in subjects with different sleep disorders. Journal of Sleep Research, 2004, 13, 63-69.	1.7	175
25	Agreement of different methods for assessing sleep characteristics: a comparison of two actigraphs, wrist and hip placement, and self-report with polysomnography. Sleep Medicine, 2014, 15, 1107-1114.	0.8	175
26	Effects of continuous positive airway pressure on blood pressure in patients with resistant hypertension and obstructive sleep apnea. Journal of Hypertension, 2014, 32, 2341-2350.	0.3	170
27	On the rise and fall of the apneaâ hypopnea index: A historical review and critical appraisal. Journal of Sleep Research, 2020, 29, e13066.	1.7	167
28	Dynamics of sleep-wake transitions during sleep. Europhysics Letters, 2002, 57, 625-631.	0.7	165
29	A review of signals used in sleep analysis. Physiological Measurement, 2014, 35, R1-R57.	1.2	165
30	Characterization of sleep stages by correlations in the magnitude and sign of heartbeat increments. Physical Review E, 2002, 65, 051908.	0.8	161
31	Effect of Sleep Position and Sleep Stage on the Collapsibility of the Upper Airways in Patients with Sleep Apnea. Sleep, 2001, 24, 90-95.	0.6	159
32	The SIESTA project polygraphic and clinical database. IEEE Engineering in Medicine and Biology Magazine, 2001, 20, 51-57.	1.1	156
33	Recognizable clinical subtypes of obstructive sleep apnea across international sleep centers: a cluster analysis. Sleep, 2018, 41, .	0.6	148
34	Blood Pressure and Sleep Apnea: Results of Long-Term Nasal Continuous Positive Airway Pressure Therapy. Cardiology, 1991, 79, 84-92.	0.6	146
35	Sleep Apnea Screening by Autoregressive Models From a Single ECG Lead. IEEE Transactions on Biomedical Engineering, 2009, 56, 2838-2850.	2.5	132
36	Modulations of Heart Rate, ECG, and Cardio-Respiratory Coupling Observed in Polysomnography. Frontiers in Physiology, 2016, 7, 460.	1.3	129

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37	A Review of Obstructive Sleep Apnea Detection Approaches. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 825-837.	3.9	128
38	The European Sleep Apnoea Database (ESADA): report from 22 European sleep laboratories. European Respiratory Journal, 2011, 38, 635-642.	3.1	123
39	Dynamics of Heart Rate and Sleep Stages in Normals and Patients with Sleep Apnea. Neuropsychopharmacology, 2003, 28, S48-S53.	2.8	122
40	Arousal in patients with gastro-oesophageal reflux and sleep apnoea. European Respiratory Journal, 1999, 14, 1266-1270.	3.1	121
41	Agreement in the Scoring of Respiratory Events and Sleep Among International Sleep Centers. Sleep, 2013, 36, 591-596.	0.6	120
42	Orexin Receptor Antagonism, a New Sleep-Enabling Paradigm: A Proof-of-Concept Clinical Trial. Clinical Pharmacology and Therapeutics, 2012, 91, 975-985.	2.3	119
43	Clinical Phenotypes and Comorbidity in European Sleep Apnoea Patients. PLoS ONE, 2016, 11, e0163439.	1.1	118
44	Automated detection of obstructive sleep apnoea at different time scales using the electrocardiogram. Physiological Measurement, 2004, 25, 967-983.	1.2	110
45	MESAM: A Heart Rate and Snoring Recorder for Detection of Obstructive Sleep Apnea. Sleep, 1990, 13, 175-182.	0.6	106
46	SLEEP QUALITY IN PROFESSIONAL BALLET DANCERS. Chronobiology International, 2009, 26, 1249-1262.	0.9	103
47	Automatic screening of obstructive sleep apnea from the ECG based on empirical mode decomposition and wavelet analysis. Physiological Measurement, 2010, 31, 273-289.	1.2	101
48	The Relationship between Normal Lung Sounds, Age, and Gender. American Journal of Respiratory and Critical Care Medicine, 2000, 162, 905-909.	2.5	100
49	Long-term effects of pergolide in the treatment of restless legs syndrome. Neurology, 2001, 56, 1399-1402.	1.5	100
50	Quantification of Tonic and Phasic Muscle Activity in REM Sleep Behavior Disorder. Journal of Clinical Neurophysiology, 2008, 25, 48-55.	0.9	98
51	Aging Effects on Cardiac and Respiratory Dynamics in Healthy Subjects across Sleep Stages. Sleep, 2010, 33, 943-955.	0.6	97
52	Sleep apnea and pulmonary hypertension. Klinische Wochenschrift, 1986, 64, 131-134.	0.6	96
53	The diagnostic method has a strong influence on classification of obstructive sleep apnea. Journal of Sleep Research, 2015, 24, 730-738.	1.7	95
54	Rotigotine transdermal patch in moderate to severe idiopathic restless legs syndrome: A randomized, placebo-controlled polysomnographic study. Sleep Medicine, 2010, 11, 848-856.	0.8	86

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55	Devices for home detection of obstructive sleep apnea: A review. Sleep Medicine Reviews, 2018, 41, 149-160.	3.8	86
56	Bi-level positive pressure ventilation and adaptive servo ventilation in patients with heart failure and Cheyne-Stokes respiration. Sleep Medicine, 2008, 9, 652-659.	0.8	85
57	Influence of noninvasive positive pressure ventilation on inspiratory muscle activity in obese subjects. European Respiratory Journal, 1997, 10, 2847-2852.	3.1	83
58	Sympathetic activity is reduced by nCPAP in hypertensive obstructive sleep apnoea patients. European Respiratory Journal, 2004, 23, 255-262.	3.1	81
59	Digital Analysis and Technical Specifications. Journal of Clinical Sleep Medicine, 2007, 03, 109-120.	1.4	79
60	New technology to assess sleep apnea: wearables, smartphones, and accessories. F1000Research, 2018, 7, 413.	0.8	74
61	A comparison of radio-frequency biomotion sensors and actigraphy versus polysomnography for the assessment of sleep in normal subjects. Sleep and Breathing, 2015, 19, 91-98.	0.9	72
62	German S3âGuideline Nonrestorative Sleep/Sleep Disorders, chapter â€œSleep-Related Breathing Disorders in Adults,â€•short version. Somnologie, 2017, 21, 290-301.	0.9	72
63	Sleep fragmentation and daytime vigilance in patients with OSA treated by surgical maxillomandibular advancement compared to CPAP therapy. Journal of Sleep Research, 1998, 7, 217-223.	1.7	69
64	Peripheral arterial tonometry, oximetry and actigraphy for ambulatory recording of sleep apnea. Physiological Measurement, 2004, 25, 1025-1036.	1.2	66
65	ECG signal analysis for the assessment of sleep-disordered breathing and sleep pattern. Medical and Biological Engineering and Computing, 2012, 50, 135-144.	1.6	66
66	Sleep apnoea severity independently predicts glycaemic health in nondiabetic subjects: the ESADA study. European Respiratory Journal, 2014, 44, 130-139.	3.1	65
67	Multiethnic Meta-Analysis Identifies *RAI1* as a Possible Obstructive Sleep Apneaâ€"related Quantitative Trait Locus in Men. American Journal of Respiratory Cell and Molecular Biology, 2018, 58, 391-401.	1.4	65
68	Cardiovascular and respiratory dynamics during normal and pathological sleep. Chaos, 2007, 17, 015116.	1.0	62
69	Obstructive sleep apnoea independently predicts lipid levels: Data from the European Sleep Apnea Database. Respirology, 2018, 23, 1180-1189.	1.3	62
70	Percentile Reference Charts for Selected Sleep Parameters for 20- to 80-Year-Old Healthy Subjects from the SIESTA Database. Referenzkurven fur ausgewahlte Schlafparameter 20- bis 80-jahriger gesunder Personen aus der SIESTA-Datenbank. Somnologie, 2005, 9, 3-14.	0.9	61
71	Cardiac autonomic modulation and sleepiness: Physiological consequences of sleep deprivation due to 40 h of prolonged wakefulness. Physiology and Behavior, 2014, 125, 45-53.	1.0	61
72	An Algorithm for Real-Time Pulse Waveform Segmentation and Artifact Detection in Photoplethysmograms. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 372-381.	3.9	61

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73	A Review of Approaches for Sleep Quality Analysis. IEEE Access, 2019, 7, 24527-24546.	2.6	61
74	Medico-legal implications of sleep apnoea syndrome: Driving license regulations in Europe. Sleep Medicine, 2008, 9, 362-375.	0.8	60
75	Deep Learning and Insomnia: Assisting Clinicians With Their Diagnosis. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1546-1553.	3.9	60
76	Chronic kidney disease in European patients with obstructive sleep apnea: the <scp>ESADA</scp> cohort study. Journal of Sleep Research, 2016, 25, 739-745.	1.7	59
77	Acquisition of biomedical signals databases. IEEE Engineering in Medicine and Biology Magazine, 2001, 20, 25-32.	1.1	58
78	Breathing during REM and non-REM sleep: correlated versus uncorrelated behaviour. Physica A: Statistical Mechanics and Its Applications, 2003, 319, 447-457.	1.2	58
79	Nonrandom Variability of Respiration During Sleep in Healthy Humans. Sleep, 2005, 28, 411-417.	0.6	58
80	Automatic CPAP titration with different self-setting devices in patients with obstructive sleep apnoea. European Respiratory Journal, 2004, 24, 273-278.	3.1	57
81	Positive Airway Pressure Initiation: A Randomized Controlled Trial to Assess the Impact of Therapy Mode and Titration Process on Efficacy, Adherence, and Outcomes. Sleep, 2011, 34, 1083-92.	0.6	57
82	Reinventing polysomnography in the age of precision medicine. Sleep Medicine Reviews, 2020, 52, 101313.	3.8	57
83	Prevalence of sleep apnea-related symptoms in a Persian population. Sleep and Breathing, 2011, 15, 425-429.	0.9	55
84	ASSESSMENT OF FEATURE SELECTION AND CLASSIFICATION APPROACHES TO ENHANCE INFORMATION FROM OVERNIGHT OXIMETRY IN THE CONTEXT OF APNEA DIAGNOSIS. International Journal of Neural Systems, 2013, 23, 1350020.	3.2	55
85	The SleepStripTM: an apnoea screener for the early detection of sleep apnoea syndrome. European Respiratory Journal, 2002, 19, 121-126.	3.1	54
86	Aircraft noise: Effects on macro- and microstructure of sleep. Sleep Medicine, 2008, 9, 382-387.	0.8	54
87	Sleep and circadian problems during the coronavirus disease 2019 (COVIDâ€19) pandemic: the International COVIDâ€19 Sleep Study (ICOSS). Journal of Sleep Research, 2021, 30, e13206.	1.7	54
88	Detection of Sleep Apnea from surface ECG based on features extracted by an Autoregressive Model. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6106-9.	0.5	53
89	Management of obstructive sleep apnea in Europe. Sleep Medicine, 2011, 12, 190-197.	0.8	53
90	A Global Comparison of Anatomic Risk Factors and Their Relationship to Obstructive Sleep Apnea Severity in Clinical Samples. Journal of Clinical Sleep Medicine, 2019, 15, 629-639.	1.4	49

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91	Deep Recurrent Neural Networks for Automatic Detection of Sleep Apnea from Single Channel Respiration Signals. Sensors, 2020, 20, 5037.	2.1	48
92	European Respiratory Society statement on sleep apnoea, sleepiness and driving risk. European Respiratory Journal, 2021, 57, 2001272.	3.1	48
93	Detection of time-delayed interactions in biosignals using symbolic coupling traces. Europhysics Letters, 2009, 87, 10004.	0.7	47
94	AASM standards of practice compliant validation of actigraphic sleep analysis from SOMNOwatchâ„¢ versus polysomnographic sleep diagnostics shows high conformity also among subjects with sleep disordered breathing. Physiological Measurement, 2010, 31, 1623-1633.	1.2	46
95	Driving habits and risk factors for traffic accidents among sleep apnea patients â€" a <scp>E</scp>uropean multiâ€centre cohort study. Journal of Sleep Research, 2014, 23, 689-699.	1.7	46
96	Causality in physiological signals. Physiological Measurement, 2016, 37, R46-R72.	1.2	46
97	Detecting central sleep apnea in adult patients using WatchPATâ€"a multicenter validation study. Sleep and Breathing, 2020, 24, 387-398.	0.9	46
98	Inter-scorer Reliability between Sleep Centers Can Teach Us What to Improve in the Scoring Rules. Journal of Clinical Sleep Medicine, 2013, 09, 89-91.	1.4	46
99	Cardio-Respiratory Coordination Increases during Sleep Apnea. PLoS ONE, 2014, 9, e93866.	1.1	45
100	Standards for biomedical signal databases. IEEE Engineering in Medicine and Biology Magazine, 2001, 20, 33-37.	1.1	43
101	Oxygen Saturation and RR Intervals Feature Selection for Sleep Apnea Detection. Entropy, 2015, 17, 2932-2957.	1.1	43
102	Perception of sleep: Subjective versus objective sleep parameters in patients with Parkinsonâ€™s disease in comparison with healthy elderly controls. Journal of Neurology, 2005, 252, 936-943.	1.8	42
103	Cross-Modulated Amplitudes and Frequencies Characterize Interacting Components in Complex Systems. Physical Review Letters, 2009, 102, 098701.	2.9	42
104	Severity of individual obstruction events increases with age in patients with obstructive sleep apnea. Sleep Medicine, 2017, 37, 32-37.	0.8	42
105	Evening-types show highest increase of sleep and mental health problems during the COVID-19 pandemicâ€"multinational study on 19 267 adults. Sleep, 2022, 45, .	0.6	42
106	Automatic Pressure Titration with APAP Is as Effective as Manual Titration with CPAP in Patients with Obstructive Sleep Apnea. Respiration, 2007, 74, 279-286.	1.2	41
107	The use of tracheal sounds for the diagnosis of sleep apnoea. Breathe, 2017, 13, e37-e45.	0.6	41
108	Sleep and daytime problems during the COVID-19 pandemic and effects of coronavirus infection, confinement and financial suffering: a multinational survey using a harmonised questionnaire. BMJ Open, 2021, 11, e050672.	0.8	41

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109	Sleep apnea symptoms and accident risk factors in Persian commercial vehicle drivers. Sleep and Breathing, 2012, 16, 187-191.	0.9	40
110	Detection of Respiratory Arousals Using Photoplethysmography (PPG) Signal in Sleep Apnea Patients. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1065-1073.	3.9	40
111	Guidelines for the Recording and Evaluation of Pharmaco-Sleep Studies in Man: The International Pharmaco-EEG Society (IPEG). Neuropsychobiology, 2013, 67, 127-167.	0.9	39
112	Feasibility of noise reduction by a modification in ICU environment. Physiological Measurement, 2016, 37, 1041-1055.	1.2	39
113	Screening for obstructive sleep apnea with novel hybrid acoustic smartphone app technology. Journal of Thoracic Disease, 2020, 12, 4476-4495.	0.6	39
114	Comparison of effects of OSA treatment by MAD and by CPAP on cardiac autonomic function during daytime. Sleep and Breathing, 2016, 20, 635-646.	0.9	38
115	Sleep as a Novel Biomarker and a Promising Therapeutic Target for Cerebral Small Vessel Disease: A Review Focusing on Alzheimer's Disease and the Blood-Brain Barrier. International Journal of Molecular Sciences, 2020, 21, 6293.	1.8	38
116	Process and outcome for international reliability in sleep scoring. Sleep and Breathing, 2015, 19, 191-195.	0.9	37
117	The association between high risk of sleep apnea, comorbidities, and risk of COVID-19: a population-based international harmonized study. Sleep and Breathing, 2021, 25, 849-860.	0.9	37
118	Unattended continuous positive airway pressure titration. Clinical relevance and cardiorespiratory hazards of the method.. American Journal of Respiratory and Critical Care Medicine, 1996, 154, 359-365.	2.5	34
119	Sex Hormones and Sleep in Men and Women From the General Population: A Cross-Sectional Observational Study. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 3968-3977.	1.8	34
120	Prevalence and associated risk factors of periodic limb movement in sleep in two German population-based studies. Sleep, 2019, 42, .	0.6	34
121	Clusters of sleep apnoea phenotypes: A large pan-European study from the European Sleep Apnoea Database (ESADA). Respirology, 2021, 26, 378-387.	1.3	34
122	Heart rate variability during wakefulness as a marker of obstructive sleep apnea severity. Sleep, 2021, 44, .	0.6	34
123	Characterization of Respiratory Events in Obstructive Sleep Apnea Using Suprasternal Pressure Monitoring. Journal of Clinical Sleep Medicine, 2018, 14, 359-369.	1.4	33
124	Validation of the persian version of berlin sleep questionnaire for diagnosing obstructive sleep apnea. International Journal of Preventive Medicine, 2013, 4, 334-9.	0.2	33
125	Comparability of pulse oximeters used in sleep medicine for the screening of OSA. Physiological Measurement, 2010, 31, 875-888.	1.2	32
126	Comparison of Apnea Detection Using Oronasal Thermal Airflow Sensor, Nasal Pressure Transducer, Respiratory Inductance Plethysmography and Tracheal Sound Sensor. Journal of Clinical Sleep Medicine, 2019, 15, 285-292.	1.4	32

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127	Does short-term treatment with modafinil affect blood pressure in patients with obstructive sleep apnea?. Clinical Pharmacology and Therapeutics, 1999, 65, 328-335.	2.3	31
128	Comparison of Berlin Questionnaire, STOP-Bang, and Epworth Sleepiness Scale for Diagnosing Obstructive Sleep Apnea in Persian Patients. International Journal of Preventive Medicine, 2018, 9, 28.	0.2	31
129	Investigation of an Automatic Sleep Stage Classification by Means of Multiscorer Hypnogram. Methods of Information in Medicine, 2010, 49, 467-472.	0.7	30
130	Cardiovascular regulation during sleep quantified by symbolic coupling traces. Chaos, 2010, 20, 045124.	1.0	30
131	Symbolic dynamics marker of heart rate variability combined with clinical variables enhance obstructive sleep apnea screening. Chaos, 2014, 24, 024404.	1.0	30
132	Fixed But Not Autoadjusting Positive Airway Pressure Attenuates the Time-dependent Decline in Glomerular Filtration Rate in Patients With OSA. Chest, 2018, 154, 326-334.	0.4	30
133	How our Dreams Changed During the COVID-19 Pandemic: Effects and Correlates of Dream Recall Frequency - a Multinational Study on 19,355 Adults. Nature and Science of Sleep, 2021, Volume 13, 1573-1591.	1.4	30
134	Agreement in the Scoring of Respiratory Events Among International Sleep Centers for Home Sleep Testing. Journal of Clinical Sleep Medicine, 2016, 12, 71-77.	1.4	30
135	Empfehlungen zur computergestützten Aufzeichnung und Auswertung von Polygraphien. Somnologie, 1998, 2, 42-48.	0.9	29
136	Alpha‐wave frequency characteristics in health and insomnia during sleep. Journal of Sleep Research, 2016, 25, 278-286.	1.7	29
137	Watch-PAT is Useful in the Diagnosis of Sleep Apnea in Patients with Atrial Fibrillation . Nature and Science of Sleep, 2020, Volume 12, 1115-1121.	1.4	29
138	Sleep – the yet underappreciated player in cardiovascular diseases: A clinical review from the German Cardiac Society Working Group on Sleep Disordered Breathing. European Journal of Preventive Cardiology, 2021, 28, 189-200.	0.8	29
139	Night Photostimulation of Clearance of Beta-Amyloid from Mouse Brain: New Strategies in Preventing Alzheimer's Disease. Cells, 2021, 10, 3289.	1.8	29
140	Digital analysis and technical specifications. Journal of Clinical Sleep Medicine, 2007, 3, 109-20.	1.4	29
141	Automatic sleep stages classification using respiratory, heart rate and movement signals. Physiological Measurement, 2018, 39, 124008.	1.2	28
142	Inter-rater agreement in sleep stage classification between centers with different backgrounds. Somnologie, 2008, 12, 75-84.	0.9	27
143	Auto bi-level pressure relief–PAP is as effective as CPAP in OSA patients—a pilot study. Sleep and Breathing, 2012, 16, 773-779.	0.9	27
144	Pre-operative screening for obstructive sleep apnoea. European Respiratory Review, 2017, 26, 160012.	3.0	27

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145	Associations between sleep apnea and advanced brain aging in a large-scale population study. Sleep, 2021, 44, .	0.6	27
146	Interrater sleep stage scoring reliability between manual scoring from two European sleep centers and automatic scoring performed by the artificial intelligence–based Stanford-STAGES algorithm. Journal of Clinical Sleep Medicine, 2021, 17, 1237-1247.	1.4	27
147	Brain Mechanisms of COVID-19-Sleep Disorders. International Journal of Molecular Sciences, 2021, 22, 6917.	1.8	26
148	The Different Facets of Heart Rate Variability in Obstructive Sleep Apnea. Frontiers in Psychiatry, 2021, 12, 642333.	1.3	26
149	Electrical stimulation of upper airway musculature. Sleep, 1996, 19, S284-7.	0.6	26
150	On Applying Continuous Wavelet Transform in Wheeze Analysis. , 2004, 2004, 3832-5.		25
151	Detection of cardiovascular risk from a photoplethysmographic signal using a matching pursuit algorithm. Medical and Biological Engineering and Computing, 2016, 54, 1111-1121.	1.6	25
152	Association Between Obstructive Sleep Apnea and Brain White Matter Hyperintensities in a Population-Based Cohort in Germany. JAMA Network Open, 2021, 4, e2128225.	2.8	25
153	Nightmares in People with COVID-19: Did Coronavirus Infect Our Dreams?. Nature and Science of Sleep, 2022, Volume 14, 93-108.	1.4	25
154	A method for automated temporal knowledge acquisition applied to sleep-related breathing disorders. Artificial Intelligence in Medicine, 2001, 23, 211-237.	3.8	24
155	Is heart rate variability the simple solution to diagnose sleep apnoea?. European Respiratory Journal, 2003, 22, 870-971.	3.1	24
156	Stimulating rapid research advances via focused competition: the Computers in Cardiology Challenge 2000. , 0, , .		23
157	Genetic aspects of hypertension and metabolic disease in the obstructive sleep apnoea–hypopnoea syndrome. Sleep Medicine Reviews, 2008, 12, 49-63.	3.8	23
158	Automated synchrogram analysis applied to heartbeat and reconstructed respiration. Chaos, 2009, 19, 015106.	1.0	23
159	Endothelin-1 Gene Variant Lys198Asn and Plasma Endothelin Level in Obstructive Sleep Apnea. Cardiology, 2009, 112, 62-68.	0.6	23
160	Actigraphy combined with EEG compared to polysomnography in sleep apnea patients. Physiological Measurement, 2015, 36, 385-396.	1.2	23
161	Opportunities for utilizing polysomnography signals to characterize obstructive sleep apnea subtypes and severity. Physiological Measurement, 2018, 39, 09TR01.	1.2	23
162	Quality control of polysomnographic sleep data by histogram and entropy analysis. Clinical Neurophysiology, 1999, 110, 2165-2170.	0.7	22

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163	Effect of tolterodine on sleep structure modulated by CYP2D6 genotype. Sleep Medicine, 2008, 9, 579-582.	0.8	22
164	On the difference of cardiorespiratory synchronisation and coordination. Chaos, 2017, 27, 093933.	1.0	22
165	Clinical presentation of patients with suspected obstructive sleep apnea and selfâ€reported physicianâ€diagnosed asthma in the <scp>ESADA</scp> cohort. Journal of Sleep Research, 2018, 27, e12729.	1.7	22
166	A systematic comparison of factors that could impact treatment recommendations for patients with Positional Obstructive Sleep Apnea (POSA). Sleep Medicine, 2018, 50, 145-151.	0.8	22
167	Wearable Multimodal Stethoscope Patch for Wireless Biosignal Acquisition and Long-Term Auscultation. , 2019, 2019, 5781-5785.		22
168	Cancer prevalence is increased in females with sleep apnoea: data from the ESADA study. European Respiratory Journal, 2019, 53, 1900091.	3.1	22
169	Effect of CPAP therapy on daytime cardiovascular regulations in patients with obstructive sleep apnea. Computers in Biology and Medicine, 2012, 42, 328-334.	3.9	21
170	Changes of sleep-stage transitions due to ageing and sleep disorder. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140093.	1.6	21
171	Hyperlipidaemia prevalence and cholesterol control in obstructive sleep apnoea: Data from the European sleep apnea database (ESADA). Journal of Internal Medicine, 2019, 286, 676-688.	2.7	21
172	Disturbances in sleep, circadian rhythms and daytime functioning in relation to coronavirus infection and Longâ€COVID â€" A multinational ICOSS study. Journal of Sleep Research, 2022, 31, e13542.	1.7	21
173	Effect of the first night shift period on sleep in young nurse students. European Journal of Applied Physiology, 2009, 107, 707-714.	1.2	20
174	Photomodulation of lymphatic delivery of liposomes to the brain bypassing the blood-brain barrier: new perspectives for glioma therapy. Nanophotonics, 2021, 10, 3215-3227.	2.9	20
175	Multicenter data sharing for collaboration in sleep medicine. Future Generation Computer Systems, 2017, 67, 466-480.	4.9	19
176	Insomnia symptoms combined with nocturnal hypoxia associate with cardiovascular comorbidity in the European sleep apnea cohort (ESADA). Sleep and Breathing, 2019, 23, 805-814.	0.9	19
177	Respiratory Arousals in Mild Obstructive Sleep Apnea Syndrome. Sleep, 1999, 22, 583-589.	0.6	18
178	A new design of a polysomnography-based multi-center treatment study for the restless legs syndrome. Clinical Neurophysiology, 2002, 113, 571-578.	0.7	18
179	Vigilance monitoring â€" review and practical aspects. Biomedizinische Technik, 2007, 52, 77-82.	0.9	18
180	Obstructive sleep apnea and postoperative complications in patients undergoing coronary artery bypass graft surgery: a need for preventive strategies. International Journal of Preventive Medicine, 2014, 5, 1446-51.	0.2	18

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181	PERIPHERAL ARTERIAL TONOMETRY FOR THE DIAGNOSIS OF OBSTRUCTIVE SLEEP APNEA. Biomedizinische Technik, 2002, 47, 315-317.	0.9	17
182	WED: An efficient wheezing-episode detector based on breath sounds spectrogram analysis. , 0, , .		17
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