

Michael Lazarus

List of Publications by Year in descending order

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106
papers

5,477
citations

76196

40
h-index

95083

68
g-index

118
all docs

118
docs citations

118
times ranked

5890
citing authors

#	ARTICLE	IF	CITATIONS
1	EP3 prostaglandin receptors in the median preoptic nucleus are critical for fever responses. <i>Nature Neuroscience</i> , 2007, 10, 1131-1133.	7.1	290
2	Arousal Effect of Caffeine Depends on Adenosine A2A Receptors in the Shell of the Nucleus Accumbens. <i>Journal of Neuroscience</i> , 2011, 31, 10067-10075.	1.7	267
3	Glutamatergic Signaling from the Parabrachial Nucleus Plays a Critical Role in Hypercapnic Arousal. <i>Journal of Neuroscience</i> , 2013, 33, 7627-7640.	1.7	195
4	Dominant localization of prostaglandin D receptors on arachnoid trabecular cells in mouse basal forebrain and their involvement in the regulation of non-rapid eye movement sleep. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 11674-11679.	3.3	184
5	Nucleus accumbens controls wakefulness by a subpopulation of neurons expressing dopamine D1 receptors. <i>Nature Communications</i> , 2018, 9, 1576.	5.8	168
6	Slow-wave sleep is controlled by a subset of nucleus accumbens core neurons in mice. <i>Nature Communications</i> , 2017, 8, 734.	5.8	157
7	Parallel Preoptic Pathways for Thermoregulation. <i>Journal of Neuroscience</i> , 2009, 29, 11954-11964.	1.7	134
8	Cellular localization of lipocalin-type prostaglandin D synthase (?-trace) in the central nervous system of the adult rat. <i>Journal of Comparative Neurology</i> , 2000, 428, 62-78.	0.9	128
9	A Key Role for Old Yellow Enzyme in the Metabolism of Drugs by <i>Trypanosoma cruzi</i> . <i>Journal of Experimental Medicine</i> , 2002, 196, 1241-1252.	4.2	125
10	Role of the basal ganglia in the control of sleep and wakefulness. <i>Current Opinion in Neurobiology</i> , 2013, 23, 780-785.	2.0	125
11	How do the basal ganglia regulate sleep-wake behavior?. <i>Trends in Neurosciences</i> , 2012, 35, 723-732.	4.2	124
12	Genetic inactivation of glutamate neurons in the rat sublateralodorsal tegmental nucleus recapitulates REM sleep behaviour disorder. <i>Brain</i> , 2017, 140, 414-428.	3.7	118
13	A Genetically Defined Circuit for Arousal from Sleep during Hypercapnia. <i>Neuron</i> , 2017, 96, 1153-1167.e5.	3.8	116
14	Concurrent and robust regulation of feeding behaviors and metabolism by orexin neurons. <i>Neuropharmacology</i> , 2014, 85, 451-460.	2.0	113
15	The control of sleep and wakefulness by mesolimbic dopamine systems. <i>Neuroscience Research</i> , 2017, 118, 66-73.	1.0	106
16	Basal Forebrain Cholinergic Neurons Primarily Contribute to Inhibition of Electroencephalogram Delta Activity, Rather Than Inducing Behavioral Wakefulness in Mice. <i>Neuropsychopharmacology</i> , 2016, 41, 2133-2146.	2.8	104
17	Activation of ventral tegmental area dopamine neurons produces wakefulness through dopamine D2-like receptors in mice. <i>Brain Structure and Function</i> , 2017, 222, 2907-2915.	1.2	102
18	COX2 in CNS neural cells mediates mechanical inflammatory pain hypersensitivity in mice. <i>Journal of Clinical Investigation</i> , 2009, 119, 287-94.	3.9	98

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19	Striatal adenosine A2A receptor neurons control active-period sleep via parvalbumin neurons in external globus pallidus. <i>ELife</i> , 2017, 6, .	2.8	86
20	Ventromedial medulla inhibitory neuron inactivation induces REM sleep without atonia and REM sleep behavior disorder. <i>Nature Communications</i> , 2018, 9, 504.	5.8	85
21	Dopamine D1 receptor subtype mediates acute stress-induced dendritic growth in excitatory neurons of the medial prefrontal cortex and contributes to suppression of stress susceptibility in mice. <i>Molecular Psychiatry</i> , 2018, 23, 1717-1730.	4.1	82
22	Biocatalytic Synthesis of Optically Active α -Oxyfunctionalized Carbonyl Compounds. <i>Accounts of Chemical Research</i> , 1999, 32, 837-845.	7.6	78
23	Identifying the efferent projections of leptin-responsive neurons in the dorsomedial hypothalamus using a novel conditional tracing approach. <i>Journal of Comparative Neurology</i> , 2010, 518, 2090-2108.	0.9	75
24	Enzymatic Resolution of Chiral 2-Hydroxy Carboxylic Acids by Enantioselective Oxidation with Molecular Oxygen Catalyzed by the Glycolate Oxidase from Spinach (<i>Spinacia oleracea</i>). <i>Journal of Organic Chemistry</i> , 1997, 62, 7841-7843.	1.7	71
25	Immunohistochemical Localization of Microsomal PGE Synthase-1 and Cyclooxygenases in Male Mouse Reproductive Organs. <i>Endocrinology</i> , 2002, 143, 2410-2419.	1.4	70
26	Biochemical Characterization of Mouse Microsomal Prostaglandin E Synthase-1 and Its Colocalization with Cyclooxygenase-2 in Peritoneal Macrophages. <i>Archives of Biochemistry and Biophysics</i> , 2002, 397, 336-341.	1.4	70
27	Gating and the Need for Sleep: Dissociable Effects of Adenosine A1 and A2A Receptors. <i>Frontiers in Neuroscience</i> , 2019, 13, 740.	1.4	70
28	Cyclooxygenase-2-Derived Prostaglandin E ₂ Promotes Injury-Induced Vascular Neointimal Hyperplasia Through the E-prostanoid 3 Receptor. <i>Circulation Research</i> , 2013, 113, 104-114.	2.0	69
29	Enzyme-catalyzed asymmetric synthesis: kinetic resolution of racemic hydroperoxides by enantioselective reduction to alcohols with horseradish peroxidase and guaiacol.. <i>Journal of the American Chemical Society</i> , 1995, 117, 11898-11901.	6.6	68
30	EP3 receptor deficiency attenuates pulmonary hypertension through suppression of Rho/TGF- β 1 signaling. <i>Journal of Clinical Investigation</i> , 2015, 125, 1228-1242.	3.9	68
31	Distribution pattern and molecular signature of cholinergic tuft cells in human gastro-intestinal and pancreatic-biliary tract. <i>Scientific Reports</i> , 2019, 9, 17466.	1.6	64
32	Niacin ameliorates ulcerative colitis via prostaglandin D ₂ -mediated D prostanoid receptor 1 activation. <i>EMBO Molecular Medicine</i> , 2017, 9, 571-588.	3.3	63
33	Biotransformations with Peroxidases. <i>Advances in Biochemical Engineering/Biotechnology</i> , 1999, 63, 73-108.	0.6	62
34	The rostromedial tegmental nucleus is essential for non-rapid eye movement sleep. <i>PLoS Biology</i> , 2018, 16, e2002909.	2.6	61
35	Hypothalamic modulation of adult hippocampal neurogenesis in mice confers activity-dependent regulation of memory and anxiety-like behavior. <i>Nature Neuroscience</i> , 2022, 25, 630-645.	7.1	58
36	Prostaglandin-dependent modulation of dopaminergic neurotransmission elicits inflammation-induced aversion in mice. <i>Journal of Clinical Investigation</i> , 2015, 126, 695-705.	3.9	56

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37	PKA regulatory II β subunit is essential for PGD ₂ -mediated resolution of inflammation. <i>Journal of Experimental Medicine</i> , 2016, 213, 2209-2226.	4.2	55
38	Adenosine and Sleep. <i>Handbook of Experimental Pharmacology</i> , 2017, 253, 359-381.	0.9	54
39	Sleep and Wakefulness Are Controlled by Ventral Medial Midbrain/Pons GABAergic Neurons in Mice. <i>Journal of Neuroscience</i> , 2018, 38, 10080-10092.	1.7	51
40	β Hydroxylation of Carboxylic Acids with Molecular Oxygen Catalyzed by the β Oxidase of Peas (<i>Pisum sativum</i>): A Novel Biocatalytic Synthesis of Enantiomerically Pure (R)-2-Hydroxy Acids. <i>Journal of the American Chemical Society</i> , 1998, 120, 11044-11048.	6.6	50
41	Superior Colliculus GABAergic Neurons Are Essential for Acute Dark Induction of Wakefulness in Mice. <i>Current Biology</i> , 2019, 29, 637-644.e3.	1.8	50
42	Quantitative transformation of racemic 2-hydroxy acids into (R)-2-hydroxy acids by enantioselective oxidation with glycolate oxidase and subsequent reduction of 2-keto acids with d-lactate dehydrogenase. <i>Tetrahedron: Asymmetry</i> , 1998, 9, 351-355.	1.8	49
43	Cyclical Appearance of African Trypanosomes in the Cerebrospinal Fluid: New Insights in How Trypanosomes Enter the CNS. <i>PLoS ONE</i> , 2014, 9, e91372.	1.1	49
44	Ventral pallidal GABAergic neurons control wakefulness associated with motivation through the ventral tegmental pathway. <i>Molecular Psychiatry</i> , 2021, 26, 2912-2928.	4.1	48
45	Projections of nucleus accumbens adenosine A _{2A} receptor neurons in the mouse brain and their implications in mediating sleep-wake regulation. <i>Frontiers in Neuroanatomy</i> , 2013, 7, 43.	0.9	42
46	Late Stage Infection in Sleeping Sickness. <i>PLoS ONE</i> , 2012, 7, e34304.	1.1	41
47	Prostaglandin production from arachidonic acid and evidence for a 9,11-endoperoxide prostaglandin H ₂ reductase in <i>Leishmania</i> . <i>International Journal for Parasitology</i> , 2003, 33, 221-228.	1.3	37
48	Orally administered rubicolin α 6, a β opioid peptide derived from Rubisco, stimulates food intake via leptomenigeal lipocalin α 2 type prostaglandin synthase in mice. <i>Molecular Nutrition and Food Research</i> , 2012, 56, 1315-1323.	1.5	36
49	Activation of E-prostanoid 3 receptor in macrophages facilitates cardiac healing after myocardial infarction. <i>Nature Communications</i> , 2017, 8, 14656.	5.8	36
50	The differential role of prostaglandin E ₂ receptors EP ₃ and EP ₄ in regulation of fever. <i>Molecular Nutrition and Food Research</i> , 2006, 50, 451-455.	1.5	35
51	Acute Social Defeat Stress Increases Sleep in Mice. <i>Frontiers in Neuroscience</i> , 2019, 13, 322.	1.4	35
52	Prostaglandin D ₂ is crucial for seizure suppression and postictal sleep. <i>Experimental Neurology</i> , 2014, 253, 82-90.	2.0	34
53	A mouse model mimicking human first night effect for the evaluation of hypnotics. <i>Pharmacology Biochemistry and Behavior</i> , 2014, 116, 129-136.	1.3	34
54	Characterization of ovalin, an orally active tryptic peptide released from ovalbumin with anxiolytic-like activity. <i>Journal of Neurochemistry</i> , 2012, 122, 356-362.	2.1	32

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55	The roles of prostaglandin E2 and D2 in lipopolysaccharide-mediated changes in sleep. <i>Brain, Behavior, and Immunity</i> , 2015, 47, 172-177.	2.0	32
56	mDia and ROCK Mediate Actin-Dependent Presynaptic Remodeling Regulating Synaptic Efficacy and Anxiety. <i>Cell Reports</i> , 2016, 17, 2405-2417.	2.9	32
57	Polygraphic Recording Procedure for Measuring Sleep in Mice. <i>Journal of Visualized Experiments</i> , 2016, , e53678.	0.2	31
58	Niacin Attenuates Pulmonary Hypertension Through H-PGDS in Macrophages. <i>Circulation Research</i> , 2020, 127, 1323-1336.	2.0	31
59	Immunohistochemical Localization of Microsomal PGE Synthase-1 and Cyclooxygenases in Male Mouse Reproductive Organs. , 0, .		31
60	Enantioselective $\hat{\pm}$ hydroxylation of carboxylic acids with molecular oxygen catalyzed by the $\hat{\pm}$ oxidation enzyme system of young pea leaves (<i>Pisum sativum</i>): A substrate selectivity study. <i>Tetrahedron: Asymmetry</i> , 1996, 7, 2287-2292.	1.8	30
61	Genetic Activation, Inactivation, and Deletion Reveal a Limited And Nuanced Role for Somatostatin-Containing Basal Forebrain Neurons in Behavioral State Control. <i>Journal of Neuroscience</i> , 2018, 38, 5168-5181.	1.7	30
62	Enhancing endogenous adenosine A2A receptor signaling induces slow-wave sleep without affecting body temperature and cardiovascular function. <i>Neuropharmacology</i> , 2019, 144, 122-132.	2.0	30
63	Supramammillary nucleus synchronizes with dentate gyrus to regulate spatial memory retrieval through glutamate release. <i>ELife</i> , 2020, 9, .	2.8	30
64	Synthesis of Optically Active $\hat{\pm}$ -Hydroxy Acids by Kinetic Resolution Through Lipase-Catalyzed Enantioselective Acetylation. <i>European Journal of Organic Chemistry</i> , 1998, 1998, 2013-2018.	1.2	28
65	The neostriatum: two entities, one structure?. <i>Brain Structure and Function</i> , 2016, 221, 1737-1749.	1.2	28
66	Horseradish Peroxidase-Catalyzed Enantioselective Reduction of Racemic Hydroperoxy Homoallylic Alcohols: A Novel Enzymatic Method for the Preparation of Optically Active, Unsaturated Diols and Hydroperoxy Alcohols. <i>Journal of Organic Chemistry</i> , 1998, 63, 6123-6127.	1.7	26
67	Medial Parabrachial Nucleus Is Essential in Controlling Wakefulness in Rats. <i>Frontiers in Neuroscience</i> , 2021, 15, 645877.	1.4	26
68	$\hat{\pm}$ -Opioid receptor activation stimulates normal diet intake but conversely suppresses high-fat diet intake in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 306, R265-R272.	0.9	25
69	Adenosine A2A receptors in the olfactory bulb suppress rapid eye movement sleep in rodents. <i>Brain Structure and Function</i> , 2017, 222, 1351-1366.	1.2	23
70	Cerebral capillary blood flow upsurge during REM sleep is mediated by A2a receptors. <i>Cell Reports</i> , 2021, 36, 109558.	2.9	23
71	Structural and Mutational Analysis of <i>Trypanosoma brucei</i> Prostaglandin H2 Reductase Provides Insight into the Catalytic Mechanism of Aldo-ketoreductases. <i>Journal of Biological Chemistry</i> , 2005, 280, 26371-26382.	1.6	22
72	Activation of Parvalbumin Neurons in the Rostro-Dorsal Sector of the Thalamic Reticular Nucleus Promotes Sensitivity to Pain in Mice. <i>Neuroscience</i> , 2017, 366, 113-123.	1.1	21

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73	Species-specific expression of microsomal prostaglandin E synthase-1 and cyclooxygenases in male monkey reproductive organs. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2004, 71, 233-240.	1.0	20
74	DP1 Activation Reverses Age-Related Hypertension Via NEDD4L-Mediated T-Bet Degradation in T Cells. <i>Circulation</i> , 2020, 141, 655-666.	1.6	20
75	High cortical delta power correlates with aggravated allodynia by activating anterior cingulate cortex GABAergic neurons in neuropathic pain mice. <i>Pain</i> , 2020, 161, 288-299.	2.0	20
76	Niacin Promotes Cardiac Healing after Myocardial Infarction through Activation of the Myeloid Prostaglandin D ₂ Receptor Subtype 1. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017, 360, 435-444.	1.3	18
77	Activation of adenosine A2A receptors in the olfactory tubercle promotes sleep in rodents. <i>Neuropharmacology</i> , 2020, 168, 107923.	2.0	18
78	Prostaglandin production from arachidonic acid and evidence for a 9,11-endoperoxide prostaglandin H2 reductase in <i>Leishmania</i> . <i>International Journal for Parasitology</i> , 2002, 32, 1693-1700.	1.3	16
79	Zinc-containing yeast extract promotes nonrapid eye movement sleep in mice. <i>Molecular Nutrition and Food Research</i> , 2015, 59, 2087-2093.	1.5	15
80	Extracellular adenosine and slow-wave sleep are increased after ablation of nucleus accumbens core astrocytes and neurons in mice. <i>Neurochemistry International</i> , 2019, 124, 256-263.	1.9	15
81	Acute inhibition of a cortical motor area impairs vocal control in singing zebra finches. <i>European Journal of Neuroscience</i> , 2015, 41, 97-108.	1.2	14
82	L-PGDS-produced PGD2 in premature, but not in mature, adipocytes increases obesity and insulin resistance. <i>Scientific Reports</i> , 2019, 9, 1931.	1.6	14
83	Chemogenetic inhibition of the medial prefrontal cortex reverses the effects of REM sleep loss on sucrose consumption. <i>ELife</i> , 2016, 5, .	2.8	14
84	EP3 enhances adhesion and cytotoxicity of NK cells toward hepatic stellate cells in a murine liver fibrosis model. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	13
85	Allosteric Modulation of Adenosine A2A Receptors as a New Therapeutic Avenue. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2101.	1.8	12
86	Effect of context exposure after fear learning on memory generalization in mice. <i>Molecular Brain</i> , 2016, 9, 2.	1.3	11
87	How genetically engineered systems are helping to define, and in some cases redefine, the neurobiological basis of sleep and wake. <i>Temperature</i> , 2015, 2, 406-417.	1.7	10
88	Interleukin-1 β induces sleep independent of prostaglandin D2 in rats and mice. <i>Neuroscience</i> , 2017, 340, 258-267.	1.1	9
89	<sc>PGE₂</sc> axis promotes brown adipose tissue formation through stabilization of <sc>WTAP RNA</sc> methyltransferase. <i>EMBO Journal</i> , 2022, 41, .	3.5	9
90	Ablation of Ventral Midbrain/Pons GABA Neurons Induces Mania-like Behaviors with Altered Sleep Homeostasis and Dopamine D2R-mediated Sleep Reduction. <i>IScience</i> , 2020, 23, 101240.	1.9	8

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91	Prostaglandin D2 in the regulation of sleep. , 2013, , 73-83.		7
92	Mesencephalic dopamine neurons are essential for modafinil-induced arousal. British Journal of Pharmacology, 2021, 178, 4808-4825.	2.7	5
93	Adenosinergic Regulation of Sleep-Wake Behavior in the Basal Ganglia. Current Topics in Neurotoxicity, 2015, , 309-326.	0.4	4
94	Biotransformations with oxidases and peroxidases for the synthesis of optically active building blocks. International Congress Series, 2002, 1233, 45-49.	0.2	3
95	Erratum to "Prostaglandin production from arachidonic acid and evidence for a 9,11-endoperoxide prostaglandin H2 reductase in Leishmania" [Int. J. Parasitol. 32 (2002) 1693-1700]. International Journal for Parasitology, 2003, 33, 219.	1.3	3
96	Sleep architecture of adenosine A2A receptor-deficient mice. Sleep and Biological Rhythms, 2020, 18, 275-279.	0.5	3
97	Osamu Hayaishi from the discovery of oxygenases in soil microorganisms to unraveling the enigma of sleep in mammals. Temperature, 2015, 2, 303-307.	1.7	2
98	Adenosinergic Control of Sleep/Wake Behavior. Handbook of Behavioral Neuroscience, 2019, 30, 125-136.	0.7	1
99	The Differential Role of Prostaglandin E2 Receptors in the CNS Response to Systemic Immune Challenge. , 2007, , 319-336.		0
100	Adeno-associated viral (AAV) vectors carrying shRNA for the focal deletion of sleep-active adenosine A2A receptors. Neuroscience Research, 2009, 65, S57.	1.0	0
101	The role of extracellular adenosine in the basal ganglia for sleep-wake regulation. Neuroscience Research, 2010, 68, e8.	1.0	0
102	Genetic dissection of neural circuitry regulating behavioral state using conditional transgenics. Sleep and Biological Rhythms, 2011, 9, 78-83.	0.5	0
103	Predictors of pain in primary insomnia. Journal of Pain, 2012, 13, S58.	0.7	0
104	Neuroanatomy and transgenic technologies. Frontiers in Neuroanatomy, 2015, 8, 157.	0.9	0
105	Editorial: The Gating and Maintenance of Sleep and Wake: New Circuits and Insights. Frontiers in Neuroscience, 2020, 14, 773.	1.4	0
106	NREM-REM sleep regulation. , 2021, , .		0