Stuart M Fogel

List of Publications by Year
in descending order

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62 papers	3,488 citations	218381 26 h-index	149479 56 g-index
69 all docs	69 docs citations	69 times ranked	2777 citing authors

#	Article	IF	Citations
1	The function of the sleep spindle: A physiological index of intelligence and a mechanism for sleep-dependent memory consolidation. Neuroscience and Biobehavioral Reviews, 2011, 35, 1154-1165.	2.9	514
2	Learning-dependent changes in sleep spindles and Stage 2 sleep. Journal of Sleep Research, 2006, 15, 250-255.	1.7	308
3	Dissociable learning-dependent changes in REM and non-REM sleep in declarative and procedural memory systems. Behavioural Brain Research, 2007, 180, 48-61.	1.2	203
4	Sleep spindles and learning potential.. Behavioral Neuroscience, 2007, 121, 1-10.	0.6	166
5	Neural correlates of the age-related changes in motor sequence learning and motor adaptation in older adults. Frontiers in Human Neuroscience, 2013, 7, 142.	1.0	156
6	Maintaining vs. enhancing motor sequence memories: Respective roles of striatal and hippocampal systems. NeuroImage, 2015, 108, 423-434.	2.1	131
7	fMRI and sleep correlates of the ageâ€related impairment in motor memory consolidation. Human Brain Mapping, 2014, 35, 3625-3645.	1.9	127
8	Preserved spatial memory after hippocampal lesions: effects of extensive experience in a complex environment. Nature Neuroscience, 2005, 8, 273-275.	7.1	114
9	Daytime Sleep Enhances Consolidation of the Spatial but Not Motoric Representation of Motor Sequence Memory. PLoS ONE, 2013, 8, e52805.	1.1	111
10	NREM Sleep Oscillations and Brain Plasticity in Aging. Frontiers in Neurology, 2012, 3, 176.	1.1	105
11	Habitual napping moderates motor performance improvements following a short daytime nap. Biological Psychology, 2006, 73, 141-156.	1.1	91
12	Changes in context-specificity during memory reconsolidation: Selective effects of hippocampal lesions. Learning and Memory, 2009, 16, 722-729.	0.5	90
13	NREM2 and Sleep Spindles Are Instrumental to the Consolidation of Motor Sequence Memories. PLoS Biology, 2016, 14, e1002429.	2.6	89
14	Sleep spindles predict neural and behavioral changes in motor sequence consolidation. Human Brain Mapping, 2013, 34, 2918-2928.	1.9	88
15	Sleep spindles: a physiological marker of age-related changes in gray matter in brain regions supporting motor skill memory consolidation. Neurobiology of Aging, 2017, 49, 154-164.	1.5	88
16	Transient synchronization of hippocampo-striato-thalamo-cortical networks during sleep spindle oscillations induces motor memory consolidation. NeuroImage, 2018, 169, 419-430.	2.1	82
17	Reactivation or transformation? Motor memory consolidation associated with cerebral activation time-locked to sleep spindles. PLoS ONE, 2017, 12, e0174755.	1.1	79
18	Evidence for 2-stage models of sleep and memory: Learning-dependent changes in spindles and theta in rats. Brain Research Bulletin, 2009, 79, 445-451.	1.4	65

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19	Are intrinsic neural timescales related to sensory processing? Evidence from abnormal behavioral states. NeuroImage, 2021, 226, 117579.	2.1	60
20	Network-wide reorganization of procedural memory during NREM sleep revealed by fMRI. ELife, 2017, 6, .	2.8	57
21	Validating an automated sleep spindle detection algorithm using an individualized approach. Journal of Sleep Research, 2010, 19, 374-378.	1.7	52
22	Expert and crowd-sourced validation of an individualized sleep spindle detection method employing complex demodulation and individualized normalization. Frontiers in Human Neuroscience, 2015, 9, 507.	1.0	46
23	How to become an expert: A new perspective on the role of sleep in the mastery of procedural skills. Neurobiology of Learning and Memory, 2015, 125, 236-248.	1.0	45
24	Altered Global Brain Signal during Physiologic, Pharmacologic, and Pathologic States of Unconsciousness in Humans and Rats. Anesthesiology, 2020, 132, 1392-1406.	1.3	45
25	Sleep Spindles and Intellectual Ability: Epiphenomenon or Directly Related?. Journal of Cognitive Neuroscience, 2017, 29, 167-182.	1.1	41
26	Cerebral Activation During Initial Motor Learning Forecasts Subsequent Sleep-Facilitated Memory Consolidation in Older Adults. Cerebral Cortex, 2017, 27, bhv347.	1.6	40
27	Brain Activation Time-Locked to Sleep Spindles Associated With Human Cognitive Abilities. Frontiers in Neuroscience, 2019, 13, 46.	1.4	31
28	Beyond spindles: interactions between sleep spindles and boundary frequencies during cued reactivation of motor memory representations. Sleep, 2018, 41, .	0.6	29
29	Age Differences in the Variability and Distribution of Sleep Spindle and Rapid Eye Movement Densities. PLoS ONE, 2014, 9, e91047.	1.1	29
30	Thalamo-Cortical White Matter Underlies Motor Memory Consolidation via Modulation of Sleep Spindles in Young and Older Adults. Neuroscience, 2019, 402, 104-115.	1.1	24
31	Sleep, Orexin and Cognition. Frontiers of Neurology and Neuroscience, 2021, 45, 38-51.	3.0	23
32	Higher-order sensorimotor circuit of the brain's global network supports human consciousness. NeuroImage, 2021, 231, 117850.	2.1	23
33	A Novel Approach to Dream Content Analysis Reveals Links Between Learning-Related Dream Incorporation and Cognitive Abilities. Frontiers in Psychology, 2018, 9, 1398.	1.1	21
34	Age-related white-matter correlates of motor sequence learning and consolidation. Neurobiology of Aging, 2016, 48, 13-22.	1.5	20
35	Re-stepping into the same river: competition problem rather than a reconsolidation failure in an established motor skill. Scientific Reports, 2017, 7, 9406.	1.6	20
36	Sustained vigilance is negatively affected by mild and acute sleep loss reflected by reduced capacity for decision making, motor preparation, and execution. Sleep, 2019, 42, .	0.6	18

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37	Sleep Spindle-dependent Functional Connectivity Correlates with Cognitive Abilities. Journal of Cognitive Neuroscience, 2020, 32, 446-466.	1.1	18
38	Differential Effects of a Nap on Motor Sequence Learning-Related Functional Connectivity Between Young and Older Adults. Frontiers in Aging Neuroscience, 2021, 13, 747358.	1.7	18
39	Asymmetrical Effect of Levodopa on the Neural Activity of Motor Regions in PD. PLoS ONE, 2014, 9, e111600.	1.1	17
40	Using heart rate profiles during sleep as a biomarker of depression. BMC Psychiatry, 2019, 19, 168.	1.1	17
41	Functional connectivity dynamics slow with descent from wakefulness to sleep. PLoS ONE, 2019, 14, e0224669.	1.1	16
42	Increased GABAergic activity in the region of the pedunculopontine and deep mesencephalic reticular nuclei reduces REM sleep and impairs learning in rats.. Behavioral Neuroscience, 2010, 124, 79-86.	0.6	14
43	Toward a complete taxonomy of resting state networks across wakefulness and sleep: an assessment of spatially distinct resting state networks using independent component analysis. Sleep, 2019, 42, .	0.6	14
44	Neuroimaging of Narcolepsy and Primary Hypersomnias. Neuroscientist, 2020, 26, 310-327.	2.6	13
45	Too much of a good thing? Elevated baseline sleep spindles predict poor avoidance performance in rats. Brain Research, 2010, 1319, 112-117.	1.1	12
46	Different types of avoidance behavior in rats produce dissociable post-training changes in sleep. Physiology and Behavior, 2011, 102, 170-174.	1.0	12
47	Anterior precuneus related to the recovery of consciousness. NeuroImage: Clinical, 2022, 33, 102951.	1.4	12
48	Does sleep facilitate the consolidation of allocentric or egocentric representations of implicitly learned visual-motor sequence learning?. Learning and Memory, 2018, 25, 67-77.	0.5	11
49	Reversed and increased functional connectivity in non-REM sleep suggests an altered rather than reduced state of consciousness relative to wake. Scientific Reports, 2021, 11, 11943.	1.6	10
50	24-h polysomnographic recordings and electrophysiological spectral analyses from a cohort of patients with chronic disorders of consciousness. Journal of Neurology, 2020, 267, 3650-3663.	1.8	9
51	Memory Processing in Relation to Sleep. , 2017, , 229-238.e6.		8
52	Sleep-dependent motor sequence memory consolidation in individuals with periodic limb movements. Sleep Medicine, 2017, 40, 23-32.	0.8	7
53	Susceptibility of consolidated procedural memory to interference is independent of its active task-based retrieval. PLoS ONE, 2019, 14, e0210876.	1.1	7
54	The relationship between cognitive ability and BOLD activation across sleepâ€“wake states. Brain Imaging and Behavior, 2022, 16, 305-315.	1.1	6

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55	While you were sleeping: Evidence for high-level executive processing of an auditory narrative during sleep. Consciousness and Cognition, 2022, 100, 103306.	0.8	6
56	Sleep and individual differences in intellectual abilities. Current Opinion in Behavioral Sciences, 2020, 33, 126-131.	2.0	4
57	Spectral and temporal characterization of sleep spindlesâ€"methodological implications. Journal of Neural Engineering, 2021, 18, 036014.	1.8	4
58	Sleep and Second-Language Acquisition Revisited: The Role of Sleep Spindles and Rapid Eye Movements. Nature and Science of Sleep, 2021, Volume 13, 1887-1902.	1.4	3
59	Increased spindle density correlates with sleep continuity improvements following an eightâ€week course of a melatonin agonist in people with depression: A proofâ€ofâ€concept study with agomelatine. European Journal of Neuroscience, 2021, 54, 5112-5119.	1.2	2
60	Age-related differences in problem-solving skills: Reduced benefit of sleep for memory trace consolidation. Neurobiology of Aging, 2022, 116, 55-66.	1.5	2
61	Sleep Oscillations and Aging. , 2020, , 223-247.		1
62	Aging and Cognition. , 2022, , 17-25.		0