

# Manuel Schabus

## List of Publications by Year in descending order

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Version: 2024-02-01

127  
papers

11,907  
citations

50170

46  
h-index

29081

104  
g-index

145  
all docs

145  
docs citations

145  
times ranked

10297  
citing authors

#	ARTICLE	IF	CITATIONS
1	Brain Response to One's Own Name in Vegetative State, Minimally Conscious State, and Locked-in Syndrome. Archives of Neurology, 2006, 63, 562.	4.9	948
2	Voluntary brain processing in disorders of consciousness. Neurology, 2008, 71, 1614-1620.	1.5	818
3	A shift of visual spatial attention is selectively associated with human EEG alpha activity. European Journal of Neuroscience, 2005, 22, 2917-2926.	1.2	708
4	Fronto-parietal EEG coherence in theta and upper alpha reflect central executive functions of working memory. International Journal of Psychophysiology, 2005, 57, 97-103.	0.5	661
5	Sleep Spindles and Their Significance for Declarative Memory Consolidation. Sleep, 2004, 27, 1479-1485.	0.6	509
6	Hemodynamic cerebral correlates of sleep spindles during human non-rapid eye movement sleep. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13164-13169.	3.3	443
7	Spontaneous neural activity during human slow wave sleep. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15160-15165.	3.3	383
8	Two Distinct Neuronal Networks Mediate the Awareness of Environment and of Self. Journal of Cognitive Neuroscience, 2011, 23, 570-578.	1.1	367
9	Increasing Individual Upper Alpha Power by Neurofeedback Improves Cognitive Performance in Human Subjects. Applied Psychophysiology Biofeedback, 2005, 30, 1-10.	1.0	364
10	<i>Intrinsic Brain Activity in Altered States of Consciousness</i>. Annals of the New York Academy of Sciences, 2008, 1129, 119-129.	1.8	340
11	Sleep transforms the cerebral trace of declarative memories. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18778-18783.	3.3	338
12	Phase-locked alpha and theta oscillations generate the P1&N1 complex and are related to memory performance. Cognitive Brain Research, 2004, 19, 302-316.	3.3	281
13	Sleep spindle-related activity in the human EEG and its relation to general cognitive and learning abilities. European Journal of Neuroscience, 2006, 23, 1738-1746.	1.2	229
14	Sleep-Related Hippocampo-Cortical Interplay during Emotional Memory Recollection. PLoS Biology, 2007, 5, e282.	2.6	225
15	Wavelength-Dependent Modulation of Brain Responses to a Working Memory Task by Daytime Light Exposure. Cerebral Cortex, 2007, 17, 2788-2795.	1.6	218
16	Functional Neuroimaging Insights into the Physiology of Human Sleep. Sleep, 2010, 33, 1589-1603.	0.6	214
17	Theta coupling in the human electroencephalogram during a working memory task. Neuroscience Letters, 2004, 354, 123-126.	1.0	190
18	Consensus on the reporting and experimental design of clinical and cognitive-behavioural neurofeedback studies (CRED-nf checklist). Brain, 2020, 143, 1674-1685.	3.7	188

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19	Spectral quality of light modulates emotional brain responses in humans. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19549-19554.	3.3	179
20	Interplay between spontaneous and induced brain activity during human non-rapid eye movement sleep. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15438-15443.	3.3	171
21	Homeostatic Sleep Pressure and Responses to Sustained Attention in the Suprachiasmatic Area. Science, 2009, 324, 516-519.	6.0	170
22	Hierarchical clustering of brain activity during human nonrapid eye movement sleep. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5856-5861.	3.3	165
23	Neuroimaging Insights into the Pathophysiology of Sleep Disorders. Sleep, 2008, 31, 777-794.	0.6	157
24	Interindividual sleep spindle differences and their relation to learning-related enhancements. Brain Research, 2008, 1191, 127-135.	1.1	154
25	Is there a link between sleep changes and memory in Alzheimer's disease?. NeuroReport, 2008, 19, 1159-1162.	0.6	151
26	The interplay between theta and alpha oscillations in the human electroencephalogram reflects the transfer of information between memory systems. Neuroscience Letters, 2002, 324, 121-124.	1.0	140
27	The Fate of Incoming Stimuli during NREM Sleep is Determined by Spindles and the Phase of the Slow Oscillation. Frontiers in Neurology, 2012, 3, 40.	1.1	139
28	Abnormal Neural Filtering of Irrelevant Visual Information in Depression. Journal of Neuroscience, 2009, 29, 1395-1403.	1.7	126
29	Detecting consciousness in a total locked-in syndrome: An active event-related paradigm. Neurocase, 2009, 15, 271-277.	0.2	117
30	â€ˆnparACTâ€™ package for R: A free software tool for the non-parametric analysis of actigraphy data. MethodsX, 2016, 3, 430-435.	0.7	114
31	Instrumental conditioning of human sensorimotor rhythm (12-15 Hz) and its impact on sleep as well as declarative learning. Sleep, 2008, 31, 1401-8.	0.6	108
32	CRS-R score in disorders of consciousness is strongly related to spectral EEG at rest. Journal of Neurology, 2013, 260, 2348-2356.	1.8	102
33	Slow Sleep Spindle Activity, Declarative Memory, and General Cognitive Abilities in Children. Sleep, 2014, 37, 1501-1512.	0.6	102
34	Better than sham? A double-blind placebo-controlled neurofeedback study in primary insomnia. Brain, 2017, 140, 1041-1052.	3.7	101
35	EEG entropy measures indicate decrease of cortical information processing in Disorders of Consciousness. Clinical Neurophysiology, 2016, 127, 1419-1427.	0.7	95
36	Sleep in disorders of consciousness. Sleep Medicine Reviews, 2010, 14, 97-105.	3.8	87

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37	Enhancing sleep quality and memory in insomnia using instrumental sensorimotor rhythm conditioning. <i>Biological Psychology</i> , 2014, 95, 126-134.	1.1	87
38	Slow oscillation-spindle coupling predicts enhanced memory formation from childhood to adolescence. <i>ELife</i> , 2020, 9, .	2.8	86
39	Assessment of a wireless headband for automatic sleep scoring. <i>Sleep and Breathing</i> , 2013, 17, 747-752.	0.9	72
40	Developmental changes of sleep spindles and their impact on sleep-dependent memory consolidation and general cognitive abilities: A longitudinal approach. <i>Developmental Science</i> , 2019, 22, e12706.	1.3	72
41	How should functional imaging of patients with disorders of consciousness contribute to their clinical rehabilitation needs?. <i>Current Opinion in Neurology</i> , 2006, 19, 520-527.	1.8	70
42	Cognitive processes in disorders of consciousness as revealed by EEG time-frequency analyses. <i>Clinical Neurophysiology</i> , 2011, 122, 2177-2184.	0.7	67
43	Circadian Preference Modulates the Neural Substrate of Conflict Processing across the Day. <i>PLoS ONE</i> , 2012, 7, e29658.	1.1	64
44	High cardiac vagal control is related to better subjective and objective sleep quality. <i>Biological Psychology</i> , 2015, 106, 79-85.	1.1	63
45	Heartbeat-related EEG amplitude and phase modulations from wakefulness to deep sleep: Interactions with sleep spindles and slow oscillations. <i>Psychophysiology</i> , 2015, 52, 1441-1450.	1.2	61
46	Significance of circadian rhythms in severely brain-injured patients. <i>Neurology</i> , 2017, 88, 1933-1941.	1.5	58
47	Pre- to postsleep change in psychophysiological reactivity to emotional films: Late-night REM sleep is associated with attenuated emotional processing. <i>Psychophysiology</i> , 2015, 52, 813-825.	1.2	50
48	Instrumental Conditioning of Human Sensorimotor Rhythm (12-15 Hz) and Its Impact on Sleep as Well as Declarative Learning. <i>Sleep</i> , 2008, , .	0.6	47
49	Night and day variations of sleep in patients with disorders of consciousness. <i>Scientific Reports</i> , 2017, 7, 266.	1.6	46
50	Does Sleep Promote False Memories?. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 26-40.	1.1	45
51	Neural Precursors of Delayed Insight. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 1900-1910.	1.1	44
52	About the Accuracy and Problems of Consumer Devices in the Assessment of Sleep. <i>Sensors</i> , 2019, 19, 4160.	2.1	44
53	Cortical reactivations during sleep spindles following declarative learning. <i>NeuroImage</i> , 2019, 195, 104-112.	2.1	43
54	Preferential processing of emotionally and self-relevant stimuli persists in unconscious N2 sleep. <i>Brain and Language</i> , 2017, 167, 72-82.	0.8	42

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55	Standing sentinel during human sleep: Continued evaluation of environmental stimuli in the absence of consciousness. <i>NeuroImage</i> , 2018, 178, 638-648.	2.1	42
56	Rehearsal initiates systems memory consolidation, sleep makes it last. <i>Science Advances</i> , 2019, 5, eaav1695.	4.7	42
57	Consolidation of temporal order in episodic memories. <i>Biological Psychology</i> , 2012, 91, 150-155.	1.1	40
58	Influence of Midday Naps on Declarative Memory Performance and Motivation. Der Einfluss von Mittagsschlafchen auf deklarative Gedachtnisleistung und Motivation. <i>Somnologie</i> , 2005, 9, 148-153.	0.9	39
59	The impact of diurnal sleep on the consolidation of a complex gross motor adaptation task. <i>Journal of Sleep Research</i> , 2015, 24, 100-109.	1.7	39
60	Event-related activity and phase locking during a psychomotor vigilance task over the course of sleep deprivation. <i>Journal of Sleep Research</i> , 2011, 20, 377-385.	1.7	38
61	Across the consciousness continuum—from unresponsive wakefulness to sleep. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 105.	1.0	37
62	The Significance of Sigma Neurofeedback Training on Sleep Spindles and Aspects of Declarative Memory. <i>Applied Psychophysiology Biofeedback</i> , 2006, 31, 97-114.	1.0	36
63	Oscillatory brain responses to own names uttered by unfamiliar and familiar voices. <i>Brain Research</i> , 2014, 1591, 63-73.	1.1	35
64	The effect of daytime napping and full-night sleep on the consolidation of declarative and procedural information. <i>Journal of Sleep Research</i> , 2019, 28, e12649.	1.7	35
65	Self-reported sleep patterns, sleep problems, and behavioral problems among school children aged 8–11 years. <i>Somnologie</i> , 2010, 14, 23-31.	0.9	34
66	Sleep in patients with disorders of consciousness characterized by means of machine learning. <i>PLoS ONE</i> , 2018, 13, e0190458.	1.1	34
67	Rejection of pulse related artefact (PRA) from continuous electroencephalographic (EEG) time series recorded during functional magnetic resonance imaging (fMRI) using constraint independent component analysis (cICA). <i>NeuroImage</i> , 2009, 44, 679-691.	2.1	32
68	Slow Oscillation Amplitudes and Up-State Lengths Relate to Memory Improvement. <i>PLoS ONE</i> , 2013, 8, e82049.	1.1	32
69	Alpha phase, temporal attention, and the generation of early event related potentials. <i>NeuroImage</i> , 2014, 103, 119-129.	2.1	32
70	Healthier rhythm, healthier brain? Integrity of circadian melatonin and temperature rhythms relates to the clinical state of brain-injured patients. <i>European Journal of Neurology</i> , 2019, 26, 1051-1059.	1.7	28
71	Oscillatory Theta Activity during Memory Formation and Its Impact on Overnight Consolidation: A Missing Link?. <i>Journal of Cognitive Neuroscience</i> , 2015, 27, 1648-1658.	1.1	27
72	Evaluation of a Low-Cost Commercial Actigraph and Its Potential Use in Detecting Cultural Variations in Physical Activity and Sleep. <i>Sensors</i> , 2021, 21, 3774.	2.1	23

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73	Sleep during COVID-19 lockdown: A cross-cultural study investigating job system relevance. <i>Biochemical Pharmacology</i> , 2021, 191, 114463.	2.0	22
74	EVOKED OSCILLATIONS AND EARLY COMPONENTS OF EVENT-RELATED POTENTIALS: AN ANALYSIS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004, 14, 705-718.	0.7	21
75	Susceptibility to Declarative Memory Interference is Pronounced in Primary Insomnia. <i>PLoS ONE</i> , 2013, 8, e57394.	1.1	21
76	Reply: On assessing neurofeedback effects: should double-blind replace neurophysiological mechanisms?. <i>Brain</i> , 2017, 140, e64-e64.	3.7	20
77	Sleep reduces the testing effect" But not after corrective feedback and prolonged retention interval.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2019, 45, 272-287.	0.7	19
78	Dreaming: a neuroimaging view. <i>Swiss Archives of Neurology, Psychiatry and Psychotherapy</i> , 2005, 156, 415-425.	0.2	19
79	Mirroring of a simple motor behavior in Disorders of Consciousness. <i>Clinical Neurophysiology</i> , 2013, 124, 27-34.	0.7	15
80	Coupling and Decoupling between Brain and Body Oscillations. <i>Neuroscience Letters</i> , 2019, 711, 134401.	1.0	15
81	Slow oscillation" spindle coupling strength predicts real-life gross-motor learning in adolescents and adults. <i>ELife</i> , 2022, 11, .	2.8	15
82	Can self-relevant stimuli help assessing patients with disorders of consciousness?. <i>Consciousness and Cognition</i> , 2016, 44, 51-60.	0.8	14
83	Still Missing Some Significant Ingredients. <i>Sleep</i> , 2009, 32, 291-293.	0.6	13
84	Assessment of SOMNOwatch plus EEG for sleep monitoring in healthy individuals. <i>Physiology and Behavior</i> , 2014, 132, 73-78.	1.0	13
85	Event-related EEG power modulations and phase connectivity indicate the focus of attention in an auditory own name paradigm. <i>Journal of Neurology</i> , 2016, 263, 1530-1543.	1.8	13
86	Individual baseline memory performance and its significance for sleep-dependent memory consolidation. <i>Sleep Spindles &amp; Cortical Up States</i> , 2017, 1, 2-13.	1.5	13
87	On the development of sleep states in the first weeks of life. <i>PLoS ONE</i> , 2019, 14, e0224521.	1.1	13
88	Spontaneous neural activity during human non-rapid eye movement sleep. <i>Progress in Brain Research</i> , 2011, 193, 111-118.	0.9	12
89	Sleep and circadian rhythms in severely brain-injured patients " A comment. <i>Clinical Neurophysiology</i> , 2018, 129, 1780-1784.	0.7	12
90	Differential Effects of REM Sleep on Emotional Processing: Initial Evidence for Increased Short-term Emotional Responses and Reduced Long-term Intrusive Memories. <i>Behavioral Sleep Medicine</i> , 2021, 19, 83-98.	1.1	11

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91	Oscillatory brain activity in vegetative and minimally conscious state during a sentence comprehension task. <i>Functional Neurology</i> , 2011, 26, 31-6.	1.3	10
92	Recurrent boosting effects of short inactivity delays on performance: an ERPs study. <i>BMC Research Notes</i> , 2009, 2, 170.	0.6	9
93	EEG oscillations reflect the complexity of social interactions in a non-verbal social cognition task using animated triangles. <i>Neuropsychologia</i> , 2015, 75, 330-340.	0.7	9
94	Procedural memory consolidation is associated with heart rate variability and sleep spindles. <i>Journal of Sleep Research</i> , 2020, 29, e12910.	1.7	9
95	Sleep-Specific Processing of Auditory Stimuli Is Reflected by Alpha and Sigma Oscillations. <i>Journal of Neuroscience</i> , 2022, 42, 4711-4724.	1.7	9
96	Reply: Noisy but not placebo: defining metrics for effects of neurofeedback. <i>Brain</i> , 2018, 141, e41-e41.	3.7	8
97	“How does Austria sleep?” self-reported sleep habits and complaints in an online survey. <i>Sleep and Breathing</i> , 2020, 24, 735-741.	0.9	7
98	Sleep, Little Baby: The Calming Effects of Prenatal Speech Exposure on Newborns’ Sleep and Heartrate. <i>Brain Sciences</i> , 2020, 10, 511.	1.1	7
99	The Brain Selectively Tunes to Unfamiliar Voices during Sleep. <i>Journal of Neuroscience</i> , 2022, 42, 1791-1803.	1.7	7
100	The Voice of Anger: Oscillatory EEG Responses to Emotional Prosody. <i>PLoS ONE</i> , 2016, 11, e0159429.	1.1	6
101	Approaches to sleep in severely brain damaged patients – Further comments and replies to Kotchoubey & Pavlov. <i>Clinical Neurophysiology</i> , 2018, 129, 2680-2681.	0.7	6
102	Actigraphy in brain-injured patients – A valid measurement for assessing circadian rhythms?. <i>BMC Medicine</i> , 2020, 18, 106.	2.3	6
103	Cardiac Vagal Control and Depressive Symptoms: The Moderating Role of Sleep Quality. <i>Behavioral Sleep Medicine</i> , 2017, 15, 451-465.	1.1	5
104	Involvement of sleep spindles in overnight declarative memory stabilization. <i>Somnologie</i> , 2015, 19, 30-37.	0.9	4
105	Memory Traces Formed in Utero – Newborns’ Autonomic and Neuronal Responses to Prenatal Stimuli and the Maternal Voice. <i>Brain Sciences</i> , 2020, 10, 837.	1.1	4
106	Perspective: Daylight Saving Time – An Advocacy for a Balanced View and against Fanning Fear. <i>Clocks &amp; Sleep</i> , 2020, 2, 19-25.	0.9	4
107	From dawn to dusk – mimicking natural daylight exposure improves circadian rhythm entrainment in patients with severe brain injury. <i>Sleep</i> , 2022, 45, .	0.6	4
108	SMR neurofeedback for improving sleep and memory – Two studies in primary insomnia. <i>Sleep Medicine</i> , 2015, 16, S12.	0.8	2

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109	Sleep: Implications for Theories of Dreaming and Consciousness. , 2009, , 357-373.		1
110	Stroop-related cerebral activity is modulated by time of day and chronotype. NeuroImage, 2009, 47, S187.	2.1	1
111	Non-pharmacological treatment of primary insomnia using sensorimotor-rhythm neurofeedback. Sleep Medicine, 2013, 14, e260-e261.	0.8	1
112	Decoding Brain Responses to Names and Voices across Different Vigilance States. Sensors, 2021, 21, 3393.	2.1	1
113	Does the Heart Fall Asleep?â€”Diurnal Variations in Heart Rate Variability in Patients with Disorders of Consciousness. Brain Sciences, 2022, 12, 375.	1.1	1
114	FC07-04 - Electrophysiological neuroimaging reveals re-set, re-activation and re-processing of procedural and declarative memory traces during post-training sleep. European Psychiatry, 2011, 26, 1849-1849.	0.1	0
115	Sleep in Disorders of Consciousness. , 2012, , 85-95.		0
116	Mechanisms underlying declarative memory consolidation are changing with age â€” Insight from healthy and disturbed sleep. Sleep Medicine, 2013, 14, e305.	0.8	0
117	Variations of EEG complexity across the 24 hr-cycle in patients with disorders of consciousness. International Journal of Psychophysiology, 2016, 108, 101-102.	0.5	0
118	0270 ON THE INCONSISTENCY OF SLEEP EFFECTS ON DECLARATIVE AND PROCEDURAL MEMORY CONSOLIDATION - AN EEG STUDY ACROSS MULTIPLE SLEEP LABORATORY NIGHTS. Sleep, 2017, 40, A99-A99.	0.6	0
119	Sleep: Implications for Theories of Dreaming and Consciousness â†. , 2017, , .		0
120	What Can We Learn About Brain Functions from Sleep EEG? Insights from Sleep of DOC Patients. , 2018, , 155-168.		0
121	The impact of sleep on three-ball cascade juggling. Frontiers in Human Neuroscience, 0, 9, .	1.0	0
122	On the development of sleep states in the first weeks of life. , 2019, 14, e0224521.		0
123	On the development of sleep states in the first weeks of life. , 2019, 14, e0224521.		0
124	On the development of sleep states in the first weeks of life. , 2019, 14, e0224521.		0
125	On the development of sleep states in the first weeks of life. , 2019, 14, e0224521.		0
126	On the development of sleep states in the first weeks of life. , 2019, 14, e0224521.		0



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127	On the development of sleep states in the first weeks of life. , 2019, 14, e0224521.		0