

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	Astrocytic Modulation of Sleep Homeostasis and Cognitive Consequences of Sleep Loss. <i>Neuron</i> , 2009, 61, 213-219.	3.8	746
2	Sleep Enhances Plasticity in the Developing Visual Cortex. <i>Neuron</i> , 2001, 30, 275-287.	3.8	474
3	Sleep function: Toward elucidating an enigma. <i>Sleep Medicine Reviews</i> , 2016, 28, 46-54.	3.8	280
4	Cellular and molecular connections between sleep and synaptic plasticity. <i>Progress in Neurobiology</i> , 2003, 69, 71-101.	2.8	247
5	Mechanisms of Sleep-Dependent Consolidation of Cortical Plasticity. <i>Neuron</i> , 2009, 61, 454-466.	3.8	218
6	The Role of Sleep in Memory Consolidation and Brain Plasticity: Dream or Reality?. <i>Neuroscientist</i> , 2006, 12, 477-488.	2.6	190
7	Protein Synthesis during Sleep Consolidates Cortical Plasticity In Vivo. <i>Current Biology</i> , 2012, 22, 676-682.	1.8	142
8	Rapid eye movement sleep promotes cortical plasticity in the developing brain. <i>Science Advances</i> , 2015, 1, e1500105.	4.7	121
9	The Mystery of Sleep Function: Current Perspectives and Future Directions. <i>Reviews in the Neurosciences</i> , 2006, 17, 375-92.	1.4	114
10	Sleep Promotes Cortical Response Potentiation Following Visual Experience. <i>Sleep</i> , 2014, 37, 1163-1170.	0.6	106
11	Sleep, clocks, and synaptic plasticity. <i>Trends in Neurosciences</i> , 2014, 37, 491-501.	4.2	102
12	Sleep-Dependent Plasticity Requires Cortical Activity. <i>Journal of Neuroscience</i> , 2005, 25, 9266-9274.	1.7	95
13	Visual experience and subsequent sleep induce sequential plastic changes in putative inhibitory and excitatory cortical neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3101-3106.	3.3	94
14	A Role for Astroglial Calcium in Mammalian Sleep and Sleep Regulation. <i>Current Biology</i> , 2020, 30, 4373-4383.e7.	1.8	93
15	Sleep and Sleep Homeostasis in Mice Lacking the 5-HT _{2c} Receptor. <i>Neuropsychopharmacology</i> , 2002, 27, 869-873.	2.8	90
16	The ontogeny of mammalian sleep: a reappraisal of alternative hypotheses. <i>Journal of Sleep Research</i> , 2003, 12, 25-34.	1.7	88
17	Primed to Sleep: The Dynamics of Synaptic Plasticity Across Brain States. <i>Frontiers in Systems Neuroscience</i> , 2019, 13, 2.	1.2	78
18	Neuroigin-1 links neuronal activity to sleep-wake regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9974-9979.	3.3	76

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19	REM sleep promotes experience-dependent dendritic spine elimination in the mouse cortex. <i>Nature Communications</i> , 2020, 11, 4819.	5.8	72
20	Astroglial regulation of sleep homeostasis. <i>Current Opinion in Neurobiology</i> , 2013, 23, 812-818.	2.0	64
21	Shank3 modulates sleep and expression of circadian transcription factors. <i>ELife</i> , 2019, 8, .	2.8	62
22	Slow Wave Activity During Sleep: Functional and Therapeutic Implications. <i>Neuroscientist</i> , 2010, 16, 618-633.	2.6	56
23	Normal sleep requires the astrocyte brain-type fatty acid binding protein FABP7. <i>Science Advances</i> , 2017, 3, e1602663.	4.7	56
24	Sleep and Synaptic Plasticity in the Developing and Adult Brain. <i>Current Topics in Behavioral Neurosciences</i> , 2014, 25, 123-149.	0.8	55
25	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
26	The Function(s) of Sleep. <i>Handbook of Experimental Pharmacology</i> , 2018, 253, 3-34.	0.9	52
27	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
28	Extracellular Signal-Regulated Kinase (ERK) Activity During Sleep Consolidates Cortical Plasticity In Vivo. <i>Cerebral Cortex</i> , 2015, 25, 507-515.	1.6	47
29	A Preliminary Analysis of Sleep-Like States in the Cuttlefish <i>Sepia officinalis</i> . <i>PLoS ONE</i> , 2012, 7, e38125.	1.1	47
30	Astrocyte expression of the <i>Drosophila</i> TNF-alpha homologue, Eiger, regulates sleep in flies. <i>PLoS Genetics</i> , 2018, 14, e1007724.	1.5	46
31	The non-benzodiazepine hypnotic zolpidem impairs sleep-dependent cortical plasticity. <i>Sleep</i> , 2008, 31, 1381-91.	0.6	43
32	Removal of unwanted variation reveals novel patterns of gene expression linked to sleep homeostasis in murine cortex. <i>BMC Genomics</i> , 2016, 17, 727.	1.2	41
33	Sleep, brain development, and autism spectrum disorders: Insights from animal models. <i>Journal of Neuroscience Research</i> , 2020, 98, 1137-1149.	1.3	41
34	Blockade of postsynaptic activity in sleep inhibits developmental plasticity in visual cortex. <i>NeuroReport</i> , 2006, 17, 1459-1463.	0.6	33
35	Sleep and plasticity in the visual cortex: more than meets the eye. <i>Current Opinion in Neurobiology</i> , 2017, 44, 8-12.	2.0	33
36	The Role of Glia in Sleep Regulation and Function. <i>Handbook of Experimental Pharmacology</i> , 2018, 253, 83-96.	0.9	32

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37	Development of Circadian Sleep Regulation in the Rat: A Longitudinal Study Under Constant Conditions. <i>Sleep</i> , 2017, 40, .	0.6	29
38	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
39	A preliminary study of sleep ontogenesis in the ferret (<i>Mustela putorius furo</i>). <i>Behavioural Brain Research</i> , 2008, 189, 41-51.	1.2	27
40	Circadian Regulation of Synaptic Plasticity. <i>Biology</i> , 2016, 5, 31.	1.3	27
41	The truncated TrkB receptor influences mammalian sleep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R199-R207.	0.9	20
42	Goodnight, astrocyte: waking up to astroglial mechanisms in sleep. <i>FEBS Journal</i> , 2023, 290, 2553-2564.	2.2	20
43	The Ontogenesis of Mammalian Sleep: Form and Function. <i>Current Sleep Medicine Reports</i> , 2020, 6, 267-279.	0.7	18
44	Anatomical correlates of rapid eye movement sleep-dependent plasticity in the developing cortex. <i>Sleep</i> , 2018, 41, .	0.6	16
45	Translation regulation in sleep. <i>Communicative and Integrative Biology</i> , 2012, 5, 491-495.	0.6	15
46	Unresolved issues in sleep ontogeny: a response to Blumberg et al.. <i>Journal of Sleep Research</i> , 2005, 14, 98-101.	1.7	14
47	The Non-Benzodiazepine Hypnotic Zolpidem Impairs Sleep-Dependent Cortical Plasticity. <i>Sleep</i> , 2008, , .	0.6	14
48	Noradrenergic Signaling in Astrocytes Influences Mammalian Sleep Homeostasis. <i>Clocks & Sleep</i> , 2022, 4, 332-345.	0.9	11
49	Beyond the Neuron: Astroglial Regulation of Mammalian Sleep. <i>Current Topics in Medicinal Chemistry</i> , 2011, 11, 2452-2456.	1.0	10
50	The function(s) of sleep. , 0, , 59-78.		10
51	Renormalizing synapses in sleep: The clock is ticking. <i>Biochemical Pharmacology</i> , 2021, 191, 114533.	2.0	9
52	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
53	Challenging sleep homeostasis. <i>Neurobiology of Sleep and Circadian Rhythms</i> , 2021, 10, 100060.	1.4	7
54	A chemical-genetic investigation of BDNF-NtrkB signaling in mammalian sleep. <i>Sleep</i> , 2022, 45, .	0.6	6

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55	Sleep and plasticity: Waking from a fevered dream. <i>Sleep Medicine Reviews</i> , 2018, 39, 1-2.	3.8	5
56	Clocking in: a circadian model of synaptic plasticity. <i>Current Opinion in Physiology</i> , 2020, 15, 96-103.	0.9	4
57	The Function of Sleep. , 2005, , 45-48.		2
58	The ontogeny and function(s) of REM sleep. , 0, , 49-57.		2
59	Shining a light on astrocytes and sleep (Commentary on Pelluru <i>et al</i>). <i>European Journal of Neuroscience</i> , 2016, 43, 1297-1297.	1.2	2
60	The Role of Glia in Sleep-Wake Regulation and Function. <i>Handbook of Behavioral Neuroscience</i> , 2019, , 195-204.	0.7	1
61	Sleep and Brain Plasticity. , 2019, , 107-124.		0