

# Markus Ullsperger

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Conflict- and error-related theta activities are coupled to BOLD signals in different brain regions.. <i>NeuroImage</i> , <b>2022</b> , 119264	7.9	0
102	DISENTANGLING PERFORMANCE-MONITORING SIGNALS ENCODED IN FEEDBACK-RELATED EEG DYNAMICS.. <i>NeuroImage</i> , <b>2022</b> , 119322	7.9	0
101	Neural and behavioral traces of error awareness. <i>Cognitive, Affective and Behavioral Neuroscience</i> , <b>2021</b> , 21, 573-591	3.5	2
100	Unbiased post-error slowing in interference tasks: A confound and a simple solution. <i>Behavior Research Methods</i> , <b>2021</b> , 1	6.1	1
99	To err is (not only) human: Mechanisms of post-error attentional regulation illuminated in mice. <i>Neuron</i> , <b>2021</b> , 109, 1074-1076	13.9	
98	Decision-making as transdiagnostic construct for mental health research. <i>Neuron</i> , <b>2021</b> , 109, 1912-1914	13.9	
97	Imprecise learning and uncertainty. <i>Nature Human Behaviour</i> , <b>2021</b> , 5, 7-8	12.8	1
96	Deep Brain Stimulation Reduces Conflict-Related Theta and Error-Related Negativity in Patients With Obsessive-Compulsive Disorder. <i>Neuromodulation</i> , <b>2021</b> ,	3.1	1
95	Performance monitoring in obsessive-compulsive disorder: Insights from internal capsule/nucleus accumbens deep brain stimulation. <i>NeuroImage: Clinical</i> , <b>2021</b> , 31, 102746	5.3	0
94	A brief demonstration of frontostriatal connectivity in OCD patients with intracranial electrodes. <i>NeuroImage</i> , <b>2020</b> , 220, 117138	7.9	11
93	Social comparison impacts stimulus evaluation in a competitive social learning task. <i>PLoS ONE</i> , <b>2020</b> , 15, e0234397	3.7	
92	Decreased transfer of value to action in Tourette syndrome. <i>Cortex</i> , <b>2020</b> , 126, 39-48	3.8	5
91	Prefrontal delta oscillations during deep brain stimulation predict treatment success in patients with obsessive-compulsive disorder. <i>Brain Stimulation</i> , <b>2020</b> , 13, 259-261	5.1	6
90	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> , <b>2020</b> , 14, 627564	3.3	2
89	The human habenula is responsive to changes in luminance and circadian rhythm. <i>NeuroImage</i> , <b>2019</b> , 189, 581-588	7.9	16
88	The feedback-related negativity indexes prediction error in active but not observational learning. <i>Psychophysiology</i> , <b>2019</b> , 56, e13389	4.1	10
87	Performance monitoring in the medial frontal cortex and related neural networks: From monitoring self actions to understanding others' actions. <i>Neuroscience Research</i> , <b>2018</b> , 137, 1-10	2.9	18

86	Cortical beta power reflects decision dynamics and uncovers multiple facets of post-error adaptation. <i>Nature Communications</i> , <b>2018</b> , 9, 5038	17.4	30
85	Altered electrophysiological correlates of motor inhibition and performance monitoring in Tourette's syndrome. <i>Clinical Neurophysiology</i> , <b>2018</b> , 129, 1866-1872	4.3	12
84	Learning relative values in the striatum induces violations of normative decision making. <i>Nature Communications</i> , <b>2017</b> , 8, 16033	17.4	22
83	Comparing the error-related negativity across groups: The impact of error- and trial-number differences. <i>Psychophysiology</i> , <b>2017</b> , 54, 998-1009	4.1	47
82	Neural Bases of Performance Monitoring <b>2017</b> , 292-313		2
81	Short-term reward experience biases inference despite dissociable neural correlates. <i>Nature Communications</i> , <b>2017</b> , 8, 1690	17.4	6
80	An Update on the Role of Serotonin and its Interplay with Dopamine for Reward. <i>Frontiers in Human Neuroscience</i> , <b>2017</b> , 11, 484	3.3	56
79	Gender Influences on Brain Responses to Errors and Post-Error Adjustments. <i>Scientific Reports</i> , <b>2016</b> , 6, 24435	4.9	48
78	Reducing Speed and Sight: How Adaptive Is Post-Error Slowing?. <i>Neuron</i> , <b>2016</b> , 89, 430-2	13.9	30
77	Neural synchrony indexes impaired motor slowing after errors and novelty following white matter damage. <i>Neurobiology of Aging</i> , <b>2016</b> , 38, 205-213	5.6	9
76	Acetylcholine mediates behavioral and neural post-error control. <i>Current Biology</i> , <b>2015</b> , 25, 1461-8	6.3	27
75	Rapid feedback processing in human nucleus accumbens and motor thalamus. <i>Neuropsychologia</i> , <b>2015</b> , 70, 246-54	3.2	4
74	Interactive effects of citalopram and serotonin transporter genotype on neural correlates of response inhibition and attentional orienting. <i>NeuroImage</i> , <b>2015</b> , 116, 59-67	7.9	5
73	An Obesity-Predisposing Variant of the FTO Gene Regulates D2R-Dependent Reward Learning. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 12584-92	6.6	58
72	Deep brain stimulation of the nucleus basalis of Meynert in Alzheimer's dementia. <i>Molecular Psychiatry</i> , <b>2015</b> , 20, 353-60	15.1	145
71	Serotonin reuptake inhibitors and serotonin transporter genotype modulate performance monitoring functions but not their electrophysiological correlates. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 8181-90	6.6	21
70	Dual serotonergic signals: a key to understanding paradoxical effects?. <i>Trends in Cognitive Sciences</i> , <b>2014</b> ,	14	18
69	Specificity of performance monitoring changes in obsessive-compulsive disorder. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2014</b> , 46 Pt 1, 124-38	9	88

68	Neurophysiology of performance monitoring and adaptive behavior. <i>Physiological Reviews</i> , <b>2014</b> , 94, 35-79	47.9	361
67	Lesions to the prefrontal performance-monitoring network disrupt neural processing and adaptive behaviors after both errors and novelty. <i>Cortex</i> , <b>2014</b> , 50, 45-54	3.8	31
66	Neural mechanisms and temporal dynamics of performance monitoring. <i>Trends in Cognitive Sciences</i> , <b>2014</b> , 18, 259-67	14	260
65	Error signals in the subthalamic nucleus are related to post-error slowing in patients with Parkinson's disease. <i>Cortex</i> , <b>2014</b> , 60, 103-20	3.8	33
64	Differential modulation of reinforcement learning by D2 dopamine and NMDA glutamate receptor antagonism. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 13151-62	6.6	39
63	When is the time for a change? Decomposing dynamic learning rates. <i>Neuron</i> , <b>2014</b> , 84, 662-4	13.9	7
62	Real and fictive outcomes are processed differently but converge on a common adaptive mechanism. <i>Neuron</i> , <b>2013</b> , 79, 1243-55	13.9	112
61	Error awareness and the insula: links to neurological and psychiatric diseases. <i>Frontiers in Human Neuroscience</i> , <b>2013</b> , 7, 14	3.3	134
60	Editorial for E-Book: error awareness-insights from cognitive neuroscience, psychiatry and neurology. <i>Frontiers in Human Neuroscience</i> , <b>2013</b> , 7, 830	3.3	2
59	Assessing error awareness without relying on introspective judgment?. <i>Frontiers in Neuroscience</i> , <b>2013</b> , 7, 113	5.1	6
58	Surprise and error: common neuronal architecture for the processing of errors and novelty. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 7528-37	6.6	188
57	Error-preceding brain activity reflects (mal-)adaptive adjustments of cognitive control: a modeling study. <i>Frontiers in Human Neuroscience</i> , <b>2012</b> , 6, 97	3.3	11
56	Continuous theta-burst stimulation (ctBS) over the lateral prefrontal cortex alters reinforcement learning bias. <i>NeuroImage</i> , <b>2011</b> , 57, 617-23	7.9	35
55	Selection of independent components representing event-related brain potentials: a data-driven approach for greater objectivity. <i>NeuroImage</i> , <b>2011</b> , 54, 2105-15	7.9	58
54	Post-error adjustments. <i>Frontiers in Psychology</i> , <b>2011</b> , 2, 233	3.4	267
53	Event-related potential correlates of performance-monitoring in a lateralized time-estimation task. <i>PLoS ONE</i> , <b>2011</b> , 6, e25591	3.7	55
52	Successful deep brain stimulation of the nucleus accumbens in severe alcohol dependence is associated with changed performance monitoring. <i>Addiction Biology</i> , <b>2011</b> , 16, 620-3	4.6	104
51	Mistakes that affect others: an fMRI study on processing of own errors in a social context. <i>Experimental Brain Research</i> , <b>2011</b> , 211, 405-13	2.3	41

50	Error awareness revisited: accumulation of multimodal evidence from central and autonomic nervous systems. <i>Journal of Cognitive Neuroscience</i> , <b>2011</b> , 23, 3021-36	3.1	147
49	Dopamine-mediated reinforcement learning signals in the striatum and ventromedial prefrontal cortex underlie value-based choices. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 1606-13	6.6	193
48	Thalamocingulate interactions in performance monitoring. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 3375-83	6.6	55
47	Posterior medial frontal cortex activity predicts post-error adaptations in task-related visual and motor areas. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 1780-9	6.6	186
46	Pathological Changes in Performance Monitoring <b>2011</b> , 263-280		5
45	Mal-adaptation of event-related EEG responses preceding performance errors. <i>Frontiers in Human Neuroscience</i> , <b>2010</b> , 4,	3.3	39
44	Post-error behavioral adjustments are facilitated by activation and suppression of task-relevant and task-irrelevant information processing. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 12759-69	6.6	149
43	Proactive and reactive recruitment of cognitive control: Comment on Hikosaka and Isoda. <i>Trends in Cognitive Sciences</i> , <b>2010</b> , 14, 191-2	14	23
42	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> , <b>2010</b> , 30, 16709-17	6.6	50
41	Conscious perception of errors and its relation to the anterior insula. <i>Brain Structure and Function</i> , <b>2010</b> , 214, 629-43	4	326
40	Genetic association studies of performance monitoring and learning from feedback: the role of dopamine and serotonin. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2010</b> , 34, 649-59	9	31
39	Simultaneous EEG and fMRI <b>2010</b> ,		46
38	Dopamine DRD2 polymorphism alters reversal learning and associated neural activity. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 3695-704	6.6	139
37	When errors are rewarding. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 12183-6	6.6	107
36	Contextual movement constraints of others modulate motor preparation in the observer. <i>Neuropsychologia</i> , <b>2009</b> , 47, 268-75	3.2	29
35	Modulation of the error-related negativity by response conflict. <i>Psychophysiology</i> , <b>2009</b> , 46, 1288-98	4.1	114
34	Neuropharmacology of performance monitoring. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2009</b> , 33, 48-60		135
33	Adaptive coding of action values in the human rostral cingulate zone. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 7489-96	6.6	90

32	Dissociable medial frontal negativities from a common monitoring system for self- and externally caused failure of goal achievement. <i>NeuroImage</i> , <b>2009</b> , 47, 2023-30	7.9	124
31	Minding Mistakes. <i>Scientific American Mind</i> , <b>2008</b> , 19, 52-59		2
30	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> , <b>2008</b> , 105, 6173-8	11.5	354
29	Comment on "Genetically determined differences in learning from errors". <i>Science</i> , <b>2008</b> , 321, 200; author reply 200	33.3	10
28	An event-related potential study on the observation of erroneous everyday actions. <i>Cognitive, Affective and Behavioral Neuroscience</i> , <b>2007</b> , 7, 278-85	3.5	37
27	Towards single-trial analysis in cognitive brain research. <i>Trends in Cognitive Sciences</i> , <b>2007</b> , 11, 502-3	14	15
26	Neural correlates of error awareness. <i>NeuroImage</i> , <b>2007</b> , 34, 1774-81	7.9	314
25	When goals are missed: dealing with self-generated and externally induced failure. <i>NeuroImage</i> , <b>2007</b> , 35, 1356-64	7.9	41
24	Using non-negative matrix factorization for single-trial analysis of fMRI data. <i>NeuroImage</i> , <b>2007</b> , 37, 1148-60	8.9	26
23	Genetically determined differences in learning from errors. <i>Science</i> , <b>2007</b> , 318, 1642-5	33.3	335
22	How does error correction differ from error signaling? An event-related potential study. <i>Brain Research</i> , <b>2006</b> , 1105, 102-9	3.7	63
21	The control of attention and actions: current research and future developments. <i>Brain Research</i> , <b>2006</b> , 1105, 1-6	3.7	23
20	Performance monitoring in neurological and psychiatric patients. <i>International Journal of Psychophysiology</i> , <b>2006</b> , 59, 59-69	2.9	71
19	Single-trial EEG-fMRI reveals the dynamics of cognitive function. <i>Trends in Cognitive Sciences</i> , <b>2006</b> , 10, 558-63	14	311
18	The role of intact frontostriatal circuits in error processing. <i>Journal of Cognitive Neuroscience</i> , <b>2006</b> , 18, 651-64	3.1	138
17	Trial-by-trial coupling of concurrent electroencephalogram and functional magnetic resonance imaging identifies the dynamics of performance monitoring. <i>Journal of Neuroscience</i> , <b>2005</b> , 25, 11730-7	6.6	847
16	The conflict adaptation effect: it's not just priming. <i>Cognitive, Affective and Behavioral Neuroscience</i> , <b>2005</b> , 5, 467-72	3.5	249
15	Electrophysiological correlates of error correction. <i>Psychophysiology</i> , <b>2005</b> , 42, 72-82	4.1	100

14	Directed forgetting in schizophrenia: prefrontal memory and inhibition deficits. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , <b>2005</b> , 255, 251-7	5.1	21
13	Who comes first? The role of the prefrontal and parietal cortex in cognitive control. <i>Journal of Cognitive Neuroscience</i> , <b>2005</b> , 17, 1367-75	3.1	204
12	Ereigniskorrelierte Potenziale in der kognitiven Neurologie. <i>Aktuelle Neurologie</i> , <b>2004</b> , 31, 396-403		1
11	The role of the medial frontal cortex in cognitive control. <i>Science</i> , <b>2004</b> , 306, 443-7	33.3	2231
10	Neural correlates of error detection and error correction: is there a common neuroanatomical substrate?. <i>European Journal of Neuroscience</i> , <b>2004</b> , 19, 3081-7	3.5	65
9	A common neural system signaling the need for behavioral changes. <i>Trends in Cognitive Sciences</i> , <b>2004</b> , 8, 445-6; author reply 446-7	14	34
8	Neuroimaging of performance monitoring: error detection and beyond. <i>Cortex</i> , <b>2004</b> , 40, 593-604	3.8	168
7	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> , <b>2003</b> , 23, 4308-14	6.6	407
6	Interactions of focal cortical lesions with error processing: Evidence from event-related brain potentials.. <i>Neuropsychology</i> , <b>2002</b> , 16, 548-561	3.8	77
5	Interactions of focal cortical lesions with error processing: evidence from event-related brain potentials. <i>Neuropsychology</i> , <b>2002</b> , 16, 548-61	3.8	31
4	Subprocesses of performance monitoring: a dissociation of error processing and response competition revealed by event-related fMRI and ERPs. <i>NeuroImage</i> , <b>2001</b> , 14, 1387-401	7.9	527
3	An electrophysiological test of directed forgetting: the role of retrieval inhibition. <i>Journal of Cognitive Neuroscience</i> , <b>2000</b> , 12, 924-40	3.1	95
2	Transient global ischemia specifically modulates visual P300 scalp distribution. <i>Clinical Neurophysiology</i> , <b>2000</b> , 111, 2245-54	4.3	7
1	Feedback-related EEG dynamics separately reflect decision parameters, biases, and future choices		1