Andrew J K Phillips

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86 papers	2,294 citations	25 h-index	46 g-index
97 ext. papers	3,084 ext. citations	4 avg, IF	5.22 L-index

#	Paper	IF	Citations
86	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 Suppl 3, 15602-8	11.5	343
85	Irregular sleep/wake patterns are associated with poorer academic performance and delayed circadian and sleep/wake timing. *Scientific Reports*, **2017**, 7, 3216	4.9	172
84	Later circadian timing of food intake is associated with increased body fat. *American Journal of Clinical Nutrition*, **2017**, 106, 1213-1219	7	153
83	High sensitivity and interindividual variability in the response of the human circadian system to evening light. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 12019-12024	11.5	151
82	A quantitative model of sleep-wake dynamics based on the physiology of the brainstem ascending arousal system. *Journal of Biological Rhythms*, **2007**, 22, 167-79	3.2	134
81	Identifying Objective Physiological Markers and Modifiable Behaviors for Self-Reported Stress and Mental Health Status Using Wearable Sensors and Mobile Phones: Observational Study. *Journal of Medical Internet Research*, **2018**, 20, e210	7.6	116
80	Recognizing Academic Performance, Sleep Quality, Stress Level, and Mental Health using Personality Traits, Wearable Sensors and Mobile Phones **2015**, 2015,		106
79	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	4.9	70
78	Probing the mechanisms of chronotype using quantitative modeling. *Journal of Biological Rhythms*, **2010**, 25, 217-27	3.2	63
77	Sleep deprivation in a quantitative physiologically based model of the ascending arousal system. *Journal of Theoretical Biology*, **2008**, 255, 413-23	2.3	54
76	Sleep patterns predictive of daytime challenging behavior in individuals with low-functioning autism. *Autism Research*, **2018**, 11, 391-403	5.1	46
75	Mammalian sleep dynamics: how diverse features arise from a common physiological framework. *PLoS Computational Biology*, **2010**, 6, e1000826	5	38
74	Incorporation of caffeine into a quantitative model of fatigue and sleep. *Journal of Theoretical Biology*, **2011**, 273, 44-54	2.3	36
73	Revisiting spontaneous internal desynchrony using a quantitative model of sleep physiology. *Journal of Biological Rhythms*, **2011**, 26, 441-53	3.2	36
72	Modeling Neurocognitive Decline and Recovery During Repeated Cycles of Extended Sleep and Chronic Sleep Deficiency. *Sleep*, **2017**, 40,	1.1	34
71	A physiologically based model of orexinergic stabilization of sleep and wake. *PLoS ONE*, **2014**, 9, e91982	3.7	34
70	Increased sensitivity of the circadian system to light in delayed sleep-wake phase disorder. *Journal of Physiology*, **2018**, 596, 6249-6261	3.9	34

69	Modeling the impact of impulsive stimuli on sleep-wake dynamics. *Physical Review E*, **2008**, 78, 051920	2.4	33
68	Quantitative modelling of sleep dynamics. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2011**, 369, 3840-54	3	32
67	Exploring sleepiness and entrainment on permanent shift schedules in a physiologically based model. *Journal of Biological Rhythms*, **2012**, 27, 91-102	3.2	32
66	A Review of Human Physiological Responses to Light: Implications for the Development of Integrative Lighting Solutions. *LEUKOS - Journal of Illuminating Engineering Society of North America*,1-28	3.5	32
65	Evening home lighting adversely impacts the circadian system and sleep. *Scientific Reports*, **2020**, 10, 19110	4.9	30
64	Quantitative physiologically based modeling of subjective fatigue during sleep deprivation. *Journal of Theoretical Biology*, **2010**, 264, 407-19	2.3	29
63	Prediction of Vigilant Attention and Cognitive Performance Using Self-Reported Alertness, Circadian Phase, Hours since Awakening, and Accumulated Sleep Loss. *PLoS ONE*, **2016**, 11, e0151770	3.7	29
62	Are Individual Differences in Sleep and Circadian Timing Amplified by Use of Artificial Light Sources?. *Journal of Biological Rhythms*, **2017**, 32, 165-176	3.2	25
61	Application of a Limit-Cycle Oscillator Model for Prediction of Circadian Phase in Rotating Night Shift Workers. *Scientific Reports*, **2019**, 9, 11032	4.9	23
60	Caloric and Macronutrient Intake Differ with Circadian Phase and between Lean and Overweight Young Adults. *Nutrients*, **2019**, 11,	6.7	21
59	Prediction of Happy-Sad mood from daily behaviors and previous sleep history. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 6796-9	0.9	21
58	Irregular sleep and event schedules are associated with poorer self-reported well-being in US college students. *Sleep*, **2020**, 43,	1.1	20
57	Sleep regularity is associated with sleep-wake and circadian timing, and mediates daytime function in Delayed Sleep-Wake Phase Disorder. *Sleep Medicine*, **2019**, 58, 93-101	4.6	19
56	A mathematical model of the circadian phase-shifting effects of exogenous melatonin. *Journal of Biological Rhythms*, **2013**, 28, 79-89	3.2	19
55	Mammalian rest/activity patterns explained by physiologically based modeling. *PLoS Computational Biology*, **2013**, 9, e1003213	5	18
54	Arousal state feedback as a potential physiological generator of the ultradian REM/NREM sleep cycle. *Journal of Theoretical Biology*, **2013**, 319, 75-87	2.3	17
53	Decreased sensitivity of the circadian system to light in current, but not remitted depression. *Journal of Affective Disorders*, **2019**, 256, 386-392	6.6	16
52	Generalizability of A Neural Network Model for Circadian Phase Prediction in Real-World Conditions. *Scientific Reports*, **2019**, 9, 11001	4.9	15

51	Behaviorally-determined sleep phenotypes are robustly associated with adaptive functioning in individuals with low functioning autism. *Scientific Reports*, **2017**, 7, 14228	4.9	15
50	Effects on resident work hours, sleep duration, and work experience in a randomized order safety trial evaluating resident-physician schedules (ROSTERS). *Sleep*, **2019**, 42,	1.1	14
49	Multimodal Ambulatory Sleep Detection. *IEEE-EMBS International Conference on Biomedical and Health Informatics*, **2017**, 2017, 465-468	1.9	13
48	Modeling the adenosine system as a modulator of cognitive performance and sleep patterns during sleep restriction and recovery. *PLoS Computational Biology*, **2017**, 13, e1005759	5	13
47	Computational approaches for individual circadian phase prediction in field settings. *Current Opinion in Systems Biology*, **2020**, 22, 39-51	3.2	12
46	Irregular sleep-wake patterns in older adults with current or remitted depression. *Journal of Affective Disorders*, **2021**, 281, 431-437	6.6	12
45	Statistics for Sleep and Biological Rhythms Research. *Journal of Biological Rhythms*, **2017**, 32, 18-25	3.2	11
44	Potential formulation of sleep dynamics. *Physical Review E*, **2009**, 79, 021913	2.4	9
43	Sleep and circadian instability in delayed sleep-wake phase disorder. *Journal of Clinical Sleep Medicine*, **2020**, 16, 1431-1436	3.1	9
42	The Role of Light Sensitivity and Intrinsic Circadian Period in Predicting Individual Circadian Timing. *Journal of Biological Rhythms*, **2020**, 35, 628-640	3.2	9
41	Measuring sleep regularity: theoretical properties and practical usage of existing metrics. *Sleep*, **2021**, 44,	1.1	9
40	In-person vs home schooling during the COVID-19 pandemic: Differences in sleep, circadian timing, and mood in early adolescence. *Journal of Pineal Research*, **2021**, 71, e12757	10.4	9
39	Time spent in outdoor light is associated with mood, sleep, and circadian rhythm-related outcomes: A cross-sectional and longitudinal study in over 400,000 UK Biobank participants. *Journal of Affective Disorders*, **2021**, 295, 347-352	6.6	9
38	Accuracy of the GENEActiv Device for Measuring Light Exposure in Sleep and Circadian Research. *Clocks & Sleep*, **2020**, 2, 143-152	2.9	8
37	Physiologically based quantitative modeling of unihemispheric sleep. *Journal of Theoretical Biology*, **2012**, 314, 109-19	2.3	8
36	Light Me up? Why, When, and How Much Light We Need. *Journal of Biological Rhythms*, **2019**, 34, 573-575	3.2	8
35	Sleep and wake are shared and transmitted between individuals with insomnia and their bed-sharing partners. *Sleep*, **2020**, 43,	1.1	8
34	Phase transitions in physiologically-based multiscale mean-field brain models **2010**, 179-201		7

33	Advanced melatonin onset relative to sleep in women with unmedicated major depressive disorder. *Chronobiology International*, **2019**, 36, 1373-1383	3.6	6
32	Afraid of the dark: Light acutely suppresses activity in the human amygdala. *PLoS ONE*, **2021**, 16, e0252350	3.7	6
31	Cross-sectional and prospective associations between sleep regularity and metabolic health in the Hispanic Community Health Study/Study of Latinos. *Sleep*, **2021**, 44,	1.1	6
30	Diurnal Rhythm Robustness in Individuals With PTSD and Insomnia and The Association With Sleep. *Journal of Biological Rhythms*, **2021**, 36, 185-195	3.2	6
29	Extended Work Shifts and Neurobehavioral Performance in Resident-Physicians. *Pediatrics*, **2021**, 147,	7.4	6
28	Statistics for Sleep and Biological Rhythms Research. *Journal of Biological Rhythms*, **2017**, 32, 7-17	3.2	5
27	Light-based methods for predicting circadian phase in delayed sleep-wake phase disorder. *Scientific Reports*, **2021**, 11, 10878	4.9	4
26	Vulnerability and resistance to sleep disruption by a partner: A study of bed-sharing couples. *Sleep Health*, **2020**, 6, 506-512	4	3
25	Uncovering Formula One driver performances from 1950 to 2013 by adjusting for team and competition effects. *Journal of Quantitative Analysis in Sports*, **2014**,	1.2	3
24	A classification approach to estimating human circadian phase under circadian alignment from actigraphy and photometry data. *Journal of Pineal Research*, **2021**, 71, e12745	10.4	3
23	Circadian disruption impairs fear extinction and memory of conditioned safety in mice. *Behavioural Brain Research*, **2020**, 393, 112788	3.4	2
22	COVID-19 vaccine perceptions and uptake in a national prospective cohort of essential workers.. *Vaccine*, **2021**, 40, 494-494	4.1	2
21	Irregular Sleep/Wake Patterns Are Associated With Reduced Quality of Life in Post-treatment Cancer Patients: A Study Across Three Cancer Cohorts. *Frontiers in Neuroscience*, **2021**, 15, 700923	5.1	2
20	0969 Attentional Failures Are Correlated With Serious Medical Errors In Resident Physicians. *Sleep*, **2019**, 42, A390-A390	1.1	1
19	Unanticipated daytime melatonin secretion on a simulated night shift schedule generates a distinctive 24-h melatonin rhythm with antiphasic daytime and nighttime peaks.. *Journal of Pineal Research*, **2022**,	10.4	1
18	Objective assessment of sleep regularity in 60 000 UK Biobank participants using an open-source package. *Sleep*, **2021**, 44,	1.1	1
17	The impact of structured sleep schedules prior to an in-laboratory study: Individual differences in sleep and circadian timing. *PLoS ONE*, **2020**, 15, e0236566	3.7	1
16	Modeling and Entraining Human Capability in Space **2021**, 437-444		1

15	Disrupting circadian rhythms promotes cancer-induced inflammation in mice.. *Brain, Behavior, & Immunity - Health*, **2022**, 21, 100428	5.1	0
14	Anxiety predicts dyadic sleep characteristics in couples experiencing insomnia but not in couples without sleep disorders. *Journal of Affective Disorders*, **2020**, 273, 122-130	6.6	0
13	Optimal Schedules of Light Exposure for Multiple Individuals for Quick Circadian Alignment. *IFAC-PapersOnLine*, **2020**, 53, 16445-16450	0.7	0
12	Attitudes Towards Sleep as a Time Commitment are Associated with Sleep Regularity. *Behavioral Sleep Medicine*, **2021**, 19, 732-743	4.2	0
11	Wearable light spectral sensor optimized for measuring daily Ebpic light exposure. *Optics Express*, **2021**, 29, 27612-27627	3.3	0
10	The CLASS Study (Circadian Light in Adolescence, Sleep and School): protocol for a prospective, longitudinal cohort to assess sleep, light, circadian timing and academic performance in adolescence.. *BMJ Open*, **2022**, 12, e055716	3	0
9	0840 Longitudinal Association Of Objective Sleep Duration, Timing, And Regularity With Weight Change In HCHS/SOL Sueb Ancillary Study. *Sleep*, **2019**, 42, A337-A337	1.1	
8	0145 How Did Mammalian Sleep Patterns Evolve? Temporal Niche Pursuit In An Evolutionary Model Of Sleep. *Sleep*, **2019**, 42, A59-A60	1.1	
7	0146 Model-based Predictions Of Neurobehavioral Performance Of Resident Physicians In A Randomized Order Safety Trial Evaluating Resident-physician Schedules (rosters). *Sleep*, **2019**, 42, A60-A60	1.1	
6	0011 Modeling Endogenous and Exogenous Sources of Sleep Timing Variability. *Sleep*, **2019**, 42, A4-A5	1.1	
5	0079 PREDICTING THE TIMING OF DIM LIGHT MELATONIN ONSET IN REAL-WORLD CONDITIONS USING A MATHEMATICAL MODEL. *Sleep*, **2017**, 40, A30-A30	1.1	
4	Modeling and Entraining Human Capability in Space **2020**, 1-7		
3	Clocking onto chemotherapy to enhance cancer treatment. *Brain, Behavior, and Immunity*, **2021**, 100, 172-173	16.6	
2	Modeling and Entraining Human Capability in Space **2019**, 1-7		
1	Sleep, Neural Population Models of **2022**, 3137-3142		