

Zachary M Weil

List of Publications by Year in descending order

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108
papers

5,536
citations

101543

36
h-index

85541

71
g-index

157
all docs

157
docs citations

157
times ranked

7149
citing authors

#	ARTICLE	IF	CITATIONS
1	Light at night increases body mass by shifting the time of food intake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18664-18669.	7.1	618
2	Seasonal changes in vertebrate immune activity: mediation by physiological trade-offs. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 321-339.	4.0	443
3	Air pollution impairs cognition, provokes depressive-like behaviors and alters hippocampal cytokine expression and morphology. <i>Molecular Psychiatry</i> , 2011, 16, 987-995.	7.9	339
4	Inflammation: Mechanisms, Costs, and Natural Variation. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2012, 43, 385-406.	8.3	271
5	Endocrine and Physiological Changes in Response to Chronic Corticosterone: A Potential Model of the Metabolic Syndrome in Mouse. <i>Endocrinology</i> , 2010, 151, 2117-2127.	2.8	221
6	Dim Light at Night Disrupts Molecular Circadian Rhythms and Increases Body Weight. <i>Journal of Biological Rhythms</i> , 2013, 28, 262-271.	2.6	219
7	Influence of light at night on murine anxiety- and depressive-like responses. <i>Behavioural Brain Research</i> , 2009, 205, 349-354.	2.2	176
8	Influence of photoperiod on hormones, behavior, and immune function. <i>Frontiers in Neuroendocrinology</i> , 2011, 32, 303-319.	5.2	155
9	Autonomic Dysreflexia Causes Chronic Immune Suppression after Spinal Cord Injury. <i>Journal of Neuroscience</i> , 2013, 33, 12970-12981.	3.6	134
10	IMMUNE DEFENSE AND REPRODUCTIVE PACE OF LIFE IN PEROMYSCUS MICE. <i>Ecology</i> , 2007, 88, 2516-2528.	3.2	129
11	Melatonin receptor (MT1) knockout mice display depression-like behaviors and deficits in sensorimotor gating. <i>Brain Research Bulletin</i> , 2006, 68, 425-429.	3.0	110
12	Refining approaches and diversifying directions in ecoimmunology. <i>Integrative and Comparative Biology</i> , 2006, 46, 1030-1039.	2.0	107
13	Theta reset produces optimal conditions for long-term potentiation. <i>Hippocampus</i> , 2004, 14, 684-687.	1.9	103
14	Dim Light at Night Exaggerates Weight Gain and Inflammation Associated With a High-Fat Diet in Male Mice. <i>Endocrinology</i> , 2013, 154, 3817-3825.	2.8	96
15	Injury timing alters metabolic, inflammatory and functional outcomes following repeated mild traumatic brain injury. <i>Neurobiology of Disease</i> , 2014, 70, 108-116.	4.4	89
16	Mice exposed to dim light at night exaggerate inflammatory responses to lipopolysaccharide. <i>Brain, Behavior, and Immunity</i> , 2013, 34, 159-163.	4.1	86
17	Chronic dim light at night provokes reversible depression-like phenotype: possible role for TNF. <i>Molecular Psychiatry</i> , 2013, 18, 930-936.	7.9	85
18	Nocturnal Light Exposure Impairs Affective Responses in a Wavelength-Dependent Manner. <i>Journal of Neuroscience</i> , 2013, 33, 13081-13087.	3.6	75

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19	Light at Night Alters Daily Patterns of Cortisol and Clock Proteins in Female Siberian Hamsters. <i>Journal of Neuroendocrinology</i> , 2013, 25, 590-596.	2.6	75
20	Altered temporal patterns of anxiety in aged and amyloid precursor protein (APP) transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11686-11691.	7.1	74
21	d-Aspartate Regulates Melanocortin Formation and Function: Behavioral Alterations in d-Aspartate Oxidase-Deficient Mice. <i>Journal of Neuroscience</i> , 2006, 26, 2814-2819.	3.6	68
22	Photoperiod modulates gut bacteria composition in male Siberian hamsters (<i>Phodopus sungorus</i>). <i>Brain, Behavior, and Immunity</i> , 2010, 24, 577-584.	4.1	68
23	The injured nervous system: A Darwinian perspective. <i>Progress in Neurobiology</i> , 2008, 86, 48-59.	5.7	59
24	Alcohol abuse after traumatic brain injury: Experimental and clinical evidence. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 62, 89-99.	6.1	58
25	Trade-offs within the immune systems of female White-footed Mice, <i>Peromyscus leucopus</i> . <i>Functional Ecology</i> , 2006, 20, 630-636.	3.6	57
26	Immunological memory is compromised by food restriction in deer mice <i>Peromyscus maniculatus</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 292, R316-R320.	1.8	53
27	Sleep deprivation attenuates inflammatory responses and ischemic cell death. <i>Experimental Neurology</i> , 2009, 218, 129-136.	4.1	52
28	Cardiopulmonary Arrest and Resuscitation Disrupts Cholinergic Anti-Inflammatory Processes: A Role for Cholinergic $\alpha 7$ Nicotinic Receptors. <i>Journal of Neuroscience</i> , 2011, 31, 3446-3452.	3.6	52
29	Juvenile Traumatic Brain Injury Increases Alcohol Consumption and Reward in Female Mice. <i>Journal of Neurotrauma</i> , 2016, 33, 895-903.	3.4	51
30	Impact of generalized brain arousal on sexual behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2265-2270.	7.1	48
31	Quantitative descriptions of generalized arousal, an elementary function of the vertebrate brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15617-15623.	7.1	48
32	Dim light at night disrupts the short-day response in Siberian hamsters. <i>General and Comparative Endocrinology</i> , 2014, 197, 56-64.	1.8	46
33	Immune challenge retards seasonal reproductive regression in rodents: evidence for terminal investment. <i>Biology Letters</i> , 2006, 2, 393-396.	2.3	43
34	Dim Light at Night Does Not Disrupt Timing or Quality of Sleep in Mice. <i>Chronobiology International</i> , 2013, 30, 1016-1023.	2.0	43
35	Neuroendocrine control of photoperiodic changes in immune function. <i>Frontiers in Neuroendocrinology</i> , 2015, 37, 108-118.	5.2	43
36	Photoperiod-mediated impairment of long-term potentiation and learning and memory in male white-footed mice. <i>Neuroscience</i> , 2011, 175, 127-132.	2.3	39

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37	Social isolation potentiates cell death and inflammatory responses after global ischemia. <i>Molecular Psychiatry</i> , 2008, 13, 913-915.	7.9	38
38	Perinatal photoperiod organizes adult immune responses in Siberian hamsters (<i>Phodopus sungorus</i>). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R1714-R1719.	1.8	37
39	Early Histone Modifications in the Ventromedial Hypothalamus and Preoptic Area Following Oestradiol Administration. <i>Journal of Neuroendocrinology</i> , 2013, 25, 939-955.	2.6	36
40	Traumatic brain injury and obesity induce persistent central insulin resistance. <i>European Journal of Neuroscience</i> , 2016, 43, 1034-1043.	2.6	36
41	Behavioural alterations in male mice lacking the gene for d-aspartate oxidase. <i>Behavioural Brain Research</i> , 2006, 171, 295-302.	2.2	34
42	How generalized CNS arousal strengthens sexual arousal (and vice versa). <i>Hormones and Behavior</i> , 2011, 59, 689-695.	2.1	33
43	Depletion of polysialic acid from neural cell adhesion molecule (PSA-NCAM) increases CA3 dendritic arborization and increases vulnerability to excitotoxicity. <i>Experimental Neurology</i> , 2013, 241, 5-12.	4.1	33
44	Social interactions alter proinflammatory cytokine gene expression and behavior following endotoxin administration. <i>Brain, Behavior, and Immunity</i> , 2006, 20, 72-79.	4.1	32
45	Neuronal nitric oxide synthase and NADPH oxidase interact to affect cognitive, affective, and social behaviors in mice. <i>Behavioural Brain Research</i> , 2013, 256, 320-327.	2.2	31
46	Minocycline blocks traumatic brain injury-induced alcohol consumption and nucleus accumbens inflammation in adolescent male mice. <i>Brain, Behavior, and Immunity</i> , 2018, 69, 532-539.	4.1	29
47	Dark nights reverse metabolic disruption caused by dim light at night. <i>Obesity</i> , 2013, 21, 1159-1164.	3.0	28
48	Evidence for feedback control of pineal melatonin secretion. <i>Neuroscience Letters</i> , 2013, 542, 123-125.	2.1	28
49	Time-of-day determines neuronal damage and mortality after cardiac arrest. <i>Neurobiology of Disease</i> , 2009, 36, 352-360.	4.4	27
50	Exercise attenuates the metabolic effects of dim light at night. <i>Physiology and Behavior</i> , 2014, 124, 33-36.	2.1	24
51	Binge ethanol in adulthood exacerbates negative outcomes following juvenile traumatic brain injury. <i>Brain, Behavior, and Immunity</i> , 2017, 60, 304-311.	4.1	24
52	Maternal aggression persists following lipopolysaccharide-induced activation of the immune system. <i>Physiology and Behavior</i> , 2006, 87, 694-699.	2.1	23
53	Photoperiod affects the diurnal rhythm of hippocampal neuronal morphology of siberian hamsters. <i>Chronobiology International</i> , 2013, 30, 1089-1100.	2.0	23
54	Dim light at night impairs recovery from global cerebral ischemia. <i>Experimental Neurology</i> , 2019, 317, 100-109.	4.1	23

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55	Histone modifications proposed to regulate sexual differentiation of brain and behavior. <i>BioEssays</i> , 2010, 32, 932-939.	2.5	22
56	Ischemia-induced hyperglycemia: Consequences, neuroendocrine regulation, and a role for RAGE. <i>Hormones and Behavior</i> , 2012, 62, 280-285.	2.1	22
57	Behaviour of laboratory mice is altered by light pollution within the housing environment. <i>Animal Welfare</i> , 2013, 22, 483-487.	0.7	21
58	Artificial light at night alters delayed-type hypersensitivity reaction in response to acute stress in Siberian hamsters. <i>Brain, Behavior, and Immunity</i> , 2013, 34, 39-42.	4.1	20
59	Traumatic brain injuries during development disrupt dopaminergic signaling. <i>Experimental Neurology</i> , 2017, 297, 110-117.	4.1	20
60	Fever and sickness behaviour vary among congeneric rodents. <i>Functional Ecology</i> , 2008, 22, 68-77.	3.6	19
61	Dim light at night interacts with intermittent hypoxia to alter cognitive and affective responses. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R78-R86.	1.8	19
62	Dim light at night interferes with the development of the short-day phenotype and impairs cell-mediated immunity in Siberian hamsters (<i>Phodopus sungorus</i>). <i>Journal of Experimental Zoology</i> , 2014, 321, 450-456.	1.2	19
63	Latitude affects photoperiod-induced changes in immune response in meadow voles (<i>Microtus</i>). <i>Journal of Experimental Zoology</i> , 2014, 321, 450-456.	1.0	18
64	Photoperiod and stress regulation of corticosteroid receptor, brain-derived neurotrophic factor, and glucose transporter GLUT3 mRNA in the hippocampus of male Siberian hamsters (<i>Phodopus</i>). <i>Journal of Experimental Zoology</i> , 2014, 321, 450-456.	1.0	17
65	Housing condition alters immunological and reproductive responses to day length in Siberian hamsters (<i>Phodopus sungorus</i>). <i>Hormones and Behavior</i> , 2007, 52, 261-266.	2.1	16
66	Photoperiod alters affective responses in collared lemmings. <i>Behavioural Brain Research</i> , 2007, 179, 305-309.	2.2	16
67	Sleep deprivation attenuates endotoxin-induced cytokine gene expression independent of day length and circulating cortisol in male Siberian hamsters (<i>Phodopus sungorus</i>). <i>Journal of Experimental Biology</i> , 2013, 216, 2581-6.	1.7	16
68	Traumatic Brain Injuries during Development: Implications for Alcohol Abuse. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 135.	2.0	16
69	Photoperiod Differentially Affects Immune Function and Reproduction in Collared Lemmings (<i>Dicrostonyx groenlandicus</i>). <i>Journal of Biological Rhythms</i> , 2006, 21, 384-393.	2.6	15
70	Chronic citalopram treatment ameliorates depressive behavior associated with light at night.. <i>Behavioral Neuroscience</i> , 2012, 126, 654-658.	1.2	15
71	Photoperiod Mediated Changes in Olfactory Bulb Neurogenesis and Olfactory Behavior in Male White-Footed Mice (<i>Peromyscus leucopus</i>). <i>PLoS ONE</i> , 2012, 7, e42743.	2.5	14
72	Photoperiod alters autonomic regulation of the heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4525-4530.	7.1	13

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73	Estrous phase alters social behavior in a polygynous but not a monogamous <i>Peromyscus</i> species. <i>Hormones and Behavior</i> , 2010, 58, 193-199.	2.1	13
74	Moderate Intensity Treadmill Exercise Increases Survival of Newborn Hippocampal Neurons and Improves Neurobehavioral Outcomes after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2021, 38, 1858-1869.	3.4	13
75	Sex-specific effects of glucose deprivation on cell-mediated immunity and reproduction in Siberian hamsters (<i>Phodopus sungorus</i>). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2008, 178, 623-628.	1.5	12
76	Maternal pinealectomy increases depressive-like responses in Siberian hamster offspring. <i>Behavioural Brain Research</i> , 2008, 189, 387-391.	2.2	12
77	Photoperiodic regulation of hippocampal neurogenesis in adult male white-footed mice (<i>Peromyscus leucopus</i>). <i>European Journal of Neuroscience</i> , 2014, 40, 2674-2679.	2.6	12
78	Alcohol Use Disorder and Traumatic Brain Injury. <i>Alcohol Research: Current Reviews</i> , 2018, 39, 171-180.	3.6	12
79	Does pediatric traumatic brain injury cause adult alcohol misuse: Combining preclinical and epidemiological approaches. <i>Experimental Neurology</i> , 2019, 317, 284-290.	4.1	11
80	Short photoperiods attenuate central responses to an inflammogen. <i>Brain, Behavior, and Immunity</i> , 2012, 26, 617-622.	4.1	10
81	Timing of light pulses and photoperiod on the diurnal rhythm of hippocampal neuronal morphology of Siberian hamsters. <i>Neuroscience</i> , 2014, 270, 69-75.	2.3	10
82	Dim light at night exacerbates stroke outcome. <i>European Journal of Neuroscience</i> , 2020, 52, 4139-4146.	2.6	10
83	Sex, Drugs, and TBI: The Role of Sex in Substance Abuse Related to Traumatic Brain Injuries. <i>Frontiers in Neurology</i> , 2020, 11, 546775.	2.4	10
84	Low temperatures during early development influence subsequent maternal and reproductive function in adult female mice. <i>Physiology and Behavior</i> , 2006, 87, 416-423.	2.1	9
85	Epstein-Barr virus (EBV)-encoded dUTPase and chronic restraint induce impaired learning and memory and sickness responses. <i>Physiology and Behavior</i> , 2014, 137, 18-24.	2.1	9
86	Neuroenergetics of traumatic brain injury. <i>Concussion</i> , 2016, 1, CNC9.	1.0	9
87	Repetitive Brain Injury of Juvenile Mice Impairs Environmental Enrichment-Induced Modulation of REM Sleep in Adulthood. <i>Neuroscience</i> , 2018, 375, 74-83.	2.3	9
88	Mild traumatic brain injury increases vulnerability to cerebral ischemia in mice. <i>Experimental Neurology</i> , 2021, 342, 113765.	4.1	9
89	Photoperiod Alters Duration and Intensity of Non-Rapid Eye Movement Sleep Following Immune Challenge in Siberian Hamsters (<i>Phodopus sungorus</i>). <i>Chronobiology International</i> , 2012, 29, 683-692.	2.0	8
90	Lifelong consequences of brain injuries during development: From risk to resilience. <i>Frontiers in Neuroendocrinology</i> , 2019, 55, 100793.	5.2	8

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91	Is Pediatric Traumatic Brain Injury Associated with Adult Alcohol Misuse?. Journal of Neurotrauma, 2020, 37, 1637-1644.	3.4	8
92	Interactions among immune, endocrine, and behavioural response to infection. , 2006, , 443-473.		8
93	Introduction to the special issue on circadian rhythms in behavioral neuroscience.. Behavioral Neuroscience, 2014, 128, 237-239.	1.2	7
94	Sexual experience and testosterone during adolescence alter adult neuronal morphology and behavior. Hormones and Behavior, 2013, 64, 454-460.	2.1	6
95	Amino acid-based compound activates atypical PKC and leptin receptor pathways to improve glycemia and anxiety like behavior in diabetic mice. Biomaterials, 2020, 239, 119839.	11.4	6
96	The role of the stress system in recovery after traumatic brain injury: A tribute to Bruce S. McEwen. Neurobiology of Stress, 2022, 19, 100467.	4.0	6
97	Melatonin treatment during early life interacts with restraint to alter neuronal morphology and provoke depressive-like responses. Behavioural Brain Research, 2014, 263, 90-97.	2.2	5
98	Chronic Physical Stress Does Not Interact with Epstein-Barr Virus (EBV)-Encoded DUTPase to Alter the Sickness Response. Journal of Behavioral and Brain Science, 2015, 05, 513-523.	0.5	4
99	Photoperiodism in Amphibians and Reptiles. , 2009, , 399-419.		3
100	Reproductive Behaviors: New Developments in Concepts and in Molecular Mechanisms Progress in Brain Research, Luciano Martini, Editor, January19, 2010.. Progress in Brain Research, 2010, 181, 35-41.	1.4	2
101	Short photoperiods alter cannabinoid receptor expression in hypothalamic nuclei related to energy balance. Neuroscience Letters, 2011, 491, 99-103.	2.1	2
102	Photoperiodism in Mammals: Regulation of Nonreproductive Traits. , 2009, , 461-502.		2
103	Ovarian Steroids Mediate Sex Differences in Alcohol Reward After Brain Injury in Mice. Frontiers in Behavioral Neuroscience, 0, 16, .	2.0	1
104	Photoperiod alters pain responsiveness via changes in pelage characteristics. Canadian Journal of Zoology, 2008, 86, 1212-1216.	1.0	0
105	Seasonal Rhythms in Psychoneuroimmunology. , 2012, , .		0
106	Seasonal Rhythms in Behavior. , 2013, , 1795-1810.		0
107	Early sexual experience alters voluntary alcohol intake in adulthood. Neuroscience Letters, 2014, 563, 129-133.	2.1	0
108	Amino Acid Nanofibers Improve Glycemia and Confer Cognitive Therapeutic Efficacy to Bound Insulin. Pharmaceutics, 2022, 14, 81.	4.5	0