

Gilles Vandewalle

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

6,418
citations

76196

40
h-index

79541

73
g-index

87
all docs

87
docs citations

87
times ranked

6067
citing authors

#	ARTICLE	IF	CITATIONS
1	Light as a modulator of cognitive brain function. Trends in Cognitive Sciences, 2009, 13, 429-438.	4.0	397
2	Both the Hippocampus and Striatum Are Involved in Consolidation of Motor Sequence Memory. Neuron, 2008, 58, 261-272.	3.8	387
3	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
4	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
5	Functional specialization for auditory spatial processing in the occipital cortex of congenitally blind humans. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4435-4440.	3.3	287
6	Brain plasticity related to the consolidation of motor sequence learning and motor adaptation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17839-17844.	3.3	242
7	Daytime Light Exposure Dynamically Enhances Brain Responses. Current Biology, 2006, 16, 1616-1621.	1.8	230
8	Sleep-Related Hippocampo-Cortical Interplay during Emotional Memory Recollection. PLoS Biology, 2007, 5, e282.	2.6	225
9	Brain Responses to Violet, Blue, and Green Monochromatic Light Exposures in Humans: Prominent Role of Blue Light and the Brainstem. PLoS ONE, 2007, 2, e1247.	1.1	206
10	The Locus Ceruleus Is Involved in the Successful Retrieval of Emotional Memories in Humans. Journal of Neuroscience, 2006, 26, 7416-7423.	1.7	205
11	Sleep Promotes the Neural Reorganization of Remote Emotional Memory. Journal of Neuroscience, 2009, 29, 5143-5152.	1.7	194
12	Impact of blindness onset on the functional organization and the connectivity of the occipital cortex. Brain, 2013, 136, 2769-2783.	3.7	193
13	Sleep slow wave changes during the middle years of life. European Journal of Neuroscience, 2011, 33, 758-766.	1.2	188
14	Homeostatic Sleep Pressure and Responses to Sustained Attention in the Suprachiasmatic Area. Science, 2009, 324, 516-519.	6.0	170
15	Local modulation of human brain responses by circadian rhythmicity and sleep debt. Science, 2016, 353, 687-690.	6.0	149
16	Functional Magnetic Resonance Imaging-Assessed Brain Responses during an Executive Task Depend on Interaction of Sleep Homeostasis, Circadian Phase, and PER3 Genotype. Journal of Neuroscience, 2009, 29, 7948-7956.	1.7	146
17	Circadian regulation of human cortical excitability. Nature Communications, 2016, 7, 11828.	5.8	146
18	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

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19	Robust circadian rhythm in heart rate and its variability: influence of exogenous melatonin and photoperiod. <i>Journal of Sleep Research</i> , 2007, 16, 148-155.	1.7	138
20	Abnormal Neural Filtering of Irrelevant Visual Information in Depression. <i>Journal of Neuroscience</i> , 2009, 29, 1395-1403.	1.7	126
21	Effects of Light on Cognitive Brain Responses Depend on Circadian Phase and Sleep Homeostasis. <i>Journal of Biological Rhythms</i> , 2011, 26, 249-259.	1.4	110
22	Nonvisual Responses to Light Exposure in the Human Brain during the Circadian Night. <i>Current Biology</i> , 2004, 14, 1842-1846.	1.8	107
23	Interaction between Hippocampal and Striatal Systems Predicts Subsequent Consolidation of Motor Sequence Memory. <i>PLoS ONE</i> , 2013, 8, e59490.	1.1	105
24	Neuroimaging, cognition, light and circadian rhythms. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 126.	1.2	96
25	Blue Light Stimulates Cognitive Brain Activity in Visually Blind Individuals. <i>Journal of Cognitive Neuroscience</i> , 2013, 25, 2072-2085.	1.1	94
26	Sleep spindles predict neural and behavioral changes in motor sequence consolidation. <i>Human Brain Mapping</i> , 2013, 34, 2918-2928.	1.9	88
27	Seasonality in human cognitive brain responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3066-3071.	3.3	87
28	Phenotyping of PER3 variants reveals widespread effects on circadian preference, sleep regulation, and health. <i>Sleep Medicine Reviews</i> , 2018, 40, 109-126.	3.8	71
29	Neural correlates of performance variability during motor sequence acquisition. <i>NeuroImage</i> , 2012, 60, 324-331.	2.1	68
30	Photic memory for executive brain responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6087-6091.	3.3	65
31	Circadian Preference Modulates the Neural Substrate of Conflict Processing across the Day. <i>PLoS ONE</i> , 2012, 7, e29658.	1.1	64
32	The Impact of Visual Perceptual Learning on Sleep and Local Slow-Wave Initiation. <i>Journal of Neuroscience</i> , 2013, 33, 3323-3331.	1.7	62
33	Circadian dynamics in measures of cortical excitation and inhibition balance. <i>Scientific Reports</i> , 2016, 6, 33661.	1.6	58
34	Pushing the Limits: Chronotype and Time of Day Modulate Working Memory-Dependent Cerebral Activity. <i>Frontiers in Neurology</i> , 2015, 6, 199.	1.1	52
35	Does Pupil Constriction under Blue and Green Monochromatic Light Exposure Change with Age?. <i>Journal of Biological Rhythms</i> , 2012, 27, 257-264.	1.4	49
36	Abnormal Hypothalamic Response to Light in Seasonal Affective Disorder. <i>Biological Psychiatry</i> , 2011, 70, 954-961.	0.7	48

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37	Aging Reduces the Stimulating Effect of Blue Light on Cognitive Brain Functions. <i>Sleep</i> , 2014, 37, 85-96.	0.6	48
38	Does Sleep Promote False Memories?. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 26-40.	1.1	45
39	Neural Precursors of Delayed Insight. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 1900-1910.	1.1	44
40	Influence of acute sleep loss on the neural correlates of alerting, orientating and executive attention components. <i>Journal of Sleep Research</i> , 2012, 21, 648-658.	1.7	44
41	Sleep-wake regulation and the hallmarks of the pathogenesis of Alzheimer's disease. <i>Sleep</i> , 2019, 42, .	0.6	42
42	Importance of the locus coeruleus-norepinephrine system in sleep-wake regulation: Implications for aging and Alzheimer's disease. <i>Sleep Medicine Reviews</i> , 2022, 62, 101592.	3.8	40
43	Automatic artifacts and arousals detection in whole-night sleep EEG recordings. <i>Journal of Neuroscience Methods</i> , 2016, 258, 124-133.	1.3	35
44	Age-related decrease in cortical excitability circadian variations during sleep loss and its links with cognition. <i>Neurobiology of Aging</i> , 2019, 78, 52-63.	1.5	33
45	Exploring scoring methods for research studies: Accuracy and variability of visual and automated sleep scoring. <i>Journal of Sleep Research</i> , 2020, 29, e12994.	1.7	31
46	A finite-element reciprocity solution for EEG forward modeling with realistic individual head models. <i>NeuroImage</i> , 2014, 103, 542-551.	2.1	30
47	Sleep stabilizes visuomotor adaptation memory: a functional magnetic resonance imaging study. <i>Journal of Sleep Research</i> , 2013, 22, 144-154.	1.7	27
48	Reduced Slow-Wave Rebound during Daytime Recovery Sleep in Middle-Aged Subjects. <i>PLoS ONE</i> , 2012, 7, e43224.	1.1	26
49	Plasticity in the Sensitivity to Light in Aging: Decreased Non-visual Impact of Light on Cognitive Brain Activity in Older Individuals but No Impact of Lens Replacement. <i>Frontiers in Physiology</i> , 2018, 9, 1557.	1.3	19
50	ENIGMA-Sleep: Challenges, opportunities, and the road map. <i>Journal of Sleep Research</i> , 2021, 30, e13347.	1.7	19
51	Human fronto-parietal response scattering subserves vigilance at night. <i>NeuroImage</i> , 2018, 175, 354-364.	2.1	18
52	Changes in EEG permutation entropy in the evening and in the transition from wake to sleep. <i>Sleep</i> , 2021, 44, .	0.6	18
53	Timely coupling of sleep spindles and slow waves linked to early amyloid- β^2 burden and predicts memory decline. <i>ELife</i> , 0, 11, .	2.8	18
54	Light modulates oscillatory alpha activity in the occipital cortex of totally visually blind individuals with intact non-image-forming photoreception. <i>Scientific Reports</i> , 2018, 8, 16968.	1.6	17

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55	Cognitive efficiency in late midlife is linked to lifestyle characteristics and allostatic load. <i>Aging</i> , 2019, 11, 7169-7186.	1.4	14
56	Relationship between brain AD biomarkers and episodic memory performance in healthy aging. <i>Brain and Cognition</i> , 2021, 148, 105680.	0.8	13
57	Light exposure via a head-mounted device suppresses melatonin and improves vigilant attention without affecting cortisol and comfort. <i>PsyCh Journal</i> , 2018, 7, 163-175.	0.5	11
58	Steady-State Pupil Size Varies with Circadian Phase and Sleep Homeostasis in Healthy Young Men. <i>Clocks & Sleep</i> , 2019, 1, 240-258.	0.9	10
59	Cerebral functional networks during sleep in young and older individuals. <i>Scientific Reports</i> , 2021, 11, 4905.	1.6	10
60	Heterogeneity in the links between sleep arousals, amyloid- β^2 , and cognition. <i>JCI Insight</i> , 2021, 6, .	2.3	10
61	Preserved wake-dependent cortical excitability dynamics predict cognitive fitness beyond age-related brain alterations. <i>Communications Biology</i> , 2019, 2, 449.	2.0	9
62	Increased cortical excitability but stable effective connectivity index during attentional lapses. <i>Sleep</i> , 2021, 44, .	0.6	8
63	Positive Effect of Cognitive Reserve on Episodic Memory, Executive and Attentional Functions Taking Into Account Amyloid-Beta, Tau, and Apolipoprotein E Status. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 666181.	1.7	7
64	Variability of sleep stage scoring in late midlife and early old age. <i>Journal of Sleep Research</i> , 2022, 31, e13424.	1.7	7
65	Neuroimaging the effects of light on non-visual brain functions. , 0, , 171-178.		6
66	Validation of an Automatic Arousal Detection Algorithm for Whole-Night Sleep EEG Recordings. <i>Clocks & Sleep</i> , 2020, 2, 258-272.	0.9	6
67	Alzheimer's disease genetic risk and sleep phenotypes in healthy young men: association with more slow waves and daytime sleepiness. <i>Sleep</i> , 2021, 44, .	0.6	6
68	Early brainstem [18F]THK5351 uptake is linked to cortical hyperexcitability in healthy aging. <i>JCI Insight</i> , 2021, 6, .	2.3	6
69	Brain functional MRI responses to blue light stimulation in Leber's hereditary optic neuropathy. <i>Biochemical Pharmacology</i> , 2021, 191, 114488.	2.0	5
70	Associations Between Cognitive Complaints, Memory Performance, Mood, and Amyloid- β^2 Accumulation in Healthy Amyloid Negative Late-Midlife Individuals. <i>Journal of Alzheimer's Disease</i> , 2021, 83, 127-141.	1.2	4
71	Time course of cortical response complexity during extended wakefulness and its differential association with vigilance in young and older individuals. <i>Biochemical Pharmacology</i> , 2021, 191, 114518.	2.0	4
72	Functional neuroimaging of the reciprocal influences between sleep and wakefulness. <i>Pflugers Archiv European Journal of Physiology</i> , 2012, 463, 103-109.	1.3	3

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73	Neuroimaging the interaction between circadian and homeostatic processes. , 0, , 163-170.		2
74	Eyes Open on Sleep and Wake: In Vivo to In Silico Neural Networks. Neural Plasticity, 2016, 2016, 1-13.	1.0	2
75	Reciprocal Interactions Between Wakefulness and Sleep Influence Global and Regional Brain Activity. Current Topics in Medicinal Chemistry, 2011, 11, 2403-2413.	1.0	2
76	Circadian, sleep-wake dependent or both? A preface to the special issue "Circadian rhythm and sleep-wake dependent regulation of behavior and brain function". Biochemical Pharmacology, 2021, 191, 114535.	2.0	0
77	Age-related changes in circadian rhythms and non-visual responses to light during adulthood. , 2021, , .		0