

# Matthew P Walker

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6147109/publications.pdf>

Version: 2024-02-01

44  
papers

6,832  
citations

147566

31  
h-index

276539

41  
g-index

51  
all docs

51  
docs citations

51  
times ranked

7444  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overnight therapy? The role of sleep in emotional brain processing.. Psychological Bulletin, 2009, 135, 731-748.	5.5	786
2	The sleep-deprived human brain. Nature Reviews Neuroscience, 2017, 18, 404-418.	4.9	701
3	Sleep and Human Aging. Neuron, 2017, 94, 19-36.	3.8	694
4	The Role of Sleep in Cognition and Emotion. Annals of the New York Academy of Sciences, 2009, 1156, 168-197.	1.8	669
5	$\beta$ -amyloid disrupts human NREM slow waves and related hippocampus-dependent memory consolidation. Nature Neuroscience, 2015, 18, 1051-1057.	7.1	411
6	Old Brains Come Uncoupled in Sleep: Slow Wave-Spindle Synchrony, Brain Atrophy, and Forgetting. Neuron, 2018, 97, 221-230.e4.	3.8	343
7	Sleep: A Novel Mechanistic Pathway, Biomarker, and Treatment Target in the Pathology of Alzheimer's Disease?. Trends in Neurosciences, 2016, 39, 552-566.	4.2	320
8	The impact of sleep deprivation on food desire in the human brain. Nature Communications, 2013, 4, 2259.	5.8	248
9	Cognitive consequences of sleep and sleep loss. Sleep Medicine, 2008, 9, S29-S34.	0.8	200
10	An electrophysiological marker of arousal level in humans. ELife, 2020, 9, .	2.8	194
11	Sleep loss causes social withdrawal and loneliness. Nature Communications, 2018, 9, 3146.	5.8	164
12	Sleep as a Potential Biomarker of Tau and $\beta$ -Amyloid Burden in the Human Brain. Journal of Neuroscience, 2019, 39, 6315-6324.	1.7	160
13	Bidirectional prefrontal-hippocampal dynamics organize information transfer during sleep in humans. Nature Communications, 2019, 10, 3572.	5.8	149
14	Slow dissolving of emotional distress contributes to hyperarousal. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2538-2543.	3.3	133
15	Improving Outcome of Psychosocial Treatments by Enhancing Memory and Learning. Perspectives on Psychological Science, 2014, 9, 161-179.	5.2	124
16	Impaired Prefrontal Sleep Spindle Regulation of Hippocampal-Dependent Learning in Older Adults. Cerebral Cortex, 2014, 24, 3301-3309.	1.6	117
17	The Pain of Sleep Loss: A Brain Characterization in Humans. Journal of Neuroscience, 2019, 39, 2291-2300.	1.7	111
18	Sleep Disturbance Forecasts $\beta$ -Amyloid Accumulation across Subsequent Years. Current Biology, 2020, 30, 4291-4298.e3.	1.8	110

#	ARTICLE	IF	CITATIONS
19	An open-source, high-performance tool for automated sleep staging. <i>ELife</i> , 2021, 10, .	2.8	107
20	Sleep, memory and emotion. <i>Progress in Brain Research</i> , 2010, 185, 49-68.	0.9	105
21	Sleep Loss and the Socio-Emotional Brain. <i>Trends in Cognitive Sciences</i> , 2020, 24, 435-450.	4.0	102
22	Slow-Wave Activity Enhancement to Improve Cognition. <i>Trends in Neurosciences</i> , 2018, 41, 470-482.	4.2	92
23	Sleep Deprivation Impairs the Human Central and Peripheral Nervous System Discrimination of Social Threat. <i>Journal of Neuroscience</i> , 2015, 35, 10135-10145.	1.7	86
24	Overanxious and underslept. <i>Nature Human Behaviour</i> , 2020, 4, 100-110.	6.2	86
25	Tired and Apprehensive: Anxiety Amplifies the Impact of Sleep Loss on Aversive Brain Anticipation. <i>Journal of Neuroscience</i> , 2013, 33, 10607-10615.	1.7	81
26	The Role of Slow Wave Sleep in Memory Processing. <i>Journal of Clinical Sleep Medicine</i> , 2009, 5, .	1.4	81
27	Sleep and Emotional Memory Processing. <i>Sleep Medicine Clinics</i> , 2011, 6, 31-43.	1.2	69
28	The role of slow wave sleep in memory processing. <i>Journal of Clinical Sleep Medicine</i> , 2009, 5, S20-6.	1.4	53
29	Sleep-Dependent Memory Processing. <i>Harvard Review of Psychiatry</i> , 2008, 16, 287-298.	0.9	52
30	Human Hippocampal Structure: A Novel Biomarker Predicting Mnemonic Vulnerability to, and Recovery from, Sleep Deprivation. <i>Journal of Neuroscience</i> , 2016, 36, 2355-2363.	1.7	45
31	Sleep spindle and slow wave frequency reflect motor skill performance in primary school-age children. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 910.	1.0	44
32	White Matter Structure in Older Adults Moderates the Benefit of Sleep Spindles on Motor Memory Consolidation. <i>Journal of Neuroscience</i> , 2017, 37, 11675-11687.	1.7	42
33	Broken sleep predicts hardened blood vessels. <i>PLoS Biology</i> , 2020, 18, e3000726.	2.6	29
34	Impact of insufficient sleep on dysregulated blood glucose control under standardised meal conditions. <i>Diabetologia</i> , 2022, 65, 356-365.	2.9	29
35	Tau and $\beta$ -Amyloid Burden Predict Actigraphy-Measured and Self-Reported Impairment and Misperception of Human Sleep. <i>Journal of Neuroscience</i> , 2021, 41, 7687-7696.	1.7	17
36	Understanding the boundary conditions of memory reconsolidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3991-2.	3.3	15

#	ARTICLE	IF	CITATIONS
37	The nature of delayed dream incorporation (â€˜dreamâ€™lag effectâ€™™): Personally significant events persist, but not major daily activities or concerns. <i>Journal of Sleep Research</i> , 2019, 28, e12697.	1.7	12
38	A restless night makes for a rising tide of amyloid. <i>Brain</i> , 2017, 140, 2066-2069.	3.7	9
39	Memory Processing: Ripples in the Resting Brain. <i>Current Biology</i> , 2016, 26, R239-R241.	1.8	8
40	Sleep the night before and after a treatment session: A critical ingredient for treatment adherence?. <i>Journal of Consulting and Clinical Psychology</i> , 2017, 85, 647-652.	1.6	7
41	Sleep disturbance is associated with longitudinal A $\beta$ 2 accumulation in healthy older adults. <i>Alzheimer's and Dementia</i> , 2020, 16, e045646.	0.4	1
42	In Sleep Lost, Emotions Become Unrecognized: Commentary on Minkel et al.'s, â€œEmotional Expressiveness in Sleep-Deprived Healthy Adultsâ€• <i>Behavioral Sleep Medicine</i> , 2011, 9, 15-17.	1.1	0
43	P2-162: NREM Slow Wave Activity < 1HZ as a Biomarker and Long-Term Predictor of B-Amyloid Burden in Older Adults. , 2016, 12, P676-P677.		0
44	Sensitivity of objective and subjective sleep features to tau and A $\beta$ 2 burden in healthy older adults. <i>Alzheimer's and Dementia</i> , 2020, 16, e044950.	0.4	0