

Marcos G Frank

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

4,541
citations

136885

32
h-index

143943

57
g-index

64
all docs

64
docs citations

64
times ranked

3807
citing authors

#	ARTICLE	IF	CITATIONS
1	Goodnight, astrocyte: waking up to astroglial mechanisms in sleep. <i>FEBS Journal</i> , 2023, 290, 2553-2564.	2.2	20
2	A chemical-genetic investigation of BDNF-NtrkB signaling in mammalian sleep. <i>Sleep</i> , 2022, 45, .	0.6	6
3	REM sleep promotes bidirectional plasticity in developing visual cortex in vivo. <i>Neurobiology of Sleep and Circadian Rhythms</i> , 2022, 12, 100076.	1.4	9
4	Noradrenergic Signaling in Astrocytes Influences Mammalian Sleep Homeostasis. <i>Clocks & Sleep</i> , 2022, 4, 332-345.	0.9	11
5	Challenging sleep homeostasis. <i>Neurobiology of Sleep and Circadian Rhythms</i> , 2021, 10, 100060.	1.4	7
6	Renormalizing synapses in sleep: The clock is ticking. <i>Biochemical Pharmacology</i> , 2021, 191, 114533.	2.0	9
7	A Role for Astroglial Calcium in Mammalian Sleep and Sleep Regulation. <i>Current Biology</i> , 2020, 30, 4373-4383.e7.	1.8	93
8	REM sleep promotes experience-dependent dendritic spine elimination in the mouse cortex. <i>Nature Communications</i> , 2020, 11, 4819.	5.8	72
9	The Ontogenesis of Mammalian Sleep: Form and Function. <i>Current Sleep Medicine Reports</i> , 2020, 6, 267-279.	0.7	18
10	Sleep, brain development, and autism spectrum disorders: Insights from animal models. <i>Journal of Neuroscience Research</i> , 2020, 98, 1137-1149.	1.3	41
11	Clocking in: a circadian model of synaptic plasticity. <i>Current Opinion in Physiology</i> , 2020, 15, 96-103.	0.9	4
12	Cyclic nature of the REM sleep-like state in the cuttlefish <i>Sepia officinalis</i> . <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	29
13	The Role of Glia in Sleep-Wake Regulation and Function. <i>Handbook of Behavioral Neuroscience</i> , 2019, , 195-204.	0.7	1
14	Sleep and Brain Plasticity. , 2019, , 107-124.		0
15	Primed to Sleep: The Dynamics of Synaptic Plasticity Across Brain States. <i>Frontiers in Systems Neuroscience</i> , 2019, 13, 2.	1.2	78
16	Shank3 modulates sleep and expression of circadian transcription factors. <i>ELife</i> , 2019, 8, .	2.8	62
17	The Role of Glia in Sleep Regulation and Function. <i>Handbook of Experimental Pharmacology</i> , 2018, 253, 83-96.	0.9	32
18	Sleep and plasticity: Waking from a fevered dream. <i>Sleep Medicine Reviews</i> , 2018, 39, 1-2.	3.8	5

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19	The Function(s) of Sleep. Handbook of Experimental Pharmacology, 2018, 253, 3-34.	0.9	52
20	Astrocyte expression of the Drosophila TNF-alpha homologue, Eiger, regulates sleep in flies. PLoS Genetics, 2018, 14, e1007724.	1.5	46
21	Anatomical correlates of rapid eye movement sleep-dependent plasticity in the developing cortex. Sleep, 2018, 41, .	0.6	16
22	Sleep and plasticity in the visual cortex: more than meets the eye. Current Opinion in Neurobiology, 2017, 44, 8-12.	2.0	33
23	Normal sleep requires the astrocyte brain-type fatty acid binding protein FABP7. Science Advances, 2017, 3, e1602663.	4.7	56
24	Development of Circadian Sleep Regulation in the Rat: A Longitudinal Study Under Constant Conditions. Sleep, 2017, 40, .	0.6	29
25	Circadian Regulation of Synaptic Plasticity. Biology, 2016, 5, 31.	1.3	27
26	Removal of unwanted variation reveals novel patterns of gene expression linked to sleep homeostasis in murine cortex. BMC Genomics, 2016, 17, 727.	1.2	41
27	Shining a light on astrocytes and sleep (Commentary on Pelluru <i>et al</i> .). European Journal of Neuroscience, 2016, 43, 1297-1297.	1.2	2
28	Sleep function: Toward elucidating an enigma. Sleep Medicine Reviews, 2016, 28, 46-54.	3.8	280
29	The truncated TrkB receptor influences mammalian sleep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R199-R207.	0.9	20
30	Rapid eye movement sleep promotes cortical plasticity in the developing brain. Science Advances, 2015, 1, e1500105.	4.7	121
31	Extracellular Signal-Regulated Kinase (ERK) Activity During Sleep Consolidates Cortical Plasticity In Vivo. Cerebral Cortex, 2015, 25, 507-515.	1.6	47
32	Sleep and Synaptic Plasticity in the Developing and Adult Brain. Current Topics in Behavioral Neurosciences, 2014, 25, 123-149.	0.8	55
33	Sleep, clocks, and synaptic plasticity. Trends in Neurosciences, 2014, 37, 491-501.	4.2	102
34	Sleep Promotes Cortical Response Potentiation Following Visual Experience. Sleep, 2014, 37, 1163-1170.	0.6	106
35	Astroglial regulation of sleep homeostasis. Current Opinion in Neurobiology, 2013, 23, 812-818.	2.0	64
36	Neuroigin-1 links neuronal activity to sleep-wake regulation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9974-9979.	3.3	76

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37	Visual experience and subsequent sleep induce sequential plastic changes in putative inhibitory and excitatory cortical neurons. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3101-3106.	3.3	94
38	Translation regulation in sleep. Communicative and Integrative Biology, 2012, 5, 491-495.	0.6	15
39	Protein Synthesis during Sleep Consolidates Cortical Plasticity In Vivo. Current Biology, 2012, 22, 676-682.	1.8	142
40	A Preliminary Analysis of Sleep-Like States in the Cuttlefish <i>Sepia officinalis</i> . PLoS ONE, 2012, 7, e38125.	1.1	47
41	Beyond the Neuron: Astroglial Regulation of Mammalian Sleep. Current Topics in Medicinal Chemistry, 2011, 11, 2452-2456.	1.0	10
42	Slow Wave Activity During Sleep: Functional and Therapeutic Implications. Neuroscientist, 2010, 16, 618-633.	2.6	56
43	Astrocytic Modulation of Sleep Homeostasis and Cognitive Consequences of Sleep Loss. Neuron, 2009, 61, 213-219.	3.8	746
44	Mechanisms of Sleep-Dependent Consolidation of Cortical Plasticity. Neuron, 2009, 61, 454-466.	3.8	218
45	A preliminary study of sleep ontogenesis in the ferret (<i>Mustela putorius furo</i>). Behavioural Brain Research, 2008, 189, 41-51.	1.2	27
46	The Non-Benzodiazepine Hypnotic Zolpidem Impairs Sleep-Dependent Cortical Plasticity. Sleep, 2008, , .	0.6	14
47	The non-benzodiazepine hypnotic zolpidem impairs sleep-dependent cortical plasticity. Sleep, 2008, 31, 1381-91.	0.6	43
48	Blockade of postsynaptic activity in sleep inhibits developmental plasticity in visual cortex. NeuroReport, 2006, 17, 1459-1463.	0.6	33
49	The Mystery of Sleep Function: Current Perspectives and Future Directions. Reviews in the Neurosciences, 2006, 17, 375-92.	1.4	114
50	The Role of Sleep in Memory Consolidation and Brain Plasticity: Dream or Reality?. Neuroscientist, 2006, 12, 477-488.	2.6	190
51	The Function of Sleep. , 2005, , 45-48.		2
52	Unresolved issues in sleep ontogeny: a response to Blumberg et al.. Journal of Sleep Research, 2005, 14, 98-101.	1.7	14
53	Sleep-Dependent Plasticity Requires Cortical Activity. Journal of Neuroscience, 2005, 25, 9266-9274.	1.7	95
54	The ontogeny of mammalian sleep: a reappraisal of alternative hypotheses. Journal of Sleep Research, 2003, 12, 25-34.	1.7	88

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55	Cellular and molecular connections between sleep and synaptic plasticity. <i>Progress in Neurobiology</i> , 2003, 69, 71-101.	2.8	247
56	Sleep and Sleep Homeostasis in Mice Lacking the 5-HT _{2c} Receptor. <i>Neuropsychopharmacology</i> , 2002, 27, 869-873.	2.8	90
57	Sleep Enhances Plasticity in the Developing Visual Cortex. <i>Neuron</i> , 2001, 30, 275-287.	3.8	474
58	Prenatal nicotine alters vigilance states and AchR gene expression in the neonatal rat: implications for SIDS. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 280, R1134-R1140.	0.9	48
59	Effects of sleep deprivation in neonatal rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998, 275, R148-R157.	0.9	52
60	The ontogeny and function(s) of REM sleep. , 0, , 49-57.		2
61	The function(s) of sleep. , 0, , 59-78.		10