Tobias Egner

List of Publications by Year
in descending order

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137 papers	15,949 citations	34016 52 h-index	18075 120 g-index
156 all docs	156 docs citations	156 times ranked	13541 citing authors

#	Article	IF	Citations
1	Emotional processing in anterior cingulate and medial prefrontal cortex. Trends in Cognitive Sciences, 2011, 15, 85-93.	4.0	2,470
2	Resolving Emotional Conflict: A Role for the Rostral Anterior Cingulate Cortex in Modulating Activity in the Amygdala. Neuron, 2006, 51, 871-882.	3.8	1,180
3	Cognitive control mechanisms resolve conflict through cortical amplification of task-relevant information. Nature Neuroscience, 2005, 8, 1784-1790.	7.1	947
4	Expectation (and attention) in visual cognition. Trends in Cognitive Sciences, 2009, 13, 403-409.	4.0	749
5	Neural repetition suppression reflects fulfilled perceptual expectations. Nature Neuroscience, 2008, 11, 1004-1006.	7.1	664
6	Predictive Codes for Forthcoming Perception in the Frontal Cortex. Science, 2006, 314, 1311-1314.	6.0	480
7	Congruency sequence effects and cognitive control. Cognitive, Affective and Behavioral Neuroscience, 2007, 7, 380-390.	1.0	463
8	Dissociable Neural Systems Resolve Conflict from Emotional versus Nonemotional Distracters. Cerebral Cortex, 2008, 18, 1475-1484.	1.6	422
9	The effect of training distinct neurofeedback protocols on aspects of cognitive performance. International Journal of Psychophysiology, 2003, 47, 75-85.	0.5	381
10	The neural correlates and functional integration of cognitive control in a Stroop task. NeuroImage, 2005, 24, 539-547.	2.1	376
11	Expectation and Surprise Determine Neural Population Responses in the Ventral Visual Stream. Journal of Neuroscience, 2010, 30, 16601-16608.	1.7	368
12	Multiple conflict-driven control mechanisms in the human brain. Trends in Cognitive Sciences, 2008, 12, 374-380.	4.0	353
13	EEG Biofeedback of low beta band components: frequency-specific effects on variables of attention and event-related brain potentials. Clinical Neurophysiology, 2004, 115, 131-139.	0.7	351
14	Foundation and Practice of Neurofeedback for the Treatment of Epilepsy. Applied Psychophysiology Biofeedback, 2006, 31, 21-35.	1.0	249
15	Separate conflict-specific cognitive control mechanisms in the human brain. NeuroImage, 2007, 35, 940-948.	2.1	247
16	Working memory as internal attention: Toward an integrative account of internal and external selection processes. Psychonomic Bulletin and Review, 2013, 20, 228-242.	1.4	237
17	Learned self-regulation of EEG frequency components affects attention and event-related brain potentials in humans. NeuroReport, 2001, 12, 4155-4159.	0.6	233
18	Intentional false responding shares neural substrates with response conflict and cognitive control. NeuroImage, 2005, 25, 267-277.	2.1	210

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19	Hypnosis decouples cognitive control from conflict monitoring processes of the frontal lobe. NeuroImage, 2005, 27, 969-978.	2.1	198
20	Ecological validity of neurofeedback. NeuroReport, 2003, 14, 1221-1224.	0.6	196
21	Neural Dynamics of Rejection Sensitivity. Journal of Cognitive Neuroscience, 2007, 19, 945-956.	1.1	189
22	Measuring Adaptive Control in Conflict Tasks. Trends in Cognitive Sciences, 2019, 23, 769-783.	4.0	179
23	Neural Integration of Top-Down Spatial and Feature-Based Information in Visual Search. Journal of Neuroscience, 2008, 28, 6141-6151.	1.7	176
24	Creatures of habit (and control): a multi-level learning perspective on the modulation of congruency effects. Frontiers in Psychology, 2014, 5, 1247.	1.1	164
25	Validating the efficacy of neurofeedback for optimising performance. Progress in Brain Research, 2006, 159, 421-431.	0.9	130
26	Getting a Grip on Cognitive Flexibility. Current Directions in Psychological Science, 2018, 27, 470-476.	2.8	129
27	The Neural Underpinnings of How Reward Associations Can Both Guide and Misguide Attention. Journal of Neuroscience, 2011, 31, 9752-9759.	1.7	124
28	Simultaneous transcranial magnetic stimulation and single-neuron recording in alert non-human primates. Nature Neuroscience, 2014, 17, 1130-1136.	7.1	123
29	An insula-frontostriatal network mediates flexible cognitive control by adaptively predicting changing control demands. Nature Communications, 2015, 6, 8165.	5.8	114
30	Attention Sharpens the Distinction between Expected and Unexpected Percepts in the Visual Brain. Journal of Neuroscience, 2013, 33, 18438-18447.	1.7	111
31	Going, going, gone: characterizing the time-course of congruency sequence effects. Frontiers in Psychology, 2010, 1, 154.	1.1	105
32	Determinants of congruency sequence effects without learning and memory confounds.. Journal of Experimental Psychology: Human Perception and Performance, 2014, 40, 2022-2037.	0.7	103
33	Thalamic Control of Human Attention Driven by Memory and Learning. Current Biology, 2014, 24, 993-999.	1.8	101
34	The effects of neurofeedback training on the spectral topography of the electroencephalogram. Clinical Neurophysiology, 2004, 115, 2452-2460.	0.7	100
35	Mistaking a House for a Face: Neural Correlates of Misperception in Healthy Humans. Cerebral Cortex, 2006, 16, 500-508.	1.6	100
36	EEG signature and phenomenology of alpha/theta neurofeedback training versus mock feedback. Applied Psychophysiology Biofeedback, 2002, 27, 261-270.	1.0	98

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37	Neocortical Connectivity during Episodic Memory Formation. PLoS Biology, 2006, 4, e128.	2.6	96
38	Priming of Control: Implicit Contextual Cuing of Top-down Attentional Set. Journal of Neuroscience, 2012, 32, 8192-8200.	1.7	94
39	Neurofeedback treatment of epilepsy: from basic rationale to practical application. Expert Review of Neurotherapeutics, 2006, 6, 247-257.	1.4	87
40	Ecological validity of neurofeedback: modulation of slow wave EEG enhances musical performance. NeuroReport, 2003, 14, 1221-4.	0.6	86
41	Cognitive control over working memory biases of selection. Psychonomic Bulletin and Review, 2012, 19, 639-646.	1.4	78
42	Concurrent Repetition Enhancement and Suppression Responses in Extrastriate Visual Cortex. Cerebral Cortex, 2013, 23, 2235-2244.	1.6	78
43	(No) time for control: Frontal theta dynamics reveal the cost of temporally guided conflict anticipation. Cognitive, Affective and Behavioral Neuroscience, 2015, 15, 787-807.	1.0	75
44	Bayesian modeling of flexible cognitive control. Neuroscience and Biobehavioral Reviews, 2014, 46, 30-43.	2.9	70
45	Monitoring Demands for Executive Control: Shared Functions between Human and Nonhuman Primates. Trends in Neurosciences, 2017, 40, 15-27.	4.2	70
46	Neural Conflict-Control Mechanisms Improve Memory for Target Stimuli. Cerebral Cortex, 2015, 25, 833-843.	1.6	69
47	The Role of Anterior Cingulate Cortex in the Affective Evaluation of Conflict. Journal of Cognitive Neuroscience, 2017, 29, 137-149.	1.1	66
48	Search for a Threatening Target Triggers Limbic Guidance of Spatial Attention. Journal of Neuroscience, 2009, 29, 10563-10572.	1.7	65
49	Right Ventrolateral Prefrontal Cortex Mediates Individual Differences in Conflict-driven Cognitive Control. Journal of Cognitive Neuroscience, 2011, 23, 3903-3913.	1.1	65
50	Critical validation studies of neurofeedback. Child and Adolescent Psychiatric Clinics of North America, 2005, 14, 83-104.	1.0	63
51	Where Memory Meets Attention: Neural Substrates of Negative Priming. Journal of Cognitive Neuroscience, 2005, 17, 1774-1784.	1.1	62
52	Feature-Based Attention and Feature-Based Expectation. Trends in Cognitive Sciences, 2016, 20, 401-404.	4.0	61
53	Inhibition-Induced Forgetting. Psychological Science, 2015, 26, 27-38.	1.8	60
54	Center-Surround Inhibition in Working Memory. Current Biology, 2016, 26, 64-68.	1.8	60

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55	Cortical and subcortical contributions to context-control learning. Neuroscience and Biobehavioral Reviews, 2019, 99, 33-41.	2.9	60
56	The Working Memory Stroop Effect: When Internal Representations Clash With External Stimuli. Psychological Science, 2014, 25, 1619-1629.	1.8	59
57	The Caudate Nucleus Mediates Learning of Stimulusâ€“Control State Associations. Journal of Neuroscience, 2017, 37, 1028-1038.	1.7	59
58	Dynamic Trial-by-Trial Recoding of Task-Set Representations in the Frontoparietal Cortex Mediates Behavioral Flexibility. Journal of Neuroscience, 2017, 37, 11037-11050.	1.7	55
59	Affective Modulation of Cognitive Control is Determined by Performance-Contingency and Mediated by Ventromedial Prefrontal and Cingulate Cortex. Journal of Neuroscience, 2013, 33, 16961-16970.	1.7	54
60	Prefrontal cortex and cognitive control: motivating functional hierarchies. Nature Neuroscience, 2009, 12, 821-822.	7.1	51
61	A translational bridge between mouse and human models of learned safety. Annals of Medicine, 2010, 42, 127-134.	1.5	51
62	Cueing cognitive flexibility: Item-specific learning of switch readiness.. Journal of Experimental Psychology: Human Perception and Performance, 2017, 43, 1950-1960.	0.7	51
63	The congruency sequence effect emerges when the distracter precedes the target. Acta Psychologica, 2015, 156, 8-21.	0.7	47
64	Automatic Prioritization of Self-Referential Stimuli in Working Memory. Psychological Science, 2019, 30, 415-423.	1.8	41
65	Surprise! A unifying model of dorsal anterior cingulate function?. Nature Neuroscience, 2011, 14, 1219-1220.	7.1	40
66	Explaining neural signals in human visual cortex with an associative learning model.. Behavioral Neuroscience, 2012, 126, 575-581.	0.6	40
67	Using Neural Pattern Classifiers to Quantify the Modularity of Conflict-Control Mechanisms in the Human Brain. Cerebral Cortex, 2014, 24, 1793-1805.	1.6	38
68	Memory Meets Control in Hippocampal and Striatal Binding of Stimuli, Responses, and Attentional Control States. Journal of Neuroscience, 2015, 35, 14885-14895.	1.7	38
69	Inhibition-Induced Forgetting Results from Resource Competition between Response Inhibition and Memory Encoding Processes. Journal of Neuroscience, 2015, 35, 11936-11945.	1.7	36
70	Causal Evidence for Learning-Dependent Frontal Lobe Contributions to Cognitive Control. Journal of Neuroscience, 2018, 38, 962-973.	1.7	34
71	Memory structures for encoding and retrieving a piece of music: an ERP investigation. Cognitive Brain Research, 2004, 22, 36-44.	3.3	31
72	Differential age-related decline in conflict-driven task-set shielding from emotional versus non-emotional distracters. Neuropsychologia, 2010, 48, 1697-1706.	0.7	30

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73	Hierarchically Organized Medial Frontal Cortex-Basal Ganglia Loops Selectively Control Task- and Response-Selection. Journal of Neuroscience, 2017, 37, 7893-7905.	1.7	30
74	Contextual Adaptation of Cognitive Flexibility is driven by Task- and Item-Level Learning. Cognitive, Affective and Behavioral Neuroscience, 2020, 20, 757-782.	1.0	29
75	A Parieto-Medial Temporal Pathway for the Strategic Control over Working Memory Biases in Human Visual Attention. Journal of Neuroscience, 2012, 32, 17563-17571.	1.7	28
76	The Temporal Dynamics of Electroencephalographic Responses to Alpha/Theta Neurofeedback Training in Healthy Subjects. Journal of Neurotherapy, 2004, 8, 43-57.	0.9	27
77	Integrated externally and internally generated task predictions jointly guide cognitive control in prefrontal cortex. ELife, 2018, 7, .	2.8	26
78	Grounding predictive coding models in empirical neuroscience research. Behavioral and Brain Sciences, 2013, 36, 210-211.	0.4	25
79	Different levels of learning interact to shape the congruency sequence effect.. Journal of Experimental Psychology: Learning Memory and Cognition, 2016, 42, 566-583.	0.7	25
80	Ventromedial Prefrontal Cortex Drives the Prioritization of Self-Associated Stimuli in Working Memory. Journal of Neuroscience, 2021, 41, 2012-2023.	1.7	25
81	Resolving Emotional Conflict: A Role for the Rostral Anterior Cingulate Cortex in Modulating Activity in the Amygdala. Neuron, 2006, 52, 1121.	3.8	24
82	Affective Privilege: Asymmetric Interference by Emotional Distracters. Frontiers in Psychology, 2011, 2, 232.	1.1	23
83	Neural Representation of Working Memory Content Is Modulated by Visual Attentional Demand. Journal of Cognitive Neuroscience, 2017, 29, 2011-2024.	1.1	23
84	Resource-sharing between internal maintenance and external selection modulates attentional capture by working memory content. Frontiers in Human Neuroscience, 2014, 8, 670.	1.0	22
85	Feature expectation heightens visual sensitivity during fine orientation discrimination. Journal of Vision, 2015, 15, 14.	0.1	22
86	Satisficing in split-second decision making is characterized by strategic cue discounting.. Journal of Experimental Psychology: Learning Memory and Cognition, 2016, 42, 1937-1956.	0.7	22
87	Visual Prediction Error Spreads Across Object Features in Human Visual Cortex. Journal of Neuroscience, 2016, 36, 12746-12763.	1.7	22
88	Neural Substrates of Working Memory Updating. Journal of Cognitive Neuroscience, 2020, 32, 2285-2302.	1.1	21
89	Neural Mechanisms Mediating Contingent Capture of Attention by Affective Stimuli. Journal of Cognitive Neuroscience, 2012, 24, 1113-1126.	1.1	20
90	Model-Based Analysis of Context-Specific Cognitive Control. Frontiers in Psychology, 2012, 3, 358.	1.1	20

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91	Control by association: Transfer of implicitly primed attentional states across linked stimuli. Psychonomic Bulletin and Review, 2018, 25, 617-626.	1.4	20
92	Human noise blindness drives suboptimal cognitive inference. Nature Communications, 2019, 10, 1719.	5.8	19
93	Cognitive overcontrol as a trait marker in anorexia nervosa? Aberrant task- and response-set switching in remitted patients.. Journal of Abnormal Psychology, 2019, 128, 806-812.	2.0	19
94	Dissociable causal roles for left and right parietal cortex in controlling attentional biases from the contents of working memory. NeuroImage, 2014, 100, 200-205.	2.1	18
95	Distractor-relevance determines whether task-switching enhances or impairs distractor memory.. Journal of Experimental Psychology: Human Perception and Performance, 2016, 42, 1-5.	0.7	18
96	Memories of control: One-shot episodic learning of item-specific stimulus-control associations. Cognition, 2020, 199, 104220.	1.1	17
97	Switching task sets creates event boundaries in memory. Cognition, 2022, 221, 104992.	1.1	15
98	Preparatory neural activity predicts performance on a conflict task. Brain Research, 2007, 1176, 92-102.	1.1	14
99	Item-specific priming of voluntary task switches.. Journal of Experimental Psychology: Human Perception and Performance, 2020, 46, 434-441.	0.7	13
100	Comparing neural substrates of emotional vs. non-emotional conflict modulation by global control context. Frontiers in Human Neuroscience, 2014, 8, 66.	1.0	12
101	Emotional task management: neural correlates of switching between affective and non-affective task-sets. Social Cognitive and Affective Neuroscience, 2015, 10, 1045-1053.	1.5	11
102	Attentional guidance by working memory differs by paradigm: An individual-differences approach. Attention, Perception, and Psychophysics, 2015, 77, 704-712.	0.7	11
103	Quality and accessibility of visual working memory during cognitive control of attentional guidance: A Bayesian model comparison approach. Visual Cognition, 2015, 23, 337-356.	0.9	11
104	Reduced Risk-Taking following Disruption of the Intraparietal Sulcus. Frontiers in Neuroscience, 2016, 10, 588.	1.4	11
105	Decoding working memory content from attentional biases. Psychonomic Bulletin and Review, 2017, 24, 1252-1260.	1.4	11
106	Evidence for a single mechanism gating perceptual and long-term memory information into working memory. Cognition, 2021, 212, 104668.	1.1	11
107	Performance feedback promotes proactive but not reactive adaptation of conflict-control.. Journal of Experimental Psychology: Human Perception and Performance, 2020, 46, 369-387.	0.7	10
108	Probabilistic inference under time pressure leads to a cortical-to-subcortical shift in decision evidence integration. NeuroImage, 2017, 162, 138-150.	2.1	9

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109	Neural Dynamics of Cognitive Control over Working Memory Capture of Attention. Journal of Cognitive Neuroscience, 2019, 31, 1079-1090.	1.1	9
110	Retrieval context determines whether event boundaries impair or enhance temporal order memory. Cognition, 2022, 225, 105145.	1.1	9
111	Neural Mechanisms of Strategic Adaptation in Attentional Flexibility. Journal of Cognitive Neuroscience, 2020, 32, 989-1008.	1.1	8
112	Mind wandering at encoding, but not at retrieval, disrupts one-shot stimulus-control learning. Attention, Perception, and Psychophysics, 2021, 83, 2968-2982.	0.7	8
113	Cognitive control over prospective task-set interference.. Journal of Experimental Psychology: Human Perception and Performance, 2018, 44, 741-755.	0.7	8
114	Negative Emotion Does Not Modulate Rapid Feature Integration Effects. Frontiers in Psychology, 2012, 3, 100.	1.1	7
115	Disentangling the Roles of Cue Visibility and Knowledge in Adjusting Cognitive Control: A Preregistered Direct Replication of the Farooqui and Manly (2015) Study. Psychological Science, 2020, 31, 468-479.	1.8	6
116	Spontaneous Task Structure Formation Results in a Cost to Incidental Memory of Task Stimuli. Frontiers in Psychology, 2019, 10, 2833.	1.1	5
117	Frequency of prospective use modulates instructed task-set interference.. Journal of Experimental Psychology: Human Perception and Performance, 2018, 44, 1970-1980.	0.7	5
118	Minimal impact of consolidation on learned switch-readiness.. Journal of Experimental Psychology: Learning Memory and Cognition, 2021, 47, 1622-1637.	0.7	5
119	The Caudate Nucleus Mediates Learning of Stimulusâ€“Control State Associations. Journal of Neuroscience, 2017, 37, 1028-1038.	1.7	5
120	Declarative and procedural working memory updating processes are mutually facilitative. Attention, Perception, and Psychophysics, 2020, 82, 1858-1871.	0.7	4
121	Evaluating the learning of stimulus-control associations through incidental memory of reinforcement events.. Journal of Experimental Psychology: Learning Memory and Cognition, 2021, 47, 1599-1621.	0.7	4
122	Appealing to the cognitive miser: Using demand avoidance to modulate cognitive flexibility in cued and voluntary task switching.. Journal of Experimental Psychology: Human Perception and Performance, 2021, 47, 1329-1347.	0.7	4
123	More efficient shielding for internal than external attention? Evidence from asymmetrical switch costs.. Journal of Experimental Psychology: Human Perception and Performance, 2020, 46, 912-925.	0.7	4
124	Neural Dynamics of Context-sensitive Adjustments in Cognitive Flexibility. Journal of Cognitive Neuroscience, 2022, 34, 480-494.	1.1	4
125	Mind-reading without the scanner: Behavioural decoding of working memory content. Visual Cognition, 2015, 23, 862-866.	0.9	3
126	Neural Dynamics of Conflict Control in Working Memory. Journal of Cognitive Neuroscience, 2021, 33, 2079-2092.	1.1	3

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127	Assessing the Durability of One-Shot Stimulus-Control Bindings. Journal of Cognition, 2022, 5, .	1.0	3
128	Learning from mistakes: Incidental encoding reveals a time-dependent enhancement of posterror target processing.. Journal of Experimental Psychology: General, 2022, 151, 718-730.	1.5	3
129	Attention and Decision-Making. , 2014, , .		2
130	Distinct but correlated latent factors support the regulation of learned conflict-control and task-switching. Cognitive Psychology, 2022, 135, 101474.	0.9	2
131	Motor Control: Exploring the Neurochemistry of Subliminal Inhibition. Current Biology, 2010, 20, R852-R853.	1.8	1
132	Probability of guessing, not precision, changes in mixture models of visual working memory during cognitive control of attentional guidance. Visual Cognition, 2014, 22, 1027-1030.	0.9	1
133	Probabilistic inferential decision-making under time pressure in rhesus macaques (Macaca mulatta).. Journal of Comparative Psychology (Washington, D C: 1983), 2019, 133, 380-396.	0.3	1
134	The many faces of learning-guided cognitive control.. Journal of Experimental Psychology: Learning Memory and Cognition, 2021, 47, 1547-1549.	0.7	1
135	Conflict-driven cognitive control mechanisms in the human brain. Neuroscience Research, 2009, 65, S30.	1.0	0
136	Processing overlap-dependent distractor dilution rather than perceptual target load determines attentional selectivity. Attention, Perception, and Psychophysics, 2018, 80, 2048-2059.	0.7	0
137	Stimulus variability and task relevance modulate binding-learning. Attention, Perception, and Psychophysics, 2021, , 1.	0.7	0