Dominik R Bach

List of Publications by Year
in descending order

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109	5,584	71102	95266
papers	citations	41 h-index	68 g-index

120	120	120	5597
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Processing of Temporal Unpredictability in Human and Animal Amygdala. Journal of Neuroscience, 2007, 27, 5958-5966.	3.6	379
2	How the Opinion of Others Affects Our Valuation of Objects. Current Biology, 2010, 20, 1165-1170.	3.9	276
3	Knowing how much you don't know: a neural organization of uncertainty estimates. Nature Reviews Neuroscience, 2012, 13, 572-586.	10.2	266
4	Action Dominates Valence in Anticipatory Representations in the Human Striatum and Dopaminergic Midbrain. Journal of Neuroscience, 2011, 31, 7867-7875.	3.6	202
5	The effect of appraisal level on processing of emotional prosody in meaningless speech. NeuroImage, 2008, 42, 919-927.	4.2	176
6	Modelling event-related skin conductance responses. International Journal of Psychophysiology, 2010, 75, 349-356.	1.0	162
7	Time-series analysis for rapid event-related skin conductance responses. Journal of Neuroscience Methods, 2009, 184, 224-234.	2.5	155
8	Human Hippocampus Arbitrates Approach-Avoidance Conflict. Current Biology, 2014, 24, 541-547.	3.9	146
9	Charting the landscape of priority problems in psychiatry, part 1: classification and diagnosis. Lancet Psychiatry,the, 2016, 3, 77-83.	7.4	143
10	Deep and Superficial Amygdala Nuclei Projections Revealed In Vivo by Probabilistic Tractography. Journal of Neuroscience, 2011, 31, 618-623.	3.6	139
11	Rising Sound Intensity: An Intrinsic Warning Cue Activating the Amygdala. Cerebral Cortex, 2008, 18, 145-150.	2.9	131
12	Analytic measures for quantification of arousal from spontaneous skin conductance fluctuations. International Journal of Psychophysiology, 2010, 76, 52-55.	1.0	120
13	Neural Activity Associated with the Passive Prediction of Ambiguity and Risk for Aversive Events. Journal of Neuroscience, 2009, 29, 1648-1656.	3.6	114
14	Modelâ€based analysis of skin conductance responses: Towards causal models in psychophysiology. Psychophysiology, 2013, 50, 15-22.	2.4	107
15	An improved algorithm for model-based analysis of evoked skin conductance responses. Biological Psychology, 2013, 94, 490-497.	2.2	104
16	Looming sounds as warning signals: The function of motion cues. International Journal of Psychophysiology, 2009, 74, 28-33.	1.0	101
17	Algorithms for survival: a comparative perspective on emotions. Nature Reviews Neuroscience, 2017, 18, 311-319.	10.2	99
18	The Known Unknowns: Neural Representation of Second-Order Uncertainty, and Ambiguity. Journal of Neuroscience, 2011, 31, 4811-4820.	3.6	84

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19	Deconstructing risk: Separable encoding of variance and skewness in the brain. NeuroImage, 2011, 58, 1139-1149.	4.2	82
20	A head-to-head comparison of SCRalyze and Ledalab, two model-based methods for skin conductance analysis. Biological Psychology, 2014, 103, 63-68.	2.2	80
21	Dynamic causal modelling of anticipatory skin conductance responses. Biological Psychology, 2010, 85, 163-170.	2.2	79
22	A Stable Sparse Fear Memory Trace in Human Amygdala. Journal of Neuroscience, 2011, 31, 9383-9389.	3.6	73
23	Dissociable Reward and Timing Signals in Human Midbrain and Ventral Striatum. Neuron, 2011, 72, 654-664.	8.1	70
24	A Regret-Induced Status Quo Bias. Journal of Neuroscience, 2011, 31, 3320-3327.	3.6	65
25	Differential patterns of multisensory interactions in core and belt areas of human auditory cortex. NeuroImage, 2006, 31, 294-300.	4.2	64
26	Optimising a model-based approach to inferring fear learning from skin conductance responses. Journal of Neuroscience Methods, 2015, 255, 131-138.	2.5	62
27	Differentiable Neural Substrates for Learned and Described Value and Risk. Current Biology, 2010, 20, 1823-1829.	3.9	60
28	A solid frame for the window on cognition: Modeling event-related pupil responses. Journal of Vision, 2016, 16, 28.	0.3	59
29	Deconstructing white matter connectivity of human amygdala nuclei with thalamus and cortex subdivisions in vivo. Human Brain Mapping, 2017, 38, 3927-3940.	3.6	57
30	Measuring learning in human classical threat conditioning: Translational, cognitive and methodological considerations. Neuroscience and Biobehavioral Reviews, 2020, 114, 96-112.	6.1	56
31	Automatic relevance detection in the absence of a functional amygdala. Neuropsychologia, 2011, 49, 1302-1305.	1.6	55
32	Human Pavlovian fear conditioning conforms to probabilistic learning. PLoS Computational Biology, 2018, 14, e1006243.	3.2	55
33	A pupil size response model to assess fear learning. Psychophysiology, 2017, 54, 330-343.	2.4	54
34	Amygdala Lesions Reduce Anxiety-like Behavior in a Human Benzodiazepine-Sensitive Approachâ€“Avoidance Conflict Test. Biological Psychiatry, 2017, 82, 522-531.	1.3	54
35	Psychophysiological modeling: Current state and future directions. Psychophysiology, 2018, 55, e13214.	2.4	52
36	Human fear conditioning: From neuroscience to the clinic. Behaviour Research and Therapy, 2020, 124, 103528.	3.1	52

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37	Structure of orbitofrontal cortex predicts social influence. Current Biology, 2012, 22, R123-R124.	3.9	51
38	Impaired threat prioritisation after selective bilateral amygdala lesions. Cortex, 2015, 63, 206-213.	2.4	51
39	Anxiety-Like Behavioural Inhibition Is Normative under Environmental Threat-Reward Correlations. PLoS Computational Biology, 2015, 11, e1004646.	3.2	49
40	Blocking human fear memory with the matrix metalloproteinase inhibitor doxycycline. Molecular Psychiatry, 2018, 23, 1584-1589.	7.9	49
41	Charting the landscape of priority problems in psychiatry, part 2: pathogenesis and aetiology. Lancet Psychiatry,the, 2016, 3, 84-90.	7.4	46
42	Dynamic causal modeling of spontaneous fluctuations in skin conductance. Psychophysiology, 2011, 48, 252-257.	2.4	44
43	Psychophysiological modelling and the measurement of fear conditioning. Behaviour Research and Therapy, 2020, 127, 103576.	3.1	44
44	The influence of emotion clarity on emotional prosody identification in paranoid schizophrenia. Psychological Medicine, 2009, 39, 927-938.	4.5	43
45	Heuristic and optimal policy computations in the human brain during sequential decision-making. Nature Communications, 2018, 9, 325.	12.8	42
46	Embodied neurology: an integrative framework for neurological disorders. Brain, 2016, 139, 1855-1861.	7.6	39
47	Modeling fearâ€conditioned bradycardia in humans. Psychophysiology, 2016, 53, 930-939.	2.4	39
48	Dissecting the Function of Hippocampal Oscillations in a Human Anxiety Model. Journal of Neuroscience, 2017, 37, 6869-6876.	3.6	39
49	Amygdala involvement in self-blame regret. Social Neuroscience, 2011, 6, 178-189.	1.3	38
50	Minimizing threat via heuristic and optimal policies recruits hippocampus and medial prefrontal cortex. Nature Human Behaviour, 2019, 3, 733-745.	12.0	38
51	The neural underpinnings of an optimal exploitation of social information under uncertainty. Social Cognitive and Affective Neuroscience, 2014, 9, 1746-1753.	3.0	35
52	Effect of valproate and pregabalin on human anxiety-like behaviour in a randomised controlled trial. Translational Psychiatry, 2018, 8, 157.	4.8	34
53	Decision-making ability, psychopathology, and brain connectivity. Neuron, 2021, 109, 2025-2040.e7.	8.1	34
54	Cross-modal effects of value on perceptual acuity and stimulus encoding. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15244-15249.	7.1	32

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55	Altered lateralisation of emotional prosody processing in schizophrenia. Schizophrenia Research, 2009, 110, 180-187.	2.0	31
56	Modeling eventâ€related heart period responses. Psychophysiology, 2016, 53, 837-846.	2.4	29
57	Modeling startle eyeblink electromyogram to assess fear learning. Psychophysiology, 2017, 54, 204-214.	2.4	29
58	Emotional stress reactivity in irritable bowel syndrome. European Journal of Gastroenterology and Hepatology, 2006, 18, 629-636.	1.6	28
59	Calibrating the experimental measurement of psychological attributes. Nature Human Behaviour, 2020, 4, 1229-1235.	12.0	28
60	Disentangling Hippocampal and Amygdala Contribution to Human Anxiety-Like Behavior. Journal of Neuroscience, 2019, 39, 8517-8526.	3.6	27
61	Stimulus-invariant auditory cortex threat encoding during fear conditioning with simple and complex sounds. NeuroImage, 2018, 166, 276-284.	4.2	24
62	BOLD correlates of edge detection in human auditory cortex. NeuroImage, 2007, 36, 194-201.	4.2	23
63	Evidence for Impaired Sound Intensity Processing in Schizophrenia. Schizophrenia Bulletin, 2011, 37, 426-431.	4.3	23
64	Assessing fear learning via conditioned respiratory amplitude responses. Psychophysiology, 2017, 54, 215-223.	2.4	23
65	Testing a linear time invariant model for skin conductance responses by intraneural recording and stimulation. Psychophysiology, 2018, 55, e12986.	2.4	23
66	A Role for the Striatum in Regret-related Choice Repetition. Journal of Cognitive Neuroscience, 2011, 23, 845-856.	2.3	21
67	Maintaining Homeostasis by Decision-Making. PLoS Computational Biology, 2015, 11, e1004301.	3.2	21
68	Cross-species anxiety tests in psychiatry: pitfalls and promises. Molecular Psychiatry, 2022, 27, 154-163.	7.9	21
69	Current trends and opportunities in the methodology of electrodermal activity measurement. Physiological Measurement, 2022, 43, 02TR01.	2.1	21
70	Unimpaired discrimination of fearful prosody after amygdala lesion. Neuropsychologia, 2013, 51, 2070-2074.	1.6	20
71	A cost minimisation and Bayesian inference model predicts startle reflex modulation across species. Journal of Theoretical Biology, 2015, 370, 53-60.	1.7	20
72	Dissociated lateralization of transient and sustained blood oxygen level-dependent signal components in human primary auditory cortex. NeuroImage, 2007, 34, 1637-1642.	4.2	19

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73	Facial expression influences face identity recognition during the attentional blink.. Emotion, 2014, 14, 1007-1013.	1.8	19
74	Sympathetic nerve activity can be estimated from skin conductance responses â€" A comment on Henderson et al. (2012). NeuroImage, 2014, 84, 122-123.	4.2	19
75	Highâ€precision magnetoencephalography for reconstructing amygdalar and hippocampal oscillations during prediction of safety and threat. Human Brain Mapping, 2019, 40, 4114-4129.	3.6	19
76	Whole-Brain Neural Dynamics of Probabilistic Reward Prediction. Journal of Neuroscience, 2017, 37, 3789-3798.	3.6	18
77	Establishing operant conflict tests for the translational study of anxiety in mice. Psychopharmacology, 2019, 236, 2527-2541.	3.1	18
78	Predictors of risky foraging behaviour in healthy young people. Nature Human Behaviour, 2020, 4, 832-843.	12.0	17
79	A matching pursuit algorithm for inferring tonic sympathetic arousal from spontaneous skin conductance fluctuations. Psychophysiology, 2015, 52, 1106-1112.	2.4	16
80	A linear model for event-related respiration responses. Journal of Neuroscience Methods, 2016, 270, 147-155.	2.5	16
81	Prior fear conditioning and reward learning interact in fear and reward networks. Frontiers in Behavioral Neuroscience, 2014, 8, 67.	2.0	15
82	Threat Memory Reminder Under Matrix Metalloproteinase 9 Inhibitor Doxycycline Globally Reduces Subsequent Memory Plasticity. Journal of Neuroscience, 2019, 39, 9424-9434.	3.6	15
83	Brain responses to auditory and visual stimulus offset: Shared representations of temporal edges. Human Brain Mapping, 2009, 30, 725-733.	3.6	13
84	Primary auditory cortex representation of fearâ€conditioned musical sounds. Human Brain Mapping, 2020, 41, 882-891.	3.6	13
85	Prazosin during threat discrimination boosts memory of the safe stimulus. Learning and Memory, 2017, 24, 597-601.	1.3	12
86	Representation of probabilistic outcomes during risky decision-making. Nature Communications, 2020, 11, 2419.	12.8	12
87	Impact of a reminder/extinction procedure on threat-conditioned pupil size and skin conductance responses. Learning and Memory, 2020, 27, 164-172.	1.3	12
88	The cognitive architecture of anxiety-like behavioral inhibition.. Journal of Experimental Psychology: Human Perception and Performance, 2017, 43, 18-29.	0.9	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. International Journal of Psychophysiology, 2020, 158, 86-95.	1.0	11
90	The effect of visual salience on memory-based choices. Journal of Neurophysiology, 2014, 111, 481-487.	1.8	10

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91	Hippocampal Representation of Threat Features and Behavior in a Human Approachâ€“Avoidance Conflict Anxiety Task. Journal of Neuroscience, 2020, 40, 6748-6758.	3.6	10
92	Inhibiting Human Aversive Memory by Transcranial Theta-Burst Stimulation to the Primary Sensory Cortex. Biological Psychiatry, 2022, 92, 149-157.	1.3	10
93	Influences of habitual and situational bodily symptom focusing on stress responses. Cognition and Emotion, 2007, 21, 1091-1101.	2.0	9
94	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
95	Computational optimization of associative learning experiments. PLoS Computational Biology, 2020, 16, e1007593.	3.2	9
96	No evidence for a negative prediction error signal in peripheral indicators of sympathetic arousal. NeuroImage, 2012, 59, 883-884.	4.2	8
97	Sustained Magnetic Responses in Temporal Cortex Reflect Instantaneous Significance of Approaching and Receding Sounds. PLoS ONE, 2015, 10, e0134060.	2.5	8
98	Model of theta frequency perturbations and contextual fear memory. Hippocampus, 2021, 31, 448-457.	1.9	8
99	Temporally Unpredictable Sounds Exert a Context-Dependent Influence on Evaluation of Unrelated Images. PLoS ONE, 2015, 10, e0131065.	2.5	6
100	Pavlovian-to-instrumental transfer after human threat conditioning. Learning and Memory, 2019, 26, 167-175.	1.3	6
101	Evidence for a minimal role of stimulus awareness in reversal of threat learning. Learning and Memory, 2021, 28, 95-103.	1.3	5
102	Saccadic scanpath length: an index for human threat conditioning. Behavior Research Methods, 2021, 53, 1426-1439.	4.0	4
103	Measuring human trace fear conditioning. Psychophysiology, 2022, 59, .	2.4	4
104	The Experimental Manipulation of Uncertainty. Neuromethods, 2011, , 193-216.	0.3	3
105	Skin Conductance Measures in Neuroeconomic Research. Studies in Neuroscience, Psychology and Behavioral Economics, 2016, , 345-357.	0.3	2
106	Social motives in a patient with bilateral selective amygdala lesions: Shift in prosocial motivation but not in social value orientation. Neuropsychologia, 2021, 162, 108016.	1.6	2
107	â€œSimple dissociative disorderâ€•in Central Europe: a case report. European Psychiatry, 2005, 20, 572-573.	0.2	0
108	Decision-Making Under Uncertainty. Studies in Neuroscience, Psychology and Behavioral Economics, 2016, , 99-111.	0.3	0

#	Article	IF	Citations
109	Aversive conditioning: Principles of memory storage inÂsensory cortex. Current Biology, 2022, 32, R426-R428.	3.9	0