Edmund Wascher

List of Publications by Year
in descending order

143 papers	5,424 citations	81900 39 h-index	110387 64 g-index
159 all docs	159 docs citations	159 times ranked	4488 citing authors

#	Article	IF	Citations
1	Neuroergonomics on the Go: An Evaluation of the Potential of Mobile EEG for Workplace Assessment and Design. Human Factors, 2023, 65, 86-106.	3.5	21
2	Frontal and parietal EEG alpha asymmetry: a large-scale investigation of short-term reliability on distinct EEG systems. Brain Structure and Function, 2022, 227, 725-740.	2.3	22
3	Impact of Biological and Lifestyle Factors on Cognitive Aging and Work Ability in the Dortmund Vital Study: Protocol of an Interdisciplinary, Cross-sectional, and Longitudinal Study. JMIR Research Protocols, 2022, 11, e32352.	1.0	18
4	Stress effects on the top-down control of visuospatial attention: Evidence from cue-dependent alpha oscillations. Cognitive, Affective and Behavioral Neuroscience, 2022, , 1.	2.0	1
5	When long appears short: Effects of auditory distraction on eventâ€related potential correlates of time perception. European Journal of Neuroscience, 2022, 55, 121-137.	2.6	2
6	Did you even see that? visual sensory processing of single stimuli under different locomotor loads. PLoS ONE, 2022, 17, e0267896.	2.5	2
7	Visual Demands of Walking Are Reflected in Eye-Blink-Evoked EEG-Activity. Applied Sciences (Switzerland), 2022, 12, 6614.	2.5	7
8	Mental chronometry in big noisy data. PLoS ONE, 2022, 17, e0268916.	2.5	7
9	Preparing for the unknown: How working memory provides a link between perception and anticipated action. NeuroImage, 2022, 260, 119466.	4.2	6
10	Cognitiveâ€motor interference in the wild: Assessing the effects of movement complexity on task switching using mobile EEG. European Journal of Neuroscience, 2021, 54, 8175-8195.	2.6	31
11	Boosting working memory with accelerated clocks. NeuroImage, 2021, 226, 117601.	4.2	2
12	Don't stop me now: Hampered retrieval of action plans following interruptions. Psychophysiology, 2021, 58, e13725.	2.4	8
13	Inverse effects of timeâ€onâ€task in taskâ€related and taskâ€unrelated theta activity. Psychophysiology, 2021, 58, e13805.	2.4	20
14	Distraction in the Driving Simulator: An Event-Related Potential (ERP) Study with Young, Middle-Aged, and Older Drivers. Safety, 2021, 7, 36.	1.7	9
15	Contribution to the ongoing discussion on fluoride toxicity. Archives of Toxicology, 2021, 95, 2571-2587.	4.2	12
16	Do congruent lip movements facilitate speech processing in a dynamic audiovisual multi-talker scenario? An ERP study with older and younger adults. Behavioural Brain Research, 2021, 412, 113436.	2.2	14
17	Measuring Correlates of Mental Workload During Simulated Driving Using cEEGrid Electrodes: A Testâ€"Retest Reliability Analysis. Frontiers in Neuroergonomics, 2021, 2, .	1.1	6
18	Decoding of cognitive processes involved in the continuous performance task. International Journal of Psychophysiology, 2021, 167, 57-68.	1.0	6

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19	Time Hurries on but Does not Fly in Older Age â€" No Effect of Depressive Symptoms. Timing and Time Perception, 2021, 9, 241-256.	0.6	3
20	Stroop task performance across the lifespan: High cognitive reserve in older age is associated with enhanced proactive and reactive interference control. NeuroImage, 2020, 207, 116430.	4.2	35
21	The ability of young, middle-aged and older drivers to inhibit visual and auditory distraction in a driving simulator task. Transportation Research Part F: Traffic Psychology and Behaviour, 2020, 68, 272-284.	3.7	36
22	EEG correlates of spatial shifts of attention in a dynamic multi-talker speech perception scenario in younger and older adults. Hearing Research, 2020, 398, 108077.	2.0	17
23	Unmasking selective path integration deficits in Alzheimerâ€™s disease risk carriers. Science Advances, 2020, 6, eaba1394.	10.3	55
24	Toxicity of fluoride: critical evaluation of evidence for human developmental neurotoxicity in epidemiological studies, animal experiments and in vitro analyses. Archives of Toxicology, 2020, 94, 1375-1415.	4.2	109
25	No effect of target probability on P3b amplitudes. International Journal of Psychophysiology, 2020, 153, 107-115.	1.0	3
26	The spatial orienting of the focus of attention in working memory makes use of inhibition: Evidence by hemispheric asymmetries in posterior alpha oscillations. Neuropsychologia, 2020, 142, 107442.	1.6	19
27	Disentangling sensorimotor and cognitive cardioafferent effects: A cardiac-cycle-time study on spatial stimulus-response compatibility. Scientific Reports, 2020, 10, 4059.	3.3	8
28	Unraveling the Relation between EEG Correlates of Attentional Orienting and Sound Localization Performance: A Diffusion Model Approach. Journal of Cognitive Neuroscience, 2020, 32, 945-962.	2.3	12
29	Encoding, storage, and response preparationâ€"Distinct EEG correlates of stimulus and action representations in working memory. Psychophysiology, 2020, 57, e13577.	2.4	9
30	Differential Effects of Interruptions and Distractions on Working Memory Processes in an ERP Study. Frontiers in Human Neuroscience, 2020, 14, 84.	2.0	16
31	Interâ€trial alpha power indicates mind wandering. Psychophysiology, 2020, 57, e13581.	2.4	56
32	Spatiotemporal Processing of Bimodal Odor Lateralization in the Brain Using Electroencephalography Microstates and Source Localization. Frontiers in Neuroscience, 2020, 14, 620723.	2.8	4
33	Multidomain Cognitive Training Transfers to Attentional and Executive Functions in Healthy Older Adults. Frontiers in Human Neuroscience, 2020, 14, 586963.	2.0	10
34	Feature Overlap and Relevance Determine Sequential Modulations in the Simon Task. Journal of Psychophysiology, 2020, 34, 81-98.	0.7	0
35	Evaluating Mental Load During Realistic Driving Simulations by Means of Round the Ear Electrodes. Frontiers in Neuroscience, 2019, 13, 940.	2.8	27
36	Recording mobile EEG in an outdoor environment reveals cognitive-motor interference dependent on movement complexity. Scientific Reports, 2019, 9, 13086.	3.3	54

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37	Age-related differences in reallocating cognitive resources when dealing with interruptions. NeuroImage, 2019, 191, 292-302.	4.2	15
38	Hemispheric asymmetries in EEG alpha oscillations indicate active inhibition during attentional orienting within working memory. Behavioural Brain Research, 2019, 359, 38-46.	2.2	55
39	Eye blinks are related to auditory information processing: evidence from a complex speech perception task. Psychological Research, 2019, 83, 1281-1291.	1.7	14
40	The role of inhibition for working memory processes: ERP evidence from a shortâ€term storage task. Psychophysiology, 2018, 55, e13026.	2.4	33
41	Effects of Visual and Acoustic Distraction on Driving Behavior and EEG in Young and Older Car Drivers: A Driving Simulation Study. Frontiers in Aging Neuroscience, 2018, 10, 420.	3.4	29
42	What Does the n-Back Task Measure as We Get Older? Relations Between Working-Memory Measures and Other Cognitive Functions Across the Lifespan. Frontiers in Psychology, 2018, 9, 2208.	2.1	89
43	The contribution of selective spatial attention to sound detection and sound localization: Evidence from event-related potentials and lateralized alpha oscillations. Biological Psychology, 2018, 138, 133-145.	2.2	30
44	Searching for auditory targets in external space and in working memory: Electrophysiological mechanisms underlying perceptual and retroactive spatial attention. Behavioural Brain Research, 2018, 353, 98-107.	2.2	21
45	Cognitions about time affect perception, behavior, and physiology â€“ A review on effects of external clock-speed manipulations. Consciousness and Cognition, 2018, 63, 99-109.	1.5	16
46	Age-Related Differences in Pro-active Driving Behavior Revealed by EEG Measures. Frontiers in Human Neuroscience, 2018, 12, 321.	2.0	24
47	Evaluating Pro- and Re-Active Driving Behavior by Means of the EEG. Frontiers in Human Neuroscience, 2018, 12, 205.	2.0	16
48	Proactive vs. reactive car driving: EEG evidence for different driving strategies of older drivers. PLoS ONE, 2018, 13, e0191500.	2.5	20
49	Compliance instead of flexibility? On age-related differences in cognitive control during visual search. Neurobiology of Aging, 2017, 53, 169-180.	3.1	18
50	The interconnection of mental fatigue and aging: An EEG study. International Journal of Psychophysiology, 2017, 117, 17-25.	1.0	49
51	On the neural mechanisms underlying the protective function of retroactive cuing against perceptual interference: Evidence by event-related potentials of the EEG. Biological Psychology, 2017, 124, 47-56.	2.2	31
52	On the contribution of motor planning to the retroactive cuing benefit in working memory: Evidence by mu and beta oscillatory activity in the EEG. NeuroImage, 2017, 162, 73-85.	4.2	52
53	Visually guided auditory attention in a dynamic â€œcocktail-partyâ€•speech perception task: ERP evidence for age-related differences. Hearing Research, 2017, 344, 98-108.	2.0	13
54	Sequential Modulations in a Combined Horizontal and Vertical Simon Task: Is There ERP Evidence for Feature Integration Effects?. Frontiers in Psychology, 2017, 8, 1094.	2.1	10

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55	Concealed Around-the-Ear EEG Captures Cognitive Processing in a Visual Simon Task. Frontiers in Human Neuroscience, 2017, 11, 290.	2.0	27
56	From Capture to Inhibition: How does Irrelevant Information Influence Visual Search? Evidence from a Spatial Cuing Paradigm. Frontiers in Human Neuroscience, 2016, 10, 232.	2.0	18
57	Classifying Response Correctness across Different Task Sets: A Machine Learning Approach. PLoS ONE, 2016, 11, e0152864.	2.5	14
58	The time course of visuo-spatial working memory updating revealed by a retro-cuing paradigm. Scientific Reports, 2016, 6, 21442.	3.3	49
59	The impact of simulated MRI scanner background noise on visual attention processes as measured by the EEG. Scientific Reports, 2016, 6, 28371.	3.3	7
60	Driver state examinationâ€"Treading new paths. Accident Analysis and Prevention, 2016, 91, 157-165.	5.7	37
61	Focused and divided attention in a simulated cocktail-party situation: ERP evidence from younger and older adults. Neurobiology of Aging, 2016, 41, 138-149.	3.1	36
62	Postdeviance distraction in younger and older adults: Neuro-behavioral evidence from speech perception.. Psychology and Aging, 2016, 31, 943-957.	1.6	6
63	The Effects of Time on Task in Response Selection - An ERP Study of Mental Fatigue. Scientific Reports, 2015, 5, 10113.	3.3	101
64	Does response selection contribute to inhibition of return?. Psychophysiology, 2015, 52, 942-950.	2.4	7
65	Effects of age on electrophysiological correlates of speech processing in a dynamic â€œcocktail-partyâ€• situation. Frontiers in Neuroscience, 2015, 9, 341.	2.8	26
66	What does successful speech-in-noise perception in aging depend on? Electrophysiological correlates of high and low performance in older adults. Neuropsychologia, 2015, 70, 43-57.	1.6	28
67	On the fate of non-cued mental representations in visuo-spatial working memory: Evidence by a retro-cuing paradigm. Behavioural Brain Research, 2015, 293, 114-124.	2.2	33
68	Simon effects in change detection and change blindness. Psychological Research, 2015, 79, 1022-1033.	1.7	1
69	Neurobehavioral and neurophysiological effects after acute exposure to a single peak of 200 ppm toluene in healthy volunteers. NeuroToxicology, 2015, 48, 50-59.	3.0	22
70	Body Sway as a Possible Indicator of Fatigue in Clerical Workers. Safety and Health at Work, 2015, 6, 206-210.	0.6	10
71	ERP correlates of auditory goal-directed behavior of younger and older adults in a dynamic speech perception task. Behavioural Brain Research, 2015, 278, 435-445.	2.2	26
72	Age-Sensitive Effects of Enduring Work with Alternating Cognitive and Physical Load. A Study Applying Mobile EEG in a Real Life Working Scenario. Frontiers in Human Neuroscience, 2015, 9, 711.	2.0	28

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73	Eye-blinks in choice response tasks uncover hidden aspects of information processing. EXCLI Journal, 2015, 14, 1207-18.	0.7	32
74	Sustained posterior contralateral activity indicates re-entrant target processing in visual change detection: an EEG study. Frontiers in Human Neuroscience, 2014, 8, 247.	2.0	20
75	Crosslinking EEG timeâ€“frequency decomposition and fMRI in error monitoring. Brain Structure and Function, 2014, 219, 595-605.	2.3	41
76	Frontal theta activity reflects distinct aspects of mental fatigue. Biological Psychology, 2014, 96, 57-65.	2.2	289
77	Towards the measurement of event-related EEG activity in real-life working environments. International Journal of Psychophysiology, 2014, 91, 3-9.	1.0	71
78	The influence of acute stress on attention mechanisms and its electrophysiological correlates. Frontiers in Behavioral Neuroscience, 2014, 8, 353.	2.0	139
79	Rapid Mental Fatigue Amplifies Age-Related Attentional Deficits. Journal of Psychophysiology, 2014, 28, 215-224.	0.7	16
80	Mechanisms of target localization in visual change detection: An interplay of gating and filtering. Behavioural Brain Research, 2013, 256, 311-319.	2.2	15
81	Differential Effects of Motor Efference Copies and Proprioceptive Information on Response Evaluation Processes. PLoS ONE, 2013, 8, e62335.	2.5	42
82	Distinct neural processes in graphemeâ€“colour synaesthetes and semantic controls. European Journal of Neuroscience, 2012, 36, 3593-3601.	2.6	8
83	On the time course of bottomâ€up and topâ€down processes in selective visual attention: An <scp>EEG</scp> study. Psychophysiology, 2012, 49, 1660-1671.	2.4	46
84	When compensation fails: Attentional deficits in healthy ageing caused by visual distraction. Neuropsychologia, 2012, 50, 3185-3192.	1.6	44
85	When control fails: Influence of the prefrontal but not striatal dopaminergic system on behavioural flexibility in a change detection task. Neuropharmacology, 2012, 62, 1028-1033.	4.1	20
86	Spatial cueing modulates the monitoring of correct responses. Neuroscience Letters, 2012, 506, 225-228.	2.1	7
87	Faster Perceptual Learning through Excitotoxic Neurodegeneration. Current Biology, 2012, 22, 1914-1917.	3.9	33
88	Neural Correlates of Individual Performance Differences in Resolving Perceptual Conflict. PLoS ONE, 2012, 7, e42849.	2.5	12
89	Attentional Capture by Irrelevant Transients Leads to Perceptual Errors in a Competitive Change Detection Task. Frontiers in Psychology, 2012, 3, 164.	2.1	13
90	Personality and error monitoring: an update. Frontiers in Human Neuroscience, 2012, 6, 171.	2.0	17

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91	Sex Differences in Competition-Based Attentional Selection. Zeitschrift Fur Psychologie / Journal of Psychology, 2012, 220, 90-97.	1.0	5
92	The influence of extrinsic motivation on competition-based selection. Behavioural Brain Research, 2011, 224, 58-64.	2.2	27
93	Age related strategic differences in processing irrelevant information. Neuroscience Letters, 2011, 487, 66-69.	2.1	28
94	Improvement and Impairment of Visually Guided Behavior through LTP- and LTD-like Exposure-Based Visual Learning. Current Biology, 2011, 21, 876-882.	3.9	97
95	Tuning Perceptual Competition. Journal of Neurophysiology, 2010, 103, 1057-1065.	1.8	64
96	Spatial Representations as an Emergent Feature of Perceptual Processing. Journal of Psychophysiology, 2010, 24, 161-172.	0.7	17
97	The effect of mirrored visual feedback on the EEG correlates of pointing direction. Journal of Vision, 2010, 1, 318-318.	0.3	0
98	Visuoâ€spatial processing and the N1 component of the ERP. Psychophysiology, 2009, 46, 1270-1277.	2.4	66
99	The N2pc as an Electrophysiological Correlate of Attention in Change Blindness. Journal of Psychophysiology, 2009, 23, 43-51.	0.7	3
100	A Function Based Approach towards Adaptive Interfaces for Elderly Users. Lecture Notes in Computer Science, 2009, , 304-311.	1.3	0
101	Unvoluntary attentional capture in change blindness. Psychophysiology, 2008, 45, 742-750.	2.4	14
102	Lost in information. On the processing of irrelevant signals in normal ageing. Nature Precedings, 2008, , .	0.1	0
103	Response coding and visuomotor transformation in the Simon task: The role of action goals.. Journal of Experimental Psychology: Human Perception and Performance, 2007, 33, 1269-1282.	0.9	29
104	Localization of temporal preparation effects via trisected reaction time. Psychophysiology, 2007, 44, 334-338.	2.4	57
105	Electrophysiological correlates of stimulus processing in change blindness. Experimental Brain Research, 2007, 183, 95-105.	1.5	43
106	The Simon effect for vertical Sâ€“R relations: changing the mechanism by randomly varying the Sâ€“R mapping rule?. Psychological Research, 2007, 71, 219-233.	1.7	43
107	Response coding in the Simon task. Psychological Research, 2007, 71, 401-410.	1.7	37
108	Twin Peaks: An ERP Study of Action Planning and Control in Coacting Individuals. Journal of Cognitive Neuroscience, 2006, 18, 859-870.	2.3	197

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109	Intentional pre-cueing does not influence the Simon effect. Psychological Research, 2006, 70, 117-124.	1.7	3
110	Differences Between Intention-Based and Stimulus-Based Actions. Journal of Psychophysiology, 2006, 20, 9-20.	0.7	40
111	Intention-based and stimulus-based mechanisms in action selection. Experimental Brain Research, 2005, 162, 346-356.	1.5	126
112	The timing of stimulus localisation and the Simon effect: an ERP study. Experimental Brain Research, 2005, 163, 430-439.	1.5	17
113	Evidence for an Integrative Role of P3b in Linking Reaction to Perception. Journal of Psychophysiology, 2005, 19, 165-181.	0.7	492
114	The Posterior Contralateral Negativity as a Temporal Indicator of Visuo-Spatial Processing. Journal of Psychophysiology, 2005, 19, 182-194.	0.7	33
115	Dynamic Aspects of Stimulus-Response Correspondence: Evidence for Two Mechanisms Involved in the Simon Effect.. Journal of Experimental Psychology: Human Perception and Performance, 2005, 31, 453-464.	0.9	124
116	Effects of rearranged vision on event-related lateralizations of the EEG during pointing. Biological Psychology, 2005, 68, 15-39.	2.2	7
117	Revealing effects of noninformative spatial cues: An EEG study of inhibition of return. Psychophysiology, 2004, 41, 716-728.	2.4	63
118	On the role of the cerebellum in exploiting temporal contingencies: evidence from response times and preparatory EEG potentials in patients with cerebellar atrophy. Neuropsychologia, 2004, 42, 754-763.	1.6	18
119	Attentional and intentional cueing in a Simon task: An EEG-based approach. Psychological Research, 2004, 68, 18-30.	1.7	22
120	Effects of rearranged vision on event-related lateralizations of the EEG during pointing. Biological Psychology, 2004, 68, 15-15.	2.2	0
121	Visual search strategies are indexed by event-related lateralizations of the EEG. Biological Psychology, 2003, 63, 79-100.	2.2	23
122	Effects of pointing direction and direction predictability on event-related lateralizations of the EEG. Human Movement Science, 2002, 21, 75-98.	1.4	20
123	Validity and boundary conditions of automatic response activation in the Simon task.. Journal of Experimental Psychology: Human Perception and Performance, 2001, 27, 731-751.	0.9	156
124	ERP correlates of associative learning. Psychophysiology, 2001, 38, 440-450.	2.4	31
125	ERP correlates of associative learning. Psychophysiology, 2001, 38, 440-450.	2.4	1
126	Validity and boundary conditions of automatic response activation in the Simon task.. Journal of Experimental Psychology: Human Perception and Performance, 2001, 27, 731-751.	0.9	109

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127	The influence of time pressure and cue validity on response force in an S1-S2 paradigm. Acta Psychologica, 2000, 105, 89-105.	1.5	34
128	Lateralized EEG components with direction information for the preparation of saccades versus finger movements. Experimental Brain Research, 2000, 132, 163-178.	1.5	52
129	Dimensional overlap between arrows as cueing stimuli and responses?. Cognitive Brain Research, 2000, 10, 99-109.	3.0	52
130	CNV and temporal uncertainty with â€˜ageingâ€™ and â€˜non-ageingâ€™ S1â€“S2 intervals. Clinical Neurophysiology, 2000, 111, 1216-1226.	1.5	117
131	Spatial S-R Compatibility with Centrally Presented Stimuli: An Event-Related Asymmetry Study on Dimensional Overlap. Journal of Cognitive Neuroscience, 1999, 11, 214-229.	2.3	52
132	Consequences of altered cerebellar input for the cortical regulation of motor coordination, as reflected in EEG potentials. Experimental Brain Research, 1999, 127, 409-422.	1.5	26
133	Slow EEG potentials (contingent negative variation and post-imperative negative variation) in schizophrenia: their association to the present state and to Parkinsonian medication effects. Clinical Neurophysiology, 1999, 110, 1175-1192.	1.5	48
134	Lateralized Human Cortical Activity for Shifting Visuospatial Attention and Initiating Saccades. Journal of Neurophysiology, 1998, 80, 2900-2910.	1.8	62
135	Responses to cued signals in Parkinson's disease. Distinguishing between disorders of cognition and of activation. Brain, 1997, 120, 1355-1375.	7.6	52
136	Lateralised cortical activity due to preparation of saccades and finger movements: a comparative study. Electroencephalography and Clinical Neurophysiology, 1997, 102, 114-124.	0.3	45
137	Shifting attention between global features and small details: an event-related potential study. Biological Psychology, 1997, 46, 25-50.	2.2	29
138	The interaction of stimulus- and response-related processes measured by event-related lateralizations of the EEG. Electroencephalography and Clinical Neurophysiology, 1996, 99, 149-162.	0.3	143
139	On-line brain potential correlates of right parietal patients' attentional deficit. Electroencephalography and Clinical Neurophysiology, 1996, 99, 444-457.	0.3	43
140	Preparation for action: An ERP study about two tasks provoking variability in response speed. Psychophysiology, 1996, 33, 262-272.	2.4	39
141	Differences in P3 Amplitudes between Schizophrenics and Healthy Controls Vary between the Different Events Presented in a Guessing Task. Neuropsychobiology, 1994, 30, 114-123.	1.9	5
142	Auditory selective attention is impaired in Parkinson's disease â€” event-related evidence from EEG potentials. Cognitive Brain Research, 1994, 2, 117-129.	3.0	49
143	EEG Source Localization for Brain-Computer-Interfaces. , 0, , .		12