

List of Publications by Year in descending order

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102
papers

9,909
citations

81900

39
h-index

42399

92
g-index

108
all docs

108
docs citations

108
times ranked

7479
citing authors

#	ARTICLE	IF	CITATIONS
1	About Sleep's Role in Memory. <i>Physiological Reviews</i> , 2013, 93, 681-766.	28.8	2,026
2	Odor Cues During Slow-Wave Sleep Prompt Declarative Memory Consolidation. <i>Science</i> , 2007, 315, 1426-1429.	12.6	1,814
3	Sleep to Remember. <i>Neuroscientist</i> , 2006, 12, 410-424.	3.5	469
4	Returning the tables: language affects spatial reasoning. <i>Cognition</i> , 2002, 84, 155-188.	2.2	403
5	Labile or stable: opposing consequences for memory when reactivated during waking and sleep. <i>Nature Neuroscience</i> , 2011, 14, 381-386.	14.8	297
6	Frontal theta activity reflects distinct aspects of mental fatigue. <i>Biological Psychology</i> , 2014, 96, 57-65.	2.2	289
7	Brief Sleep After Learning Keeps Emotional Memories Alive for Years. <i>Biological Psychiatry</i> , 2006, 60, 788-790.	1.3	276
8	Pharmacological REM sleep suppression paradoxically improves rather than impairs skill memory. <i>Nature Neuroscience</i> , 2009, 12, 396-397.	14.8	218
9	Maintaining memories by reactivation. <i>Current Opinion in Neurobiology</i> , 2007, 17, 698-703.	4.2	195
10	Differential Effects of Non-REM and REM Sleep on Memory Consolidation?. <i>Current Neurology and Neuroscience Reports</i> , 2014, 14, 430.	4.2	169
11	A genetic variation of the noradrenergic system is related to differential amygdala activation during encoding of emotional memories. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19191-19196.	7.1	163
12	Perspective-taking vs. mental rotation transformations and how they predict spatial navigation performance. <i>Applied Cognitive Psychology</i> , 2006, 20, 397-417.	1.6	160
13	Precise Slow Oscillationâ€“Spindle Coupling Promotes Memory Consolidation in Younger and Older Adults. <i>Scientific Reports</i> , 2019, 9, 1940.	3.3	151
14	Boosting Vocabulary Learning by Verbal Cueing During Sleep. <i>Cerebral Cortex</i> , 2015, 25, 4169-4179.	2.9	149
15	Offline consolidation of memory varies with time in slow wave sleep and can be accelerated by cuing memory reactivations. <i>Neurobiology of Learning and Memory</i> , 2012, 98, 103-111.	1.9	137
16	The sleeping child outplays the adult's capacity to convert implicit into explicit knowledge. <i>Nature Neuroscience</i> , 2013, 16, 391-393.	14.8	136
17	Auditory feedback blocks memory benefits of cueing during sleep. <i>Nature Communications</i> , 2015, 6, 8729.	12.8	128
18	Combined Blockade of Cholinergic Receptors Shifts the Brain from Stimulus Encoding to Memory Consolidation. <i>Journal of Cognitive Neuroscience</i> , 2006, 18, 793-802.	2.3	119

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19	Sleep enhances exposure therapy. <i>Psychological Medicine</i> , 2014, 44, 1511-1519.	4.5	114
20	Quantification of Phase-Amplitude Coupling in Neuronal Oscillations: Comparison of Phase-Locking Value, Mean Vector Length, Modulation Index, and Generalized-Linear-Modeling-Cross-Frequency-Coupling. <i>Frontiers in Neuroscience</i> , 2019, 13, 573.	2.8	102
21	The Memory Function of Noradrenergic Activity in Non-REM Sleep. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 2582-2592.	2.3	90
22	Reactivating Memories during Sleep by Odors: Odor Specificity and Associated Changes in Sleep Oscillations. <i>Journal of Cognitive Neuroscience</i> , 2014, 26, 1806-1818.	2.3	89
23	Effects of Sleep after Experimental Trauma on Intrusive Emotional Memories. <i>Sleep</i> , 2016, 39, 2125-2132.	1.1	87
24	Theta Phase-Coordinated Memory Reactivation Reoccurs in a Slow-Oscillatory Rhythm during NREM Sleep. <i>Cell Reports</i> , 2018, 25, 296-301.	6.4	83
25	Emotional arousal modulates oscillatory correlates of targeted memory reactivation during NREM, but not REM sleep. <i>Scientific Reports</i> , 2016, 6, 39229.	3.3	79
26	Sleep deprivation increases dorsal nexus connectivity to the dorsolateral prefrontal cortex in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19597-19602.	7.1	75
27	A 3-day estrogen treatment improves prefrontal cortex-dependent cognitive function in postmenopausal women. <i>Psychoneuroendocrinology</i> , 2006, 31, 965-975.	2.7	72
28	No Associations between Interindividual Differences in Sleep Parameters and Episodic Memory Consolidation. <i>Sleep</i> , 2015, 38, 951-9.	1.1	69
29	Deepening Sleep by Hypnotic Suggestion. <i>Sleep</i> , 2014, 37, 1143-1152.	1.1	65
30	PKC δ is genetically linked to memory capacity in healthy subjects and to risk for posttraumatic stress disorder in genocide survivors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8746-8751.	7.1	61
31	Euglycemic Infusion of Insulin Detemir Compared With Human Insulin Appears to Increase Direct Current Brain Potential Response and Reduces Food Intake While Inducing Similar Systemic Effects. <i>Diabetes</i> , 2010, 59, 1101-1107.	0.6	58
32	Suppressing Emotions Impairs Subsequent Stroop Performance and Reduces Prefrontal Brain Activation. <i>PLoS ONE</i> , 2013, 8, e60385.	2.5	58
33	Increased neuronal signatures of targeted memory reactivation during slow-wave up states. <i>Scientific Reports</i> , 2019, 9, 2715.	3.3	57
34	Sleep-stage-specific regulation of plasma catecholamine concentration. <i>Psychoneuroendocrinology</i> , 2007, 32, 884-891.	2.7	56
35	Aversive stimuli lead to differential amygdala activation and connectivity patterns depending on catechol-O-methyltransferase Val158Met genotype. <i>NeuroImage</i> , 2010, 52, 1712-1719.	4.2	52
36	The beneficial role of memory reactivation for language learning during sleep: A review. <i>Brain and Language</i> , 2017, 167, 94-105.	1.6	52

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37	How robust are sleep-mediated memory benefits?. <i>Current Opinion in Neurobiology</i> , 2021, 67, 1-7.	4.2	50
38	Impaired Off-Line Consolidation of Motor Memories After Combined Blockade of Cholinergic Receptors During REM Sleep-Rich Sleep. <i>Neuropsychopharmacology</i> , 2009, 34, 1843-1853.	5.4	48
39	Imaging genetics of cognitive functions: Focus on episodic memory. <i>NeuroImage</i> , 2010, 53, 870-877.	4.2	47
40	Effects of Relaxing Music on Healthy Sleep. <i>Scientific Reports</i> , 2019, 9, 9079.	3.3	46
41	Improving sleep and cognition by hypnotic suggestion in the elderly. <i>Neuropsychologia</i> , 2015, 69, 176-182.	1.6	44
42	Prior knowledge is essential for the beneficial effect of targeted memory reactivation during sleep. <i>Scientific Reports</i> , 2017, 7, 39763.	3.3	42
43	Visual Procedural Memory Consolidation during Sleep Blocked by Glutamatergic Receptor Antagonists. <i>Journal of Neuroscience</i> , 2008, 28, 5513-5518.	3.6	41
44	Replay of conditioned stimuli during late REM and stage N2 sleep influences affective tone rather than emotional memory strength. <i>Neurobiology of Learning and Memory</i> , 2015, 122, 142-151.	1.9	39
45	Testosterone levels in healthy men are related to amygdala reactivity and memory performance. <i>Psychoneuroendocrinology</i> , 2012, 37, 1417-1424.	2.7	38
46	Lunar cycle effects on sleep and the file drawer problem. <i>Current Biology</i> , 2014, 24, R549-R550.	3.9	35
47	Modulating influences of memory strength and sensitivity of the retrieval test on the detectability of the sleep consolidation effect. <i>Neurobiology of Learning and Memory</i> , 2017, 145, 181-189.	1.9	35
48	Cueing vocabulary during sleep increases theta activity during later recognition testing. <i>Psychophysiology</i> , 2015, 52, 1538-1543.	2.4	33
49	Reactivation and Consolidation of Memory During Sleep. <i>Current Directions in Psychological Science</i> , 2008, 17, 188-192.	5.3	31
50	A genome-wide survey and functional brain imaging study identify CTNBL1 as a memory-related gene. <i>Molecular Psychiatry</i> , 2013, 18, 255-263.	7.9	31
51	No effect of odor-induced memory reactivation during REM sleep on declarative memory stability. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 157.	2.5	31
52	Targeted Reactivation during Sleep Differentially Affects Negative Memories in Socially Anxious and Healthy Children and Adolescents. <i>Journal of Neuroscience</i> , 2017, 37, 2425-2434.	3.6	31
53	Odor cueing during slow-wave sleep benefits memory independently of low cholinergic tone. <i>Psychopharmacology</i> , 2018, 235, 291-299.	3.1	29
54	Episodic memory consolidation during sleep in healthy aging. <i>Sleep Medicine Reviews</i> , 2020, 52, 101304.	8.5	28

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55	Motivational incentives lead to a strong increase in lateral prefrontal activity after self-control exertion. <i>Social Cognitive and Affective Neuroscience</i> , 2016, 11, 1618-1626.	3.0	27
56	Effects of targeted memory reactivation during sleep at home depend on sleep disturbances and habituation. <i>Npj Science of Learning</i> , 2019, 4, 5.	2.8	26
57	Memory quality modulates the effect of aging on memory consolidation during sleep: Reduced maintenance but intact gain. <i>NeuroImage</i> , 2020, 209, 116490.	4.2	25
58	Associations between Basal Cortisol Levels and Memory Retrieval in Healthy Young Individuals. <i>Journal of Cognitive Neuroscience</i> , 2013, 25, 1896-1907.	2.3	24
59	Increasing Explicit Sequence Knowledge by Odor Cueing during Sleep in Men but not Women. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 74.	2.0	24
60	Memory cueing during sleep modifies the interpretation of ambiguous scenes in adolescents and adults. <i>Developmental Cognitive Neuroscience</i> , 2016, 17, 10-18.	4.0	24
61	HYPNOTIC SUGGESTIONS GIVEN BEFORE NIGHTTIME SLEEP EXTEND SLOW-WAVE SLEEP AS COMPARED TO A CONTROL TEXT IN HIGHLY HYPNOTIZABLE SUBJECTS. <i>International Journal of Clinical and Experimental Hypnosis</i> , 2020, 68, 105-129.	1.8	24
62	Sleep's role in the reconsolidation of declarative memories. <i>Neurobiology of Learning and Memory</i> , 2016, 136, 166-173.	1.9	23
63	Emotion suppression reduces hippocampal activity during successful memory encoding. <i>NeuroImage</i> , 2012, 63, 525-532.	4.2	22
64	The effect of dream report collection and dream incorporation on memory consolidation during sleep. <i>Journal of Sleep Research</i> , 2019, 28, e12754.	3.2	21
65	The BclI polymorphism of the glucocorticoid receptor gene is associated with emotional memory performance in healthy individuals. <i>Psychoneuroendocrinology</i> , 2013, 38, 1203-1207.	2.7	19
66	BAIAP2 Is Related to Emotional Modulation of Human Memory Strength. <i>PLoS ONE</i> , 2014, 9, e83707.	2.5	19
67	Re-presentation of Olfactory Exposure Therapy Success Cues during Non-Rapid Eye Movement Sleep did not Increase Therapy Outcome but Increased Sleep Spindles. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 340.	2.0	18
68	Gamma band directional interactions between basal forebrain and visual cortex during wake and sleep states. <i>Journal of Physiology (Paris)</i> , 2016, 110, 19-28.	2.1	18
69	Sleep benefits emotional and neutral associative memories equally. <i>Somnologie</i> , 2016, 20, 47-53.	1.5	18
70	Psychosocial Stress Before a Nap Increases Sleep Latency and Decreases Early Slow-Wave Activity. <i>Frontiers in Psychology</i> , 2019, 10, 20.	2.1	18
71	Neural correlates of experimental trauma memory retrieval. <i>Human Brain Mapping</i> , 2017, 38, 3592-3602.	3.6	17
72	Work first then play: Prior task difficulty increases motivation-related brain responses in a risk game. <i>Biological Psychology</i> , 2017, 126, 82-88.	2.2	17

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73	No effect of vocabulary reactivation in older adults. <i>Neuropsychologia</i> , 2018, 119, 253-261.	1.6	17
74	Reactivation of interference during sleep does not impair ongoing memory consolidation. <i>Memory</i> , 2018, 26, 377-384.	1.7	16
75	Exposure to relaxing words during sleep promotes slow-wave sleep and subjective sleep quality. <i>Sleep</i> , 2021, 44, .	1.1	16
76	In search of a role of REM sleep in memory formation. <i>Neurobiology of Learning and Memory</i> , 2015, 122, 1-3.	1.9	15
77	No Evidence for Memory Decontextualization across One Night of Sleep. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 7.	2.0	15
78	To gain or not to gain – The complex role of sleep for memory. <i>Cortex</i> , 2018, 101, 282-287.	2.4	15
79	No evidence for intra-individual correlations between sleep-mediated declarative memory consolidation and slow-wave sleep. <i>Sleep</i> , 2021, 44, .	1.1	14
80	Structural brain differences predict early traumatic memory processing. <i>Psychophysiology</i> , 2020, 57, e13354.	2.4	12
81	Domain-specific learning of grammatical structure in musical and phonological sequences. <i>Memory and Cognition</i> , 2009, 37, 10-20.	1.6	11
82	Respiratory and cardiac monitoring at night using a wrist wearable optical system. , 2018, 2018, 2861-2864.		11
83	Neural substrates of similarity and rule-based strategies in judgment. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 809.	2.0	10
84	No effect of targeted memory reactivation during sleep on retention of vocabulary in adolescents. <i>Scientific Reports</i> , 2020, 10, 4255.	3.3	10
85	Aspects of tree shrew consolidated sleep structure resemble human sleep. <i>Communications Biology</i> , 2021, 4, 722.	4.4	10
86	Stress dynamically reduces sleep depth: temporal proximity to the stressor is crucial. <i>Cerebral Cortex</i> , 2022, 33, 96-113.	2.9	8
87	Statistical Epistasis and Functional Brain Imaging Support a Role of Voltage-Gated Potassium Channels in Human Memory. <i>PLoS ONE</i> , 2011, 6, e29337.	2.5	6
88	Sleep and language learning. <i>Brain and Language</i> , 2017, 167, 1-2.	1.6	6
89	Inducing lucid dreams by olfactory-cued reactivation of reality testing during early-morning sleep: A proof of concept. <i>Consciousness and Cognition</i> , 2020, 83, 102975.	1.5	6
90	Systematic decrease of slow-wave sleep after a guided imagery designed to deepen sleep in low hypnotizable subjects. <i>Journal of Sleep Research</i> , 2021, 30, e13168.	3.2	6

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91	<p>Healthy Sleepers Can Worsen Their Sleep by Wanting to Do so: The Effects of Intention on Objective and Subjective Sleep Parameters</p>. Nature and Science of Sleep, 2020, Volume 12, 981-997.	2.7	5
92	Hypnotic Suggestions Increase Slow-Wave Parameters but Decrease Slow-Wave Spindle Coupling. Nature and Science of Sleep, 2021, Volume 13, 1383-1393.	2.7	4
93	PreproTRH(158â€“183) fails to affect pituitary-adrenal response to CRH/vasopressin in man: A pilot study. Neuropeptides, 2007, 41, 233-238.	2.2	2
94	Letâ€™s replay. ELife, 2018, 7, .	6.0	2
95	The role of cliffhangers in serial entertainment: An experiment on cliffhangersâ€™ effects on enjoyment, arousal, and intention to continue watching.. Psychology of Popular Media, 2023, 12, 186-196.	1.4	2
96	The neural correlates of the fear-reducing effects of glucocorticoids in phobia. Psychoneuroendocrinology, 2015, 61, 46-47.	2.7	1
97	Embodiment of sleepâ€“related words: Evidence from eventâ€“related potentials. Psychophysiology, 2021, 58, e13824.	2.4	1
98	No Elevated Plasma Catecholamine Levels during Sleep in Newly Diagnosed, Untreated Hypertensives. PLoS ONE, 2011, 6, e21292.	2.5	1
99	Letter to the Editor: Simply avoiding reactivating fear memory after exposure therapy may help to consolidate fear extinction memory â€“ a reply. Psychological Medicine, 2015, 45, 887-888.	4.5	0
100	Reinforcing Language Learning During Sleep. Studies in Neuroscience, Psychology and Behavioral Economics, 2017, , 347-366.	0.3	0
101	Sleep and Plasticity: Do We Consolidate Memories Separately in Each Hemisphere?. Current Biology, 2020, 30, R349-R351.	3.9	0
102	Context Effects in Memory for Routes. Lecture Notes in Computer Science, 2003, , 209-231.	1.3	0