

Markus Ullsperger

List of Publications by Year in descending order

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104
papers

13,543
citations

41258

49
h-index

31759

101
g-index

113
all docs

113
docs citations

113
times ranked

10819
citing authors

#	ARTICLE	IF	CITATIONS
1	The Role of the Medial Frontal Cortex in Cognitive Control. <i>Science</i> , 2004, 306, 443-447.	6.0	2,562
2	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, 11730-11737.	1.7	934
3	Subprocesses of Performance Monitoring: A Dissociation of Error Processing and Response Competition Revealed by Event-Related fMRI and ERPs. <i>NeuroImage</i> , 2001, 14, 1387-1401.	2.1	591
4	Neurophysiology of Performance Monitoring and Adaptive Behavior. <i>Physiological Reviews</i> , 2014, 94, 35-79.	13.1	484
5	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, 4308-4314.	1.7	440
6	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, 6173-6178.	3.3	415
7	Conscious perception of errors and its relation to the anterior insula. <i>Brain Structure and Function</i> , 2010, 214, 629-643.	1.2	386
8	Genetically Determined Differences in Learning from Errors. <i>Science</i> , 2007, 318, 1642-1645.	6.0	381
9	Single-trial EEG&fMRI reveals the dynamics of cognitive function. <i>Trends in Cognitive Sciences</i> , 2006, 10, 558-563.	4.0	367
10	Neural correlates of error awareness. <i>NeuroImage</i> , 2007, 34, 1774-1781.	2.1	353
11	Post-Error Adjustments. <i>Frontiers in Psychology</i> , 2011, 2, 233.	1.1	347
12	Neural mechanisms and temporal dynamics of performance monitoring. <i>Trends in Cognitive Sciences</i> , 2014, 18, 259-267.	4.0	342
13	The conflict adaptation effect: It's not just priming. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2005, 5, 467-472.	1.0	282
14	Dopamine-Mediated Reinforcement Learning Signals in the Striatum and Ventromedial Prefrontal Cortex Underlie Value-Based Choices. <i>Journal of Neuroscience</i> , 2011, 31, 1606-1613.	1.7	244
15	Who Comes First? The Role of the Prefrontal and Parietal Cortex in Cognitive Control. <i>Journal of Cognitive Neuroscience</i> , 2005, 17, 1367-1375.	1.1	235
16	Posterior Medial Frontal Cortex Activity Predicts Post-Error Adaptations in Task-Related Visual and Motor Areas. <i>Journal of Neuroscience</i> , 2011, 31, 1780-1789.	1.7	229
17	Surprise and Error: Common Neuronal Architecture for the Processing of Errors and Novelty. <i>Journal of Neuroscience</i> , 2012, 32, 7528-7537.	1.7	220
18	Deep brain stimulation of the nucleus basalis of Meynert in Alzheimer's dementia. <i>Molecular Psychiatry</i> , 2015, 20, 353-360.	4.1	214

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19	Neuroimaging of Performance Monitoring: Error Detection and Beyond. <i>Cortex</i> , 2004, 40, 593-604.	1.1	197
20	Error Awareness Revisited: Accumulation of Multimodal Evidence from Central and Autonomic Nervous Systems. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 3021-3036.	1.1	190
21	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, 12759-12769.	1.7	177
22	Error awareness and the insula: links to neurological and psychiatric diseases. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 14.	1.0	174
23	Dopamine DRD2 Polymorphism Alters Reversal Learning and Associated Neural Activity. <i>Journal of Neuroscience</i> , 2009, 29, 3695-3704.	1.7	158
24	The Role of Intact Frontostriatal Circuits in Error Processing. <i>Journal of Cognitive Neuroscience</i> , 2006, 18, 651-664.	1.1	154
25	Neuropharmacology of performance monitoring. <i>Neuroscience and Biobehavioral Reviews</i> , 2009, 33, 48-60.	2.9	149
26	Dissociable medial frontal negativities from a common monitoring system for self- and externally caused failure of goal achievement. <i>NeuroImage</i> , 2009, 47, 2023-2030.	2.1	145
27	Real and Fictive Outcomes Are Processed Differently but Converge on a Common Adaptive Mechanism. <i>Neuron</i> , 2013, 79, 1243-1255.	3.8	144
28	Modulation of the error-related negativity by response conflict. <i>Psychophysiology</i> , 2009, 46, 1288-1298.	1.2	130
29	Successful deep brain stimulation of the nucleus accumbens in severe alcohol dependence is associated with changed performance monitoring. <i>Addiction Biology</i> , 2011, 16, 620-623.	1.4	129
30	When Errors Are Rewarding. <i>Journal of Neuroscience</i> , 2009, 29, 12183-12186.	1.7	118
31	Specificity of performance monitoring changes in obsessive-compulsive disorder. <i>Neuroscience and Biobehavioral Reviews</i> , 2014, 46, 124-138.	2.9	115
32	Electrophysiological correlates of error correction. <i>Psychophysiology</i> , 2005, 42, 72-82.	1.2	112
33	An Electrophysiological Test of Directed Forgetting: The Role of Retrieval Inhibition. <i>Journal of Cognitive Neuroscience</i> , 2000, 12, 924-940.	1.1	109
34	An Update on the Role of Serotonin and its Interplay with Dopamine for Reward. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 484.	1.0	102
35	Adaptive Coding of Action Values in the Human Rostral Cingulate Zone. <i>Journal of Neuroscience</i> , 2009, 29, 7489-7496.	1.7	100
36	Interactions of focal cortical lesions with error processing: Evidence from event-related brain potentials. <i>Neuropsychology</i> , 2002, 16, 548-561.	1.0	86

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37	Performance monitoring in neurological and psychiatric patients. <i>International Journal of Psychophysiology</i> , 2006, 59, 59-69.	0.5	75
38	An Obesity-Predisposing Variant of the FTO Gene Regulates D2R-Dependent Reward Learning. <i>Journal of Neuroscience</i> , 2015, 35, 12584-12592.	1.7	75
39	Neural correlates of error detection and error correction: is there a common neuroanatomical substrate?. <i>European Journal of Neuroscience</i> , 2004, 19, 3081-3087.	1.2	74
40	How does error correction differ from error signaling? An event-related potential study. <i>Brain Research</i> , 2006, 1105, 102-109.	1.1	70
41	Thalamocingulate Interactions In Performance Monitoring. <i>Journal of Neuroscience</i> , 2011, 31, 3375-3383.	1.7	68
42	Learning relative values in the striatum induces violations of normative decision making. <i>Nature Communications</i> , 2017, 8, 16033.	5.8	66
43	Selection of independent components representing event-related brain potentials: A data-driven approach for greater objectivity. <i>NeuroImage</i> , 2011, 54, 2105-2115.	2.1	65
44	Event-Related Potential Correlates of Performance-Monitoring in a Lateralized Time-Estimation Task. <i>PLoS ONE</i> , 2011, 6, e25591.	1.1	64
45	Gender Influences on Brain Responses to Errors and Post-Error Adjustments. <i>Scientific Reports</i> , 2016, 6, 24435.	1.6	63
46	Comparing the error-related negativity across groups: The impact of error and trial number differences. <i>Psychophysiology</i> , 2017, 54, 998-1009.	1.2	62
47	Differential Modulation of Reinforcement Learning by D2 Dopamine and NMDA Glutamate Receptor Antagonism. <i>Journal of Neuroscience</i> , 2014, 34, 13151-13162.	1.7	60
48	Cortical beta power reflects decision dynamics and uncovers multiple facets of post-error adaptation. <i>Nature Communications</i> , 2018, 9, 5038.	5.8	60
49	Decision making, performance and outcome monitoring in frontal cortical areas. <i>Nature Neuroscience</i> , 2004, 7, 1173-1174.	7.1	58
50	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, 16709-16717.	1.7	58
51	When goals are missed: Dealing with self-generated and externally induced failure. <i>NeuroImage</i> , 2007, 35, 1356-1364.	2.1	54
52	An event-related potential study on the observation of erroneous everyday actions. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2007, 7, 278-285.	1.0	49
53	Mal-adaptation of event-related EEG responses preceding performance errors. <i>Frontiers in Human Neuroscience</i> , 2010, 4, .	1.0	49
54	Continuous theta-burst stimulation (cTBS) over the lateral prefrontal cortex alters reinforcement learning bias. <i>NeuroImage</i> , 2011, 57, 617-623.	2.1	48

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55	Mistakes that affect others: An fMRI study on processing of own errors in a social context. <i>Experimental Brain Research</i> , 2011, 211, 405-413.	0.7	48
56	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.	1.1	46
57	Reducing Speed and Slight: How Adaptive Is Post-Error Slowing?. <i>Neuron</i> , 2016, 89, 430-432.	3.8	44
58	Error signals in the subthalamic nucleus are related to post-error slowing in patients with Parkinson's disease. <i>Cortex</i> , 2014, 60, 103-120.	1.1	42
59	Acetylcholine Mediates Behavioral and Neural Post-Error Control. <i>Current Biology</i> , 2015, 25, 1461-1468.	1.8	40
60	Interactions of focal cortical lesions with error processing: evidence from event-related brain potentials. <i>Neuropsychology</i> , 2002, 16, 548-61.	1.0	36
61	A common neural system signaling the need for behavioral changes. <i>Trends in Cognitive Sciences</i> , 2004, 8, 445-446.	4.0	35
62	Genetic association studies of performance monitoring and learning from feedback: The role of dopamine and serotonin. <i>Neuroscience and Biobehavioral Reviews</i> , 2010, 34, 649-659.	2.9	34
63	Dual serotonergic signals: a key to understanding paradoxical effects?. <i>Trends in Cognitive Sciences</i> , 2015, 19, 21-26.	4.0	32
64	Contextual movement constraints of others modulate motor preparation in the observer. <i>Neuropsychologia</i> , 2009, 47, 268-275.	0.7	31
65	Serotonin Reuptake Inhibitors and Serotonin Transporter Genotype Modulate Performance Monitoring Functions But Not Their Electrophysiological Correlates. <i>Journal of Neuroscience</i> , 2015, 35, 8181-8190.	1.7	29
66	Using non-negative matrix factorization for single-trial analysis of fMRI data. <i>NeuroImage</i> , 2007, 37, 1148-1160.	2.1	28
67	Proactive and reactive recruitment of cognitive control: Comment on Hikosaka and Isoda. <i>Trends in Cognitive Sciences</i> , 2010, 14, 191-192.	4.0	28
68	The control of attention and actions: Current research and future developments. <i>Brain Research</i> , 2006, 1105, 1-6.	1.1	26
69	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.	1.0	25
70	Directed forgetting in schizophrenia. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2005, 255, 251-257.	1.8	22
71	The feedback-related negativity indexes prediction error in active but not observational learning. <i>Psychophysiology</i> , 2019, 56, e13389.	1.2	21
72	Neural and behavioral traces of error awareness. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2021, 21, 573-591.	1.0	20

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73	The human habenula is responsive to changes in luminance and circadian rhythm. <i>NeuroImage</i> , 2019, 189, 581-588.	2.1	19
74	Towards single-trial analysis in cognitive brain research. <i>Trends in Cognitive Sciences</i> , 2007, 11, 502-503.	4.0	18
75	Short-term reward experience biases inference despite dissociable neural correlates. <i>Nature Communications</i> , 2017, 8, 1690.	5.8	18
76	A brief demonstration of frontostriatal connectivity in OCD patients with intracranial electrodes. <i>NeuroImage</i> , 2020, 220, 117138.	2.1	17
77	Response to Comment on "Genetically Determined Differences in Learning from Errors". <i>Science</i> , 2008, 321, 200-200.	6.0	16
78	Altered electrophysiological correlates of motor inhibition and performance monitoring in Tourette's syndrome. <i>Clinical Neurophysiology</i> , 2018, 129, 1866-1872.	0.7	16
79	Decreased transfer of value to action in Tourette syndrome. <i>Cortex</i> , 2020, 126, 39-48.	1.1	15
80	Error-preceding brain activity reflects (mal-)adaptive adjustments of cognitive control: a modeling study. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 97.	1.0	13
81	Neural synchrony indexes impaired motor slowing after errors and novelty following white matter damage. <i>Neurobiology of Aging</i> , 2016, 38, 205-213.	1.5	13
82	Conflict- and error-related theta activities are coupled to BOLD signals in different brain regions. <i>NeuroImage</i> , 2022, 256, 119264.	2.1	13
83	When is the Time for a Change? Decomposing Dynamic Learning Rates. <i>Neuron</i> , 2014, 84, 662-664.	3.8	9
84	Prefrontal delta oscillations during deep brain stimulation predict treatment success in patients with obsessive-compulsive disorder. <i>Brain Stimulation</i> , 2020, 13, 259-261.	0.7	8
85	Disentangling performance-monitoring signals encoded in feedback-related EEG dynamics. <i>NeuroImage</i> , 2022, 257, 119322.	2.1	8
86	Transient global ischemia specifically modulates visual P300 scalp distribution. <i>Clinical Neurophysiology</i> , 2000, 111, 2245-2254.	0.7	7
87	Assessing error awareness without relying on introspective judgment?. <i>Frontiers in Neuroscience</i> , 2013, 7, 113.	1.4	7
88	Interactive effects of citalopram and serotonin transporter genotype on neural correlates of response inhibition and attentional orienting. <i>NeuroImage</i> , 2015, 116, 59-67.	2.1	7
89	Deep Brain Stimulation Reduces Conflict-Related Theta and Error-Related Negativity in Patients With Obsessive-Compulsive Disorder. <i>Neuromodulation</i> , 2022, 25, 245-252.	0.4	7
90	Rapid feedback processing in human nucleus accumbens and motor thalamus. <i>Neuropsychologia</i> , 2015, 70, 246-254.	0.7	6

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91	Pathological Changes in Performance Monitoring. , 2011, , 263-280.		6
92	Feedback-related EEG dynamics separately reflect decision parameters, biases, and future choices. <i>NeuroImage</i> , 2022, 259, 119437.	2.1	5
93	Imprecise learning and uncertainty. <i>Nature Human Behaviour</i> , 2021, 5, 7-8.	6.2	4
94	Editorial for E-Book: error awarenessâ€”insights from cognitive neuroscience, psychiatry and neurology. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 830.	1.0	3
95	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.	1.0	3
96	Performance monitoring in obsessiveâ€”compulsive disorder: Insights from internal capsule/nucleus accumbens deep brain stimulation. <i>NeuroImage: Clinical</i> , 2021, 31, 102746.	1.4	3
97	Minding Mistakes. <i>Scientific American Mind</i> , 2008, 19, 52-59.	0.0	2
98	Social comparison impacts stimulus evaluation in a competitive social learning task. <i>PLoS ONE</i> , 2020, 15, e0234397.	1.1	2
99	Neurochemistry of Performance Monitoring. , 2011, , 36-49.		2
100	Unbiased post-error slowing in interference tasks: A confound and a simple solution. <i>Behavior Research Methods</i> , 2021, , 1.	2.3	2
101	Corrigendum to: â€œTowards single-trial analysis in cognitive brain researchâ€. <i>Trends in Cognitive Sciences</i> , 2008, 12, 6.	4.0	1
102	Decision-making as transdiagnostic construct for mental health research. <i>Neuron</i> , 2021, 109, 1912-1914.	3.8	1
103	To err is (not only) human: Mechanisms of post-error attentional regulation illuminated in mice. <i>Neuron</i> , 2021, 109, 1074-1076.	3.8	0
104	Motivational and Cognitive Control: From motor inhibition to social decision making. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 136, 104600.	2.9	0