

Melissa A St Hilaire

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,694
citations

394421

19
h-index

330143

37
g-index

40
all docs

40
docs citations

40
times ranked

1836
citing authors

#	ARTICLE	IF	CITATIONS
1	Human responses to bright light of different durations. <i>Journal of Physiology</i> , 2012, 590, 3103-3112.	2.9	233
2	Human phase response curve to a 1 h pulse of bright white light. <i>Journal of Physiology</i> , 2012, 590, 3035-3045.	2.9	213
3	Melanopsin and Rod Cone Photoreceptors Play Different Roles in Mediating Pupillary Light Responses during Exposure to Continuous Light in Humans. <i>Journal of Neuroscience</i> , 2012, 32, 14242-14253.	3.6	181
4	Human phase response curve to a single 6.5h pulse of short-wavelength light. <i>Journal of Physiology</i> , 2013, 591, 353-363.	2.9	125
5	Addition of a non-photoc component to a light-based mathematical model of the human circadian pacemaker. <i>Journal of Theoretical Biology</i> , 2007, 247, 583-599.	1.7	89
6	The effects of spectral tuning of evening ambient light on melatonin suppression, alertness and sleep. <i>Physiology and Behavior</i> , 2017, 177, 221-229.	2.1	87
7	Impact of Common Diabetes Risk Variant in <i>MTNR1B</i> on Sleep, Circadian, and Melatonin Physiology. <i>Diabetes</i> , 2016, 65, 1741-1751.	0.6	75
8	Sleep patterns predictive of daytime challenging behavior in individuals with low-functioning autism. <i>Autism Research</i> , 2018, 11, 391-403.	3.8	72
9	Circadian Melatonin Rhythm Following Traumatic Brain Injury. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 972-977.	2.9	66
10	Effect on Patient Safety of a Resident Physician Schedule without 24-Hour Shifts. <i>New England Journal of Medicine</i> , 2020, 382, 2514-2523.	27.0	55
11	A physiologically based mathematical model of melatonin including ocular light suppression and interactions with the circadian pacemaker. <i>Journal of Pineal Research</i> , 2007, 43, 294-304.	7.4	51
12	Modeling Neurocognitive Decline and Recovery During Repeated Cycles of Extended Sleep and Chronic Sleep Deficiency. <i>Sleep</i> , 2017, 40, .	1.1	50
13	Circadian phase resetting by a single short-duration light exposure. <i>JCI Insight</i> , 2017, 2, e89494.	5.0	46
14	Functional decoupling of melatonin suppression and circadian phase resetting in humans. <i>Journal of Physiology</i> , 2018, 596, 2147-2157.	2.9	42
15	Analysis Method and Experimental Conditions Affect Computed Circadian Phase from Melatonin Data. <i>PLoS ONE</i> , 2012, 7, e33836.	2.5	28
16	Caffeine does not entrain the circadian clock but improves daytime alertness in blind patients with non-24-hour rhythms. <i>Sleep Medicine</i> , 2015, 16, 800-804.	1.6	24
17	Behaviorally-determined sleep phenotypes are robustly associated with adaptive functioning in individuals with low functioning autism. <i>Scientific Reports</i> , 2017, 7, 14228.	3.3	23
18	Effects on resident work hours, sleep duration, and work experience in a randomized order safety trial evaluating resident-physician schedules (ROSTERS). <i>Sleep</i> , 2019, 42, .	1.1	22

#	ARTICLE	IF	CITATIONS
19	A Mathematical Model of the Circadian Phase-Shifting Effects of Exogenous Melatonin. <i>Journal of Biological Rhythms</i> , 2013, 28, 79-89.	2.6	21
20	Relationship between melatonin and bone resorption rhythms in premenopausal women. <i>Journal of Bone and Mineral Metabolism</i> , 2019, 37, 60-71.	2.7	19
21	Extended Work Shifts and Neurobehavioral Performance in Resident-Physicians. <i>Pediatrics</i> , 2021, 147, .	2.1	18
22	Brief (<4 hr) sleep episodes are insufficient for restoring performance in first-year resident physicians working overnight extended-duration work shifts. <i>Sleep</i> , 2019, 42, .	1.1	17
23	Menstrual phase-dependent differences in neurobehavioral performance: the role of temperature and the progesterone/estradiol ratio. <i>Sleep</i> , 2020, 43, .	1.1	17
24	Circadian lipid and hepatic protein rhythms shift with a phase response curve different than melatonin. <i>Nature Communications</i> , 2022, 13, 681.	12.8	17
25	An Exploration of the Temporal Dynamics of Circadian Resetting Responses to Short- and Long-Duration Light Exposures: Cross-Species Consistencies and Differences. <i>Journal of Biological Rhythms</i> , 2019, 34, 497-514.	2.6	15
26	Recent advances in modeling sleep: from the clinic to society and disease. <i>Current Opinion in Physiology</i> , 2020, 15, 37-46.	1.8	11
27	An ensemble mixed effects model of sleep loss and performance. <i>Journal of Theoretical Biology</i> , 2021, 509, 110497.	1.7	11
28	Using a Single Daytime Performance Test to Identify Most Individuals at High-Risk for Performance Impairment during Extended Wake. <i>Scientific Reports</i> , 2019, 9, 16681.	3.3	9
29	What time is it? A tale of three clocks, with implications for personalized medicine. <i>Journal of Pineal Research</i> , 2020, 68, e12646.	7.4	9
30	A classification approach to estimating human circadian phase under circadian alignment from actigraphy and photometry data. <i>Journal of Pineal Research</i> , 2021, 71, e12745.	7.4	9
31	Behaviorally and environmentally induced non-24-hour sleep-wake rhythm disorder in sighted patients. <i>Journal of Clinical Sleep Medicine</i> , 2021, , .	2.6	9
32	Prediction of individual differences in circadian adaptation to night work among older adults: application of a mathematical model using individual sleep-wake and light exposure data. <i>Chronobiology International</i> , 2020, 37, 1404-1411.	2.0	8
33	Endogenous circadian regulation and phase resetting of clinical metabolic biomarkers. <i>Journal of Pineal Research</i> , 2021, 71, e12752.	7.4	8
34	Dynamic lighting schedules to facilitate circadian adaptation to shifted timing of sleep and wake. <i>Journal of Pineal Research</i> , 2022, 73, .	7.4	6
35	Classifying performance impairment in response to sleep loss using pattern recognition algorithms on single session testing. <i>Accident Analysis and Prevention</i> , 2013, 50, 992-1002.	5.7	5
36	0970 Resident Physician Work Hours Decreased and Sleep Duration Increased Following Elimination of Scheduled Extended Duration Shifts. <i>Sleep</i> , 2019, 42, A390-A391.	1.1	1

#	ARTICLE	IF	CITATIONS
37	0969 Attentional Failures Are Correlated With Serious Medical Errors In Resident Physicians. Sleep, 2019, 42, A390-A390.	1.1	1
38	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	0
39	Modeling (circadian). Progress in Brain Research, 2022, , .	1.4	0