Ethan D Buhr

List of Publications by Year
in descending order

34 papers	7,978 citations	304743 22 h-index	434195 31 g-index
35 all docs	35 docs citations	35 times ranked	7153 citing authors

#	Article	IF	Citations
1	The molecular clockwork of mammalian cells. Seminars in Cell and Developmental Biology, 2022, 126, 87-96.	5.0	16
2	Opsin 3â€“G_{Î±s} Promotes Airway Smooth Muscle Relaxation Modulated by G Protein Receptor Kinase 2. American Journal of Respiratory Cell and Molecular Biology, 2021, 64, 59-68.	2.9	15
3	3D-printed assistive pipetting system for gel electrophoresis for technicians with low acuity vision. BioTechniques, 2021, 70, 49-53.	1.8	2
4	Evolutionary Constraint on Visual and Nonvisual Mammalian Opsins. Journal of Biological Rhythms, 2021, 36, 109-126.	2.6	22
5	Melatonin Adjusts the Phase of Mouse Circadian Clocks in the Cornea Both Ex Vivo and In Vivo. Journal of Biological Rhythms, 2021, 36, 470-482.	2.6	1
6	Molecular circadian rhythms in mammals: From angstroms to organisms. Seminars in Cell and Developmental Biology, 2021, , .	5.0	0
7	Violet-light suppression of thermogenesis by opsin 5 hypothalamic neurons. Nature, 2020, 585, 420-425.	27.8	78
8	Wounding Induces Facultative Opn5-Dependent Circadian Photoreception in the Murine Cornea. , 2020, 61, 37.		8
9	Adaptive Thermogenesis in Mice Is Enhanced by Opsin 3-Dependent Adipocyte Light Sensing. Cell Reports, 2020, 30, 672-686.e8.	6.4	53
10	Neuropsin (OPN5) Mediates Local Light-Dependent Induction of Circadian Clock Genes and Circadian Photoentrainment in Exposed Murine Skin. Current Biology, 2019, 29, 3478-3487.e4.	3.9	76
11	An opsin 5â€“dopamine pathway mediates light-dependent vascular development in the eye. Nature Cell Biology, 2019, 21, 420-429.	10.3	63
12	Melanopsin expression in the cornea. Visual Neuroscience, 2018, 35, E004.	1.0	33
13	Ocular Clocks: Adapting Mechanisms for Eye Functions and Health. , 2018, 59, 4856.		61
14	An LHX1-Regulated Transcriptional Network Controls Sleep/Wake Coupling and Thermal Resistance of the Central Circadian Clockworks. Current Biology, 2017, 27, 128-136.	3.9	36
15	Period2 3â€²-UTR and microRNA-24 regulate circadian rhythms by repressing PERIOD2 protein accumulation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8855-E8864.	7.1	71
16	Light entrainment of the murine intraocular pressure circadian rhythm utilizes non-local mechanisms. PLoS ONE, 2017, 12, e0184790.	2.5	20
17	Ocular Photoreception for Circadian Rhythm Entrainment in Mammals. Annual Review of Vision Science, 2016, 2, 153-169.	4.4	22
18	Melanopsin: The Tale of the Tail. Neuron, 2016, 90, 909-911.	8.1	5

#	Article	IF	Citations
19	Neuropsin (OPN5)-mediated photoentrainment of local circadian oscillators in mammalian retina and cornea. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13093-13098.	7.1	132
20	Local photic entrainment of the retinal circadian oscillator in the absence of rods, cones, and melanopsin. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8625-8630.	7.1	42
21	The making of the master clock. ELife, 2014, 3, e04014.	6.0	3
22	Molecular Components of the Mammalian Circadian Clock. Handbook of Experimental Pharmacology, 2013, , 3-27.	1.8	544
23	Melanopsin and Mechanisms of Non-visual Ocular Photoreception. Journal of Biological Chemistry, 2012, 287, 1649-1656.	3.4	66
24	Identification of diverse modulators of central and peripheral circadian clocks by high-throughput chemical screening. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 101-106.	7.1	195
25	Phase-Resetting Sensitivity of the Suprachiasmatic Nucleus and Oscillator Amplitude. Journal of Biological Rhythms, 2011, 26, 371-373.	2.6	3
26	Disruption of the clock components CLOCK and BMAL1 leads to hypoinsulinaemia and diabetes. Nature, 2010, 466, 627-631.	27.8	1,261
27	Emergence of Noise-Induced Oscillations in the Central Circadian Pacemaker. PLoS Biology, 2010, 8, e1000513.	5.6	172
28	Temperature as a Universal Resetting Cue for Mammalian Circadian Oscillators. Science, 2010, 330, 379-385.	12.6	745
29	Genetic suppression of the circadian Clock mutation by the melatonin biosynthesis pathway. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8399-8403.	7.1	52
30	Circadian Clock Feedback Cycle Through NAMPT-Mediated NAD ⁺ Biosynthesis. Science, 2009, 324, 651-654.	12.6	992
31	Intercellular Coupling Confers Robustness against Mutations in the SCN Circadian Clock Network. Cell, 2007, 129, 605-616.	28.9	676
32	The mouse Clock mutation reduces circadian pacemaker amplitude and enhances efficacy of resetting stimuli and phase-response curve amplitude. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9327-9332.	7.1	209
33	A noncanonical E-box enhancer drives mouse Period2 circadian oscillations in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2608-2613.	7.1	272
34	PERIOD2::LUCIFERASE real-time reporting of circadian dynamics reveals persistent circadian oscillations in mouse peripheral tissues. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5339-5346.	7.1	2,032