Derk-Jan Dijk

List of Publications by Year
in descending order

74 papers	10,270 citations	66250 44 h-index	93651 72 g-index
78 all docs	78 docs citations	78 times ranked	9477 citing authors

#	Article	IF	Citations
1	Extracting Circadian and Sleep Parameters from Longitudinal Data in Schizophrenia for the Design of Pragmatic Light Interventions. Schizophrenia Bulletin, 2022, 48, 447-456.	2.3	16
2	Improved Sleep, Memory, and Cellular Pathological Features of Tauopathy, Including the NLRP3 Inflammasome, after Chronic Administration of Trazodone in rTg4510 Mice. Journal of Neuroscience, 2022, 42, 3494-3509.	1.7	10
3	Diurnal and circadian rhythmicity of the human blood transcriptome overlaps with organ- and tissue-specific expression of a non-human primate. BMC Biology, 2022, 20, 63.	1.7	4
4	Nightâ€toâ€night variation in sleep associates with dayâ€toâ€day variation in vigilance, cognition, memory, and behavioral problems in Alzheimer's disease. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2022, 14, .	1.2	6
5	Selfâ€reported sleep quality is more closely associated with mental and physical health than chronotype and sleep duration in young adults: A multiâ€instrument analysis. Journal of Sleep Research, 2021, 30, e13152.	1.7	19
6	Transfer Learning for Clinical Sleep Pose Detection Using a Single 2D IR Camera. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 290-299.	2.7	19
7	Sleepiness is a signal to go to bed: data and model simulations. Sleep, 2021, 44, .	0.6	13
8	Altered sleep spindles and slow waves during space shuttle missions. Npj Microgravity, 2021, 7, 48.	1.9	5
9	Novel Approaches for Assessing Circadian Rhythmicity in Humans: A Review. Journal of Biological Rhythms, 2020, 35, 421-438.	1.4	77
10	Food restriction induces functional resilience to sleep restriction in rats. Sleep, 2020, 43, .	0.6	0
11	A Topological Cluster of Differentially Regulated Genes in Mice Lacking PER3. Frontiers in Molecular Neuroscience, 2020, 13, 15.	1.4	9
12	Sleep Physiology, Circadian Rhythms, Waking Performance and the Development of Sleep-Wake Therapeutics. Handbook of Experimental Pharmacology, 2019, 253, 441-481.	0.9	40
13	Sleep Timing in Late Autumn and Late Spring Associates With Light Exposure Rather Than Sun Time in College Students. Frontiers in Neuroscience, 2019, 13, 882.	1.4	29
14	REM sleepâ€™s unique associations with corticosterone regulation, apoptotic pathways, and behavior in chronic stress in mice. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2733-2742.	3.3	59
15	Why Should We Abolish Daylight Saving Time?. Journal of Biological Rhythms, 2019, 34, 227-230.	1.4	61
16	School start times and daylight saving time confuse California lawmakers. Current Biology, 2019, 29, R278-R279.	1.8	16
17	Universal and robust assessment of circadian time?. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5205-5205.	3.3	4
18	Tensor Factorisation and Transfer Learning for Sleep Pose Detection. , 2019, , .		2

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19	Infraslow oscillations in human sleep spindle activity. Journal of Neuroscience Methods, 2019, 316, 22-34.	1.3	25
20	Disturbances of sleep quality, timing and structure and their relationship with other neuropsychiatric symptoms in Alzheimerâ€™s disease and schizophrenia: Insights from studies in patient populations and animal models. Neuroscience and Biobehavioral Reviews, 2019, 97, 112-137.	2.9	56
21	Identifying and validating blood mRNA biomarkers for acute and chronic insufficient sleep in humans: a machine learning approach. Sleep, 2019, 42, .	0.6	35
22	Phenotyping of PER3 variants reveals widespread effects on circadian preference, sleep regulation, and health. Sleep Medicine Reviews, 2018, 40, 109-126.	3.8	71
23	Circadian rhythm and epilepsy. Lancet Neurology, The, 2018, 17, 1098-1108.	4.9	93
24	Rapid Eye Movement Sleep, Sleep Continuity and Slow Wave Sleep as Predictors of Cognition, Mood, and Subjective Sleep Quality in Healthy Men and Women, Aged 20â€“84 Years. Frontiers in Psychiatry, 2018, 9, 255.	1.3	99
25	The effects of self-selected light-dark cycles and social constraints on human sleep and circadian timing: a modeling approach. Scientific Reports, 2017, 7, 45158.	1.6	117
26	The Functional and Clinical Significance of the 24-Hour Rhythm of Circulating Glucocorticoids. Endocrine Reviews, 2017, 38, 3-45.	8.9	353
27	Blood transcriptome based biomarkers for human circadian phase. ELife, 2017, 6, .	2.8	117
28	Sex differences in the circadian regulation of sleep and waking cognition in humans. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2730-9.	3.3	227
29	REM sleep homeostasis in the absence of REM sleep: Effects of antidepressants. Neuropharmacology, 2016, 108, 415-425.	2.0	34
30	Local modulation of human brain responses by circadian rhythmicity and sleep debt. Science, 2016, 353, 687-690.	6.0	149
31	Circadian dynamics in measures of cortical excitation and inhibition balance. Scientific Reports, 2016, 6, 33661.	1.6	58
32	Developing Biomarker Arrays Predicting Sleep and Circadian-Coupled Risks to Health. Sleep, 2016, 39, 727-736.	0.6	87
33	Seasonality in human cognitive brain responses. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3066-3071.	3.3	87
34	Modelling changes in sleep timing and duration across the lifespan: Changes in circadian rhythmicity or sleep homeostasis?. Sleep Medicine Reviews, 2016, 28, 96-107.	3.8	120
35	Circadian regulation of slow waves in human sleep: Topographical aspects. NeuroImage, 2015, 116, 123-134.	2.1	70
36	Exploiting human and mouse transcriptomic data: Identification of circadian genes and pathways influencing health. BioEssays, 2015, 37, 544-556.	1.2	28

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37	Disrupted Sleep: From Molecules to Cognition. Journal of Neuroscience, 2015, 35, 13889-13895.	1.7	91
38	Quantitative Electroencephalography and Behavioural Correlates of Daytime Sleepiness in Chronic Stroke. BioMed Research International, 2014, 2014, 1-11.	0.9	13
39	A human sleep homeostasis phenotype in mice expressing a primateâ€specificPER3variableâ€number tandemâ€repeat codingâ€region polymorphism. FASEB Journal, 2014, 28, 2441-2454.	0.2	39
40	Young AdultsÃ¢â‚¬â„¢ Sleep Duration on Work Days: Differences between East and West. Frontiers in Neurology, 2014, 5, 81.	1.1	41
41	Mistimed sleep disrupts circadian regulation of the human transcriptome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E682-91.	3.3	312
42	Dissociating Effects of Global SWS Disruption and Healthy Aging on Waking Performance and Daytime Sleepiness. Sleep, 2014, 37, 1127-1142.	0.6	53
43	Mathematical Models for Sleep-Wake Dynamics: Comparison of the Two-Process Model and a Mutual Inhibition Neuronal Model. PLoS ONE, 2014, 9, e103877.	1.1	57
44	Effects of insufficient sleep on circadian rhythmicity and expression amplitude of the human blood transcriptome. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1132-41.	3.3	452
45	Circadian period and the timing of melatonin onset in men and women: predictors of sleep during the weekend and in the laboratory. Journal of Sleep Research, 2013, 22, 155-159.	1.7	52
46	Assessment of circadian rhythms in humans: comparison of realâ€time fibroblast reporter imaging with plasma melatonin. FASEB Journal, 2012, 26, 2414-2423.	0.2	61
47	Sleep, Diurnal Preference, Health, and Psychological Well-being: A Prospective Single-Allelic-Variation Study. Chronobiology International, 2012, 29, 131-146.	0.9	115
48	Amplitude Reduction and Phase Shifts of Melatonin, Cortisol and Other Circadian Rhythms after a Gradual Advance of Sleep and Light Exposure in Humans. PLoS ONE, 2012, 7, e30037.	1.1	113
49	Sleep and health: beyond sleep duration and sleepiness?. Journal of Sleep Research, 2012, 21, 355-356.	1.7	12
50	Sex difference in the near-24-hour intrinsic period of the human circadian timing system. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15602-15608.	3.3	459
51	Age-Related Reduction in Daytime Sleep Propensity and Nocturnal Slow Wave Sleep. Sleep, 2010, 33, 211-223.	0.6	241
52	PERIOD3, circadian phenotypes, and sleep homeostasis. Sleep Medicine Reviews, 2010, 14, 151-160.	3.8	222
53	Light, Sleep, and Circadian Rhythms: Together Again. PLoS Biology, 2009, 7, e1000145.	2.6	114
54	Circadian and Homeostatic Regulation of Human Sleep and Cognitive Performance and Its Modulation by PERIOD3. Sleep Medicine Clinics, 2009, 4, 111-125.	1.2	16

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55	Slow-wave sleep, diabetes, and the sympathetic nervous system. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1107-1108.	3.3	36
56	Early Morning Executive Functioning During Sleep Deprivation Is Compromised by a <italic>PERIOD3</italic> Polymorphism. Sleep, 2008, , .	0.6	8
57	Robust circadian rhythm in heart rate and its variability: influence of exogenous melatonin and photoperiod. Journal of Sleep Research, 2007, 16, 148-155.	1.7	138
58	Timing and Consolidation of Human Sleep, Wakefulness, and Performance by a Symphony of Oscillators. Journal of Biological Rhythms, 2005, 20, 279-290.	1.4	205
59	Fatigue and performance models: general background and commentary on the circadian alertness simulator for fatigue risk assessment in transportation. Aviation, Space, and Environmental Medicine, 2004, 75, A119-21.	0.6	2
60	Electroencephalographic activity during wakefulness, rapid eye movement and non-rapid eye movement sleep in humans: Comparison of their circadian and homeostatic modulation. Sleep and Biological Rhythms, 2003, 1, 85-95.	0.5	27
61	Getting Through to Circadian Oscillators: Why Use Constant Routines?. Journal of Biological Rhythms, 2002, 17, 4-13.	1.4	309
62	Invited Review: Integration of human sleep-wake regulation and circadian rhythmicity. Journal of Applied Physiology, 2002, 92, 852-862.	1.2	330
63	Sleep, performance, circadian rhythms, and light-dark cycles during two space shuttle flights. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R1647-R1664.	0.9	192
64	Age-Related Increase in Awakenings: Impaired Consolidation of NonREM Sleep at All Circadian Phases. Sleep, 2001, 24, 565-577.	0.6	165
65	Sensitivity of the human circadian pacemaker to nocturnal light: melatonin phase resetting and suppression. Journal of Physiology, 2000, 526, 695-702.	1.3	962
66	CONTRIBUTION OF CIRCADIAN PHYSIOLOGY AND SLEEP HOMEOSTASIS TO AGE-RELATED CHANGES IN HUMAN SLEEP. Chronobiology International, 2000, 17, 285-311.	0.9	307
67	EEG and ocular correlates of circadian melatonin phase and human performance decrements during sleep loss. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1999, 277, R640-R649.	0.9	201
68	Ageing and the circadian and homeostatic regulation of human sleep during forced desynchrony of rest, melatonin and temperature rhythms. Journal of Physiology, 1999, 516, 611-627.	1.3	412
69	Stability, Precision, and Near-24-Hour Period of the Human Circadian Pacemaker. Science, 1999, 284, 2177-2181.	6.0	1,477
70	Variation of electroencephalographic activity during non-rapid eye movement and rapid eye movement sleep with phase of circadian melatonin rhythm in humans. Journal of Physiology, 1997, 505, 851-858.	1.3	210
71	Use of bright light to treat maladaptation to night shift work and circadian rhythm sleep disorders. Journal of Sleep Research, 1995, 4, 70-73.	1.7	55
72	Body temperature is elevated during the rebound of slowâ€wave sleep following 40â€“h of sleep deprivation on a constant routine. Journal of Sleep Research, 1993, 2, 117-120.	1.7	24

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73	Circadian and sleep/wake dependent aspects of subjective alertness and cognitive performance. Journal of Sleep Research, 1992, 1, 112-117.	1.7	517
74	Selective SWS suppression does not affect the time course of core body temperature in men. Journal of Sleep Research, 1992, 1, 201-204.	1.7	13