

Markus Ullsperger

List of Publications by Citations

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103
papers

11,293
citations

47
h-index

106
g-index

113
ext. papers

12,545
ext. citations

8.1
avg, IF

6.54
L-index

#	Paper	IF	Citations
103	The role of the medial frontal cortex in cognitive control. <i>Science</i> , 2004 , 306, 443-7	33.3	2231
102	Trial-by-trial coupling of concurrent electroencephalogram and functional magnetic resonance imaging identifies the dynamics of performance monitoring. <i>Journal of Neuroscience</i> , 2005 , 25, 11730-7	6.6	847
101	Subprocesses of performance monitoring: a dissociation of error processing and response competition revealed by event-related fMRI and ERPs. <i>NeuroImage</i> , 2001 , 14, 1387-401	7.9	527
100	Error monitoring using external feedback: specific roles of the habenular complex, the reward system, and the cingulate motor area revealed by functional magnetic resonance imaging. <i>Journal of Neuroscience</i> , 2003 , 23, 4308-14	6.6	407
99	Neurophysiology of performance monitoring and adaptive behavior. <i>Physiological Reviews</i> , 2014 , 94, 35-79	47.9	361
98	Prediction of human errors by maladaptive changes in event-related brain networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6173-8	11.5	354
97	Genetically determined differences in learning from errors. <i>Science</i> , 2007 , 318, 1642-5	33.3	335
96	Conscious perception of errors and its relation to the anterior insula. <i>Brain Structure and Function</i> , 2010 , 214, 629-43	4	326
95	Neural correlates of error awareness. <i>NeuroImage</i> , 2007 , 34, 1774-81	7.9	314
94	Single-trial EEG-fMRI reveals the dynamics of cognitive function. <i>Trends in Cognitive Sciences</i> , 2006 , 10, 558-63	14	311
93	Post-error adjustments. <i>Frontiers in Psychology</i> , 2011 , 2, 233	3.4	267
92	Neural mechanisms and temporal dynamics of performance monitoring. <i>Trends in Cognitive Sciences</i> , 2014 , 18, 259-67	14	260
91	The conflict adaptation effect: it's not just priming. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2005 , 5, 467-72	3.5	249
90	Who comes first? The role of the prefrontal and parietal cortex in cognitive control. <i>Journal of Cognitive Neuroscience</i> , 2005 , 17, 1367-75	3.1	204
89	Dopamine-mediated reinforcement learning signals in the striatum and ventromedial prefrontal cortex underlie value-based choices. <i>Journal of Neuroscience</i> , 2011 , 31, 1606-13	6.6	193
88	Surprise and error: common neuronal architecture for the processing of errors and novelty. <i>Journal of Neuroscience</i> , 2012 , 32, 7528-37	6.6	188
87	Posterior medial frontal cortex activity predicts post-error adaptations in task-related visual and motor areas. <i>Journal of Neuroscience</i> , 2011 , 31, 1780-9	6.6	186

86	Neuroimaging of performance monitoring: error detection and beyond. <i>Cortex</i> , 2004 , 40, 593-604	3.8	168
85	Post-error behavioral adjustments are facilitated by activation and suppression of task-relevant and task-irrelevant information processing. <i>Journal of Neuroscience</i> , 2010 , 30, 12759-69	6.6	149
84	Error awareness revisited: accumulation of multimodal evidence from central and autonomic nervous systems. <i>Journal of Cognitive Neuroscience</i> , 2011 , 23, 3021-36	3.1	147
83	Deep brain stimulation of the nucleus basalis of Meynert in Alzheimer's dementia. <i>Molecular Psychiatry</i> , 2015 , 20, 353-60	15.1	145
82	Dopamine DRD2 polymorphism alters reversal learning and associated neural activity. <i>Journal of Neuroscience</i> , 2009 , 29, 3695-704	6.6	139
81	The role of intact frontostriatal circuits in error processing. <i>Journal of Cognitive Neuroscience</i> , 2006 , 18, 651-64	3.1	138
80	Neuropharmacology of performance monitoring. <i>Neuroscience and Biobehavioral Reviews</i> , 2009 , 33, 48-60		135
79	Error awareness and the insula: links to neurological and psychiatric diseases. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 14	3.3	134
78	Dissociable medial frontal negativities from a common monitoring system for self- and externally caused failure of goal achievement. <i>NeuroImage</i> , 2009 , 47, 2023-30	7.9	124
77	Modulation of the error-related negativity by response conflict. <i>Psychophysiology</i> , 2009 , 46, 1288-98	4.1	114
76	Real and fictive outcomes are processed differently but converge on a common adaptive mechanism. <i>Neuron</i> , 2013 , 79, 1243-55	13.9	112
75	When errors are rewarding. <i>Journal of Neuroscience</i> , 2009 , 29, 12183-6	6.6	107
74	Successful deep brain stimulation of the nucleus accumbens in severe alcohol dependence is associated with changed performance monitoring. <i>Addiction Biology</i> , 2011 , 16, 620-3	4.6	104
73	Electrophysiological correlates of error correction. <i>Psychophysiology</i> , 2005 , 42, 72-82	4.1	100
72	An electrophysiological test of directed forgetting: the role of retrieval inhibition. <i>Journal of Cognitive Neuroscience</i> , 2000 , 12, 924-40	3.1	95
71	Adaptive coding of action values in the human rostral cingulate zone. <i>Journal of Neuroscience</i> , 2009 , 29, 7489-96	6.6	90
70	Specificity of performance monitoring changes in obsessive-compulsive disorder. <i>Neuroscience and Biobehavioral Reviews</i> , 2014 , 46 Pt 1, 124-38	9	88
69	Interactions of focal cortical lesions with error processing: Evidence from event-related brain potentials. <i>Neuropsychology</i> , 2002 , 16, 548-561	3.8	77

68	Performance monitoring in neurological and psychiatric patients. <i>International Journal of Psychophysiology</i> , 2006 , 59, 59-69	2.9	71
67	Neural correlates of error detection and error correction: is there a common neuroanatomical substrate?. <i>European Journal of Neuroscience</i> , 2004 , 19, 3081-7	3.5	65
66	How does error correction differ from error signaling? An event-related potential study. <i>Brain Research</i> , 2006 , 1105, 102-9	3.7	63
65	An Obesity-Predisposing Variant of the FTO Gene Regulates D2R-Dependent Reward Learning. <i>Journal of Neuroscience</i> , 2015 , 35, 12584-92	6.6	58
64	Selection of independent components representing event-related brain potentials: a data-driven approach for greater objectivity. <i>NeuroImage</i> , 2011 , 54, 2105-15	7.9	58
63	An Update on the Role of Serotonin and its Interplay with Dopamine for Reward. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 484	3.3	56
62	Event-related potential correlates of performance-monitoring in a lateralized time-estimation task. <i>PLoS ONE</i> , 2011 , 6, e25591	3.7	55
61	Thalamocingulate interactions in performance monitoring. <i>Journal of Neuroscience</i> , 2011 , 31, 3375-83	6.6	55
60	Effects of parametrical and trial-to-trial variation in prior probability processing revealed by simultaneous electroencephalogram/functional magnetic resonance imaging. <i>Journal of Neuroscience</i> , 2010 , 30, 16709-17	6.6	50
59	Gender Influences on Brain Responses to Errors and Post-Error Adjustments. <i>Scientific Reports</i> , 2016 , 6, 24435	4.9	48
58	Comparing the error-related negativity across groups: The impact of error- and trial-number differences. <i>Psychophysiology</i> , 2017 , 54, 998-1009	4.1	47
57	Simultaneous EEG and fMRI 2010 ,		46
56	Mistakes that affect others: an fMRI study on processing of own errors in a social context. <i>Experimental Brain Research</i> , 2011 , 211, 405-13	2.3	41
55	When goals are missed: dealing with self-generated and externally induced failure. <i>NeuroImage</i> , 2007 , 35, 1356-64	7.9	41
54	Differential modulation of reinforcement learning by D2 dopamine and NMDA glutamate receptor antagonism. <i>Journal of Neuroscience</i> , 2014 , 34, 13151-62	6.6	39
53	Mal-adaptation of event-related EEG responses preceding performance errors. <i>Frontiers in Human Neuroscience</i> , 2010 , 4,	3.3	39
52	An event-related potential study on the observation of erroneous everyday actions. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2007 , 7, 278-85	3.5	37
51	Continuous theta-burst stimulation (ctBS) over the lateral prefrontal cortex alters reinforcement learning bias. <i>NeuroImage</i> , 2011 , 57, 617-23	7.9	35

50	A common neural system signaling the need for behavioral changes. <i>Trends in Cognitive Sciences</i> , 2004 , 8, 445-6; author reply 446-7	14	34
49	Error signals in the subthalamic nucleus are related to post-error slowing in patients with Parkinson's disease. <i>Cortex</i> , 2014 , 60, 103-20	3.8	33
48	Lesions to the prefrontal performance-monitoring network disrupt neural processing and adaptive behaviors after both errors and novelty. <i>Cortex</i> , 2014 , 50, 45-54	3.8	31
47	Genetic association studies of performance monitoring and learning from feedback: the role of dopamine and serotonin. <i>Neuroscience and Biobehavioral Reviews</i> , 2010 , 34, 649-59	9	31
46	Interactions of focal cortical lesions with error processing: evidence from event-related brain potentials. <i>Neuropsychology</i> , 2002 , 16, 548-61	3.8	31
45	Reducing Speed and Sigh: How Adaptive Is Post-Error Slowing?. <i>Neuron</i> , 2016 , 89, 430-2	13.9	30
44	Cortical beta power reflects decision dynamics and uncovers multiple facets of post-error adaptation. <i>Nature Communications</i> , 2018 , 9, 5038	17.4	30
43	Contextual movement constraints of others modulate motor preparation in the observer. <i>Neuropsychologia</i> , 2009 , 47, 268-75	3.2	29
42	Acetylcholine mediates behavioral and neural post-error control. <i>Current Biology</i> , 2015 , 25, 1461-8	6.3	27
41	Using non-negative matrix factorization for single-trial analysis of fMRI data. <i>NeuroImage</i> , 2007 , 37, 1148-60	7.9	26
40	Proactive and reactive recruitment of cognitive control: Comment on Hikosaka and Isoda. <i>Trends in Cognitive Sciences</i> , 2010 , 14, 191-2	14	23
39	The control of attention and actions: current research and future developments. <i>Brain Research</i> , 2006 , 1105, 1-6	3.7	23
38	Learning relative values in the striatum induces violations of normative decision making. <i>Nature Communications</i> , 2017 , 8, 16033	17.4	22
37	Serotonin reuptake inhibitors and serotonin transporter genotype modulate performance monitoring functions but not their electrophysiological correlates. <i>Journal of Neuroscience</i> , 2015 , 35, 8181-90	6.6	21
36	Directed forgetting in schizophrenia: prefrontal memory and inhibition deficits. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2005 , 255, 251-7	5.1	21
35	Dual serotonergic signals: a key to understanding paradoxical effects?. <i>Trends in Cognitive Sciences</i> , 2014 ,	14	18
34	Performance monitoring in the medial frontal cortex and related neural networks: From monitoring self actions to understanding others' actions. <i>Neuroscience Research</i> , 2018 , 137, 1-10	2.9	18
33	The human habenula is responsive to changes in luminance and circadian rhythm. <i>NeuroImage</i> , 2019 , 189, 581-588	7.9	16

32	Towards single-trial analysis in cognitive brain research. <i>Trends in Cognitive Sciences</i> , 2007 , 11, 502-3	14	15
31	Altered electrophysiological correlates of motor inhibition and performance monitoring in Tourette's syndrome. <i>Clinical Neurophysiology</i> , 2018 , 129, 1866-1872	4.3	12
30	A brief demonstration of frontostriatal connectivity in OCD patients with intracranial electrodes. <i>NeuroImage</i> , 2020 , 220, 117138	7.9	11
29	Error-preceding brain activity reflects (mal-)adaptive adjustments of cognitive control: a modeling study. <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 97	3.3	11
28	The feedback-related negativity indexes prediction error in active but not observational learning. <i>Psychophysiology</i> , 2019 , 56, e13389	4.1	10
27	Comment on "Genetically determined differences in learning from errors". <i>Science</i> , 2008 , 321, 200; author reply 200	33.3	10
26	Neural synchrony indexes impaired motor slowing after errors and novelty following white matter damage. <i>Neurobiology of Aging</i> , 2016 , 38, 205-213	5.6	9
25	When is the time for a change? Decomposing dynamic learning rates. <i>Neuron</i> , 2014 , 84, 662-4	13.9	7
24	Transient global ischemia specifically modulates visual P300 scalp distribution. <i>Clinical Neurophysiology</i> , 2000 , 111, 2245-54	4.3	7
23	Short-term reward experience biases inference despite dissociable neural correlates. <i>Nature Communications</i> , 2017 , 8, 1690	17.4	6
22	Assessing error awareness without relying on introspective judgment?. <i>Frontiers in Neuroscience</i> , 2013 , 7, 113	5.1	6
21	Prefrontal delta oscillations during deep brain stimulation predict treatment success in patients with obsessive-compulsive disorder. <i>Brain Stimulation</i> , 2020 , 13, 259-261	5.1	6
20	Interactive effects of citalopram and serotonin transporter genotype on neural correlates of response inhibition and attentional orienting. <i>NeuroImage</i> , 2015 , 116, 59-67	7.9	5
19	Decreased transfer of value to action in Tourette syndrome. <i>Cortex</i> , 2020 , 126, 39-48	3.8	5
18	Pathological Changes in Performance Monitoring 2011 , 263-280		5
17	Rapid feedback processing in human nucleus accumbens and motor thalamus. <i>Neuropsychologia</i> , 2015 , 70, 246-54	3.2	4
16	Neural Bases of Performance Monitoring 2017 , 292-313		2
15	Neural and behavioral traces of error awareness. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2021 , 21, 573-591	3.5	2

14	Editorial for E-Book: error awareness-insights from cognitive neuroscience, psychiatry and neurology. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 830	3.3	2
13	Minding Mistakes. <i>Scientific American Mind</i> , 2008 , 19, 52-59		2
12	Error-Related Activity in Striatal Local Field Potentials and Medial Frontal Cortex: Evidence From Patients With Severe Opioid Abuse Disorder. <i>Frontiers in Human Neuroscience</i> , 2020 , 14, 627564	3.3	2
11	Ereigniskorrelierte Potenziale in der kognitiven Neurologie. <i>Aktuelle Neurologie</i> , 2004 , 31, 396-403		1
10	Unbiased post-error slowing in interference tasks: A confound and a simple solution. <i>Behavior Research Methods</i> , 2021 , 1	6.1	1
9	Feedback-related EEG dynamics separately reflect decision parameters, biases, and future choices		1
8	Imprecise learning and uncertainty. <i>Nature Human Behaviour</i> , 2021 , 5, 7-8	12.8	1
7	Deep Brain Stimulation Reduces Conflict-Related Theta and Error-Related Negativity in Patients With Obsessive-Compulsive Disorder. <i>Neuromodulation</i> , 2021 ,	3.1	1
6	Performance monitoring in obsessive-compulsive disorder: Insights from internal capsule/nucleus accumbens deep brain stimulation. <i>NeuroImage: Clinical</i> , 2021 , 31, 102746	5.3	0
5	Conflict- and error-related theta activities are coupled to BOLD signals in different brain regions.. <i>NeuroImage</i> , 2022 , 119264	7.9	0
4	DISENTANGLING PERFORMANCE-MONITORING SIGNALS ENCODED IN FEEDBACK-RELATED EEG DYNAMICS.. <i>NeuroImage</i> , 2022 , 119322	7.9	0
3	Social comparison impacts stimulus evaluation in a competitive social learning task. <i>PLoS ONE</i> , 2020 , 15, e0234397	3.7	
2	To err is (not only) human: Mechanisms of post-error attentional regulation illuminated in mice. <i>Neuron</i> , 2021 , 109, 1074-1076	13.9	
1	Decision-making as transdiagnostic construct for mental health research. <i>Neuron</i> , 2021 , 109, 1912-1914	13.9	