Peter Achermann

List of Publications by Year in descending order

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20817 23533 14,274 186 60 111 citations h-index g-index papers 190 190 190 9012 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Sleep Homeostasis and Models of Sleep Regulation. Journal of Biological Rhythms, 1999, 14, 559-570.	2.6	863
2	Low-frequency (<1Hz) oscillations in the human sleep electroencephalogram. Neuroscience, 1997, 81, 213-222.	2.3	621
3	Altered circadian activity rhythms and sleep in mice devoid of prion protein. Nature, 1996, 380, 639-642.	27.8	607
4	Dual electroencephalogram markers of human sleep homeostasis: correlation between theta activity in waking and slow-wave activity in sleep. Neuroscience, 2000, 101, 523-529.	2.3	424
5	A model of human sleep homeostasis based on EEG slow-wave activity: Quantitative comparison of data and simulations. Brain Research Bulletin, 1993, 31, 97-113.	3.0	396
6	Homeostatic Sleep Regulation in Adolescents. Sleep, 2005, 28, 1446-1454.	1.1	383
7	Effect of age on the sleep EEG: slow-wave activity and spindle frequency activity in young and middle-aged men. Brain Research, 1996, 738, 205-212.	2.2	379
8	Functional topography of the human nonREM sleep electroencephalogram. European Journal of Neuroscience, $2001,13,2282\text{-}2290.$	2.6	317
9	Mathematical models of sleep regulation. Frontiers in Bioscience - Landmark, 2003, 8, s683-693.	3.0	277
10	Electromagnetic fields, such as those from mobile phones, alter regional cerebral blood flow and sleep and waking EEG. Journal of Sleep Research, 2002, 11, 289-295.	3.2	269
11	Frontoâ€occipital EEG power gradients in human sleep. Journal of Sleep Research, 1997, 6, 102-112.	3.2	252
12	Spindle frequency activity in the sleep EEG: individual differences and topographical distribution. Electroencephalography and Clinical Neurophysiology, 1997, 103, 535-542.	0.3	241
13	Brain topography of the human sleep EEG. NeuroReport, 1996, 8, 123-127.	1.2	239
14	Exposure to pulsed high-frequency electromagnetic field during waking affects human sleep EEG. NeuroReport, 2000, 11, 3321-3325.	1.2	234
15	Concepts and models of sleep regulation: an overview. Journal of Sleep Research, 1992, 1, 63-79.	3.2	228
16	Pulsed high-frequency electromagnetic field affects human sleep and sleep electroencephalogram. Neuroscience Letters, 1999, 275, 207-210.	2.1	219
17	Caffeine Attenuates Waking and Sleep Electroencephalographic Markers of Sleep Homeostasis in Humans. Neuropsychopharmacology, 2004, 29, 1933-1939.	5.4	192
18	Trait-like individual differences in the human sleep electroencephalogram. Neuroscience, 2006, 138, 351-356.	2.3	186

#	Article	IF	Citations
19	Coherence analysis of the human sleep electroencephalogram. Neuroscience, 1998, 85, 1195-1208.	2.3	174
20	Development of the nocturnal sleep electroencephalogram in human infants. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 286, R528-R538.	1.8	164
21	Simulation of daytime vigilance by the additive interaction of a homeostatic and a circadian process. Biological Cybernetics, 1994, 71, 115-121.	1.3	160
22	Individual 'Fingerprints' in Human Sleep EEG Topography. Neuropsychopharmacology, 2001, 25, S57-S62.	5.4	156
23	Evolution of Neurological, Neuropsychological and Sleep-Wake Disturbances After Paramedian Thalamic Stroke. Stroke, 2008, 39, 62-68.	2.0	154
24	Brain sources of EEG gamma frequency during volitionally meditation-induced, altered states of consciousness, and experience of the self. Psychiatry Research - Neuroimaging, 2001, 108, 111-121.	1.8	150
25	Sleep Initiation and Initial Sleep Intensity: Interactions of Homeostatic and Circadian Mechanisms. Journal of Biological Rhythms, 1989, 4, 37-48.	2.6	139
26	Melatonin effect on daytime sleep in men: suppression of EEG low frequency activity and enhancement of spindle frequency activity. Neuroscience Letters, 1995, 201, 13-16.	2.1	132
27	Exposure to pulse-modulated radio frequency electromagnetic fields affects regional cerebral blood flow. European Journal of Neuroscience, 2005, 21, 1000-1006.	2.6	131
28	The Sleep EEG as a Marker of Intellectual Ability in School Age Children. Sleep, 2011, 34, 181-189.	1.1	130
29	Power and coherence of sleep spindle frequency activity following hemispheric stroke. Brain, 2002, 125, 373-383.	7.6	115
30	Functional EEG topography in sleep and waking: State-dependent and state-independent features. NeuroImage, 2006, 32, 283-292.	4.2	114
31	Fading Signatures of Critical Brain Dynamics during Sustained Wakefulness in Humans. Journal of Neuroscience, 2013, 33, 17363-17372.	3.6	113
32	Simulation of Human Sleep: Ultradian Dynamics of Electroencephalographic Slow-Wave Activity. Journal of Biological Rhythms, 1990, 5, 141-157.	2.6	109
33	Dimensional complexity and spectral properties of the human sleep EEG. Clinical Neurophysiology, 2003, 114, 199-209.	1.5	108
34	Adenosinergic Mechanisms Contribute to Individual Differences in Sleep Deprivation-Induced Changes in Neurobehavioral Function and Brain Rhythmic Activity. Journal of Neuroscience, 2006, 26, 10472-10479.	3. 6	106
35	Pulsed radioâ€frequency electromagnetic fields: doseâ€dependent effects on sleep, the sleep EEG and cognitive performance. Journal of Sleep Research, 2007, 16, 253-258.	3.2	106
36	Radio frequency electromagnetic field exposure in humans: Estimation of SAR distribution in the brain, effects on sleep and heart rate. Bioelectromagnetics, 2003, 24, 262-276.	1.6	105

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37	Intrinsic excitability measures track antiepileptic drug action and uncover increasing/decreasing excitability over the wake/sleep cycle. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14694-14699.	7.1	105
38	The EEG microstate topography is predominantly determined by intracortical sources in the alpha band. NeuroImage, 2017, 162, 353-361.	4.2	105
39	Unihemispheric enhancement of delta power in human frontal sleep EEG by prolonged wakefulness. Brain Research, 2001, 913, 220-223.	2.2	103
40	Automatic Human Sleep Stage Scoring Using Deep Neural Networks. Frontiers in Neuroscience, 2018, 12, 781.	2.8	103
41	UMTS Base Station-like Exposure, Well-Being, and Cognitive Performance. Environmental Health Perspectives, 2006, 114, 1270-1275.	6.0	101
42	Serotonin-2 Receptors and Human Sleep Effect of a Selective Antagonist on EEG Power Spectra. Neuropsychopharmacology, 1999, 21, 455-466.	5.4	99
43	Slow oscillations in human non-rapid eye movement sleep electroencephalogram: effects of increased sleep pressure. Journal of Sleep Research, 2010, 19, 228-237.	3.2	89
44	Sleep continuity and the REM-nonREM cycle in the rat under baseline conditions and after sleep deprivation. Physiology and Behavior, 1991, 49, 575-580.	2.1	84
45	Sleep Homeostasis and Models of Sleep Regulation. , 2005, , 405-417.		84
46	Sleep homeostasis in the rat in the light and dark period. Brain Research Bulletin, 2007, 74, 37-44.	3.0	84
47	The two-process model of sleep regulation revisited. Aviation, Space, and Environmental Medicine, 2004, 75, A37-43.	0.5	84
48	Development of the 24-h rest-activity pattern in human infants. , 2006, 29, 143-152.		83
49	Pulsed radio frequency radiation affects cognitive performance and the waking electroencephalogram. NeuroReport, 2007, 18, 803-807.	1.2	83
50	Sleep EEG alterations: effects of different pulseâ€modulated radio frequency electromagnetic fields. Journal of Sleep Research, 2012, 21, 50-58.	3.2	83
51	Evolution of sleep and sleep EEG after hemispheric stroke. Journal of Sleep Research, 2002, 11, 331-338.	3.2	82
52	Temporal evolution of coherence and power in the human sleep electroencephalogram. Journal of Sleep Research, 1998, 7, 36-41.	3.2	81
53	Sleep and rest facilitate auditory learning. Neuroscience, 2004, 127, 557-561.	2.3	77
54	The Multidimensional Aspects of Sleep Spindles and Their Relationship to Word-Pair Memory Consolidation. Sleep, 2015, 38, 1093-1103.	1.1	76

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55	Response to chronic sleep restriction, extension, and subsequent total sleep deprivation in humans: adaptation or preserved sleep homeostasis?. Sleep, 2018, 41, .	1.1	75
56	Sleep-wake disturbances in sporadic Creutzfeldt-Jakob disease. Neurology, 2006, 66, 1418-1424.	1.1	74
57	All-night sleep EEG and artificial stochastic control signals have similar correlation dimensions. Electroencephalography and Clinical Neurophysiology, 1994, 90, 384-387.	0.3	73
58	Selective REM sleep deprivation in humans: effects on sleep and sleep EEG. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 274, R1186-R1194.	1.8	72
59	Simulation of circadian rhythm generation in the suprachiasmatic nucleus with locally coupled self-sustained oscillators. Journal of Theoretical Biology, 2003, 224, 63-78.	1.7	70
60	Are Nocturnal Breathing, Sleep, and Cognitive Performance Impaired at Moderate Altitude (1,630–2,590) Tj E	TQq <u>Q</u> 000	rgBT/Overloc
61	Human Central Auditory Plasticity Associated With Tone Sequence Learning. Learning and Memory, 2004, 11, 162-171.	1.3	68
62	Circadian Phase and Its Relationship to Nighttime Sleep in Toddlers. Journal of Biological Rhythms, 2013, 28, 322-331.	2.6	64
63	Triangular Relationship between Sleep Spindle Activity, General Cognitive Ability and the Efficiency of Declarative Learning. PLoS ONE, 2012, 7, e49561.	2.5	64
64	Random number generation during sleep deprivation: effects of caffeine on response maintenance and stereotypy. Journal of Sleep Research, 2006, 15, 31-40.	3.2	62
65	Development of Brain EEG Connectivity across Early Childhood: Does Sleep Play a Role?. Brain Sciences, 2013, 3, 1445-1460.	2.3	61
66	Combining different models of sleep regulation. Journal of Sleep Research, 1992, 1, 144-147.	3.2	60
67	Developmental changes in brain connectivity assessed using the sleep EEG. Neuroscience, 2010, 171, 622-634.	2.3	60
68	Regional differences in the dynamics of the cortical EEG in the rat after sleep deprivation. Clinical Neurophysiology, 1999, 110, 869-875.	1.5	58
69	Insufficient Non-REM Sleep Intensity in Narcolepsy-Cataplexy. Sleep, 2007, 30, 980-989.	1.1	58
70	Sleep Homeostasis and Models of Sleep Regulation. , 2011, , 431-444.		57
71	Visual and Spectral Analysis of Sleep EEG in Acute Hemispheric Stroke. European Neurology, 2002, 48, 164-171.	1.4	56
72	Modeling Circadian Rhythm Generation in the Suprachiasmatic Nucleus with Locally Coupled Self-Sustained Oscillators: Phase Shifts and Phase Response Curves. Journal of Biological Rhythms, 1999, 14, 460-468.	2.6	55

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73	Association between sleep duration and intelligence scores in healthy children Developmental Psychology, 2010, 46, 949-954.	1.6	54
74	Correlation between sleep and cognitive functions after hemispheric ischaemic stroke. European Journal of Neurology, 2008, 15, 565-572.	3.3	53
75	Decline of long-range temporal correlations in the human brain during sustained wakefulness. Scientific Reports, 2017, 7, 11825.	3.3	53
76	Periodâ€amplitude analysis and power spectral analysis: a comparison based on allâ€night sleep EEG recordings. Journal of Sleep Research, 1993, 2, 121-129.	3.2	52
77	Dopaminergic Role in Regulating Neurophysiological Markers of Sleep Homeostasis in Humans. Journal of Neuroscience, 2014, 34, 566-573.	3.6	52
78	Trait-Like Characteristics of the Sleep EEG across Adolescent Development. Journal of Neuroscience, 2011, 31, 6371-6378.	3.6	51
79	Inter-individual Differences in the Dynamics of Sleep Homeostasis. Sleep, 2010, 33, 491-498.	1.1	49
80	Local Increase of Sleep Slow Wave Activity after Three Weeks of Working Memory Training in Children and Adolescents. Sleep, 2015, 38, 607-614.	1.1	49
81	Correlation Dimension of the Human Sleep Electroencephalogram: Cyclic Changes in the Course of the Night. European Journal of Neuroscience, 1994, 6, 497-500.	2.6	47
82	Sleep Homeostasis and Models of Sleep Regulation. , 2017, , 377-387.e6.		46
83	Zolpidem and sleep deprivation: Different effect on EEG power spectra. Journal of Sleep Research, 2000, 9, 175-183.	3.2	45
84	The Timing of the Circadian Clock and Sleep Differ between Napping and Non-Napping Toddlers. PLoS ONE, 2015, 10, e0125181.	2.5	45
85	Ultradian dynamics of sleep after a single dose of benzodiazepine hypnotics. European Journal of Pharmacology, 1991, 195, 11-18.	3.5	44
86	Rest-activity rhythm of the blind mole rat Spalax ehrenbergi under different lighting conditions. Behavioural Brain Research, 1998, 96, 173-183.	2.2	43
87	Dissipation of sleep pressure is stable across adolescence. Neuroscience, 2012, 216, 167-177.	2.3	43
88	Increased Sleep Depth in Developing Neural Networks: New Insights from Sleep Restriction in Children. Frontiers in Human Neuroscience, 2016, 10, 456.	2.0	43
89	Mapping Slow Waves by EEG Topography and Source Localization: Effects of Sleep Deprivation. Brain Topography, 2018, 31, 257-269.	1.8	43
90	Frequency and state specific hemispheric asymmetries in the human sleep EEG. Neuroscience Letters, 1999, 271, 139-142.	2.1	42

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91	A new method for detecting state changes in the EEG: exploratory application to sleep data. Journal of Sleep Research, 1998, 7, 48-56.	3.2	41
92	Analysis of oscillatory patterns in the human sleep EEG using a novel detection algorithm. Journal of Sleep Research, 2005, 14, 337-346.	3.2	41
93	Sleep inertia: performance changes after sleep, rest and active waking. Cognitive Brain Research, 2005, 22, 323-331.	3.0	41
94	Stimulation of the Brain With Radiofrequency Electromagnetic Field Pulses Affects Sleep-Dependent Performance Improvement. Brain Stimulation, 2013, 6, 805-811.	1.6	41
95	Functional neuroanatomy of human sleep states after zolpidem and placebo: A H215O-PET study. Journal of Sleep Research, 2000, 9, 161-173.	3.2	40
96	Cognitive Performance Measures in Bioelectromagnetic Research - Critical Evaluation and Recommendations. Environmental Health, 2011, 10, 10.	4.0	40
97	Induced hyperammonemia may compromise the ability to generate restful sleep in patients with cirrhosis. Hepatology, 2012, 55, 869-878.	7.3	40
98	Challenging Sleep Homeostasis in Narcolepsy-Cataplexy: Implications for Non-REM and REM Sleep Regulation. Sleep, 2008, 31, 859-867.	1.1	39
99	The multiple time scales of sleep dynamics as a challenge for modelling the sleeping brain. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3884-3901.	3.4	39
100	Cortical region–specific sleep homeostasis in mice: effects of time of day and waking experience. Sleep, 2018, 41, .	1.1	39
101	Reproducibility of Heart Rate Variability Is Parameter and Sleep Stage Dependent. Frontiers in Physiology, 2017, 8, 1100.	2.8	39
102	Alpha activity in the human REM sleep EEG: topography and effect of REM sleep deprivation. Clinical Neurophysiology, 1999, 110, 632-635.	1.5	38
103	Sleep EEG alterations: effects of pulsed magnetic fields versus pulseâ€modulated radio frequency electromagnetic fields. Journal of Sleep Research, 2012, 21, 620-629.	3.2	37
104	No increased sensitivity in brain activity of adolescents exposed to mobile phone-like emissions. Clinical Neurophysiology, 2013, 124, 1303-1308.	1.5	36
105	Overnight Changes in the Slope of Sleep Slow Waves during Infancy. Sleep, 2014, 37, 245-253.	1.1	36
106	Developmental Changes in Sleep Spindle Characteristics and Sigma Power across Early Childhood. Neural Plasticity, 2016, 2016, 1-9.	2.2	35
107	Relation of Heart Rate and its Variability during Sleep with Age, Physical Activity, and Body Composition in Young Children. Frontiers in Physiology, 2017, 8, 109.	2.8	35
108	The Effect of a Slowly Rocking Bed on Sleep. Scientific Reports, 2018, 8, 2156.	3.3	35

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109	Interindividual differences in the dynamics of the homeostatic process are traitâ€like and distinct for sleep versus wakefulness. Journal of Sleep Research, 2017, 26, 171-178.	3.2	34
110	Interhemispheric coherence of the sleep electroencephalogram in mice with congenital callosal dysgenesis. Neuroscience, 2004, 124, 481-488.	2.3	33
111	Sleep Spindles Are Related to Schizotypal Personality Traits and Thalamic Glutamine/Glutamate in Healthy Subjects. Schizophrenia Bulletin, 2015, 41, 522-531.	4.3	33
112	Microsleep episodes in the borderland between wakefulness and sleep. Sleep, 2020, 43, .	1.1	31
113	Global sleep homeostasis reflects temporally and spatially integrated local cortical neuronal activity. ELife, 2020, 9, .	6.0	31
114	II. Muscle atonia in non-REM sleep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 283, R527-R532.	1.8	30
115	Nature and Nurture: Brain Region-Specific Inheritance of Sleep Neurophysiology in Adolescence. Journal of Neuroscience, 2018, 38, 9275-9285.	3.6	30
116	Global field synchronization reveals rapid eye movement sleep as most synchronized brain state in the human EEG. Royal Society Open Science, 2016, 3, 160201.	2.4	29
117	High frequency repetitive transcranial magnetic stimulation (rTMS) of the left dorsolateral cortex: EEG topography during waking and subsequent sleep. Psychiatry Research - Neuroimaging, 2001, 107, 1-9.	1.8	28
118	Sleep, intelligence and cognition in a developmental context: differentiation between traits and state-dependent aspects. Progress in Brain Research, 2010, 185, 167-179.	1.4	27
119	Impaired Postural Control in Healthy Men at Moderate Altitude (1630 M and 2590 M): Data from a Randomized Trial. PLoS ONE, 2015, 10, e0116695.	2.5	27
120	Interâ€individual and intraâ€individual variation of the effects of pulsed RF EMF exposure on the human sleep EEG. Bioelectromagnetics, 2015, 36, 169-177.	1.6	27
121	Development of nap neurophysiology: preliminary insights into sleep regulation in early childhood. Journal of Sleep Research, 2016, 25, 646-654.	3.2	27
122	Validation of Fitbit Charge 2 Sleep and Heart Rate Estimates Against Polysomnographic Measures in Shift Workers: Naturalistic Study. Journal of Medical Internet Research, 2021, 23, e26476.	4.3	27
123	Dynamics of human sleep EEG. Neurocomputing, 2003, 52-54, 857-862.	5.9	26
124	Dosimetric evaluation and comparison of different RF exposure apparatuses used in human volunteer studies. Bioelectromagnetics, 2008, 29, 11-19.	1.6	26
125	Topographical aspects in the dynamics of sleep homeostasis in young men: individual patterns. BMC Neuroscience, 2011, 12, 84.	1.9	26
126	Heritability of Sleep EEG Topography in Adolescence: Results from a Longitudinal Twin Study. Scientific Reports, 2018, 8, 7334.	3.3	25

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127	A New Approach for Automatic Removal of Movement Artifacts in Near-Infrared Spectroscopy Time Series by Means of Acceleration Data. Algorithms, 2015, 8, 1052-1075.	2.1	24
128	From thoughtless awareness to effortful cognition: alpha - theta cross-frequency dynamics in experienced meditators during meditation, rest and arithmetic. Scientific Reports, 2020, 10, 5419.	3.3	24
129	Early Adolescent Cognitive Gains Are Marked by Increased Sleep EEG Coherence. PLoS ONE, 2014, 9, e106847.	2.5	24
130	The spectrum of the nonâ€rapid eye movement sleep electroencephalogram following total sleep deprivation is traitâ€rike. Journal of Sleep Research, 2015, 24, 360-363.	3.2	23
131	Sleep electroencephalography topography and children's intellectual ability. NeuroReport, 2012, 23, 93-97.	1.2	22
132	Technical Note: A Problem with Identifying Nonlinear Interactions of Circadian and Homeostatic Processes. Journal of Biological Rhythms, 1999, 14, 602-603.	2.6	21
133	Brain dynamics during the sleep onset transition: An EEG source localization study. Neurobiology of Sleep and Circadian Rhythms, 2019, 6, 24-34.	2.8	21
134	Effects of Acute Exposure to Moderate Altitude on Vascular Function, Metabolism and Systemic Inflammation. PLoS ONE, 2013, 8, e70081.	2.5	20
135	Effect of prolonged wakefulness on electroencephalographic oscillatory activity during sleep. Journal of Sleep Research, 2014, 23, 255-262.	3.2	20
136	In human non-REM sleep, more slow-wave activity leads to less blood flow in the prefrontal cortex. Scientific Reports, 2017, 7, 14993.	3.3	20
137	The sleeping brain as a complex system. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3697-3707.	3.4	19
138	Automatic detection of microsleep episodes with feature-based machine learning. Sleep, 2020, 43, .	1.1	19
139	Simulation of daytime vigilance by the additive interaction of a homeostatic and a circadian process. Biological Cybernetics, 1994, 71, 115-121.	1.3	19
140	Effects of medial thalamotomy and pallido-thalamic tractotomy on sleep and waking EEG in pain and parkinsonian patients. Clinical Neurophysiology, 2000, 111, 1266-1275.	1.5	18
141	Non-rapid eye movement sleep with low muscle tone as a marker of rapid eye movement sleep regulation. BMC Neuroscience, 2006, 7, 2.	1.9	18
142	Quantitative Changes in the Sleep EEG at Moderate Altitude (1630 m and 2590 m). PLoS ONE, 2013, 8, e76945.	2.5	18
143	Sleep physiology in toddlers: Effects of missing a nap on subsequent night sleep. Neurobiology of Sleep and Circadian Rhythms, 2016, 1, 19-26.	2.8	18
144	Effect of Rocking Movements on Afternoon Sleep. Frontiers in Neuroscience, 2019, 13, 1446.	2.8	18

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145	I. Time course of interventions and recovery sleep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 283, R521-R526.	1.8	17
146	Different Effects of Sleep Deprivation and Torpor on EEG Slow-Wave Characteristics in Djungarian Hamsters. Cerebral Cortex, 2017, 27, 950-961.	2.9	17
147	Developmental Changes in Sleep Oscillations during Early Childhood. Neural Plasticity, 2017, 2017, 1-12.	2.2	17
148	Oscillatory events in the human sleep EEGâ€"detection and properties. Neurocomputing, 2004, 58-60, 129-135.	5.9	16
149	Automatically Detected Microsleep Episodes in the Fitness-to-Drive Assessment. Frontiers in Neuroscience, 2020, 14, 8.	2.8	15
150	Somnomat: a novel actuated bed to investigate the effect of vestibular stimulation. Medical and Biological Engineering and Computing, 2016, 54, 877-889.	2.8	14
151	Developmental Changes in Ultradian Sleep Cycles across Early Childhood. Journal of Biological Rhythms, 2017, 32, 64-74.	2.6	14
152	Effect of Rocking Movements on Respiration. PLoS ONE, 2016, 11, e0150581.	2.5	14
153	Exposure system to study hypotheses of ELF and RF electromagnetic field interactions of mobile phones with the central nervous system. Bioelectromagnetics, 2012, 33, 527-533.	1.6	13
154	Gentle rocking movements during sleep in the elderly. Journal of Sleep Research, 2020, 29, e12989.	3.2	13
155	Sleep respiratory disturbances and arousals at moderate altitude have overlapping electroencephalogram spectral signatures. Journal of Sleep Research, 2014, 23, 463-468.	3.2	11
156	Three decades of continuous wristâ€activity recording: analysis of sleep duration. Journal of Sleep Research, 2017, 26, 188-194.	3.2	11
157	Heart-Rate Variability During Deep Sleep in World-Class Alpine Skiers: A Time-Efficient Alternative to Morning Supine Measurements. International Journal of Sports Physiology and Performance, 2017, 12, 648-654.	2.3	11
158	Effect of frequent brief awakenings from nonREM sleep on the nonREMâ€REM sleep cycle. Psychiatry and Clinical Neurosciences, 1998, 52, 129-130.	1.8	10
159	Commentary: Future Considerations for Models of Human Neurobehavioral Function. Journal of Biological Rhythms, 1999, 14, 598-601.	2.6	10
160	Analysis of the Temporal Organization of Sleep Spindles in the Human Sleep EEG Using a Phenomenological Modeling Approach. Journal of Biological Physics, 2008, 34, 241-9.	1.5	10
161	Modeling of EEG electrode artifacts and thermal ripples in human radiofrequency exposure studies. Bioelectromagnetics, 2014, 35, 273-283.	1.6	10
162	Circulating levels of cell-derived microparticles are reduced by mild hypobaric hypoxia: data from a randomised controlled trial. European Journal of Applied Physiology, 2014, 114, 1067-1073.	2.5	10

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163	Actigraphy of Wrist and Ankle for Measuring Sleep Duration in Altitude Travelers. High Altitude Medicine and Biology, 2016, 17, 194-202.	0.9	10
164	A Novel Approach to Assess Sleep-Related Rhythmic Movement Disorder in Children Using Automatic 3D Analysis. Frontiers in Psychiatry, 2019, 10, 709.	2.6	9
165	Reduced Brain Electric Activity and Functional Connectivity in Bipolar Euthymia: An sLORETA Source Localization Study. Clinical EEG and Neuroscience, 2020, 51, 155-166.	1.7	9
166	Homeostatic response to sleep restriction in adolescents. Sleep, 2021, 44, .	1.1	9
167	Human Versus Porcine Insulin in Patients with Insulin-dependent Diabetes Mellitus: Differences in Sleep and the Sleep EEG During Near-normoglycemia. Sleep, 1998, 21, 92-100.	1.1	8
168	Novel methodology to characterize electromagnetic exposure of the brain. Physics in Medicine and Biology, 2011, 56, 383-396.	3.0	8
169	Ascent to moderate altitude impairs overnight memory improvements. Physiology and Behavior, 2015, 139, 121-126.	2.1	8
170	Vigilance and wake EEG architecture in simulated hyperammonaemia: a pilot study on the effects of L-Ornithine-L-Aspartate (LOLA) and caffeine. Metabolic Brain Disease, 2016, 31, 965-974.	2.9	8
171	Resisting Sleep Pressure: Impact on Resting State Functional Network Connectivity. Brain Topography, 2017, 30, 757-773.	1.8	8
172	Automatic artefact detection in singleâ€channel sleep EEG recordings. Journal of Sleep Research, 2019, 28, e12679.	3.2	8
173	Intracortical Causal Information Flow of Oscillatory Activity (Effective Connectivity) at the Sleep Onset Transition. Frontiers in Neuroscience, 2018, 12, 912.	2.8	7
174	Oscillatory patterns in the electroencephalogram at sleep onset. Sleep, 2019, 42, .	1.1	7
175	Automatic Detection of Microsleep Episodes With Deep Learning. Frontiers in Neuroscience, 2021, 15, 564098.	2.8	7
176	Brain Tissue Oxygen Saturation Increases During the Night in Adolescents. Advances in Experimental Medicine and Biology, 2013, 789, 113-119.	1.6	7
177	Processes Underlying the Regulation of the Sleep-Wake Cycle. Handbook of Behavioral Neurobiology, 2001, , 457-479.	0.3	7
178	Impact of Acetazolamide and CPAP on Cortical Activity in Obstructive Sleep Apnea Patients. PLoS ONE, 2014, 9, e93931.	2.5	7
179	Regional differences in trait-like characteristics of the waking EEG in early adolescence. BMC Neuroscience, 2013, 14, 117.	1.9	6
180	Spindle frequency activity may provide lateralizing information in drug-resistant nocturnal mesial frontal lobe epilepsy: A pilot study on the contribution of sleep recordings. Seizure: the Journal of the British Epilepsy Association, 2013, 22, 719-725.	2.0	6

#	Article	lF	CITATIONS
181	Chapter 11 Simulations of Circadian System and Vigilance During Space Missions. Advances in Space Biology and Medicine, 1996, 5, 201-212.	0.5	4
182	Global field synchronization in gamma range of the sleep EEG tracks sleep depth: Artifact introduced by a rectangular analysis window. Journal of Neuroscience Methods, 2017, 284, 21-26.	2.5	4
183	BizarreVR: Dream-like bizarreness in immersive virtual reality induced changes in conscious experience of reality while leaving spatial presence intact. Consciousness and Cognition, 2022, 99, 103283.	1.5	4
184	Sensory stimulation in the treatment of children with sleep-related rhythmic movement disorder: a feasibility and acceptability study. Sleep Science and Practice, 2020, 4, .	1.3	2
185	Estimation of the Correlation Dimension of All-Night Sleep EEG Data with a Personal Super Computer. , 1994, , 283-290.		1
186	Naps not as effective as a night of sleep at dissipating sleep pressure. Journal of Sleep Research, 2021, 30, e13295.	3.2	0