

Elizabeth B Klerman

List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

6,346
citations

108046

37
h-index

87275

74
g-index

117
all docs

117
docs citations

117
times ranked

6065
citing authors

#	ARTICLE	IF	CITATIONS
1	Later energy intake relative to mathematically modeled circadian time is associated with higher percentage body fat. <i>Obesity</i> , 2023, 31, 50-56.	1.5	0
2	Resolving delayed sleep-wake phase disorder with a pandemic: two case reports. <i>Journal of Clinical Sleep Medicine</i> , 2022, 18, 315-318.	1.4	8
3	An Anticipatory Scheme for the Model Predictive Control of Circadian Phase for Expected Environmental Light Changes. , 2022, 6, 1616-1621.		0
4	Time of Day of Vaccination Affects SARS-CoV-2 Antibody Responses in an Observational Study of Health Care Workers. <i>Journal of Biological Rhythms</i> , 2022, 37, 124-129.	1.4	42
5	Toward a new nosology for non-24-hour sleep-wake rhythm disorder Response to Kitajima T. Non-24-hour sleep-wake rhythm disorder not driven by central circadian clock dysregulation: is it not "intrinsic"? <i>Clin Sleep Med</i> . 2022;18(3):957. doi: 10.5664/jcsm.9770. <i>Journal of Clinical Sleep Medicine</i> . 2022. 18. 959-960.	1.4	0
6	Chronic circadian disruption on a high-fat diet impairs glucose tolerance. <i>Metabolism: Clinical and Experimental</i> , 2022, 130, 155158.	1.5	8
7	The Mind After Midnight: Nocturnal Wakefulness, Behavioral Dysregulation, and Psychopathology. <i>Frontiers in Network Physiology</i> , 2022, 1, .	0.8	13
8	Chronic Circadian Disruption and Sleep Restriction Influence Subjective Hunger, Appetite, and Food Preference. <i>Nutrients</i> , 2022, 14, 1800.	1.7	6
9	Dynamic lighting schedules to facilitate circadian adaptation to shifted timing of sleep and wake. <i>Journal of Pineal Research</i> , 2022, 73, .	3.4	6
10	Sleep Fragmentation and Estradiol Suppression Decrease Fat Oxidation in Premenopausal Women. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, 107, e3167-e3176.	1.8	4
11	The circadian system, sleep, and the health/disease balance: a conceptual review. <i>Journal of Sleep Research</i> , 2022, 31, .	1.7	25
12	Quantity, Content, and Context Matter: Associations Among Social Technology Use and Sleep Habits in Early Adolescents. <i>Journal of Adolescent Health</i> , 2021, 69, 162-165.	1.2	23
13	An ensemble mixed effects model of sleep loss and performance. <i>Journal of Theoretical Biology</i> , 2021, 509, 110497.	0.8	11
14	Robust stability of melatonin circadian phase, sleep metrics, and chronotype across months in young adults living in real-world settings. <i>Journal of Pineal Research</i> , 2021, 70, e12720.	3.4	19
15	Extended Work Shifts and Neurobehavioral Performance in Resident-Physicians. <i>Pediatrics</i> , 2021, 147, .	1.0	18
16	Workshop report. Circadian rhythm sleep-wake disorders: gaps and opportunities. <i>Sleep</i> , 2021, 44, .	0.6	51
17	Measuring sleep regularity: theoretical properties and practical usage of existing metrics. <i>Sleep</i> , 2021, 44, .	0.6	55
18	Circadian Biology and Stroke. <i>Stroke</i> , 2021, 52, 2180-2190.	1.0	38

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19	Adverse impact of polyphasic sleep patterns in humans: Report of the National Sleep Foundation sleep timing and variability consensus panel. <i>Sleep Health</i> , 2021, 7, 293-302.	1.3	10
20	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.	3.4	9
21	Sensor-Based Estimation of Dim Light Melatonin Onset Using Features of Two Time Scales. <i>ACM Transactions on Computing for Healthcare</i> , 2021, 2, 1-15.	3.3	2
22	Modeling the Influence of Chronic Sleep Restriction on Cortisol Circadian Rhythms, with Implications for Metabolic Disorders. <i>Metabolites</i> , 2021, 11, 483.	1.3	9
23	In-person vs home schooling during the COVID-19 pandemic: Differences in sleep, circadian timing, and mood in early adolescence. <i>Journal of Pineal Research</i> , 2021, 71, e12757.	3.4	21
24	Behaviorally and environmentally induced non-24-hour sleep-wake rhythm disorder in sighted patients. <i>Journal of Clinical Sleep Medicine</i> , 2021, , .	1.4	9
25	Chronic Sleep Restriction While Minimizing Circadian Disruption Does Not Adversely Affect Glucose Tolerance. <i>Frontiers in Physiology</i> , 2021, 12, 764737.	1.3	11
26	Can People Sleep Too Much? Effects of Extended Sleep Opportunity on Sleep Duration and Timing. <i>Frontiers in Physiology</i> , 2021, 12, 792942.	1.3	5
27	Gamma frequency sensory stimulation prevents brain atrophy, improves sleep and memory in probable mild Alzheimer's patients. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.4	5
28	Recent advances in modeling sleep: from the clinic to society and disease. <i>Current Opinion in Physiology</i> , 2020, 15, 37-46.	0.9	11
29	Irregular sleep and event schedules are associated with poorer self-reported well-being in US college students. <i>Sleep</i> , 2020, 43, .	0.6	57
30	Stability of the timing of food intake at daily and monthly timescales in young adults. <i>Scientific Reports</i> , 2020, 10, 20849.	1.6	14
31	The malaria parasite has an intrinsic clock. <i>Science</i> , 2020, 368, 746-753.	6.0	65
32	What time is it? A tale of three clocks, with implications for personalized medicine. <i>Journal of Pineal Research</i> , 2020, 68, e12646.	3.4	9
33	Daylight Saving Time and Artificial Time Zones – A Battle Between Biological and Social Times. <i>Frontiers in Physiology</i> , 2019, 10, 944.	1.3	74
34	0633 Prospective Semester-Long Evaluation of College Student Sleep. <i>Sleep</i> , 2019, 42, A252-A252.	0.6	0
35	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.	1.4	15
36	Classifying attentional vulnerability to total sleep deprivation using baseline features of Psychomotor Vigilance Test performance. <i>Scientific Reports</i> , 2019, 9, 12102.	1.6	21

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37	Chronobiology. Somnologie, 2019, 23, 142-146.	0.9	5
38	Compensating for Sensor Error in the Model Predictive Control of Circadian Clock Phase. , 2019, 3, 853-858.		2
39	Personalized Wellbeing Prediction using Behavioral, Physiological and Weather Data. , 2019, , .		42
40	Why Should We Abolish Daylight Saving Time?. Journal of Biological Rhythms, 2019, 34, 227-230.	1.4	61
41	Effects on resident work hours, sleep duration, and work experience in a randomized order safety trial evaluating resident-physician schedules (ROSTERS). Sleep, 2019, 42, .	0.6	22
42	Circadian Neurobiology and the Physiologic Regulation of Sleep and Wakefulness. Neurologic Clinics, 2019, 37, 475-486.	0.8	40
43	0977 Engagement in Collegiate Sleep Health Education: A Matter of Timing. Sleep, 2019, 42, A393-A394.	0.6	3
44	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.	0.6	0
45	0969 Attentional Failures Are Correlated With Serious Medical Errors In Resident Physicians. Sleep, 2019, 42, A390-A390.	0.6	1
46	Caloric and Macronutrient Intake Differ with Circadian Phase and between Lean and Overweight Young Adults. Nutrients, 2019, 11, 587.	1.7	40
47	Chronotype Genetic Variant in PER2 is Associated with Intrinsic Circadian Period in Humans. Scientific Reports, 2019, 9, 5350.	1.6	24
48	Chronic sleep restriction greatly magnifies performance decrements immediately after awakening. Sleep, 2019, 42, .	0.6	32
49	Relationship between endogenous melatonin concentrations and uterine contractions in late third trimester of human pregnancy. Journal of Pineal Research, 2019, 66, e12566.	3.4	10
50	Diurnal variation of metabolites in three individual participants. Chronobiology International, 2019, 36, 332-342.	0.9	10
51	Pharmaceutical-based entrainment of circadian phase via nonlinear model predictive control. Automatica, 2019, 100, 336-348.	3.0	19
52	Mathematical modeling of circadian rhythms. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2019, 11, e1439.	6.6	37
53	Functional decoupling of melatonin suppression and circadian phase resetting in humans. Journal of Physiology, 2018, 596, 2147-2157.	1.3	42
54	Dose-Dependent Associations Between Sleep Duration and Unsafe Behaviors Among US High School Students. JAMA Pediatrics, 2018, 172, 1187.	3.3	36

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55	Longitude Position in a Time Zone and Cancer Riskâ€™Response. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2018, 27, 1111-1112.	1.1	1
56	Chronic sleep curtailment, even without extended (>16-h) wakefulness, degrades human vigilance performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6070-6075.	3.3	60
57	Chronic Insufficient Sleep Has a Limited Impact on Circadian Rhythmicity of Subjective Hunger and Awakening Fasted Metabolic Hormones. <i>Frontiers in Endocrinology</i> , 2018, 9, 319.	1.5	27
58	Heparin-Induced Thrombocytopenia in Healthy Individuals with Continuous Heparin Infusion. <i>TH Open</i> , 2018, 02, e49-e53.	0.7	0
59	Identifying Objective Physiological Markers and Modifiable Behaviors for Self-Reported Stress and Mental Health Status Using Wearable Sensors and Mobile Phones: Observational Study. <i>Journal of Medical Internet Research</i> , 2018, 20, e210.	2.1	230
60	Timed Light Therapy for Sleep and Daytime Sleepiness Associated With Parkinson Disease. <i>JAMA Neurology</i> , 2017, 74, 411.	4.5	181
61	Longitude Position in a Time Zone and Cancer Risk in the United States. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2017, 26, 1306-1311.	1.1	58
62	Multimodal ambulatory sleep detection. , 2017, 2017, 465-468.		13
63	Irregular sleep/wake patterns are associated with poorer academic performance and delayed circadian and sleep/wake timing. <i>Scientific Reports</i> , 2017, 7, 3216.	1.6	325
64	On-line EEG Denoising and Cleaning Using Correlated Sparse Signal Recovery and Active Learning. <i>International Journal of Wireless Information Networks</i> , 2017, 24, 109-123.	1.8	4
65	Are Individual Differences in Sleep and Circadian Timing Amplified by Use of Artificial Light Sources?. <i>Journal of Biological Rhythms</i> , 2017, 32, 165-176.	1.4	36
66	Later circadian timing of food intake is associated with increased body fat. <i>American Journal of Clinical Nutrition</i> , 2017, 106, 1213-1219.	2.2	280
67	Light Therapy Promoting Dopamine Release by Stimulating Retina in Parkinson Diseaseâ€™Reply. <i>JAMA Neurology</i> , 2017, 74, 1268.	4.5	9
68	Statistics for Sleep and Biological Rhythms Research. <i>Journal of Biological Rhythms</i> , 2017, 32, 7-17.	1.4	10
69	Statistics for Sleep and Biological Rhythms Research. <i>Journal of Biological Rhythms</i> , 2017, 32, 18-25.	1.4	21
70	Modeling the adenosine system as a modulator of cognitive performance and sleep patterns during sleep restriction and recovery. <i>PLoS Computational Biology</i> , 2017, 13, e1005759.	1.5	21
71	Circadian phase resetting by a single short-duration light exposure. <i>JCI Insight</i> , 2017, 2, e89494.	2.3	46
72	Prediction of Vigilant Attention and Cognitive Performance Using Self-Reported Alertness, Circadian Phase, Hours since Awakening, and Accumulated Sleep Loss. <i>PLoS ONE</i> , 2016, 11, e0151770.	1.1	39

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73	On-line EEG Denoising using correlated sparse recovery. , 2016, , .		1
74	Applying mathematical models to predict resident physician performance and alertness on traditional and novel work schedules. BMC Medical Education, 2016, 16, 239.	1.0	16
75	Effect of Slow Wave Sleep Disruption on Metabolic Parameters in Adolescents. Sleep, 2016, 39, 1591-1599.	0.6	26
76	Human fatigue and the crash of the airship <i>Italia</i> . Polar Research, 2016, 35, 27105.	1.6	5
77	Impact of Common Diabetes Risk Variant in <i>MTNR1B</i> on Sleep, Circadian, and Melatonin Physiology. Diabetes, 2016, 65, 1741-1751.	0.3	75
78	Recognizing academic performance, sleep quality, stress level, and mental health using personality traits, wearable sensors and mobile phones. , 2015, 2015, .		173
79	Prediction of Happy-Sad mood from daily behaviors and previous sleep history. , 2015, 2015, 6796-9.		43
80	Thalamic mechanisms underlying alpha-delta sleep with implications for fibromyalgia. Journal of Neurophysiology, 2015, 114, 1923-1930.	0.9	18
81	Quantifying Pituitary-Adrenal Dynamics and Deconvolution of Concurrent Cortisol and Adrenocorticotrophic Hormone Data by Compressed Sensing. IEEE Transactions on Biomedical Engineering, 2015, 62, 2379-2388.	2.5	24
82	Deconvolution of Serum Cortisol Levels by Using Compressed Sensing. PLoS ONE, 2014, 9, e85204.	1.1	45
83	Biological Time Series Analysis Using a Context Free Language: Applicability to Pulsatile Hormone Data. PLoS ONE, 2014, 9, e104087.	1.1	4
84	Absence of Central Circadian Pacemaker Abnormalities in Humans With Loss of Function Mutation in Prokineticin 2. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E561-E566.	1.8	8
85	A Mathematical Model of the Circadian Phase-Shifting Effects of Exogenous Melatonin. Journal of Biological Rhythms, 2013, 28, 79-89.	1.4	21
86	Survival analysis indicates that age-related decline in sleep continuity occurs exclusively during NREM sleep. Neurobiology of Aging, 2013, 34, 309-318.	1.5	89
87	Classifying performance impairment in response to sleep loss using pattern recognition algorithms on single session testing. Accident Analysis and Prevention, 2013, 50, 992-1002.	3.0	5
88	Analysis Method and Experimental Conditions Affect Computed Circadian Phase from Melatonin Data. PLoS ONE, 2012, 7, e33836.	1.1	28
89	Sleep Misperception in Healthy Adults: Implications for Insomnia Diagnosis. Journal of Clinical Sleep Medicine, 2012, 08, 547-554.	1.4	35
90	Ramelteon Prior to a Short Evening Nap Impairs Neurobehavioral Performance for up to 12 Hours after Awakening. Journal of Clinical Sleep Medicine, 2010, 06, 565-571.	1.4	12

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91	Uncovering Residual Effects of Chronic Sleep Loss on Human Performance. <i>Science Translational Medicine</i> , 2010, 2, 14ra3.	5.8	199
92	Taking the Lag out of Jet Lag through Model-Based Schedule Design. <i>PLoS Computational Biology</i> , 2009, 5, e1000418.	1.5	46
93	Melatonin agonist tasimelteon (VEC-162) for transient insomnia after sleep-time shift: two randomised controlled multicentre trials. <i>Lancet, The</i> , 2009, 373, 482-491.	6.3	193
94	Age-Related Reduction in the Maximal Capacity for Sleep—Implications for Insomnia. <i>Current Biology</i> , 2008, 18, 1118-1123.	1.8	153
95	Measuring Melatonin in Humans. <i>Journal of Clinical Sleep Medicine</i> , 2008, 4, 66-69.	1.4	385
96	Measuring melatonin in humans. <i>Journal of Clinical Sleep Medicine</i> , 2008, 4, 66-9.	1.4	161
97	Developing Mathematical Models of Neurobehavioral Performance for the “Real World”. <i>Journal of Biological Rhythms</i> , 2007, 22, 246-258.	1.4	39
98	Review: On Mathematical Modeling of Circadian Rhythms, Performance, and Alertness. <i>Journal of Biological Rhythms</i> , 2007, 22, 91-102.	1.4	49
99	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.	0.8	89
100	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.	3.4	51
101	Interindividual Variation in Sleep Duration and Its Association With Sleep Debt in Young Adults. <i>Sleep</i> , 2005, 28, 1253-1259.	0.6	114
102	Clinical Aspects of Human Circadian Rhythms. <i>Journal of Biological Rhythms</i> , 2005, 20, 375-386.	1.4	108
103	Comparison of Amplitude Recovery Dynamics of Two Limit Cycle Oscillator Models of the Human Circadian Pacemaker. <i>Chronobiology International</i> , 2005, 22, 613-629.	0.9	24
104	Older People Awaken More Frequently but Fall Back Asleep at the Same Rate as Younger People. <i>Sleep</i> , 2004, 27, 793-798.	0.6	68
105	A statistical model of diurnal variation in human growth hormone. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003, 285, E1118-E1126.	1.8	17
106	Comparisons of the Variability of Three Markers of the Human Circadian Pacemaker. <i>Journal of Biological Rhythms</i> , 2002, 17, 181-193.	1.4	303
107	Circadian Rhythms of Women with Fibromyalgia ¹ . <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001, 86, 1034-1039.	1.8	95
108	Linear Demasking Techniques Are Unreliable for Estimating the Circadian Phase of Ambulatory Temperature Data. <i>Journal of Biological Rhythms</i> , 1999, 14, 260-274.	1.4	50

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109	Do plasma melatonin concentrations decline with age?. American Journal of Medicine, 1999, 107, 432-436.	0.6	229
110	Nonphotic entrainment of the human circadian pacemaker. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 274, R991-R996.	0.9	95
111	The Parathyroid Hormone Circadian Rhythm Is Truly Endogenousâ€™A General Clinical Research Center Study¹. Journal of Clinical Endocrinology and Metabolism, 1997, 82, 281-286.	1.8	121
112	Human circadian pacemaker is sensitive to light throughout subjective day without evidence of transients. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1997, 273, R1800-R1809.	0.9	80
113	Suppression of Melatonin Secretion in Some Blind Patients by Exposure to Bright Light. New England Journal of Medicine, 1995, 332, 6-11.	13.9	579
114	Sleep Restriction and Recurrent Circadian Disruption Differentially Affects Blood Pressure, Sodium Retention, and Aldosterone Secretion. Frontiers in Physiology, 0, 13, .	1.3	4