

# Dominik R Bach

## List of Publications by Year in descending order

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Version: 2024-02-01

109  
papers

5,584  
citations

71102

41  
h-index

95266

68  
g-index

120  
all docs

120  
docs citations

120  
times ranked

5597  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cross-species anxiety tests in psychiatry: pitfalls and promises. <i>Molecular Psychiatry</i> , 2022, 27, 154-163.	7.9	21
2	Current trends and opportunities in the methodology of electrodermal activity measurement. <i>Physiological Measurement</i> , 2022, 43, 02TR01.	2.1	21
3	Inhibiting Human Aversive Memory by Transcranial Theta-Burst Stimulation to the Primary Sensory Cortex. <i>Biological Psychiatry</i> , 2022, 92, 149-157.	1.3	10
4	Aversive conditioning: Principles of memory storage in sensory cortex. <i>Current Biology</i> , 2022, 32, R426-R428.	3.9	0
5	Measuring human trace fear conditioning. <i>Psychophysiology</i> , 2022, 59, .	2.4	4
6	Saccadic scanpath length: an index for human threat conditioning. <i>Behavior Research Methods</i> , 2021, 53, 1426-1439.	4.0	4
7	Evidence for a minimal role of stimulus awareness in reversal of threat learning. <i>Learning and Memory</i> , 2021, 28, 95-103.	1.3	5
8	Model of theta frequency perturbations and contextual fear memory. <i>Hippocampus</i> , 2021, 31, 448-457.	1.9	8
9	Decision-making ability, psychopathology, and brain connectivity. <i>Neuron</i> , 2021, 109, 2025-2040.e7.	8.1	34
10	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.	1.6	2
11	Primary auditory cortex representation of fear-conditioned musical sounds. <i>Human Brain Mapping</i> , 2020, 41, 882-891.	3.6	13
12	Human fear conditioning: From neuroscience to the clinic. <i>Behaviour Research and Therapy</i> , 2020, 124, 103528.	3.1	52
13	Calibrating the experimental measurement of psychological attributes. <i>Nature Human Behaviour</i> , 2020, 4, 1229-1235.	12.0	28
14	Hippocampal Representation of Threat Features and Behavior in a Human Approach-Avoidance Conflict Anxiety Task. <i>Journal of Neuroscience</i> , 2020, 40, 6748-6758.	3.6	10
15	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.	1.0	11
16	Representation of probabilistic outcomes during risky decision-making. <i>Nature Communications</i> , 2020, 11, 2419.	12.8	12
17	Predictors of risky foraging behaviour in healthy young people. <i>Nature Human Behaviour</i> , 2020, 4, 832-843.	12.0	17
18	Impact of a reminder/extinction procedure on threat-conditioned pupil size and skin conductance responses. <i>Learning and Memory</i> , 2020, 27, 164-172.	1.3	12

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19	Psychophysiological modelling and the measurement of fear conditioning. Behaviour Research and Therapy, 2020, 127, 103576.	3.1	44
20	Computational optimization of associative learning experiments. PLoS Computational Biology, 2020, 16, e1007593.	3.2	9
21	Measuring learning in human classical threat conditioning: Translational, cognitive and methodological considerations. Neuroscience and Biobehavioral Reviews, 2020, 114, 96-112.	6.1	56
22	High-precision magnetoencephalography for reconstructing amygdalar and hippocampal oscillations during prediction of safety and threat. Human Brain Mapping, 2019, 40, 4114-4129.	3.6	19
23	Establishing operant conflict tests for the translational study of anxiety in mice. Psychopharmacology, 2019, 236, 2527-2541.	3.1	18
24	Threat Memory Reminder Under Matrix Metalloproteinase 9 Inhibitor Doxycycline Globally Reduces Subsequent Memory Plasticity. Journal of Neuroscience, 2019, 39, 9424-9434.	3.6	15
25	No substantial change in the balance between model-free and model-based control via training on the two-step task. PLoS Computational Biology, 2019, 15, e1007443.	3.2	9
26	Disentangling Hippocampal and Amygdala Contribution to Human Anxiety-Like Behavior. Journal of Neuroscience, 2019, 39, 8517-8526.	3.6	27
27	Minimizing threat via heuristic and optimal policies recruits hippocampus and medial prefrontal cortex. Nature Human Behaviour, 2019, 3, 733-745.	12.0	38
28	Pavlovian-to-instrumental transfer after human threat conditioning. Learning and Memory, 2019, 26, 167-175.	1.3	6
29	Heuristic and optimal policy computations in the human brain during sequential decision-making. Nature Communications, 2018, 9, 325.	12.8	42
30	Blocking human fear memory with the matrix metalloproteinase inhibitor doxycycline. Molecular Psychiatry, 2018, 23, 1584-1589.	7.9	49
31	Testing a linear time invariant model for skin conductance responses by intraneural recording and stimulation. Psychophysiology, 2018, 55, e12986.	2.4	23
32	Stimulus-invariant auditory cortex threat encoding during fear conditioning with simple and complex sounds. NeuroImage, 2018, 166, 276-284.	4.2	24
33	Psychophysiological modeling: Current state and future directions. Psychophysiology, 2018, 55, e13214.	2.4	52
34	Human Pavlovian fear conditioning conforms to probabilistic learning. PLoS Computational Biology, 2018, 14, e1006243.	3.2	55
35	Effect of valproate and pregabalin on human anxiety-like behaviour in a randomised controlled trial. Translational Psychiatry, 2018, 8, 157.	4.8	34
36	A pupil size response model to assess fear learning. Psychophysiology, 2017, 54, 330-343.	2.4	54

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37	Whole-Brain Neural Dynamics of Probabilistic Reward Prediction. <i>Journal of Neuroscience</i> , 2017, 37, 3789-3798.	3.6	18
38	Amygdala Lesions Reduce Anxiety-like Behavior in a Human Benzodiazepine-Sensitive Approach-Avoidance Conflict Test. <i>Biological Psychiatry</i> , 2017, 82, 522-531.	1.3	54
39	Modeling startle eyeblink electromyogram to assess fear learning. <i>Psychophysiology</i> , 2017, 54, 204-214.	2.4	29
40	Deconstructing white matter connectivity of human amygdala nuclei with thalamus and cortex subdivisions in vivo. <i>Human Brain Mapping</i> , 2017, 38, 3927-3940.	3.6	57
41	Dissecting the Function of Hippocampal Oscillations in a Human Anxiety Model. <i>Journal of Neuroscience</i> , 2017, 37, 6869-6876.	3.6	39
42	Algorithms for survival: a comparative perspective on emotions. <i>Nature Reviews Neuroscience</i> , 2017, 18, 311-319.	10.2	99
43	Assessing fear learning via conditioned respiratory amplitude responses. <i>Psychophysiology</i> , 2017, 54, 215-223.	2.4	23
44	Prazosin during threat discrimination boosts memory of the safe stimulus. <i>Learning and Memory</i> , 2017, 24, 597-601.	1.3	12
45	The cognitive architecture of anxiety-like behavioral inhibition.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2017, 43, 18-29.	0.9	12
46	A solid frame for the window on cognition: Modeling event-related pupil responses. <i>Journal of Vision</i> , 2016, 16, 28.	0.3	59
47	Skin Conductance Measures in Neuroeconomic Research. <i>Studies in Neuroscience, Psychology and Behavioral Economics</i> , 2016, , 345-357.	0.3	2
48	Decision-Making Under Uncertainty. <i>Studies in Neuroscience, Psychology and Behavioral Economics</i> , 2016, , 99-111.	0.3	0
49	Modeling event-related heart period responses. <i>Psychophysiology</i> , 2016, 53, 837-846.	2.4	29
50	A linear model for event-related respiration responses. <i>Journal of Neuroscience Methods</i> , 2016, 270, 147-155.	2.5	16
51	Embodied neurology: an integrative framework for neurological disorders. <i>Brain</i> , 2016, 139, 1855-1861.	7.6	39
52	Charting the landscape of priority problems in psychiatry, part 2: pathogenesis and aetiology. <i>Lancet Psychiatry</i> , 2016, 3, 84-90.	7.4	46
53	Charting the landscape of priority problems in psychiatry, part 1: classification and diagnosis. <i>Lancet Psychiatry</i> , 2016, 3, 77-83.	7.4	143
54	Modeling fear-conditioned bradycardia in humans. <i>Psychophysiology</i> , 2016, 53, 930-939.	2.4	39

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55	A matching pursuit algorithm for inferring tonic sympathetic arousal from spontaneous skin conductance fluctuations. <i>Psychophysiology</i> , 2015, 52, 1106-1112.	2.4	16
56	Anxiety-Like Behavioural Inhibition Is Normative under Environmental Threat-Reward Correlations. <i>PLoS Computational Biology</i> , 2015, 11, e1004646.	3.2	49
57	Temporally Unpredictable Sounds Exert a Context-Dependent Influence on Evaluation of Unrelated Images. <i>PLoS ONE</i> , 2015, 10, e0131065.	2.5	6
58	Sustained Magnetic Responses in Temporal Cortex Reflect Instantaneous Significance of Approaching and Receding Sounds. <i>PLoS ONE</i> , 2015, 10, e0134060.	2.5	8
59	A cost minimisation and Bayesian inference model predicts startle reflex modulation across species. <i>Journal of Theoretical Biology</i> , 2015, 370, 53-60.	1.7	20
60	Maintaining Homeostasis by Decision-Making. <i>PLoS Computational Biology</i> , 2015, 11, e1004301.	3.2	21
61	Impaired threat prioritisation after selective bilateral amygdala lesions. <i>Cortex</i> , 2015, 63, 206-213.	2.4	51
62	Optimising a model-based approach to inferring fear learning from skin conductance responses. <i>Journal of Neuroscience Methods</i> , 2015, 255, 131-138.	2.5	62
63	Prior fear conditioning and reward learning interact in fear and reward networks. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 67.	2.0	15
64	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.	7.1	32
65	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.	2.2	80
66	Facial expression influences face identity recognition during the attentional blink.. <i>Emotion</i> , 2014, 14, 1007-1013.	1.8	19
67	The neural underpinnings of an optimal exploitation of social information under uncertainty. <i>Social Cognitive and Affective Neuroscience</i> , 2014, 9, 1746-1753.	3.0	35
68	Sympathetic nerve activity can be estimated from skin conductance responses – A comment on Henderson et al. (2012). <i>NeuroImage</i> , 2014, 84, 122-123.	4.2	19
69	Human Hippocampus Arbitrates Approach-Avoidance Conflict. <i>Current Biology</i> , 2014, 24, 541-547.	3.9	146
70	The effect of visual salience on memory-based choices. <i>Journal of Neurophysiology</i> , 2014, 111, 481-487.	1.8	10
71	Unimpaired discrimination of fearful prosody after amygdala lesion. <i>Neuropsychologia</i> , 2013, 51, 2070-2074.	1.6	20
72	An improved algorithm for model-based analysis of evoked skin conductance responses. <i>Biological Psychology</i> , 2013, 94, 490-497.	2.2	104

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73	Model-based analysis of skin conductance responses: Towards causal models in psychophysiology. <i>Psychophysiology</i> , 2013, 50, 15-22.	2.4	107
74	No evidence for a negative prediction error signal in peripheral indicators of sympathetic arousal. <i>NeuroImage</i> , 2012, 59, 883-884.	4.2	8
75	Knowing how much you don't know: a neural organization of uncertainty estimates. <i>Nature Reviews Neuroscience</i> , 2012, 13, 572-586.	10.2	266
76	Structure of orbitofrontal cortex predicts social influence. <i>Current Biology</i> , 2012, 22, R123-R124.	3.9	51
77	A Regret-Induced Status Quo Bias. <i>Journal of Neuroscience</i> , 2011, 31, 3320-3327.	3.6	65
78	Deconstructing risk: Separable encoding of variance and skewness in the brain. <i>NeuroImage</i> , 2011, 58, 1139-1149.	4.2	82
79	Dissociable Reward and Timing Signals in Human Midbrain and Ventral Striatum. <i>Neuron</i> , 2011, 72, 654-664.	8.1	70
80	Dynamic causal modeling of spontaneous fluctuations in skin conductance. <i>Psychophysiology</i> , 2011, 48, 252-257.	2.4	44
81	Automatic relevance detection in the absence of a functional amygdala. <i>Neuropsychologia</i> , 2011, 49, 1302-1305.	1.6	55
82	Action Dominates Valence in Anticipatory Representations in the Human Striatum and Dopaminergic Midbrain. <i>Journal of Neuroscience</i> , 2011, 31, 7867-7875.	3.6	202
83	Evidence for Impaired Sound Intensity Processing in Schizophrenia. <i>Schizophrenia Bulletin</i> , 2011, 37, 426-431.	4.3	23
84	A Stable Sparse Fear Memory Trace in Human Amygdala. <i>Journal of Neuroscience</i> , 2011, 31, 9383-9389.	3.6	73
85	The Known Unknowns: Neural Representation of Second-Order Uncertainty, and Ambiguity. <i>Journal of Neuroscience</i> , 2011, 31, 4811-4820.	3.6	84
86	Deep and Superficial Amygdala Nuclei Projections Revealed In Vivo by Probabilistic Tractography. <i>Journal of Neuroscience</i> , 2011, 31, 618-623.	3.6	139
87	Amygdala involvement in self-blame regret. <i>Social Neuroscience</i> , 2011, 6, 178-189.	1.3	38
88	A Role for the Striatum in Regret-related Choice Repetition. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 845-856.	2.3	21
89	The Experimental Manipulation of Uncertainty. <i>NeuroMethods</i> , 2011, , 193-216.	0.3	3
90	How the Opinion of Others Affects Our Valuation of Objects. <i>Current Biology</i> , 2010, 20, 1165-1170.	3.9	276

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91	Differentiable Neural Substrates for Learned and Described Value and Risk. <i>Current Biology</i> , 2010, 20, 1823-1829.	3.9	60
92	Modelling event-related skin conductance responses. <i>International Journal of Psychophysiology</i> , 2010, 75, 349-356.	1.0	162
93	Analytic measures for quantification of arousal from spontaneous skin conductance fluctuations. <i>International Journal of Psychophysiology</i> , 2010, 76, 52-55.	1.0	120
94	Dynamic causal modelling of anticipatory skin conductance responses. <i>Biological Psychology</i> , 2010, 85, 163-170.	2.2	79
95	Neural Activity Associated with the Passive Prediction of Ambiguity and Risk for Aversive Events. <i>Journal of Neuroscience</i> , 2009, 29, 1648-1656.	3.6	114
96	The influence of emotion clarity on emotional prosody identification in paranoid schizophrenia. <i>Psychological Medicine</i> , 2009, 39, 927-938.	4.5	43
97	Brain responses to auditory and visual stimulus offset: Shared representations of temporal edges. <i>Human Brain Mapping</i> , 2009, 30, 725-733.	3.6	13
98	Time-series analysis for rapid event-related skin conductance responses. <i>Journal of Neuroscience Methods</i> , 2009, 184, 224-234.	2.5	155
99	Looming sounds as warning signals: The function of motion cues. <i>International Journal of Psychophysiology</i> , 2009, 74, 28-33.	1.0	101
100	Altered lateralisation of emotional prosody processing in schizophrenia. <i>Schizophrenia Research</i> , 2009, 110, 180-187.	2.0	31
101	The effect of appraisal level on processing of emotional prosody in meaningless speech. <i>NeuroImage</i> , 2008, 42, 919-927.	4.2	176
102	Rising Sound Intensity: An Intrinsic Warning Cue Activating the Amygdala. <i>Cerebral Cortex</i> , 2008, 18, 145-150.	2.9	131
103	Processing of Temporal Unpredictability in Human and Animal Amygdala. <i>Journal of Neuroscience</i> , 2007, 27, 5958-5966.	3.6	379
104	Influences of habitual and situational bodily symptom focusing on stress responses. <i>Cognition and Emotion</i> , 2007, 21, 1091-1101.	2.0	9
105	Dissociated lateralization of transient and sustained blood oxygen level-dependent signal components in human primary auditory cortex. <i>NeuroImage</i> , 2007, 34, 1637-1642.	4.2	19
106	BOLD correlates of edge detection in human auditory cortex. <i>NeuroImage</i> , 2007, 36, 194-201.	4.2	23
107	Differential patterns of multisensory interactions in core and belt areas of human auditory cortex. <i>NeuroImage</i> , 2006, 31, 294-300.	4.2	64
108	Emotional stress reactivity in irritable bowel syndrome. <i>European Journal of Gastroenterology and Hepatology</i> , 2006, 18, 629-636.	1.6	28

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109	â€œSimple dissociative disorderâ€•in Central Europe: a case report. <i>European Psychiatry</i> , 2005, 20, 572-573.	0.2	0