

Hans-Peter Landolt

List of Publications by Citations

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116
papers

5,663
citations

45
h-index

74
g-index

128
ext. papers

6,416
ext. citations

5.3
avg, IF

5.84
L-index

#	Paper	IF	Citations
116	Effect of age on the sleep EEG: slow-wave activity and spindle frequency activity in young and middle-aged men. <i>Brain Research</i> , 1996 , 738, 205-12	3.7	327
115	Electromagnetic fields, such as those from mobile phones, alter regional cerebral blood flow and sleep and waking EEG. <i>Journal of Sleep Research</i> , 2002 , 11, 289-95	5.8	229
114	A functional genetic variation of adenosine deaminase affects the duration and intensity of deep sleep in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 15676-81	11.5	227
113	A genetic variation in the adenosine A2A receptor gene (ADORA2A) contributes to individual sensitivity to caffeine effects on sleep. <i>Clinical Pharmacology and Therapeutics</i> , 2007 , 81, 692-8	6.1	209
112	Sleep homeostasis: a role for adenosine in humans?. <i>Biochemical Pharmacology</i> , 2008 , 75, 2070-9	6	207
111	Coffee, caffeine, and sleep: A systematic review of epidemiological studies and randomized controlled trials. <i>Sleep Medicine Reviews</i> , 2017 , 31, 70-78	10.2	174
110	Caffeine attenuates waking and sleep electroencephalographic markers of sleep homeostasis in humans. <i>Neuropsychopharmacology</i> , 2004 , 29, 1933-9	8.7	171
109	Caffeine intake (200 mg) in the morning affects human sleep and EEG power spectra at night. <i>Brain Research</i> , 1995 , 675, 67-74	3.7	152
108	Clinical and physiological consequences of rapid tryptophan depletion. <i>Neuropsychopharmacology</i> , 2000 , 23, 601-22	8.7	151
107	Trait-like individual differences in the human sleep electroencephalogram. <i>Neuroscience</i> , 2006 , 138, 351-59	5.9	150
106	Age-dependent changes in sleep EEG topography. <i>Clinical Neurophysiology</i> , 2001 , 112, 369-77	4.3	133
105	Caffeine reduces low-frequency delta activity in the human sleep EEG. <i>Neuropsychopharmacology</i> , 1995 , 12, 229-38	8.7	126
104	Melatonin effect on daytime sleep in men: suppression of EEG low frequency activity and enhancement of spindle frequency activity. <i>Neuroscience Letters</i> , 1995 , 201, 13-6	3.3	115
103	Exposure to pulse-modulated radio frequency electromagnetic fields affects regional cerebral blood flow. <i>European Journal of Neuroscience</i> , 2005 , 21, 1000-6	3.5	113
102	Age-related changes in the time course of vigilant attention during 40 hours without sleep in men. <i>Sleep</i> , 2006 , 29, 55-7	1.1	104
101	Functional EEG topography in sleep and waking: state-dependent and state-independent features. <i>NeuroImage</i> , 2006 , 32, 283-92	7.9	100
100	Pulsed radio-frequency electromagnetic fields: dose-dependent effects on sleep, the sleep EEG and cognitive performance. <i>Journal of Sleep Research</i> , 2007 , 16, 253-8	5.8	97

99	Adenosinergic mechanisms contribute to individual differences in sleep deprivation-induced changes in neurobehavioral function and brain rhythmic activity. <i>Journal of Neuroscience</i> , 2006 , 26, 10472-9	6.6	95
98	Functional ADA polymorphism increases sleep depth and reduces vigilant attention in humans. <i>Cerebral Cortex</i> , 2012 , 22, 962-70	5.1	89
97	Serotonin-2 receptors and human sleep: effect of a selective antagonist on EEG power spectra. <i>Neuropsychopharmacology</i> , 1999 , 21, 455-66	8.7	89
96	The functional Val158Met polymorphism of COMT predicts interindividual differences in brain alpha oscillations in young men. <i>Journal of Neuroscience</i> , 2009 , 29, 10855-62	6.6	86
95	Late-afternoon ethanol intake affects nocturnal sleep and the sleep EEG in middle-aged men. <i>Journal of Clinical Psychopharmacology</i> , 1996 , 16, 428-36	1.7	85
94	Antagonism of serotonergic 5-HT _{2A/2C} receptors: mutual improvement of sleep, cognition and mood?. <i>European Journal of Neuroscience</i> , 2009 , 29, 1795-809	3.5	82
93	Polymorphisms of ADORA _{2A} modulate psychomotor vigilance and the effects of caffeine on neurobehavioural performance and sleep EEG after sleep deprivation. <i>British Journal of Pharmacology</i> , 2012 , 165, 1904-1913	8.6	81
92	The BDNF Val66Met polymorphism modulates sleep intensity: EEG frequency- and state-specificity. <i>Sleep</i> , 2012 , 35, 335-44	1.1	79
91	Sleep abnormalities during abstinence in alcohol-dependent patients. Aetiology and management. <i>CNS Drugs</i> , 2001 , 15, 413-25	6.7	77
90	Pulsed radio frequency radiation affects cognitive performance and the waking electroencephalogram. <i>NeuroReport</i> , 2007 , 18, 803-7	1.7	74
89	Increased metabotropic glutamate receptor subtype 5 availability in human brain after one night without sleep. <i>Biological Psychiatry</i> , 2013 , 73, 161-8	7.9	72
88	Human melatonin and alerting response to blue-enriched light depend on a polymorphism in the clock gene PER3. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012 , 97, E433-7	5.6	72
87	Pharmacogenetics of modafinil after sleep loss: catechol-O-methyltransferase genotype modulates waking functions but not recovery sleep. <i>Clinical Pharmacology and Therapeutics</i> , 2009 , 85, 296-304	6.1	71
86	Sleep loss produces false memories. <i>PLoS ONE</i> , 2008 , 3, e3512	3.7	68
85	Sleep and rest facilitate auditory learning. <i>Neuroscience</i> , 2004 , 127, 557-61	3.9	65
84	Sleep and sleep electroencephalogram in depressed patients treated with phenelzine. <i>Archives of General Psychiatry</i> , 2001 , 58, 268-76		64
83	Homeostatic sleep regulation in habitual short sleepers and long sleepers. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1996 , 270, R41-53	3.2	63
82	Sleep-wake disturbances in sporadic Creutzfeldt-Jakob disease. <i>Neurology</i> , 2006 , 66, 1418-24	6.5	61

81	Sleep deprivation increases dorsal nexus connectivity to the dorsolateral prefrontal cortex in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 19597-602	11.5	60
80	Genotype-dependent differences in sleep, vigilance, and response to stimulants. <i>Current Pharmaceutical Design</i> , 2008 , 14, 3396-407	3.3	59
79	Random number generation during sleep deprivation: effects of caffeine on response maintenance and stereotypy. <i>Journal of Sleep Research</i> , 2006 , 15, 31-40	5.8	57
78	Adenosine, caffeine, and performance: from cognitive neuroscience of sleep to sleep pharmacogenetics. <i>Current Topics in Behavioral Neurosciences</i> , 2015 , 25, 331-66	3.4	54
77	Psychomotor vigilance task demonstrates impaired vigilance in disorders with excessive daytime sleepiness. <i>Journal of Clinical Sleep Medicine</i> , 2014 , 10, 1019-24	3.1	52
76	Catechol-O-methyltransferase, dopamine, and sleep-wake regulation. <i>Sleep Medicine Reviews</i> , 2015 , 22, 47-53	10.2	49
75	Insufficient non-REM sleep intensity in narcolepsy-cataplexy. <i>Sleep</i> , 2007 , 30, 980-9	1.1	49
74	Sleep estimation from wrist activity in patients with major depression. <i>Physiology and Behavior</i> , 2000 , 70, 49-53	3.5	49
73	Genetic determination of sleep EEG profiles in healthy humans. <i>Progress in Brain Research</i> , 2011 , 193, 51-61	2.9	47
72	Selective REM sleep deprivation in humans: effects on sleep and sleep EEG. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998 , 274, R1186-94	3.2	45
71	Dopaminergic role in regulating neurophysiological markers of sleep homeostasis in humans. <i>Journal of Neuroscience</i> , 2014 , 34, 566-73	6.6	42
70	Sleep ability mediates individual differences in the vulnerability to sleep loss: evidence from a PER3 polymorphism. <i>Cortex</i> , 2014 , 52, 47-59	3.8	42
69	Zolpidem and sleep deprivation: different effect on EEG power spectra. <i>Journal of Sleep Research</i> , 2000 , 9, 175-83	5.8	40
68	Effects of modafinil on the sleep EEG depend on Val158Met genotype of COMT. <i>Sleep</i> , 2010 , 33, 1027-35	5.1	37
67	Sleep inertia: performance changes after sleep, rest and active waking. <i>Cognitive Brain Research</i> , 2005 , 22, 323-31		35
66	Functional neuroanatomy of human sleep states after zolpidem and placebo: a H215O-PET study. <i>Journal of Sleep Research</i> , 2000 , 9, 161-73	5.8	35
65	Cerebral mGluR5 availability contributes to elevated sleep need and behavioral adjustment after sleep deprivation. <i>ELife</i> , 2017 , 6,	8.9	35
64	Intracranial temperature across 24-hour sleep-wake cycles in humans. <i>NeuroReport</i> , 1995 , 6, 913-7	1.7	34

63	Sleep-Wake Neurochemistry. <i>Sleep Medicine Clinics</i> , 2018 , 13, 137-146	3.6	33
62	Sleep Pharmacogenetics: Personalized Sleep-Wake Therapy. <i>Annual Review of Pharmacology and Toxicology</i> , 2016 , 56, 577-603	17.9	32
61	Reduced neurobehavioral impairment from sleep deprivation in older adults: contribution of adenosinergic mechanisms. <i>Frontiers in Neurology</i> , 2012 , 3, 62	4.1	31
60	Challenging sleep homeostasis in narcolepsy-cataplexy: implications for non-REM and REM sleep regulation. <i>Sleep</i> , 2008 , 31, 859-67	1.1	30
59	Genetic polymorphisms of DAT1 and COMT differentially associate with actigraphy-derived sleep-wake cycles in young adults. <i>Chronobiology International</i> , 2014 , 31, 705-14	3.6	29
58	Light modulation of human sleep depends on a polymorphism in the clock gene Period3. <i>Behavioural Brain Research</i> , 2014 , 271, 23-9	3.4	27
57	Sleep Homeostasis, Metabolism, and Adenosine. <i>Current Sleep Medicine Reports</i> , 2015 , 1, 27-37	1.2	27
56	GABAA1a Receptors. <i>CNS Drugs</i> , 2000 , 13, 185-199	6.7	27
55	Functional Polymorphisms in Dopaminergic Genes Modulate Neurobehavioral and Neurophysiological Consequences of Sleep Deprivation. <i>Scientific Reports</i> , 2017 , 7, 45982	4.9	26
54	Assessment of CYP1A2 enzyme activity in relation to type-2 diabetes and habitual caffeine intake. <i>Nutrition and Metabolism</i> , 2016 , 13, 66	4.6	24
53	Effect of chronic phenelzine treatment on REM sleep: report of three patients. <i>Neuropsychopharmacology</i> , 2001 , 25, S63-7	8.7	24
52	Rapid tryptophan depletion reverses phenelzine-induced suppression of REM sleep. <i>Journal of Sleep Research</i> , 2003 , 12, 13-8	5.8	23
51	Sleep Physiology, Circadian Rhythms, Waking Performance and the Development of Sleep-Wake Therapeutics. <i>Handbook of Experimental Pharmacology</i> , 2019 , 253, 441-481	3.2	22
50	Insights into behavioral vulnerability to differential sleep pressure and circadian phase from a functional ADA polymorphism. <i>Journal of Biological Rhythms</i> , 2014 , 29, 119-30	3.2	22
49	Haplotype of the astrocytic water channel AQP4 is associated with slow wave energy regulation in human NREM sleep. <i>PLoS Biology</i> , 2020 , 18, e3000623	9.7	21
48	Time-on-task decrement in vigilance is modulated by inter-individual vulnerability to homeostatic sleep pressure manipulation. <i>Frontiers in Behavioral Neuroscience</i> , 2014 , 8, 59	3.5	21
47	Rapid fast-delta decay following prolonged wakefulness marks a phase of wake-inertia in NREM sleep. <i>Nature Communications</i> , 2020 , 11, 3130	17.4	16
46	Effect of prolonged wakefulness on electroencephalographic oscillatory activity during sleep. <i>Journal of Sleep Research</i> , 2014 , 23, 253-60	5.8	15

45	"No thanks, coffee keeps me awake": individual caffeine sensitivity depends on ADORA2A genotype. <i>Sleep</i> , 2012 , 35, 899-900	1.1	14
44	Similar sleep EEG topography in middle-aged depressed patients and healthy controls. <i>Sleep</i> , 2005 , 28, 239-47	1.1	14
43	CIRCADIAN RHYTHMS. Caffeine, the circadian clock, and sleep. <i>Science</i> , 2015 , 349, 1289	33.3	12
42	Effects of COMT genotype and tolcapone on lapses of sustained attention after sleep deprivation in healthy young men. <i>Neuropsychopharmacology</i> , 2018 , 43, 1599-1607	8.7	12
41	Different effects of phenelzine treatment on EEG topography in waking and sleep in depressed patients. <i>Neuropsychopharmacology</i> , 2002 , 27, 462-9	8.7	11
40	Caffeine-dependent changes of sleep-wake regulation: Evidence for adaptation after repeated intake. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2020 , 99, 109851	5.5	11
39	A case-control field study on the relationships among type 2 diabetes, sleepiness and habitual caffeine intake. <i>Journal of Psychopharmacology</i> , 2017 , 31, 233-242	4.6	10
38	Asymmetric prefrontal cortex functions predict asymmetries in number space. <i>Brain and Cognition</i> , 2010 , 74, 306-11	2.7	10
37	Unraveling the genetic underpinnings of sleep deprivation-induced impairments in human cognition. <i>Progress in Brain Research</i> , 2019 , 246, 127-158	2.9	9
36	Dynamic changes in cerebral and peripheral markers of glutamatergic signaling across the human sleep-wake cycle. <i>Sleep</i> , 2019 , 42,	1.1	9
35	Modafinil and β -hydroxybutyrate have sleep state-specific pharmacological actions on hypocretin-1 physiology in a primate model of human sleep. <i>Behavioural Pharmacology</i> , 2009 , 20, 643-52	2.4	8
34	Effect of frequent brief awakenings from nonREM sleep on the nonREM-REM sleep cycle. <i>Psychiatry and Clinical Neurosciences</i> , 1998 , 52, 129-30	6.2	8
33	Daily Caffeine Intake Induces Concentration-Dependent Medial Temporal Plasticity in Humans: A Multimodal Double-Blind Randomized Controlled Trial. <i>Cerebral Cortex</i> , 2021 , 31, 3096-3106	5.1	8
32	Neurophysiological signature of gamma-hydroxybutyrate augmented sleep in male healthy volunteers may reflect biomimetic sleep enhancement: a randomized controlled trial. <i>Neuropsychopharmacology</i> , 2019 , 44, 1985-1993	8.7	7
31	Human versus porcine insulin in patients with insulin-dependent diabetes mellitus: differences in sleep and the sleep EEG during near-normoglycemia. <i>Sleep</i> , 1998 , 21, 92-100	1.1	7
30	Coffee effectively attenuates impaired attention in ADORA2A C/C-allele carriers during chronic sleep restriction. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2021 , 109, 110232	5.5	7
29	The circadian regulation of sleep: impact of a functional ADA-polymorphism and its association to working memory improvements. <i>PLoS ONE</i> , 2014 , 9, e113734	3.7	5
28	A Novel Approach to Assess Sleep-Related Rhythmic Movement Disorder in Children Using Automatic 3D Analysis. <i>Frontiers in Psychiatry</i> , 2019 , 10, 709	5	5

27	Prolonged Waking and Recovery Sleep Affect the Serum MicroRNA Expression Profile in Humans. <i>Clocks & Sleep</i> , 2019 , 1, 75-86	2.9	5
26	NEUROSCIENCE. Ionic control of sleep and wakefulness. <i>Science</i> , 2016 , 352, 517-8	33.3	4
25	The impact of daily caffeine intake on nighttime sleep in young adult men. <i>Scientific Reports</i> , 2021 , 11, 4668	4.9	4
24	Clinical and Experimental Human Sleep-Wake Pharmacogenetics. <i>Handbook of Experimental Pharmacology</i> , 2019 , 253, 207-241	3.2	4
23	Sleep-Wake Neurochemistry. <i>Sleep Medicine Clinics</i> , 2022 , 17, 151-160	3.6	3
22	Genetics and Genomic Basis of Sleep in Healthy Humans 2017 , 310-321.e5		2
21	Caffeine-dependent changes of sleep-wake regulation: evidence for adaptation after repeated intake		2
20	Diurnal variations in multi-sensor wearable-derived sleep characteristics in morning- and evening-type shift workers under naturalistic conditions. <i>Chronobiology International</i> , 2021 , 38, 1702-1713	3.6	2
19	Genetic Basis of Sleep in Healthy Humans 2011 , 175-183		1
18	Time to Recover From Daily Caffeine Intake.. <i>Frontiers in Nutrition</i> , 2021 , 8, 787225	6.2	1
17	Validation of Fitbit Charge 2 Sleep and Heart Rate Estimates Against Polysomnographic Measures in Shift Workers: Naturalistic Study. <i>Journal of Medical Internet Research</i> , 2021 , 23, e26476	7.6	1
16	Haplotype of the astrocytic water channel AQP4 modulates slow wave energy in human NREM sleep		1
15	Validation of Fitbit Charge 2 Sleep and Heart Rate Estimates Against Polysomnographic Measures in Shift Workers: Naturalistic Study (Preprint)		1
14	Improved functional and histochemical outcomes in L-DOPA plus tolcapone treated VMAT2-deficient mice. <i>Neuropharmacology</i> , 2020 , 181, 108353	5.5	1
13	Working Memory Performance after Daily Caffeine Intake: Compromised Performance and Reduced Hippocampal Activity		1
12	Regular Caffeine Intake Delays REM Sleep Promotion and Attenuates Sleep Quality in Healthy Men. <i>Journal of Biological Rhythms</i> , 2021 , 36, 384-394	3.2	1
11	A novel bedtime pulsatile-release caffeine formula ameliorates sleep inertia symptoms immediately upon awakening. <i>Scientific Reports</i> , 2021 , 11, 19734	4.9	0
10	Cerebral A adenosine receptor availability in female and male participants and its relationship to sleep. <i>NeuroImage</i> , 2021 , 245, 118695	7.9	0

- 9 Dynamic Metabolic Changes in the Human Thalamus at the Transition From Waking to Sleep - Insights From Simultaneous Functional MR Spectroscopy and Polysomnography. *Frontiers in Neuroscience*, **2019**, 13, 1158 5.1 0
- 8 The European Sleep Research Society - past, present and future.. *Journal of Sleep Research*, **2022**, e136015.8 0
- 7 Functional neuroimaging: sedating medication effects 396-405
- 6 Sleep Homeostasis, Adenosine, Caffeine, and Narcolepsy **2011**, 85-92
- 5 Importance des différences interindividuelles de sensibilité à la caféine en médecine du sommeil : Rôles de l'adénosine et de la dopamine. *Médecine Du Sommeil*, **2016**, 13, 139-144 0.5
- 4 Haplotype of the astrocytic water channel AQP4 is associated with slow wave energy regulation in human NREM sleep **2020**, 18, e3000623
- 3 Haplotype of the astrocytic water channel AQP4 is associated with slow wave energy regulation in human NREM sleep **2020**, 18, e3000623
- 2 Haplotype of the astrocytic water channel AQP4 is associated with slow wave energy regulation in human NREM sleep **2020**, 18, e3000623
- 1 Haplotype of the astrocytic water channel AQP4 is associated with slow wave energy regulation in human NREM sleep **2020**, 18, e3000623