

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	Variability of sleep stage scoring in late midlife and early old age. <i>Journal of Sleep Research</i> , 2022, 31, e13424.	1.7	7
2	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
3	Changes in EEG permutation entropy in the evening and in the transition from wake to sleep. <i>Sleep</i> , 2021, 44, .	0.6	18
4	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
5	Early brainstem [18F]THK5351 uptake is linked to cortical hyperexcitability in healthy aging. <i>JCI Insight</i> , 2021, 6, .	2.3	6
6	Cerebral functional networks during sleep in young and older individuals. <i>Scientific Reports</i> , 2021, 11, 4905.	1.6	10
7	Relationship between brain AD biomarkers and episodic memory performance in healthy aging. <i>Brain and Cognition</i> , 2021, 148, 105680.	0.8	13
8	ENIGMA's Sleep: Challenges, opportunities, and the road map. <i>Journal of Sleep Research</i> , 2021, 30, e13347.	1.7	19
9	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
10	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
11	Circadian, sleep-wake dependent or both? A preface to the special issue "Circadian rhythm and sleep-wake dependent regulation of behavior and brain function". <i>Biochemical Pharmacology</i> , 2021, 191, 114535.	2.0	0
12	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
13	Brain functional MRI responses to blue light stimulation in Leber's hereditary optic neuropathy. <i>Biochemical Pharmacology</i> , 2021, 191, 114488.	2.0	5
14	Increased cortical excitability but stable effective connectivity index during attentional lapses. <i>Sleep</i> , 2021, 44, .	0.6	8
15	Heterogeneity in the links between sleep arousals, amyloid- β^2 , and cognition. <i>JCI Insight</i> , 2021, 6, .	2.3	10
16	Age-related changes in circadian rhythms and non-visual responses to light during adulthood. , 2021, , .		0
17	Validation of an Automatic Arousal Detection Algorithm for Whole-Night Sleep EEG Recordings. <i>Clocks & Sleep</i> , 2020, 2, 258-272.	0.9	6
18	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

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19	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
20	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
21	Preserved wake-dependent cortical excitability dynamics predict cognitive fitness beyond age-related brain alterations. <i>Communications Biology</i> , 2019, 2, 449.	2.0	9
22	Sleep-wake regulation and the hallmarks of the pathogenesis of Alzheimer's disease. <i>Sleep</i> , 2019, 42, .	0.6	42
23	Cognitive efficiency in late midlife is linked to lifestyle characteristics and allostatic load. <i>Aging</i> , 2019, 11, 7169-7186.	1.4	14
24	Human fronto-parietal response scattering subserves vigilance at night. <i>NeuroImage</i> , 2018, 175, 354-364.	2.1	18
25	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
26	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
27	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
28	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
29	Eyes Open on Sleep and Wake: In Vivo to In Silico Neural Networks. <i>Neural Plasticity</i> , 2016, 2016, 1-13.	1.0	2
30	Circadian regulation of human cortical excitability. <i>Nature Communications</i> , 2016, 7, 11828.	5.8	146
31	Local modulation of human brain responses by circadian rhythmicity and sleep debt. <i>Science</i> , 2016, 353, 687-690.	6.0	149
32	Circadian dynamics in measures of cortical excitation and inhibition balance. <i>Scientific Reports</i> , 2016, 6, 33661.	1.6	58
33	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
34	Automatic artifacts and arousals detection in whole-night sleep EEG recordings. <i>Journal of Neuroscience Methods</i> , 2016, 258, 124-133.	1.3	35
35	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
36	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

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37	A finite-element reciprocity solution for EEG forward modeling with realistic individual head models. <i>NeuroImage</i> , 2014, 103, 542-551.	2.1	30
38	Neuroimaging, cognition, light and circadian rhythms. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 126.	1.2	96
39	Aging Reduces the Stimulating Effect of Blue Light on Cognitive Brain Functions. <i>Sleep</i> , 2014, 37, 85-96.	0.6	48
40	Sleep spindles predict neural and behavioral changes in motor sequence consolidation. <i>Human Brain Mapping</i> , 2013, 34, 2918-2928.	1.9	88
41	Blue Light Stimulates Cognitive Brain Activity in Visually Blind Individuals. <i>Journal of Cognitive Neuroscience</i> , 2013, 25, 2072-2085.	1.1	94
42	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
43	Impact of blindness onset on the functional organization and the connectivity of the occipital cortex. <i>Brain</i> , 2013, 136, 2769-2783.	3.7	193
44	Sleep stabilizes visuomotor adaptation memory: a functional magnetic resonance imaging study. <i>Journal of Sleep Research</i> , 2013, 22, 144-154.	1.7	27
45	Interaction between Hippocampal and Striatal Systems Predicts Subsequent Consolidation of Motor Sequence Memory. <i>PLoS ONE</i> , 2013, 8, e59490.	1.1	105
46	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
47	Neural correlates of performance variability during motor sequence acquisition. <i>NeuroImage</i> , 2012, 60, 324-331.	2.1	68
48	Circadian Preference Modulates the Neural Substrate of Conflict Processing across the Day. <i>PLoS ONE</i> , 2012, 7, e29658.	1.1	64
49	Reduced Slow-Wave Rebound during Daytime Recovery Sleep in Middle-Aged Subjects. <i>PLoS ONE</i> , 2012, 7, e43224.	1.1	26
50	The Fate of Incoming Stimuli during NREM Sleep is Determined by Spindles and the Phase of the Slow Oscillation. <i>Frontiers in Neurology</i> , 2012, 3, 40.	1.1	139
51	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
52	Functional neuroimaging of the reciprocal influences between sleep and wakefulness. <i>Pflügers Archiv European Journal of Physiology</i> , 2012, 463, 103-109.	1.3	3
53	Abnormal Hypothalamic Response to Light in Seasonal Affective Disorder. <i>Biological Psychiatry</i> , 2011, 70, 954-961.	0.7	48
54	Does Sleep Promote False Memories?. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 26-40.	1.1	45

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55	Sleep slow wave changes during the middle years of life. <i>European Journal of Neuroscience</i> , 2011, 33, 758-766.	1.2	188
56	Neural Precursors of Delayed Insight. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 1900-1910.	1.1	44
57	Functional specialization for auditory spatial processing in the occipital cortex of congenitally blind humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4435-4440.	3.3	287
58	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
59	Reciprocal Interactions Between Wakefulness and Sleep Influence Global and Regional Brain Activity. <i>Current Topics in Medicinal Chemistry</i> , 2011, 11, 2403-2413.	1.0	2
60	Brain plasticity related to the consolidation of motor sequence learning and motor adaptation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17839-17844.	3.3	242
61	Sleep Promotes the Neural Reorganization of Remote Emotional Memory. <i>Journal of Neuroscience</i> , 2009, 29, 5143-5152.	1.7	194
62	Abnormal Neural Filtering of Irrelevant Visual Information in Depression. <i>Journal of Neuroscience</i> , 2009, 29, 1395-1403.	1.7	126
63	Functional Magnetic Resonance Imaging-Assessed Brain Responses during an Executive Task Depend on Interaction of Sleep Homeostasis, Circadian Phase, and PER3 Genotype. <i>Journal of Neuroscience</i> , 2009, 29, 7948-7956.	1.7	146
64	Homeostatic Sleep Pressure and Responses to Sustained Attention in the Suprachiasmatic Area. <i>Science</i> , 2009, 324, 516-519.	6.0	170
65	Light as a modulator of cognitive brain function. <i>Trends in Cognitive Sciences</i> , 2009, 13, 429-438.	4.0	397
66	Both the Hippocampus and Striatum Are Involved in Consolidation of Motor Sequence Memory. <i>Neuron</i> , 2008, 58, 261-272.	3.8	387
67	Spontaneous neural activity during human slow wave sleep. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15160-15165.	3.3	383
68	Sleep-Related Hippocampo-Cortical Interplay during Emotional Memory Recollection. <i>PLoS Biology</i> , 2007, 5, e282.	2.6	225
69	Sleep transforms the cerebral trace of declarative memories. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18778-18783.	3.3	338
70	Brain Responses to Violet, Blue, and Green Monochromatic Light Exposures in Humans: Prominent Role of Blue Light and the Brainstem. <i>PLoS ONE</i> , 2007, 2, e1247.	1.1	206
71	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
72	Daytime Light Exposure Dynamically Enhances Brain Responses. <i>Current Biology</i> , 2006, 16, 1616-1621.	1.8	230

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73	The Locus Ceruleus Is Involved in the Successful Retrieval of Emotional Memories in Humans. Journal of Neuroscience, 2006, 26, 7416-7423.	1.7	205
74	Nonvisual Responses to Light Exposure in the Human Brain during the Circadian Night. Current Biology, 2004, 14, 1842-1846.	1.8	107
75	Neuroimaging the effects of light on non-visual brain functions. , 0, , 171-178.		6
76	Neuroimaging the interaction between circadian and homeostatic processes. , 0, , 163-170.		2
77	Timely coupling of sleep spindles and slow waves linked to early amyloid- β^2 burden and predicts memory decline. ELife, 0, 11, .	2.8	18