

# Matthew P Walker

## List of Publications by Citations

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45  
papers

4,167  
citations

30  
h-index

51  
g-index

51  
ext. papers

5,648  
ext. citations

8.8  
avg, IF

6.35  
L-index

#	Paper	IF	Citations
45	Overnight therapy? The role of sleep in emotional brain processing. <i>Psychological Bulletin</i> , <b>2009</b> , 135, 731-48	19.1	617
44	The role of sleep in cognition and emotion. <i>Annals of the New York Academy of Sciences</i> , <b>2009</b> , 1156, 168-97	19.1	525
43	Sleep and Human Aging. <i>Neuron</i> , <b>2017</b> , 94, 19-36	13.9	401
42	The sleep-deprived human brain. <i>Nature Reviews Neuroscience</i> , <b>2017</b> , 18, 404-418	13.5	370
41	βAmyloid disrupts human NREM slow waves and related hippocampus-dependent memory consolidation. <i>Nature Neuroscience</i> , <b>2015</b> , 18, 1051-7	25.5	276
40	Sleep: A Novel Mechanistic Pathway, Biomarker, and Treatment Target in the Pathology of Alzheimer's Disease?. <i>Trends in Neurosciences</i> , <b>2016</b> , 39, 552-566	13.3	226
39	The impact of sleep deprivation on food desire in the human brain. <i>Nature Communications</i> , <b>2013</b> , 4, 2252-4	17.4	177
38	Old Brains Come Uncoupled in Sleep: Slow Wave-Spindle Synchrony, Brain Atrophy, and Forgetting. <i>Neuron</i> , <b>2018</b> , 97, 221-230.e4	13.9	163
37	Cognitive consequences of sleep and sleep loss. <i>Sleep Medicine</i> , <b>2008</b> , 9 Suppl 1, S29-34	4.6	158
36	Slow dissolving of emotional distress contributes to hyperarousal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 2538-43	11.5	91
35	Sleep, memory and emotion. <i>Progress in Brain Research</i> , <b>2010</b> , 185, 49-68	2.9	88
34	Impaired prefrontal sleep spindle regulation of hippocampal-dependent learning in older adults. <i>Cerebral Cortex</i> , <b>2014</b> , 24, 3301-9	5.1	83
33	Sleep loss causes social withdrawal and loneliness. <i>Nature Communications</i> , <b>2018</b> , 9, 3146	17.4	81
32	Sleep as a Potential Biomarker of Tau and βAmyloid Burden in the Human Brain. <i>Journal of Neuroscience</i> , <b>2019</b> , 39, 6315-6324	6.6	70
31	Improving Outcome of Psychosocial Treatments by Enhancing Memory and Learning. <i>Perspectives on Psychological Science</i> , <b>2014</b> , 9, 161-79	9.8	68
30	Tired and apprehensive: anxiety amplifies the impact of sleep loss on aversive brain anticipation. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 10607-15	6.6	62
29	Sleep Deprivation Impairs the Human Central and Peripheral Nervous System Discrimination of Social Threat. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 10135-45	6.6	56

28	Bidirectional prefrontal-hippocampal dynamics organize information transfer during sleep in humans. <i>Nature Communications</i> , <b>2019</b> , 10, 3572	17.4	54
27	The role of slow wave sleep in memory processing. <i>Journal of Clinical Sleep Medicine</i> , <b>2009</b> , 5, S20-6	3.1	50
26	Slow-Wave Activity Enhancement to Improve Cognition. <i>Trends in Neurosciences</i> , <b>2018</b> , 41, 470-482	13.3	49
25	The Pain of Sleep Loss: A Brain Characterization in Humans. <i>Journal of Neuroscience</i> , <b>2019</b> , 39, 2291-2306	6.6	48
24	The Role of Slow Wave Sleep in Memory Processing. <i>Journal of Clinical Sleep Medicine</i> , <b>2009</b> , 5,	3.1	48
23	An electrophysiological marker of arousal level in humans. <i>ELife</i> , <b>2020</b> , 9,	8.9	48
22	Sleep and Emotional Memory Processing. <i>Sleep Medicine Clinics</i> , <b>2011</b> , 6, 31-43	3.6	47
21	Sleep-dependent memory processing. <i>Harvard Review of Psychiatry</i> , <b>2008</b> , 16, 287-98	4.1	39
20	Sleep Loss and the Socio-Emotional Brain. <i>Trends in Cognitive Sciences</i> , <b>2020</b> , 24, 435-450	14	38
19	Sleep spindle and slow wave frequency reflect motor skill performance in primary school-age children. <i>Frontiers in Human Neuroscience</i> , <b>2014</b> , 8, 910	3.3	37
18	Overanxious and underslept. <i>Nature Human Behaviour</i> , <b>2020</b> , 4, 100-110	12.8	37
17	Sleep Disturbance Forecasts $\beta$ -Amyloid Accumulation across Subsequent Years. <i>Current Biology</i> , <b>2020</b> , 30, 4291-4298.e3	6.3	36
16	Human Hippocampal Structure: A Novel Biomarker Predicting Mnemonic Vulnerability to, and Recovery from, Sleep Deprivation. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 2355-63	6.6	33
15	White Matter Structure in Older Adults Moderates the Benefit of Sleep Spindles on Motor Memory Consolidation. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 11675-11687	6.6	21
14	A Societal Sleep Prescription. <i>Neuron</i> , <b>2019</b> , 103, 559-562	13.9	12
13	Understanding the boundary conditions of memory reconsolidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E3991-2	11.5	11
12	The nature of delayed dream incorporation (Wdream-lag effect) Personally significant events persist, but not major daily activities or concerns. <i>Journal of Sleep Research</i> , <b>2019</b> , 28, e12697	5.8	11
11	Broken sleep predicts hardened blood vessels. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000726	9.7	7

10	A restless night makes for a rising tide of amyloid. <i>Brain</i> , <b>2017</b> , 140, 2066-2069	11.2	6
9	Memory Processing: Ripples in the Resting Brain. <i>Current Biology</i> , <b>2016</b> , 26, R239-41	6.3	6
8	An open-source, high-performance tool for automated sleep staging. <i>ELife</i> , <b>2021</b> , 10,	8.9	5
7	Sleep the night before and after a treatment session: A critical ingredient for treatment adherence?. <i>Journal of Consulting and Clinical Psychology</i> , <b>2017</b> , 85, 647-652	6.5	5
6	Tau and $\beta$ Amyloid Burden Predict Actigraphy-Measured and Self-Reported Impairment and Misperception of Human Sleep. <i>Journal of Neuroscience</i> , <b>2021</b> , 41, 7687-7696	6.6	4
5	Impact of insufficient sleep on dysregulated blood glucose control under standardised meal conditions. <i>Diabetologia</i> , <b>2021</b> , 1	10.3	2
4	Sleep disturbance is associated with longitudinal A $\beta$ accumulation in healthy older adults. <i>Alzheimers and Dementia</i> , <b>2020</b> , 16, e045646	1.2	0
3	Sensitivity of objective and subjective sleep features to tau and A $\beta$ burden in healthy older adults. <i>Alzheimers and Dementia</i> , <b>2020</b> , 16, e044950	1.2	
2	In sleep lost, emotions become unrecognized: Commentary on Minkel et al. W, "Emotional expressiveness in sleep-deprived healthy adults". <i>Behavioral Sleep Medicine</i> , <b>2011</b> , 9, 15-7	4.2	
1	P2-162: NREM Slow Wave Activity <b>2016</b> , 12, P676-P677		