Peter Achermann

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	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
2	Naps not as effective as a night of sleep at dissipating sleep pressure. Journal of Sleep Research, 2021, 30, e13295.	3.2	0
3	Automatic Detection of Microsleep Episodes With Deep Learning. Frontiers in Neuroscience, 2021, 15, 564098.	2.8	7
4	Homeostatic response to sleep restriction in adolescents. Sleep, 2021, 44, .	1.1	9
5	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
6	Microsleep episodes in the borderland between wakefulness and sleep. Sleep, 2020, 43, .	1.1	31
7	Automatic detection of microsleep episodes with feature-based machine learning. Sleep, 2020, 43, .	1.1	19
8	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
9	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
10	Gentle rocking movements during sleep in the elderly. Journal of Sleep Research, 2020, 29, e12989.	3.2	13
11	Automatically Detected Microsleep Episodes in the Fitness-to-Drive Assessment. Frontiers in Neuroscience, 2020, 14, 8.	2.8	15
12	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
13	Global sleep homeostasis reflects temporally and spatially integrated local cortical neuronal activity. ELife, 2020, 9, .	6.0	31
14	Oscillatory patterns in the electroencephalogram at sleep onset. Sleep, 2019, 42, .	1.1	7
15	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
16	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
17	Automatic artefact detection in singleâ€channel sleep EEG recordings. Journal of Sleep Research, 2019, 28, e12679.	3.2	8
18	Effect of Rocking Movements on Afternoon Sleep. Frontiers in Neuroscience, 2019, 13, 1446.	2.8	18

#	Article	IF	Citations
19	The Effect of a Slowly Rocking Bed on Sleep. Scientific Reports, 2018, 8, 2156.	3.3	35
20	Response to chronic sleep restriction, extension, and subsequent total sleep deprivation in humans: adaptation or preserved sleep homeostasis?. Sleep, 2018, 41, .	1.1	75
21	Cortical regionâ€“specific sleep homeostasis in mice: effects of time of day and waking experience. Sleep, 2018, 41, .	1.1	39
22	Mapping Slow Waves by EEG Topography and Source Localization: Effects of Sleep Deprivation. Brain Topography, 2018, 31, 257-269.	1.8	43
23	Intracortical Causal Information Flow of Oscillatory Activity (Effective Connectivity) at the Sleep Onset Transition. Frontiers in Neuroscience, 2018, 12, 912.	2.8	7
24	Nature and Nurture: Brain Region-Specific Inheritance of Sleep Neurophysiology in Adolescence. Journal of Neuroscience, 2018, 38, 9275-9285.	3.6	30
25	Automatic Human Sleep Stage Scoring Using Deep Neural Networks. Frontiers in Neuroscience, 2018, 12, 781.	2.8	103
26	Heritability of Sleep EEG Topography in Adolescence: Results from a Longitudinal Twin Study. Scientific Reports, 2018, 8, 7334.	3.3	25
27	Three decades of continuous wristâ€activity recording: analysis of sleep duration. Journal of Sleep Research, 2017, 26, 188-194.	3.2	11
28	Developmental Changes in Ultradian Sleep Cycles across Early Childhood. Journal of Biological Rhythms, 2017, 32, 64-74.	2.6	14
29	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
30	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
31	The EEG microstate topography is predominantly determined by intracortical sources in the alpha band. NeuroImage, 2017, 162, 353-361.	4.2	105
32	Decline of long-range temporal correlations in the human brain during sustained wakefulness. Scientific Reports, 2017, 7, 11825.	3.3	53
33	Resisting Sleep Pressure: Impact on Resting State Functional Network Connectivity. Brain Topography, 2017, 30, 757-773.	1.8	8
34	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
35	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
36	Different Effects of Sleep Deprivation and Torpor on EEG Slow-Wave Characteristics in Djungarian Hamsters. Cerebral Cortex, 2017, 27, 950-961.	2.9	17

#	Article	IF	Citations
37	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
38	Developmental Changes in Sleep Oscillations during Early Childhood. Neural Plasticity, 2017, 2017, 1-12.	2.2	17
39	Sleep Homeostasis and Models of Sleep Regulation. , 2017, , 377-387.e6.		46
40	Reproducibility of Heart Rate Variability Is Parameter and Sleep Stage Dependent. Frontiers in Physiology, 2017, 8, 1100.	2.8	39
41	Developmental Changes in Sleep Spindle Characteristics and Sigma Power across Early Childhood. Neural Plasticity, 2016, 2016, 1-9.	2.2	35
42	Increased Sleep Depth in Developing Neural Networks: New Insights from Sleep Restriction in Children. Frontiers in Human Neuroscience, 2016, 10, 456.	2.0	43
43	Development of nap neurophysiology: preliminary insights into sleep regulation in early childhood. Journal of Sleep Research, 2016, 25, 646-654.	3.2	27
44	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
45	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
46	Actigraphy of Wrist and Ankle for Measuring Sleep Duration in Altitude Travelers. High Altitude Medicine and Biology, 2016, 17, 194-202.	0.9	10
47	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
48	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
49	Effect of Rocking Movements on Respiration. PLoS ONE, 2016, 11, e0150581.	2.5	14
50	The spectrum of the nonâ€rapid eye movement sleep electroencephalogram following total sleep deprivation is traitâ€like. Journal of Sleep Research, 2015, 24, 360-363.	3.2	23
51	The Multidimensional Aspects of Sleep Spindles and Their Relationship to Word-Pair Memory Consolidation. Sleep, 2015, 38, 1093-1103.	1.1	76
52	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
53	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
54	Sleep Spindles Are Related to Schizotypal Personality Traits and Thalamic Glutamine/Glutamate in Healthy Subjects. Schizophrenia Bulletin, 2015, 41, 522-531.	4.3	33

#	Article	IF	Citations
55	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
56	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
57	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
58	Ascent to moderate altitude impairs overnight memory improvements. Physiology and Behavior, 2015, 139, 121-126.	2.1	8
59	The Timing of the Circadian Clock and Sleep Differ between Napping and Non-Napping Toddlers. PLoS ONE, 2015, 10, e0125181.	2.5	45
60	Effect of prolonged wakefulness on electroencephalographic oscillatory activity during sleep. Journal of Sleep Research, 2014, 23, 255-262.	3.2	20
61	Dopaminergic Role in Regulating Neurophysiological Markers of Sleep Homeostasis in Humans. Journal of Neuroscience, 2014, 34, 566-573.	3.6	52
62	Modeling of EEG electrode artifacts and thermal ripples in human radiofrequency exposure studies. Bioelectromagnetics, 2014, 35, 273-283.	1.6	10
63	Sleep respiratory disturbances and arousals at moderate altitude have overlapping electroencephalogram spectral signatures. Journal of Sleep Research, 2014, 23, 463-468.	3.2	11
64	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
65	Overnight Changes in the Slope of Sleep Slow Waves during Infancy. Sleep, 2014, 37, 245-253.	1.1	36
66	Impact of Acetazolamide and CPAP on Cortical Activity in Obstructive Sleep Apnea Patients. PLoS ONE, 2014, 9, e93931.	2.5	7
67	Early Adolescent Cognitive Gains Are Marked by Increased Sleep EEG Coherence. PLoS ONE, 2014, 9, e106847.	2.5	24
68	No increased sensitivity in brain activity of adolescents exposed to mobile phone-like emissions. Clinical Neurophysiology, 2013, 124, 1303-1308.	1.5	36
69	Regional differences in trait-like characteristics of the waking EEG in early adolescence. BMC Neuroscience, 2013, 14, 117.	1.9	6
70	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
71	Stimulation of the Brain With Radiofrequency Electromagnetic Field Pulses Affects Sleep-Dependent Performance Improvement. Brain Stimulation, 2013, 6, 805-811.	1.6	41
72	Development of Brain EEG Connectivity across Early Childhood: Does Sleep Play a Role?. Brain Sciences, 2013, 3, 1445-1460.	2.3	61

#	Article	IF	Citations
73	Fading Signatures of Critical Brain Dynamics during Sustained Wakefulness in Humans. Journal of Neuroscience, 2013, 33, 17363-17372.	3.6	113
74	Circadian Phase and Its Relationship to Nighttime Sleep in Toddlers. Journal of Biological Rhythms, 2013, 28, 322-331.	2.6	64
75	Are Nocturnal Breathing, Sleep, and Cognitive Performance Impaired at Moderate Altitude (1,630â€“2,590) Tj ETQq1 1 0.784314 rgB	1.1	69
76	Effects of Acute Exposure to Moderate Altitude on Vascular Function, Metabolism and Systemic Inflammation. PLoS ONE, 2013, 8, e70081.	2.5	20
77	Quantitative Changes in the Sleep EEG at Moderate Altitude (1630 m and 2590 m). PLoS ONE, 2013, 8, e76945.	2.5	18
78	Brain Tissue Oxygen Saturation Increases During the Night in Adolescents. Advances in Experimental Medicine and Biology, 2013, 789, 113-119.	1.6	7
79	Sleep electroencephalography topography and childrenâ€™s intellectual ability. NeuroReport, 2012, 23, 93-97.	1.2	22
80	Dissipation of sleep pressure is stable across adolescence. Neuroscience, 2012, 216, 167-177.	2.3	43
81	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
82	Sleep EEG alterations: effects of different pulseâ€modulated radio frequency electromagnetic fields. Journal of Sleep Research, 2012, 21, 50-58.	3.2	83
83	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
84	Induced hyperammonemia may compromise the ability to generate restful sleep in patients with cirrhosis. Hepatology, 2012, 55, 869-878.	7.3	40
85	Triangular Relationship between Sleep Spindle Activity, General Cognitive Ability and the Efficiency of Declarative Learning. PLoS ONE, 2012, 7, e49561.	2.5	64
86	Trait-Like Characteristics of the Sleep EEG across Adolescent Development. Journal of Neuroscience, 2011, 31, 6371-6378.	3.6	51
87	The Sleep EEG as a Marker of Intellectual Ability in School Age Children. Sleep, 2011, 34, 181-189.	1.1	130
88	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
89	Cognitive Performance Measures in Bioelectromagnetic Research - Critical Evaluation and Recommendations. Environmental Health, 2011, 10, 10.	4.0	40
90	Topographical aspects in the dynamics of sleep homeostasis in young men: individual patterns. BMC Neuroscience, 2011, 12, 84.	1.9	26

#	Article	IF	Citations
91	The sleeping brain as a complex system. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3697-3707.	3.4	19
92	Novel methodology to characterize electromagnetic exposure of the brain. Physics in Medicine and Biology, 2011, 56, 383-396.	3.0	8
93	Sleep Homeostasis and Models of Sleep Regulation. , 2011, , 431-444.		57
94	Association between sleep duration and intelligence scores in healthy children.. Developmental Psychology, 2010, 46, 949-954.	1.6	54
95	Inter-individual Differences in the Dynamics of Sleep Homeostasis. Sleep, 2010, 33, 491-498.	1.1	49
96	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
97	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
98	Developmental changes in brain connectivity assessed using the sleep EEG. Neuroscience, 2010, 171, 622-634.	2.3	60
99	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
100	Dosimetric evaluation and comparison of different RF exposure apparatuses used in human volunteer studies. Bioelectromagnetics, 2008, 29, 11-19.	1.6	26
101	Correlation between sleep and cognitive functions after hemispheric ischaemic stroke. European Journal of Neurology, 2008, 15, 565-572.	3.3	53
102	Evolution of Neurological, Neuropsychological and Sleep-Wake Disturbances After Paramedian Thalamic Stroke. Stroke, 2008, 39, 62-68.	2.0	154
103	Challenging Sleep Homeostasis in Narcolepsy-Cataplexy: Implications for Non-REM and REM Sleep Regulation. Sleep, 2008, 31, 859-867.	1.1	39
104	Pulsed radio frequency radiation affects cognitive performance and the waking electroencephalogram. NeuroReport, 2007, 18, 803-807.	1.2	83
105	Sleep homeostasis in the rat in the light and dark period. Brain Research Bulletin, 2007, 74, 37-44.	3.0	84
106	Insufficient Non-REM Sleep Intensity in Narcolepsy-Cataplexy. Sleep, 2007, 30, 980-989.	1.1	58
107	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
108	Functional EEG topography in sleep and waking: State-dependent and state-independent features. NeuroImage, 2006, 32, 283-292.	4.2	114

#	Article	IF	Citations
109	Trait-like individual differences in the human sleep electroencephalogram. Neuroscience, 2006, 138, 351-356.	2.3	186
110	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
111	Development of the 24-h rest-activity pattern in human infants. , 2006, 29, 143-152.		83
112	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
113	Sleep-wake disturbances in sporadic Creutzfeldt-Jakob disease. Neurology, 2006, 66, 1418-1424.	1.1	74
114	UMTS Base Station-like Exposure, Well-Being, and Cognitive Performance. Environmental Health Perspectives, 2006, 114, 1270-1275.	6.0	101
115	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
116	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
117	Exposure to pulse-modulated radio frequency electromagnetic fields affects regional cerebral blood flow. European Journal of Neuroscience, 2005, 21, 1000-1006.	2.6	131
118	Sleep inertia: performance changes after sleep, rest and active waking. Cognitive Brain Research, 2005, 22, 323-331.	3.0	41
119	Sleep Homeostasis and Models of Sleep Regulation. , 2005, , 405-417.		84
120	Homeostatic Sleep Regulation in Adolescents. Sleep, 2005, 28, 1446-1454.	1.1	383
121	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
122	Caffeine Attenuates Waking and Sleep Electroencephalographic Markers of Sleep Homeostasis in Humans. Neuropsychopharmacology, 2004, 29, 1933-1939.	5.4	192
123	Human Central Auditory Plasticity Associated With Tone Sequence Learning. Learning and Memory, 2004, 11, 162-171.	1.3	68
124	Oscillatory events in the human sleep EEGâ€"detection and properties. Neurocomputing, 2004, 58-60, 129-135.	5.9	16
125	Interhemispheric coherence of the sleep electroencephalogram in mice with congenital callosal dysgenesis. Neuroscience, 2004, 124, 481-488.	2.3	33
126	Sleep and rest facilitate auditory learning. Neuroscience, 2004, 127, 557-561.	2.3	77

#	Article	IF	Citations
127	The two-process model of sleep regulation revisited. Aviation, Space, and Environmental Medicine, 2004, 75, A37-43.	0.5	84
128	Dynamics of human sleep EEG. Neurocomputing, 2003, 52-54, 857-862.	5.9	26
129	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
130	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
131	Dimensional complexity and spectral properties of the human sleep EEG. Clinical Neurophysiology, 2003, 114, 199-209.	1.5	108
132	Mathematical models of sleep regulation. Frontiers in Bioscience - Landmark, 2003, 8, s683-693.	3.0	277
133	Visual and Spectral Analysis of Sleep EEG in Acute Hemispheric Stroke. European Neurology, 2002, 48, 164-171.	1.4	56
134	II. Muscle atonia in non-REM sleep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 283, R527-R532.	1.8	30
135	Power and coherence of sleep spindle frequency activity following hemispheric stroke. Brain, 2002, 125, 373-383.	7.6	115
136	I. Time course of interventions and recovery sleep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 283, R521-R526.	1.8	17
137	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
138	Evolution of sleep and sleep EEG after hemispheric stroke. Journal of Sleep Research, 2002, 11, 331-338.	3.2	82
139	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
140	Functional topography of the human nonREM sleep electroencephalogram. European Journal of Neuroscience, 2001, 13, 2282-2290.	2.6	317
141	Unihemispheric enhancement of delta power in human frontal sleep EEG by prolonged wakefulness. Brain Research, 2001, 913, 220-223.	2.2	103
142	Individual 'Fingerprints' in Human Sleep EEG Topography. Neuropsychopharmacology, 2001, 25, S57-S62.	5.4	156
143	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
144	Processes Underlying the Regulation of the Sleep-Wake Cycle. Handbook of Behavioral Neurobiology, 2001, , 457-479.	0.3	7

#	Article	IF	Citations
145	Exposure to pulsed high-frequency electromagnetic field during waking affects human sleep EEG. NeuroReport, 2000, 11, 3321-3325.	1.2	234
146	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
147	Zolpidem and sleep deprivation: Different effect on EEG power spectra. Journal of Sleep Research, 2000, 9, 175-183.	3.2	45
148	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
149	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
150	Commentary: Future Considerations for Models of Human Neurobehavioral Function. Journal of Biological Rhythms, 1999, 14, 598-601.	2.6	10
151	Technical Note: A Problem with Identifying Nonlinear Interactions of Circadian and Homeostatic Processes. Journal of Biological Rhythms, 1999, 14, 602-603.	2.6	21
152	Serotonin-2 Receptors and Human Sleep Effect of a Selective Antagonist on EEG Power Spectra. Neuropsychopharmacology, 1999, 21, 455-466.	5.4	99
153	Frequency and state specific hemispheric asymmetries in the human sleep EEG. Neuroscience Letters, 1999, 271, 139-142.	2.1	42
154	Pulsed high-frequency electromagnetic field affects human sleep and sleep electroencephalogram. Neuroscience Letters, 1999, 275, 207-210.	2.1	219
155	Alpha activity in the human REM sleep EEG: topography and effect of REM sleep deprivation. Clinical Neurophysiology, 1999, 110, 632-635.	1.5	38
156	Regional differences in the dynamics of the cortical EEG in the rat after sleep deprivation. Clinical Neurophysiology, 1999, 110, 869-875.	1.5	58
157	Sleep Homeostasis and Models of Sleep Regulation. Journal of Biological Rhythms, 1999, 14, 559-570.	2.6	863
158	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
159	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
160	Temporal evolution of coherence and power in the human sleep electroencephalogram. Journal of Sleep Research, 1998, 7, 36-41.	3.2	81
161	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
162	Rest-activity rhythm of the blind mole rat Spalax ehrenbergi under different lighting conditions. Behavioural Brain Research, 1998, 96, 173-183.	2.2	43

#	Article	IF	Citations
163	Coherence analysis of the human sleep electroencephalogram. Neuroscience, 1998, 85, 1195-1208.	2.3	174
164	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
165	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
166	Low-frequency (<1Hz) oscillations in the human sleep electroencephalogram. Neuroscience, 1997, 81, 213-222.	2.3	621
167	Spindle frequency activity in the sleep EEG: individual differences and topographical distribution. Electroencephalography and Clinical Neurophysiology, 1997, 103, 535-542.	0.3	241
168	Frontoâ€occipital EEG power gradients in human sleep. Journal of Sleep Research, 1997, 6, 102-112.	3.2	252
169	Brain topography of the human sleep EEG. NeuroReport, 1996, 8, 123-127.	1.2	239
170	Chapter 11 Simulations of Circadian System and Vigilance During Space Missions. Advances in Space Biology and Medicine, 1996, 5, 201-212.	0.5	4
171	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
172	Altered circadian activity rhythms and sleep in mice devoid of prion protein. Nature, 1996, 380, 639-642.	27.8	607
173	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
174	Simulation of daytime vigilance by the additive interaction of a homeostatic and a circadian process. Biological Cybernetics, 1994, 71, 115-121.	1.3	160
175	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
176	Estimation of the Correlation Dimension of All-Night Sleep EEG Data with a Personal Super Computer. , 1994, , 283-290.		1
177	All-night sleep EEG and artificial stochastic control signals have similar correlation dimensions. Electroencephalography and Clinical Neurophysiology, 1994, 90, 384-387.	0.3	73
178	Simulation of daytime vigilance by the additive interaction of a homeostatic and a circadian process. Biological Cybernetics, 1994, 71, 115-121.	1.3	19
179	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
180	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

#	Article	IF	Citations
181	Combining different models of sleep regulation. Journal of Sleep Research, 1992, 1, 144-147.	3.2	60
182	Concepts and models of sleep regulation: an overview. Journal of Sleep Research, 1992, 1, 63-79.	3.2	228
183	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
184	Ultradian dynamics of sleep after a single dose of benzodiazepine hypnotics. European Journal of Pharmacology, 1991, 195, 11-18.	3.5	44
185	Simulation of Human Sleep: Ultradian Dynamics of Electroencephalographic Slow-Wave Activity. Journal of Biological Rhythms, 1990, 5, 141-157.	2.6	109
186	Sleep Initiation and Initial Sleep Intensity: Interactions of Homeostatic and Circadian Mechanisms. Journal of Biological Rhythms, 1989, 4, 37-48.	2.6	139