

# Hans-Peter Landolt

## List of Publications by Year in descending order

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110  
papers

7,114  
citations

46984

47  
h-index

62565

80  
g-index

128  
all docs

128  
docs citations

128  
times ranked

5931  
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 205-212.	1.1	379
2	Coffee, caffeine, and sleep: A systematic review of epidemiological studies and randomized controlled trials. <i>Sleep Medicine Reviews</i> , 2017, 31, 70-78.	3.8	277
3	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, 289-295.	1.7	269
4	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, 15676-15681.	3.3	252
5	Sleep homeostasis: A role for adenosine in humans?. <i>Biochemical Pharmacology</i> , 2008, 75, 2070-2079.	2.0	252
6	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, 692-698.	2.3	245
7	Caffeine Attenuates Waking and Sleep Electroencephalographic Markers of Sleep Homeostasis in Humans. <i>Neuropsychopharmacology</i> , 2004, 29, 1933-1939.	2.8	192
8	Caffeine intake (200 mg) in the morning affects human sleep and EEG power spectra at night. <i>Brain Research</i> , 1995, 675, 67-74.	1.1	186
9	Trait-like individual differences in the human sleep electroencephalogram. <i>Neuroscience</i> , 2006, 138, 351-356.	1.1	186
10	Clinical and Physiological Consequences of Rapid Tryptophan Depletion. <i>Neuropsychopharmacology</i> , 2000, 23, 601-622.	2.8	179
11	Age-dependent changes in sleep EEG topography. <i>Clinical Neurophysiology</i> , 2001, 112, 369-377.	0.7	161
12	Caffeine Reduces Low-Frequency Delta Activity in the Human Sleep EEG. <i>Neuropsychopharmacology</i> , 1995, 12, 229-238.	2.8	156
13	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, 13-16.	1.0	132
14	Exposure to pulse-modulated radio frequency electromagnetic fields affects regional cerebral blood flow. <i>European Journal of Neuroscience</i> , 2005, 21, 1000-1006.	1.2	131
15	Age-Related Changes in the Time Course of Vigilant Attention During 40 Hours Without Sleep in Men. <i>Sleep</i> , 2006, 29, 55-57.	0.6	120
16	Functional EEG topography in sleep and waking: State-dependent and state-independent features. <i>NeuroImage</i> , 2006, 32, 283-292.	2.1	114
17	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, 10472-10479.	1.7	106
18	Pulsed radio-frequency electromagnetic fields: dose-dependent effects on sleep, the sleep EEG and cognitive performance. <i>Journal of Sleep Research</i> , 2007, 16, 253-258.	1.7	106

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19	Antagonism of serotonergic 5-HT <sub>2A/2C</sub> receptors: mutual improvement of sleep, cognition and mood?. <i>European Journal of Neuroscience</i> , 2009, 29, 1795-1809.	1.2	104
20	The Functional Val158Met Polymorphism of COMT Predicts Interindividual Differences in Brain $\delta$ Oscillations in Young Men. <i>Journal of Neuroscience</i> , 2009, 29, 10855-10862.	1.7	101
21	Functional ADA Polymorphism Increases Sleep Depth and Reduces Vigilant Attention in Humans. <i>Cerebral Cortex</i> , 2012, 22, 962-970.	1.6	100
22	Homeostatic sleep regulation in habitual short sleepers and long sleepers. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1996, 270, R41-R53.	0.9	99
23	Serotonin-2 Receptors and Human Sleep Effect of a Selective Antagonist on EEG Power Spectra. <i>Neuropsychopharmacology</i> , 1999, 21, 455-466.	2.8	99
24	Late-Afternoon Ethanol Intake Affects Nocturnal Sleep and the Sleep EEG in Middle-Aged Men. <i>Journal of Clinical Psychopharmacology</i> , 1996, 16, 428-436.	0.7	99
25	Polymorphisms of ADORA2A 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.	2.7	98
26	Increased Metabotropic Glutamate Receptor Subtype 5 Availability in Human Brain After One Night Without Sleep. <i>Biological Psychiatry</i> , 2013, 73, 161-168.	0.7	92
27	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-E437.	1.8	91
28	Sleep Abnormalities During Abstinence in Alcohol-Dependent Patients. <i>CNS Drugs</i> , 2001, 15, 413-425.	2.7	90
29	The BDNF Val66Met Polymorphism Modulates Sleep Intensity: EEG Frequency- and State-Specificity. <i>Sleep</i> , 2012, 35, 335-44.	0.6	88
30	Psychomotor Vigilance Task Demonstrates Impaired Vigilance in Disorders with Excessive Daytime Sleepiness. <i>Journal of Clinical Sleep Medicine</i> , 2014, 10, 1019-1024.	1.4	84
31	Pulsed radio frequency radiation affects cognitive performance and the waking electroencephalogram. <i>NeuroReport</i> , 2007, 18, 803-807.	0.6	83
32	Sleep Loss Produces False Memories. <i>PLoS ONE</i> , 2008, 3, e3512.	1.1	81
33	Sleep and Sleep Electroencephalogram in Depressed Patients Treated With Phenelzine. <i>Archives of General Psychiatry</i> , 2001, 58, 268.	13.8	79
34	Sleep and rest facilitate auditory learning. <i>Neuroscience</i> , 2004, 127, 557-561.	1.1	77
35	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.	2.3	75
36	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, 19597-19602.	3.3	75

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37	Sleep-wake disturbances in sporadic Creutzfeldt-Jakob disease. <i>Neurology</i> , 2006, 66, 1418-1424.	1.5	74
38	Adenosine, Caffeine, and Performance: From Cognitive Neuroscience of Sleep to Sleep Pharmacogenetics. <i>Current Topics in Behavioral Neurosciences</i> , 2014, 25, 331-366.	0.8	74
39	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-R1194.	0.9	72
40	Catechol-O-methyltransferase, dopamine, and sleep-wake regulation. <i>Sleep Medicine Reviews</i> , 2015, 22, 47-53.	3.8	66
41	Genotype-Dependent Differences in Sleep, Vigilance, and Response to Stimulants. <i>Current Pharmaceutical Design</i> , 2008, 14, 3396-3407.	0.9	63
42	Random number generation during sleep deprivation: effects of caffeine on response maintenance and stereotypy. <i>Journal of Sleep Research</i> , 2006, 15, 31-40.	1.7	62
43	Rapid fast-delta decay following prolonged wakefulness marks a phase of wake-inertia in NREM sleep. <i>Nature Communications</i> , 2020, 11, 3130.	5.8	59
44	Insufficient Non-REM Sleep Intensity in Narcolepsy-Cataplexy. <i>Sleep</i> , 2007, 30, 980-989.	0.6	58
45	Genetic determination of sleep EEG profiles in healthy humans. <i>Progress in Brain Research</i> , 2011, 193, 51-61.	0.9	58
46	Sleep estimation from wrist activity in patients with major depression. <i>Physiology and Behavior</i> , 2000, 70, 49-53.	1.0	55
47	Dopaminergic Role in Regulating Neurophysiological Markers of Sleep Homeostasis in Humans. <i>Journal of Neuroscience</i> , 2014, 34, 566-573.	1.7	52
48	Sleep-Wake Neurochemistry. <i>Sleep Medicine Clinics</i> , 2018, 13, 137-146.	1.2	51
49	Cerebral mGluR5 availability contributes to elevated sleep need and behavioral adjustment after sleep deprivation. <i>ELife</i> , 2017, 6, .	2.8	51
50	Sleep ability mediates individual differences in the vulnerability to sleep loss: Evidence from a PER3 polymorphism. <i>Cortex</i> , 2014, 52, 47-59.	1.1	49
51	Zolpidem and sleep deprivation: Different effect on EEG power spectra. <i>Journal of Sleep Research</i> , 2000, 9, 175-183.	1.7	45
52	Effects of Modafinil on the Sleep EEG Depend on Val158Met Genotype of COMT. <i>Sleep</i> , 2010, 33, 1027-1035.	0.6	42
53	Sleep inertia: performance changes after sleep, rest and active waking. <i>Cognitive Brain Research</i> , 2005, 22, 323-331.	3.3	41
54	Functional neuroanatomy of human sleep states after zolpidem and placebo: A H215O-PET study. <i>Journal of Sleep Research</i> , 2000, 9, 161-173.	1.7	40

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55	Sleep Homeostasis, Metabolism, and Adenosine. <i>Current Sleep Medicine Reports</i> , 2015, 1, 27-37.	0.7	40
56	Sleep Pharmacogenetics: Personalized Sleep-Wake Therapy. <i>Annual Review of Pharmacology and Toxicology</i> , 2016, 56, 577-603.	4.2	40
57	Sleep Physiology, Circadian Rhythms, Waking Performance and the Development of Sleep-Wake Therapeutics. <i>Handbook of Experimental Pharmacology</i> , 2019, 253, 441-481.	0.9	40
58	Intracranial temperature across 24-hour sleep-wake cycles in humans. <i>NeuroReport</i> , 1995, 6, 913-917.	0.6	39
59	Challenging Sleep Homeostasis in Narcolepsy-Cataplexy: Implications for Non-REM and REM Sleep Regulation. <i>Sleep</i> , 2008, 31, 859-867.	0.6	39
60	Genetic polymorphisms of <i>DAT1</i> and <i>COMT</i> differentially associate with actigraphy-derived sleep-wake cycles in young adults. <i>Chronobiology International</i> , 2014, 31, 705-714.	0.9	39
61	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.	2.6	39
62	Reduced Neurobehavioral Impairment from Sleep Deprivation in Older Adults: Contribution of Adenosinergic Mechanisms. <i>Frontiers in Neurology</i> , 2012, 3, 62.	1.1	38
63	Adenosine, caffeine, and sleep-wake regulation: state of the science and perspectives. <i>Journal of Sleep Research</i> , 2022, 31, .	1.7	38
64	Assessment of CYP1A2 enzyme activity in relation to type-2 diabetes and habitual caffeine intake. <i>Nutrition and Metabolism</i> , 2016, 13, 66.	1.3	35
65	GABAA1a Receptors. <i>CNS Drugs</i> , 2000, 13, 185-199.	2.7	31
66	Light modulation of human sleep depends on a polymorphism in the clock gene <i>Period3</i> . <i>Behavioural Brain Research</i> , 2014, 271, 23-29.	1.2	31
67	Functional Polymorphisms in Dopaminergic Genes Modulate Neurobehavioral and Neurophysiological Consequences of Sleep Deprivation. <i>Scientific Reports</i> , 2017, 7, 45982.	1.6	30
68	Effect of Chronic Phenzelzine Treatment on REM Sleep Report of Three Patients. <i>Neuropsychopharmacology</i> , 2001, 25, S63-S67.	2.8	28
69	Rapid tryptophan depletion reverses phenelzine-induced suppression of REM sleep. <i>Journal of Sleep Research</i> , 2003, 12, 13-18.	1.7	28
70	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.	2.1	27
71	Insights into Behavioral Vulnerability to Differential Sleep Pressure and Circadian Phase from a Functional <i>ADA</i> Polymorphism. <i>Journal of Biological Rhythms</i> , 2014, 29, 119-130.	1.4	25
72	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.	1.0	22

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73	Unraveling the genetic underpinnings of sleep deprivation-induced impairments in human cognition. <i>Progress in Brain Research</i> , 2019, 246, 127-158.	0.9	21
74	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.	2.5	21
75	Effect of prolonged wakefulness on electroencephalographic oscillatory activity during sleep. <i>Journal of Sleep Research</i> , 2014, 23, 255-262.	1.7	20
76	Dynamic changes in cerebral and peripheral markers of glutamatergic signaling across the human sleep-wake cycle. <i>Sleep</i> , 2019, 42, .	0.6	20
77	“No Thanks, Coffee Keeps Me Awake” Individual Caffeine Sensitivity Depends on ADORA2A Genotype. <i>Sleep</i> , 2012, 35, 899-900.	0.6	19
78	Similar Sleep EEG Topography in Middle-Aged Depressed Patients and Healthy Controls. <i>Sleep</i> , 2005, 28, 239-248.	0.6	18
79	Caffeine, the circadian clock, and sleep. <i>Science</i> , 2015, 349, 1289-1289.	6.0	18
80	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.	2.8	17
81	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.	2.8	17
82	The impact of daily caffeine intake on nighttime sleep in young adult men. <i>Scientific Reports</i> , 2021, 11, 4668.	1.6	17
83	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.	2.5	17
84	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.	1.6	16
85	Different Effects of Phenelzine Treatment on EEG Topography in Waking and Sleep in Depressed Patients. <i>Neuropsychopharmacology</i> , 2002, 27, 462-469.	2.8	13
86	Modafinil and $\gamma$ -hydroxybutyrate have sleep state-specific pharmacological actions on hypocretin-1 physiology in a primate model of human sleep. <i>Behavioural Pharmacology</i> , 2009, 20, 643-652.	0.8	12
87	Regular Caffeine Intake Delays REM Sleep Promotion and Attenuates Sleep Quality in Healthy Men. <i>Journal of Biological Rhythms</i> , 2021, 36, 384-394.	1.4	12
88	Asymmetric prefrontal cortex functions predict asymmetries in number space. <i>Brain and Cognition</i> , 2010, 74, 306-311.	0.8	11
89	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.	2.0	11
90	Effect of frequent brief awakenings from nonREM sleep on the nonREM-REM sleep cycle. <i>Psychiatry and Clinical Neurosciences</i> , 1998, 52, 129-130.	1.0	10

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91	Sleep-Wake Neurochemistry. <i>Sleep Medicine Clinics</i> , 2022, 17, 151-160.	1.2	10
92	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.	1.1	9
93	A Novel Approach to Assess Sleep-Related Rhythmic Movement Disorder in Children Using Automatic 3D Analysis. <i>Frontiers in Psychiatry</i> , 2019, 10, 709.	1.3	9
94	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.	0.6	8
95	The functions of sleep. <i>European Journal of Neuroscience</i> , 2009, 29, 1739-1740.	1.2	8
96	Ionic control of sleep and wakefulness. <i>Science</i> , 2016, 352, 517-518.	6.0	8
97	A novel bedtime pulsatile-release caffeine formula ameliorates sleep inertia symptoms immediately upon awakening. <i>Scientific Reports</i> , 2021, 11, 19734.	1.6	8
98	Cerebral A1 adenosine receptor availability in female and male participants and its relationship to sleep. <i>NeuroImage</i> , 2021, 245, 118695.	2.1	8
99	Clinical and Experimental Human Sleep-Wake Pharmacogenetics. <i>Handbook of Experimental Pharmacology</i> , 2018, 253, 207-241.	0.9	7
100	Time to Recover From Daily Caffeine Intake. <i>Frontiers in Nutrition</i> , 2021, 8, 787225.	1.6	7
101	Prolonged Waking and Recovery Sleep Affect the Serum MicroRNA Expression Profile in Humans. <i>Clocks &amp; Sleep</i> , 2018, 1, 75-87.	0.9	6
102	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.	0.9	4
103	Genetic Basis of Sleep in Healthy Humans. , 2011, , 175-183.		3
104	Genetics and Genomic Basis of Sleep in Healthy Humans. , 2017, , 310-321.e5.		3
105	The European Sleep Research Society "past, present and future. <i>Journal of Sleep Research</i> , 2022, , e13601.	1.7	3
106	Dynamic Metabolic Changes in the Human Thalamus at the Transition From Waking to Sleep - Insights From Simultaneous Functional MR Spectroscopy and Polysomnography. <i>Frontiers in Neuroscience</i> , 2019, 13, 1158.	1.4	2
107	Improved functional and histochemical outcomes in l-DOPA plus tolcapone treated VMAT2-deficient mice. <i>Neuropharmacology</i> , 2020, 181, 108353.	2.0	1
108	Functional neuroimaging: sedating medication effects. , 0, , 396-405.		0

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109	Importance des différences interindividuelles de sensibilité à la caféine en médecine du sommeil â€“ Rôles de lâ€™adénosine et de la dopamine. Médecine Du Sommeil, 2016, 13, 139-144.	0.3	0
110	Sleep Homeostasis, Adenosine, Caffeine, and Narcolepsy. , 2011, , 85-92.		0