

# Melissa A St Hilaire

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5124612/publications.pdf>

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  | 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        |
| 2  | 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         |
| 3  | Modeling (circadian). <i>Progress in Brain Research</i> , 2022, , .   | 1.4  | 0         |
| 4  | An ensemble mixed effects model of sleep loss and performance. <i>Journal of Theoretical Biology</i> , 2021, 509, 110497.   | 1.7  | 11        |
| 5  | Extended Work Shifts and Neurobehavioral Performance in Resident-Physicians. <i>Pediatrics</i> , 2021, 147, .   | 2.1  | 18        |
| 6  | 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         |
| 7  | Endogenous circadian regulation and phase resetting of clinical metabolic biomarkers. <i>Journal of Pineal Research</i> , 2021, 71, e12752.   | 7.4  | 8         |
| 8  | 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         |
| 9  | 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        |
| 10 | Menstrual phase-dependent differences in neurobehavioral performance: the role of temperature and the progesterone/estradiol ratio. <i>Sleep</i> , 2020, 43, .  | 1.1  | 17        |
| 11 | 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         |
| 12 | 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        |
| 13 | 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         |
| 14 | 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         |
| 15 | 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        |
| 16 | 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        |
| 17 | 0146 Model-based Predictions Of Neurobehavioral Performance Of Resident Physicians In A Randomized Order Safety Trial Evaluating Resident-physician Schedules (rosters). <i>Sleep</i> , 2019, 42, A60-A60.  | 1.1  | 0         |
| 18 | 0969 Attentional Failures Are Correlated With Serious Medical Errors In Resident Physicians. <i>Sleep</i> , 2019, 42, A390-A390.  | 1.1  | 1         |

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|----|---|-----|-----------|
| 19 | 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        |
| 20 | 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         |
| 21 | 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        |
| 22 | Functional decoupling of melatonin suppression and circadian phase resetting in humans. <i>Journal of Physiology</i> , 2018, 596, 2147-2157.  | 2.9 | 42        |
| 23 | Sleep patterns predictive of daytime challenging behavior in individuals with low-functioning autism. <i>Autism Research</i> , 2018, 11, 391-403.   | 3.8 | 72        |
| 24 | 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        |
| 25 | Modeling Neurocognitive Decline and Recovery During Repeated Cycles of Extended Sleep and Chronic Sleep Deficiency. <i>Sleep</i> , 2017, 40, .  | 1.1 | 50        |
| 26 | 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        |
| 27 | Circadian phase resetting by a single short-duration light exposure. <i>JCI Insight</i> , 2017, 2, e89494.  | 5.0 | 46        |
| 28 | Circadian Melatonin Rhythm Following Traumatic Brain Injury. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 972-977.  | 2.9 | 66        |
| 29 | 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        |
| 30 | 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        |
| 31 | 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        |
| 32 | 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       |
| 33 | 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         |
| 34 | 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       |
| 35 | Analysis Method and Experimental Conditions Affect Computed Circadian Phase from Melatonin Data. <i>PLoS ONE</i> , 2012, 7, e33836.   | 2.5 | 28        |
| 36 | Human responses to bright light of different durations. <i>Journal of Physiology</i> , 2012, 590, 3103-3112.  | 2.9 | 233       |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | 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       |
| 38 | Addition of a non-photic 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        |
| 39 | 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        |