

Dominik R Bach

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8960691/publications.pdf>

Version: 2024-02-01

109
papers

5,584
citations

81434

41
h-index

107981

68
g-index

120
all docs

120
docs citations

120
times ranked

6419
citing authors

#	ARTICLE	IF	CITATIONS
1	Processing of Temporal Unpredictability in Human and Animal Amygdala. <i>Journal of Neuroscience</i> , 2007, 27, 5958-5966.	1.7	379
2	How the Opinion of Others Affects Our Valuation of Objects. <i>Current Biology</i> , 2010, 20, 1165-1170.	1.8	276
3	Knowing how much you don't know: a neural organization of uncertainty estimates. <i>Nature Reviews Neuroscience</i> , 2012, 13, 572-586.	4.9	266
4	Action Dominates Valence in Anticipatory Representations in the Human Striatum and Dopaminergic Midbrain. <i>Journal of Neuroscience</i> , 2011, 31, 7867-7875.	1.7	202
5	The effect of appraisal level on processing of emotional prosody in meaningless speech. <i>NeuroImage</i> , 2008, 42, 919-927.	2.1	176
6	Modelling event-related skin conductance responses. <i>International Journal of Psychophysiology</i> , 2010, 75, 349-356.	0.5	162
7	Time-series analysis for rapid event-related skin conductance responses. <i>Journal of Neuroscience Methods</i> , 2009, 184, 224-234.	1.3	155
8	Human Hippocampus Arbitrates Approach-Avoidance Conflict. <i>Current Biology</i> , 2014, 24, 541-547.	1.8	146
9	Charting the landscape of priority problems in psychiatry, part 1: classification and diagnosis. <i>Lancet Psychiatry</i> , 2016, 3, 77-83.	3.7	143
10	Deep and Superficial Amygdala Nuclei Projections Revealed In Vivo by Probabilistic Tractography. <i>Journal of Neuroscience</i> , 2011, 31, 618-623.	1.7	139
11	Rising Sound Intensity: An Intrinsic Warning Cue Activating the Amygdala. <i>Cerebral Cortex</i> , 2008, 18, 145-150.	1.6	131
12	Analytic measures for quantification of arousal from spontaneous skin conductance fluctuations. <i>International Journal of Psychophysiology</i> , 2010, 76, 52-55.	0.5	120
13	Neural Activity Associated with the Passive Prediction of Ambiguity and Risk for Aversive Events. <i>Journal of Neuroscience</i> , 2009, 29, 1648-1656.	1.7	114
14	Model-based analysis of skin conductance responses: Towards causal models in psychophysiology. <i>Psychophysiology</i> , 2013, 50, 15-22.	1.2	107
15	An improved algorithm for model-based analysis of evoked skin conductance responses. <i>Biological Psychology</i> , 2013, 94, 490-497.	1.1	104
16	Looming sounds as warning signals: The function of motion cues. <i>International Journal of Psychophysiology</i> , 2009, 74, 28-33.	0.5	101
17	Algorithms for survival: a comparative perspective on emotions. <i>Nature Reviews Neuroscience</i> , 2017, 18, 311-319.	4.9	99
18	The Known Unknowns: Neural Representation of Second-Order Uncertainty, and Ambiguity. <i>Journal of Neuroscience</i> , 2011, 31, 4811-4820.	1.7	84

#	ARTICLE	IF	CITATIONS
19	Deconstructing risk: Separable encoding of variance and skewness in the brain. <i>NeuroImage</i> , 2011, 58, 1139-1149.	2.1	82
20	A head-to-head comparison of SCRalyze and Ledalab, two model-based methods for skin conductance analysis. <i>Biological Psychology</i> , 2014, 103, 63-68.	1.1	80
21	Dynamic causal modelling of anticipatory skin conductance responses. <i>Biological Psychology</i> , 2010, 85, 163-170.	1.1	79
22	A Stable Sparse Fear Memory Trace in Human Amygdala. <i>Journal of Neuroscience</i> , 2011, 31, 9383-9389.	1.7	73
23	Dissociable Reward and Timing Signals in Human Midbrain and Ventral Striatum. <i>Neuron</i> , 2011, 72, 654-664.	3.8	70
24	A Regret-Induced Status Quo Bias. <i>Journal of Neuroscience</i> , 2011, 31, 3320-3327.	1.7	65
25	Differential patterns of multisensory interactions in core and belt areas of human auditory cortex. <i>NeuroImage</i> , 2006, 31, 294-300.	2.1	64
26	Optimising a model-based approach to inferring fear learning from skin conductance responses. <i>Journal of Neuroscience Methods</i> , 2015, 255, 131-138.	1.3	62
27	Differentiable Neural Substrates for Learned and Described Value and Risk. <i>Current Biology</i> , 2010, 20, 1823-1829.	1.8	60
28	A solid frame for the window on cognition: Modeling event-related pupil responses. <i>Journal of Vision</i> , 2016, 16, 28.	0.1	59
29	Deconstructing white matter connectivity of human amygdala nuclei with thalamus and cortex subdivisions in vivo. <i>Human Brain Mapping</i> , 2017, 38, 3927-3940.	1.9	57
30	Measuring learning in human classical threat conditioning: Translational, cognitive and methodological considerations. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 114, 96-112.	2.9	56
31	Automatic relevance detection in the absence of a functional amygdala. <i>Neuropsychologia</i> , 2011, 49, 1302-1305.	0.7	55
32	Human Pavlovian fear conditioning conforms to probabilistic learning. <i>PLoS Computational Biology</i> , 2018, 14, e1006243.	1.5	55
33	A pupil size response model to assess fear learning. <i>Psychophysiology</i> , 2017, 54, 330-343.	1.2	54
34	Amygdala Lesions Reduce Anxiety-like Behavior in a Human Benzodiazepine-Sensitive Approach-Avoidance Conflict Test. <i>Biological Psychiatry</i> , 2017, 82, 522-531.	0.7	54
35	Psychophysiological modeling: Current state and future directions. <i>Psychophysiology</i> , 2018, 55, e13214.	1.2	52
36	Human fear conditioning: From neuroscience to the clinic. <i>Behaviour Research and Therapy</i> , 2020, 124, 103528.	1.6	52

#	ARTICLE	IF	CITATIONS
37	Structure of orbitofrontal cortex predicts social influence. <i>Current Biology</i> , 2012, 22, R123-R124.	1.8	51
38	Impaired threat prioritisation after selective bilateral amygdala lesions. <i>Cortex</i> , 2015, 63, 206-213.	1.1	51
39	Anxiety-Like Behavioural Inhibition Is Normative under Environmental Threat-Reward Correlations. <i>PLoS Computational Biology</i> , 2015, 11, e1004646.	1.5	49
40	Blocking human fear memory with the matrix metalloproteinase inhibitor doxycycline. <i>Molecular Psychiatry</i> , 2018, 23, 1584-1589.	4.1	49
41	Charting the landscape of priority problems in psychiatry, part 2: pathogenesis and aetiology. <i>Lancet Psychiatry</i> , 2016, 3, 84-90.	3.7	46
42	Dynamic causal modeling of spontaneous fluctuations in skin conductance. <i>Psychophysiology</i> , 2011, 48, 252-257.	1.2	44
43	Psychophysiological modelling and the measurement of fear conditioning. <i>Behaviour Research and Therapy</i> , 2020, 127, 103576.	1.6	44
44	The influence of emotion clarity on emotional prosody identification in paranoid schizophrenia. <i>Psychological Medicine</i> , 2009, 39, 927-938.	2.7	43
45	Heuristic and optimal policy computations in the human brain during sequential decision-making. <i>Nature Communications</i> , 2018, 9, 325.	5.8	42
46	Embodied neurology: an integrative framework for neurological disorders. <i>Brain</i> , 2016, 139, 1855-1861.	3.7	39
47	Modeling fear-conditioned bradycardia in humans. <i>Psychophysiology</i> , 2016, 53, 930-939.	1.2	39
48	Dissecting the Function of Hippocampal Oscillations in a Human Anxiety Model. <i>Journal of Neuroscience</i> , 2017, 37, 6869-6876.	1.7	39
49	Amygdala involvement in self-blame regret. <i>Social Neuroscience</i> , 2011, 6, 178-189.	0.7	38
50	Minimizing threat via heuristic and optimal policies recruits hippocampus and medial prefrontal cortex. <i>Nature Human Behaviour</i> , 2019, 3, 733-745.	6.2	38
51	The neural underpinnings of an optimal exploitation of social information under uncertainty. <i>Social Cognitive and Affective Neuroscience</i> , 2014, 9, 1746-1753.	1.5	35
52	Effect of valproate and pregabalin on human anxiety-like behaviour in a randomised controlled trial. <i>Translational Psychiatry</i> , 2018, 8, 157.	2.4	34
53	Decision-making ability, psychopathology, and brain connectivity. <i>Neuron</i> , 2021, 109, 2025-2040.e7.	3.8	34
54	Cross-modal effects of value on perceptual acuity and stimulus encoding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15244-15249.	3.3	32

#	ARTICLE	IF	CITATIONS
55	Altered lateralisation of emotional prosody processing in schizophrenia. <i>Schizophrenia Research</i> , 2009, 110, 180-187.	1.1	31
56	Modeling event-related heart period responses. <i>Psychophysiology</i> , 2016, 53, 837-846.	1.2	29
57	Modeling startle eyeblink electromyogram to assess fear learning. <i>Psychophysiology</i> , 2017, 54, 204-214.	1.2	29
58	Emotional stress reactivity in irritable bowel syndrome. <i>European Journal of Gastroenterology and Hepatology</i> , 2006, 18, 629-636.	0.8	28
59	Calibrating the experimental measurement of psychological attributes. <i>Nature Human Behaviour</i> , 2020, 4, 1229-1235.	6.2	28
60	Disentangling Hippocampal and Amygdala Contribution to Human Anxiety-Like Behavior. <i>Journal of Neuroscience</i> , 2019, 39, 8517-8526.	1.7	27
61	Stimulus-invariant auditory cortex threat encoding during fear conditioning with simple and complex sounds. <i>NeuroImage</i> , 2018, 166, 276-284.	2.1	24
62	BOLD correlates of edge detection in human auditory cortex. <i>NeuroImage</i> , 2007, 36, 194-201.	2.1	23
63	Evidence for Impaired Sound Intensity Processing in Schizophrenia. <i>Schizophrenia Bulletin</i> , 2011, 37, 426-431.	2.3	23
64	Assessing fear learning via conditioned respiratory amplitude responses. <i>Psychophysiology</i> , 2017, 54, 215-223.	1.2	23
65	Testing a linear time invariant model for skin conductance responses by intraneural recording and stimulation. <i>Psychophysiology</i> , 2018, 55, e12986.	1.2	23
66	A Role for the Striatum in Regret-related Choice Repetition. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 845-856.	1.1	21
67	Maintaining Homeostasis by Decision-Making. <i>PLoS Computational Biology</i> , 2015, 11, e1004301.	1.5	21
68	Cross-species anxiety tests in psychiatry: pitfalls and promises. <i>Molecular Psychiatry</i> , 2022, 27, 154-163.	4.1	21
69	Current trends and opportunities in the methodology of electrodermal activity measurement. <i>Physiological Measurement</i> , 2022, 43, 02TR01.	1.2	21
70	Unimpaired discrimination of fearful prosody after amygdala lesion. <i>Neuropsychologia</i> , 2013, 51, 2070-2074.	0.7	20
71	A cost minimisation and Bayesian inference model predicts startle reflex modulation across species. <i>Journal of Theoretical Biology</i> , 2015, 370, 53-60.	0.8	20
72	Dissociated lateralization of transient and sustained blood oxygen level-dependent signal components in human primary auditory cortex. <i>NeuroImage</i> , 2007, 34, 1637-1642.	2.1	19

#	ARTICLE	IF	CITATIONS
73	Facial expression influences face identity recognition during the attentional blink.. <i>Emotion</i> , 2014, 14, 1007-1013.	1.5	19
74	Sympathetic nerve activity can be estimated from skin conductance responses – A comment on Henderson et al. (2012). <i>NeuroImage</i> , 2014, 84, 122-123.	2.1	19
75	High-precision magnetoencephalography for reconstructing amygdalar and hippocampal oscillations during prediction of safety and threat. <i>Human Brain Mapping</i> , 2019, 40, 4114-4129.	1.9	19
76	Whole-Brain Neural Dynamics of Probabilistic Reward Prediction. <i>Journal of Neuroscience</i> , 2017, 37, 3789-3798.	1.7	18
77	Establishing operant conflict tests for the translational study of anxiety in mice. <i>Psychopharmacology</i> , 2019, 236, 2527-2541.	1.5	18
78	Predictors of risky foraging behaviour in healthy young people. <i>Nature Human Behaviour</i> , 2020, 4, 832-843.	6.2	17
79	A matching pursuit algorithm for inferring tonic sympathetic arousal from spontaneous skin conductance fluctuations. <i>Psychophysiology</i> , 2015, 52, 1106-1112.	1.2	16
80	A linear model for event-related respiration responses. <i>Journal of Neuroscience Methods</i> , 2016, 270, 147-155.	1.3	16
81	Prior fear conditioning and reward learning interact in fear and reward networks. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 67.	1.0	15
82	Threat Memory Reminder Under Matrix Metalloproteinase 9 Inhibitor Doxycycline Globally Reduces Subsequent Memory Plasticity. <i>Journal of Neuroscience</i> , 2019, 39, 9424-9434.	1.7	15
83	Brain responses to auditory and visual stimulus offset: Shared representations of temporal edges. <i>Human Brain Mapping</i> , 2009, 30, 725-733.	1.9	13
84	Primary auditory cortex representation of fear-conditioned musical sounds. <i>Human Brain Mapping</i> , 2020, 41, 882-891.	1.9	13
85	Prazosin during threat discrimination boosts memory of the safe stimulus. <i>Learning and Memory</i> , 2017, 24, 597-601.	0.5	12
86	Representation of probabilistic outcomes during risky decision-making. <i>Nature Communications</i> , 2020, 11, 2419.	5.8	12
87	Impact of a reminder/extinction procedure on threat-conditioned pupil size and skin conductance responses. <i>Learning and Memory</i> , 2020, 27, 164-172.	0.5	12
88	The cognitive architecture of anxiety-like behavioral inhibition.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2017, 43, 18-29.	0.7	12
89	Filtering and model-based analysis independently improve skin-conductance response measures in the fMRI environment: Validation in a sample of women with PTSD. <i>International Journal of Psychophysiology</i> , 2020, 158, 86-95.	0.5	11
90	The effect of visual salience on memory-based choices. <i>Journal of Neurophysiology</i> , 2014, 111, 481-487.	0.9	10

#	ARTICLE	IF	CITATIONS
91	Hippocampal Representation of Threat Features and Behavior in a Human Approach-Avoidance Conflict Anxiety Task. <i>Journal of Neuroscience</i> , 2020, 40, 6748-6758.	1.7	10
92	Inhibiting Human Aversive Memory by Transcranial Theta-Burst Stimulation to the Primary Sensory Cortex. <i>Biological Psychiatry</i> , 2022, 92, 149-157.	0.7	10
93	Influences of habitual and situational bodily symptom focusing on stress responses. <i>Cognition and Emotion</i> , 2007, 21, 1091-1101.	1.2	9
94	No substantial change in the balance between model-free and model-based control via training on the two-step task. <i>PLoS Computational Biology</i> , 2019, 15, e1007443.	1.5	9
95	Computational optimization of associative learning experiments. <i>PLoS Computational Biology</i> , 2020, 16, e1007593.	1.5	9
96	No evidence for a negative prediction error signal in peripheral indicators of sympathetic arousal. <i>NeuroImage</i> , 2012, 59, 883-884.	2.1	8
97	Sustained Magnetic Responses in Temporal Cortex Reflect Instantaneous Significance of Approaching and Receding Sounds. <i>PLoS ONE</i> , 2015, 10, e0134060.	1.1	8
98	Model of theta frequency perturbations and contextual fear memory. <i>Hippocampus</i> , 2021, 31, 448-457.	0.9	8
99	Temporally Unpredictable Sounds Exert a Context-Dependent Influence on Evaluation of Unrelated Images. <i>PLoS ONE</i> , 2015, 10, e0131065.	1.1	6
100	Pavlovian-to-instrumental transfer after human threat conditioning. <i>Learning and Memory</i> , 2019, 26, 167-175.	0.5	6
101	Evidence for a minimal role of stimulus awareness in reversal of threat learning. <i>Learning and Memory</i> , 2021, 28, 95-103.	0.5	5
102	Saccadic scanpath length: an index for human threat conditioning. <i>Behavior Research Methods</i> , 2021, 53, 1426-1439.	2.3	4
103	Measuring human trace fear conditioning. <i>Psychophysiology</i> , 2022, 59, .	1.2	4
104	The Experimental Manipulation of Uncertainty. <i>NeuroMethods</i> , 2011, , 193-216.	0.2	3
105	Skin Conductance Measures in Neuroeconomic Research. <i>Studies in Neuroscience, Psychology and Behavioral Economics</i> , 2016, , 345-357.	0.1	2
106	Social motives in a patient with bilateral selective amygdala lesions: Shift in prosocial motivation but not in social value orientation. <i>Neuropsychologia</i> , 2021, 162, 108016.	0.7	2
107	“Simple dissociative disorder” in Central Europe: a case report. <i>European Psychiatry</i> , 2005, 20, 572-573.	0.1	0
108	Decision-Making Under Uncertainty. <i>Studies in Neuroscience, Psychology and Behavioral Economics</i> , 2016, , 99-111.	0.1	0

#	ARTICLE	IF	CITATIONS
109	Aversive conditioning: Principles of memory storage in sensory cortex. <i>Current Biology</i> , 2022, 32, R426-R428.	1.8	0