

Wolfgang Klimesch

List of Publications by Year in descending order

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79
papers

20,580
citations

53660

45
h-index

69108

77
g-index

81
all docs

81
docs citations

81
times ranked

13144
citing authors

#	ARTICLE	IF	CITATIONS
1	EEG alpha and theta oscillations reflect cognitive and memory performance: a review and analysis. <i>Brain Research Reviews</i> , 1999, 29, 169-195.	9.1	5,374
2	EEG alpha oscillations: The inhibition–timing hypothesis. <i>Brain Research Reviews</i> , 2007, 53, 63-88.	9.1	3,105
3	Alpha-band oscillations, attention, and controlled access to stored information. <i>Trends in Cognitive Sciences</i> , 2012, 16, 606-617.	4.0	2,196
4	Memory processes, brain oscillations and EEG synchronization. <i>International Journal of Psychophysiology</i> , 1996, 24, 61-100.	0.5	819
5	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.	0.5	661
6	Prestimulus oscillations predict visual perception performance between and within subjects. <i>NeuroImage</i> , 2007, 37, 1465-1473.	2.1	613
7	Brain Oscillatory Substrates of Visual Short-Term Memory Capacity. <i>Current Biology</i> , 2009, 19, 1846-1852.	1.8	606
8	What does phase information of oscillatory brain activity tell us about cognitive processes?. <i>Neuroscience and Biobehavioral Reviews</i> , 2008, 32, 1001-1013.	2.9	456
9	The Electrophysiological Dynamics of Interference during the Stroop Task. <i>Journal of Cognitive Neuroscience</i> , 2008, 20, 215-225.	1.1	399
10	EEG alpha synchronization and functional coupling during top-down processing in a working memory task. <i>Human Brain Mapping</i> , 2005, 26, 148-155.	1.9	389
11	Increasing Individual Upper Alpha Power by Neurofeedback Improves Cognitive Performance in Human Subjects. <i>Applied Psychophysiology Biofeedback</i> , 2005, 30, 1-10.	1.0	364
12	Enhancing cognitive performance with repetitive transcranial magnetic stimulation at human individual alpha frequency. <i>European Journal of Neuroscience</i> , 2003, 17, 1129-1133.	1.2	320
13	The role of alpha oscillations in temporal attention. <i>Brain Research Reviews</i> , 2011, 67, 331-343.	9.1	304
14	The Functional Significance of Theta and Upper Alpha Oscillations. <i>Experimental Psychology</i> , 2005, 52, 99-108.	0.3	294
15	Phase-locked alpha and theta oscillations generate the P1–N1 complex and are related to memory performance. <i>Cognitive Brain Research</i> , 2004, 19, 302-316.	3.3	281
16	Event-related phase reorganization may explain evoked neural dynamics. <i>Neuroscience and Biobehavioral Reviews</i> , 2007, 31, 1003-1016.	2.9	264
17	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.	1.1	226
18	Visual discrimination performance is related to decreased alpha amplitude but increased phase locking. <i>Neuroscience Letters</i> , 2005, 375, 64-68.	1.0	220

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19	Alpha Phase Synchronization Predicts P1 and N1 Latency and Amplitude Size. <i>Cerebral Cortex</i> , 2005, 15, 371-377.	1.6	196
20	Theta coupling in the human electroencephalogram during a working memory task. <i>Neuroscience Letters</i> , 2004, 354, 123-126.	1.0	190
21	Cross-frequency phase synchronization: A brain mechanism of memory matching and attention. <i>NeuroImage</i> , 2008, 40, 308-317.	2.1	179
22	Upper alpha ERD and absolute power: their meaning for memory performance. <i>Progress in Brain Research</i> , 2006, 159, 151-165.	0.9	177
23	Alpha Phase Reset Contributes to the Generation of ERPs. <i>Cerebral Cortex</i> , 2006, 17, 1-8.	1.6	166
24	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.	0.7	164
25	State-dependent alpha peak frequency shifts: Experimental evidence, potential mechanisms and functional implications. <i>Neuroscience</i> , 2017, 360, 146-154.	1.1	163
26	Evoked alpha and early access to the knowledge system: The P1 inhibition timing hypothesis. <i>Brain Research</i> , 2011, 1408, 52-71.	1.1	160
27	Oscillatory mechanisms of process binding in memory. <i>Neuroscience and Biobehavioral Reviews</i> , 2010, 34, 1002-1014.	2.9	139
28	The frequency architecture of brain and brain body oscillations: an analysis. <i>European Journal of Neuroscience</i> , 2018, 48, 2431-2453.	1.2	122
29	Alpha Oscillations and Early Stages of Visual Encoding. <i>Frontiers in Psychology</i> , 2011, 2, 118.	1.1	114
30	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.	0.6	108
31	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.	0.9	105
32	CRS-R score in disorders of consciousness is strongly related to spectral EEG at rest. <i>Journal of Neurology</i> , 2013, 260, 2348-2356.	1.8	102
33	Brain oscillatory correlates of working memory constraints. <i>Brain Research</i> , 2011, 1375, 93-102.	1.1	93
34	Alpha phase coupling reflects object recognition. <i>NeuroImage</i> , 2008, 42, 928-935.	2.1	85
35	Dissociation between phase-locked and nonphase-locked alpha oscillations in a working memory task. <i>Human Brain Mapping</i> , 2009, 30, 3417-3425.	1.9	85
36	P1 and Traveling Alpha Waves: Evidence for Evoked Oscillations. <i>Journal of Neurophysiology</i> , 2007, 97, 1311-1318.	0.9	84

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37	High-Frequency Components in the Alpha Band and Memory Performance. <i>Journal of Clinical Neurophysiology</i> , 1998, 15, 167-172.	0.9	81
38	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, 208-215.	1.0	74
39	The functional significance of absolute power with respect to event-related desynchronization. <i>Brain Topography</i> , 1998, 11, 133-140.	0.8	73
40	Oscillatory correlates of intentional updating in episodic memory. <i>NeuroImage</i> , 2008, 41, 596-604.	2.1	73
41	When frequencies never synchronize: The golden mean and the resting EEG. <i>Brain Research</i> , 2010, 1335, 91-102.	1.1	67
42	Resting state alpha frequency is associated with menstrual cycle phase, estradiol and use of oral contraceptives. <i>Brain Research</i> , 2014, 1577, 36-44.	1.1	66
43	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
44	Lifespan differences in cortical dynamics of auditory perception. <i>Developmental Science</i> , 2009, 12, 839-853.	1.3	59
45	Functional similarities between the P1 component and alpha oscillations. <i>European Journal of Neuroscience</i> , 2008, 27, 2330-2340.	1.2	58
46	An algorithm for the EEG frequency architecture of consciousness and brain body coupling. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 766.	1.0	50
47	Evoked traveling alpha waves predict visual-semantic categorization-speed. <i>NeuroImage</i> , 2012, 59, 3379-3388.	2.1	47
48	Alpha entrainment is responsible for the attentional blink phenomenon. <i>NeuroImage</i> , 2012, 63, 674-686.	2.1	45
49	Distinguishing the evoked response from phase reset: A comment to MÄäkinen et al.. <i>NeuroImage</i> , 2006, 29, 808-811.	2.1	41
50	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
51	Alpha power dependent light stimulation: dynamics of event-related (de)synchronization in human electroencephalogram. <i>Cognitive Brain Research</i> , 2004, 20, 256-260.	3.3	36
52	Alpha phase, temporal attention, and the generation of early event related potentials. <i>NeuroImage</i> , 2014, 103, 119-129.	2.1	32
53	The functional relevance of phase reset. <i>NeuroImage</i> , 2009, 47, 5-7.	2.1	29
54	Title is missing!. <i>Trends in Cognitive Sciences</i> , 1999, 3, 244.	4.0	28

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55	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.	2.1	28
56	Semantic memory: Complexity or connectivity?. <i>Memory and Cognition</i> , 1992, 20, 192-210.	0.9	26
57	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
58	A connectivity model for semantic processing. <i>Psychological Research</i> , 1987, 49, 53-61.	1.0	19
59	Gamma oscillatory activity in a visual discrimination task. <i>Brain Research Bulletin</i> , 2007, 71, 593-600.	1.4	19
60	Is there "neural efficiency" during the processing of visuo-spatial information in male humans? An EEG study. <i>Behavioural Brain Research</i> , 2009, 205, 468-474.	1.2	18
61	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.	1.1	18
62	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.	1.5	18
63	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.	1.4	18
64	Coupling and Decoupling between Brain and Body Oscillations. <i>Neuroscience Letters</i> , 2019, 711, 134401.	1.0	15
65	Lexical access and evoked traveling alpha waves. <i>NeuroImage</i> , 2014, 91, 252-261.	2.1	14
66	"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.	1.3	14
67	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
68	Processing of fMRI-related anxiety and bi-directional information flow between prefrontal cortex and brain stem. <i>Scientific Reports</i> , 2021, 11, 22348.	1.6	10
69	Prestimulus amplitudes modulate P1 latencies and evoked traveling alpha waves. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 302.	1.0	9
70	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
71	How is dysfluent reading reflected in the ERP?. <i>Journal of Neurolinguistics</i> , 2005, 18, 153-165.	0.5	8
72	Activation of long-term memory by alpha oscillations in a working-memory task?. <i>Behavioral and Brain Sciences</i> , 2003, 26, 743-743.	0.4	7

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73	Processing of fMRI-related anxiety and information flow between brain and body revealed a preponderance of oscillations at 0.15/0.16ÅHz. Scientific Reports, 2022, 12, .	1.6	6
74	Sleep and Memory Consolidation: The Role of Electrophysiological Neuroimaging. Schlaf und Gedachtniskonsolidierung: Welchen Beitrag kann elektrophysiologisches Neuroimaging liefern?. Somnologie, 2002, 6, 54-62.	0.9	5
75	Auditorily elicited EEG desynchronization and synchronization: A review of Christina M. Krauseâ€™s doctoral thesis. Scandinavian Journal of Psychology, 1999, 40, 329-331.	0.8	2
76	The EEG frequency architecture, coupled oscillations and consciousness. Physics of Life Reviews, 2012, 9, 295-296.	1.5	2
77	EEG Theta, Memory, and Sleep. , 2003, , 149-165.		2
78	Alpha power dependent light stimulation: dynamics of event-related (de)synchronization in human electroencephalogram. Cognitive Brain Research, 2004, 20, 256-256.	3.3	1
79	The functional meaning of reverberations for sensoric and contextual encoding. Behavioral and Brain Sciences, 1995, 18, 636-636.	0.4	0