

Wolfgang Klimesch

List of Publications by Citations

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78
papers

15,931
citations

43
h-index

81
g-index

81
ext. papers

18,647
ext. citations

4.6
avg, IF

7.32
L-index

#	Paper	IF	Citations
78	EEG alpha and theta oscillations reflect cognitive and memory performance: a review and analysis. <i>Brain Research Reviews</i> , 1999 , 29, 169-95		4258
77	EEG alpha oscillations: the inhibition-timing hypothesis. <i>Brain Research Reviews</i> , 2007 , 53, 63-88		2392
76	Band oscillations, attention, and controlled access to stored information. <i>Trends in Cognitive Sciences</i> , 2012 , 16, 606-17	14	1484
75	Memory processes, brain oscillations and EEG synchronization. <i>International Journal of Psychophysiology</i> , 1996 , 24, 61-100	2.9	685
74	Fronto-parietal EEG coherence in theta and upper alpha reflect central executive functions of working memory. <i>International Journal of Psychophysiology</i> , 2005 , 57, 97-103	2.9	520
73	Prestimulus oscillations predict visual perception performance between and within subjects. <i>NeuroImage</i> , 2007 , 37, 1465-73	7.9	497
72	Brain oscillatory substrates of visual short-term memory capacity. <i>Current Biology</i> , 2009 , 19, 1846-52	6.3	473
71	What does phase information of oscillatory brain activity tell us about cognitive processes?. <i>Neuroscience and Biobehavioral Reviews</i> , 2008 , 32, 1001-13	9	369
70	The electrophysiological dynamics of interference during the Stroop task. <i>Journal of Cognitive Neuroscience</i> , 2008 , 20, 215-25	3.1	330
69	EEG alpha synchronization and functional coupling during top-down processing in a working memory task. <i>Human Brain Mapping</i> , 2005 , 26, 148-55	5.9	318
68	Increasing individual upper alpha power by neurofeedback improves cognitive performance in human subjects. <i>Applied Psychophysiology Biofeedback</i> , 2005 , 30, 1-10	3.4	297
67	Enhancing cognitive performance with repetitive transcranial magnetic stimulation at human individual alpha frequency. <i>European Journal of Neuroscience</i> , 2003 , 17, 1129-33	3.5	257
66	Phase-locked alpha and theta oscillations generate the P1-N1 complex and are related to memory performance. <i>Cognitive Brain Research</i> , 2004 , 19, 302-16		242
65	The functional significance of theta and upper alpha oscillations. <i>Experimental Psychology</i> , 2005 , 52, 99-108		233
64	The role of band oscillations in temporal attention. <i>Brain Research Reviews</i> , 2011 , 67, 331-43		219
63	Event-related phase reorganization may explain evoked neural dynamics. <i>Neuroscience and Biobehavioral Reviews</i> , 2007 , 31, 1003-16	9	219
62	A short review of slow phase synchronization and memory: evidence for control processes in different memory systems?. <i>Brain Research</i> , 2008 , 1235, 31-44	3.7	194

61	Visual discrimination performance is related to decreased alpha amplitude but increased phase locking. <i>Neuroscience Letters</i> , 2005 , 375, 64-8	3.3	183
60	Alpha phase synchronization predicts P1 and N1 latency and amplitude size. <i>Cerebral Cortex</i> , 2005 , 15, 371-7	5.1	173
59	Cross-frequency phase synchronization: a brain mechanism of memory matching and attention. <i>NeuroImage</i> , 2008 , 40, 308-17	7.9	154
58	Theta coupling in the human electroencephalogram during a working memory task. <i>Neuroscience Letters</i> , 2004 , 354, 123-6	3.3	152
57	Upper alpha ERD and absolute power: their meaning for memory performance. <i>Progress in Brain Research</i> , 2006 , 159, 151-65	2.9	140
56	Alpha phase reset contributes to the generation of ERPs. <i>Cerebral Cortex</i> , 2007 , 17, 1-8	5.1	137
55	Evoked alpha and early access to the knowledge system: the P1 inhibition timing hypothesis. <i>Brain Research</i> , 2011 , 1408, 52-71	3.7	120
54	Oscillatory mechanisms of process binding in memory. <i>Neuroscience and Biobehavioral Reviews</i> , 2010 , 34, 1002-14	9	117
53	Instrumental conditioning of human sensorimotor rhythm (12-15 Hz) and its impact on sleep as well as declarative learning. <i>Sleep</i> , 2008 , 31, 1401-8	1.1	106
52	Alpha oscillations and early stages of visual encoding. <i>Frontiers in Psychology</i> , 2011 , 2, 118	3.4	88
51	State-dependent alpha peak frequency shifts: Experimental evidence, potential mechanisms and functional implications. <i>Neuroscience</i> , 2017 , 360, 146-154	3.9	85
50	Dissociation between phase-locked and nonphase-locked alpha oscillations in a working memory task. <i>Human Brain Mapping</i> , 2009 , 30, 3417-25	5.9	77
49	Long-Term Effects of Gestures on Memory for Foreign Language Words Trained in the Classroom. <i>Mind, Brain, and Education</i> , 2014 , 8, 74-88	1.8	74
48	Brain oscillatory correlates of working memory constraints. <i>Brain Research</i> , 2011 , 1375, 93-102	3.7	73
47	Alpha phase coupling reflects object recognition. <i>NeuroImage</i> , 2008 , 42, 928-35	7.9	73
46	P1 and traveling alpha waves: evidence for evoked oscillations. <i>Journal of Neurophysiology</i> , 2007 , 97, 1311-8	3.2	71
45	The functional significance of absolute power with respect to event-related desynchronization. <i>Brain Topography</i> , 1998 , 11, 133-40	4.3	68
44	High-frequency components in the alpha band and memory performance. <i>Journal of Clinical Neurophysiology</i> , 1998 , 15, 167-72	2.2	68

43	CRS-R score in disorders of consciousness is strongly related to spectral EEG at rest. <i>Journal of Neurology</i> , 2013 , 260, 2348-56	5.5	66
42	International Federation of Clinical Neurophysiology (IFCN) - EEG research workgroup: Recommendations on frequency and topographic analysis of resting state EEG rhythms. Part 1: Applications in clinical research studies. <i>Clinical Neurophysiology</i> , 2020 , 131, 285-307	4.3	64
41	Oscillatory correlates of intentional updating in episodic memory. <i>NeuroImage</i> , 2008 , 41, 596-604	7.9	60
40	Human frontal midline theta and its synchronization to gamma during a verbal delayed match to sample task. <i>Neurobiology of Learning and Memory</i> , 2010 , 93, 208-15	3.1	55
39	The frequency architecture of brain and brain body oscillations: an analysis. <i>European Journal of Neuroscience</i> , 2018 , 48, 2431-2453	3.5	55
38	Lifespan differences in cortical dynamics of auditory perception. <i>Developmental Science</i> , 2009 , 12, 839-53	3.5	54
37	Functional similarities between the P1 component and alpha oscillations. <i>European Journal of Neuroscience</i> , 2008 , 27, 2330-40	3.5	53
36	Resting state alpha frequency is associated with menstrual cycle phase, estradiol and use of oral contraceptives. <i>Brain Research</i> , 2014 , 1577, 36-44	3.7	46
35	Heartbeat-related EEG amplitude and phase modulations from wakefulness to deep sleep: Interactions with sleep spindles and slow oscillations. <i>Psychophysiology</i> , 2015 , 52, 1441-50	4.1	42
34	Distinguishing the evoked response from phase reset: a comment to Mäkinen et al. <i>NeuroImage</i> , 2006 , 29, 808-11	7.9	39
33	When frequencies never synchronize: the golden mean and the resting EEG. <i>Brain Research</i> , 2010 , 1335, 91-102	3.7	38
32	Evoked traveling alpha waves predict visual-semantic categorization-speed. <i>NeuroImage</i> , 2012 , 59, 3379-88	7.9	36
31	Alpha power dependent light stimulation: dynamics of event-related (de)synchronization in human electroencephalogram. <i>Cognitive Brain Research</i> , 2004 , 20, 256-60		32
30	An algorithm for the EEG frequency architecture of consciousness and brain body coupling. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 766	3.3	31
29	Alpha entrainment is responsible for the attentional blink phenomenon. <i>NeuroImage</i> , 2012 , 63, 674-86	7.9	30
28	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, 377-85	5.8	27
27	Alpha phase, temporal attention, and the generation of early event related potentials. <i>NeuroImage</i> , 2014 , 103, 119-129	7.9	25
26	Inter-individual performance differences in younger and older adults differentially relate to amplitude modulations and phase stability of oscillations controlling working memory contents. <i>NeuroImage</i> , 2012 , 60, 71-82	7.9	25

25	The functional relevance of phase reset: a comment to Risner et al. (2009): The visual evoked potential of surface alpha rhythm phase. <i>NeuroImage</i> , 2009 , 47, 5-7	7.9	24
24	Semantic memory: complexity or connectivity?. <i>Memory and Cognition</i> , 1992 , 20, 192-210	2.2	20
23	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	2	18
22	Gamma oscillatory activity in a visual discrimination task. <i>Brain Research Bulletin</i> , 2007 , 71, 593-600	3.9	17
21	Is there "neural efficiency" during the processing of visuo-spatial information in male humans? An EEG study. <i>Behavioural Brain Research</i> , 2009 , 205, 468-74	3.4	16
20	A connectivity model for semantic processing. <i>Psychological Research</i> , 1987 , 49, 53-61	2.5	14
19	Social Pavlovian conditioning: Short- and long-term effects and the role of anxiety and depressive symptoms. <i>Social Cognitive and Affective Neuroscience</i> , 2017 , 12, 329-339	4	13
18	Progesterone-associated increase in ERP amplitude correlates with an improvement in performance in a spatial attention paradigm. <i>Brain Research</i> , 2015 , 1595, 74-83	3.7	12
17	Oscillatory brain activity in vegetative and minimally conscious state during a sentence comprehension task. <i>Functional Neurology</i> , 2011 , 26, 31-6	2.2	10
16	"Switch-Off" of Respiratory Sinus Arrhythmia May Be Associated With the Activation of an Oscillatory Source (Pacemaker) in the Brain Stem. <i>Frontiers in Physiology</i> , 2019 , 10, 939	4.6	8
15	Lexical access and evoked traveling alpha waves. <i>NeuroImage</i> , 2014 , 91, 252-61	7.9	8
14	Verification of a Central Pacemaker in Brain Stem by Phase-Coupling Analysis Between HR Interval- and BOLD-Oscillations in the 0.10-0.15 Hz Frequency Band. <i>Frontiers in Neuroscience</i> , 2020 , 14, 922	5.1	8
13	How is dysfluent reading reflected in the ERP?. <i>Journal of Neurolinguistics</i> , 2005 , 18, 153-165	1.9	7
12	Prestimulus amplitudes modulate P1 latencies and evoked traveling alpha waves. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 302	3.3	6
11	Activation of long-term memory by alpha oscillations in a working-memory task?. <i>Behavioral and Brain Sciences</i> , 2003 , 26, 743-743	0.9	6
10	Sleep and memory consolidation: The role of electrophysiological neuroimaging. <i>Somnologie</i> , 2002 , 6, 54-62	2	4
9	: Brain Function and Oscillations, Vol. II: Integrative Brain Function. Neurophysiology and Cognitive Processes, edited by Erol Basar. <i>Trends in Cognitive Sciences</i> , 1999 , 3, 244	14	4
8	Coupling and Decoupling between Brain and Body Oscillations. <i>Neuroscience Letters</i> , 2019 , 711, 134401	3.3	3

7	Processing of fMRI-related anxiety and bi-directional information flow between prefrontal cortex and brain stem. <i>Scientific Reports</i> , 2021 , 11, 22348	4.9	3
6	The EEG frequency architecture, coupled oscillations and consciousness: Comment on 'Consciousness, biology and quantum hypotheses' by Baars and Edelman. <i>Physics of Life Reviews</i> , 2012 , 9, 295-6; discussion 306-7	2.1	2
5	Auditorily elicited EEG desynchronization and synchronization: A review of Christina M. Krause's doctoral thesis. <i>Scandinavian Journal of Psychology</i> , 1999 , 40, 329-331	2.2	2
4	EEG Theta, Memory, and Sleep 2003 , 149-165		1
3	Alpha power dependent light stimulation: dynamics of event-related (de)synchronization in human electroencephalogram. <i>Cognitive Brain Research</i> , 2004 , 20, 256-256		
2	The functional meaning of reverberations for sensoric and contextual encoding. <i>Behavioral and Brain Sciences</i> , 1995 , 18, 636-636	0.9	
1	Von der kognitiven zur biologischen Psychologie. <i>Zeitschrift Fuer Psychologie Mit Zeitschrift Fuer Angewandte Psychologie</i> , 2001 , 209, 17-33		