

George C Brainard

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

6,373
citations

236612

25
h-index

276539

41
g-index

44
all docs

44
docs citations

44
times ranked

3830
citing authors

#	ARTICLE	IF	CITATIONS
1	Action Spectrum for Melatonin Regulation in Humans: Evidence for a Novel Circadian Photoreceptor. <i>Journal of Neuroscience</i> , 2001, 21, 6405-6412.	1.7	1,563
2	Measuring and using light in the melanopsin age. <i>Trends in Neurosciences</i> , 2014, 37, 1-9.	4.2	879
3	High Sensitivity of the Human Circadian Melatonin Rhythm to Resetting by Short Wavelength Light. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003, 88, 4502-4505.	1.8	655
4	Short-wavelength sensitivity for the direct effects of light on alertness, vigilance, and the waking electroencephalogram in humans. <i>Sleep</i> , 2006, 29, 161-8.	0.6	372
5	Spectral Responses of the Human Circadian System Depend on the Irradiance and Duration of Exposure to Light. <i>Science Translational Medicine</i> , 2010, 2, 31ra33.	5.8	345
6	Short-Wavelength Light Sensitivity of Circadian, Pupillary, and Visual Awareness in Humans Lacking an Outer Retina. <i>Current Biology</i> , 2007, 17, 2122-2128.	1.8	296
7	Breast cancer and circadian disruption from electric lighting in the modern world. <i>Ca-A Cancer Journal for Clinicians</i> , 2014, 64, 207-218.	157.7	252
8	Sensitivity of the Human Circadian System to Short-Wavelength (420-nm) Light. <i>Journal of Biological Rhythms</i> , 2008, 23, 379-386.	1.4	211
9	Photic Regulation of Melatonin in Humans: Ocular and Neural Signal Transduction. <i>Journal of Biological Rhythms</i> , 1997, 12, 537-546.	1.4	187
10	Diurnal Spectral Sensitivity of the Acute Alerting Effects of Light. <i>Sleep</i> , 2014, 37, 271-281.	0.6	162
11	Recommendations for daytime, evening, and nighttime indoor light exposure to best support physiology, sleep, and wakefulness in healthy adults. <i>PLoS Biology</i> , 2022, 20, e3001571.	2.6	158
12	Photons, Clocks, and Consciousness. <i>Journal of Biological Rhythms</i> , 2005, 20, 314-325.	1.4	139
13	Human Melatonin Regulation Is Not Mediated by the Three Cone Photopic Visual System. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001, 86, 433-436.	1.8	125
14	Human phase response curve to a single 6.5-h pulse of short-wavelength light. <i>Journal of Physiology</i> , 2013, 591, 353-363.	1.3	125
15	The relationship between electromagnetic field and light exposures to melatonin and breast cancer risk: A review of the relevant literature. <i>Journal of Pineal Research</i> , 1999, 26, 65-100.	3.4	112
16	Short-wavelength enrichment of polychromatic light enhances human melatonin suppression potency. <i>Journal of Pineal Research</i> , 2015, 58, 352-361.	3.4	85
17	Dim Light Adaptation Attenuates Acute Melatonin Suppression in Humans. <i>Journal of Biological Rhythms</i> , 2006, 21, 394-404.	1.4	83
18	A Review of Human Physiological Responses to Light: Implications for the Development of Integrative Lighting Solutions. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2022, 18, 387-414.	1.5	69

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19	A Multicenter Study of the Light Visor for Seasonal Affective Disorder: No Difference in Efficacy Found Between Two Different Intensities. <i>Neuropsychopharmacology</i> , 1993, 8, 151-160.	2.8	58
20	The Influence of Various Irradiances of Artificial Light, Twilight, and Moonlight on the Suppression of Pineal Melatonin Content in the Syrian Hamster. <i>Journal of Pineal Research</i> , 1984, 1, 105-119.	3.4	57
21	Regulation of L1 expression and retrotransposition by melatonin and its receptor: implications for cancer risk associated with light exposure at night. <i>Nucleic Acids Research</i> , 2014, 42, 7694-7707.	6.5	56
22	The development of lighting countermeasures for sleep disruption and circadian misalignment during spaceflight. <i>Current Opinion in Pulmonary Medicine</i> , 2016, 22, 535-544.	1.2	41
23	Solid-state lighting for the International Space Station: Tests of visual performance and melatonin regulation. <i>Acta Astronautica</i> , 2013, 92, 21-28.	1.7	37
24	The influence of red light exposure at night on circadian metabolism and physiology in Sprague-Dawley rats. <i>Journal of the American Association for Laboratory Animal Science</i> , 2015, 54, 40-50.	0.6	31
25	Daytime Blue Light Enhances the Nighttime Circadian Melatonin Inhibition of Human Prostate Cancer Growth. <i>Comparative Medicine</i> , 2015, 65, 473-85.	0.4	31
26	Effects of Daytime Exposure to Light from Blue-Enriched Light-Emitting Diodes on the Nighttime Melatonin Amplitude and Circadian Regulation of Rodent Metabolism and Physiology. <i>Comparative Medicine</i> , 2016, 66, 373-383.	0.4	25
27	Influence of Daytime LED Light Exposure on Circadian Regulatory Dynamics of Metabolism and Physiology in Mice. <i>Comparative Medicine</i> , 2019, 69, 350-373.	0.4	21
28	Effect of different spectral transmittances through tinted animal cages on circadian metabolism and physiology in Sprague-Dawley rats. <i>Journal of the American Association for Laboratory Animal Science</i> , 2014, 53, 44-51.	0.6	18
29	Menstrual phase-dependent differences in neurobehavioral performance: the role of temperature and the progesterone/estradiol ratio. <i>Sleep</i> , 2020, 43, .	0.6	17
30	Spectral sensitivity of circadian phase resetting, melatonin suppression and acute alerting effects of intermittent light exposure. <i>Biochemical Pharmacology</i> , 2021, 191, 114504.	2.0	17
31	The effects of ultraviolet-A radiation on visual evoked potentials in the young human eye. <i>Acta Ophthalmologica</i> , 1996, 74, 553-557.	0.4	16
32	Effect of MR imaging on the normal human pineal body: Measurement of plasma melatonin levels. <i>Journal of Magnetic Resonance Imaging</i> , 1994, 4, 7-11.	1.9	15
33	Relevance of Electrical Light on Circadian, Neuroendocrine, and Neurobehavioral Regulation in Laboratory Animal Facilities. <i>ILAR Journal</i> , 2019, 60, 150-158.	1.8	13
34	Endogenous circadian regulation and phase resetting of clinical metabolic biomarkers. <i>Journal of Pineal Research</i> , 2021, 71, e12752.	3.4	8
35	Effect of spectral transmittance through red-tinted rodent cages on circadian metabolism and physiology in nude rats. <i>Journal of the American Association for Laboratory Animal Science</i> , 2013, 52, 745-55.	0.6	8
36	Influence of near-ultraviolet radiation on reproductive and immunological development in juvenile male Siberian hamsters. <i>Journal of Experimental Biology</i> , 2001, 204, 2535-2541.	0.8	7

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37	Melatonin Profile in Marmots: The Influence of Catecholamines, Hibernation, and Light. <i>Journal of Pineal Research</i> , 1989, 7, 105-113.	3.4	6
38	Effects of Short Photoperiod on ATPase Activities in the Testis of the Immature Siberian Hamster. <i>Biology of Reproduction</i> , 1992, 47, 509-513.	1.2	6
39	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
40	Quantitative autoradiographic maps of local cerebral glucose metabolism in awake rats: I. Septal region and anterior hypothalamus. <i>Journal of Comparative Neurology</i> , 1987, 259, 559-570.	0.9	2
41	Immune Effects of Intracerebral Infection with Mouse Hepatitis Virus. <i>Annals of the New York Academy of Sciences</i> , 1988, 540, 642-644.	1.8	1
42	The Effect of Polarized Versus Nonpolarized Light on Melatonin Regulation in Humans â€. <i>Photochemistry and Photobiology</i> , 2007, 71, 766-770.	1.3	0