

Matthias Bethge

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

10,904
citations

201575

27
h-index

79644

73
g-index

155
all docs

155
docs citations

155
times ranked

9352
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced Requests for Medical Rehabilitation Because of the SARS-CoV-2 Pandemic: A Difference-in-Differences Analysis. Archives of Physical Medicine and Rehabilitation, 2022, 103, 14-19.e2.	0.5	13
2	Self-Reported Prognosis of Employability as an Indicator of Need for Rehabilitation: A Cohort Study in People with Back Pain. Die Rehabilitation, 2022, 61, 88-96.	0.2	7
3	Effectiveness of medical rehabilitation in persons with back pain – lessons learned from a German cohort study. Disability and Rehabilitation, 2022, 44, 7039-7047.	0.9	5
4	Barriers to applying for medical rehabilitation: a time-to-event analysis of employees with severe back pain in Germany. Journal of Rehabilitation Medicine, 2022, 54, jrm00274.	0.8	5
5	Reproducibility of improvements in patient-reported functional ability following functional capacity evaluation. BMC Musculoskeletal Disorders, 2022, 23, 258.	0.8	0
6	An innovative case management intervention for people at high risk of permanent work disability to improve rehabilitation coverage and coordination of health services: a randomized controlled trial (AktiFAME, DRKS00024648). BMC Health Services Research, 2022, 22, 342.	0.9	2
7	Rehabilitation utilization of non-migrant and migrant persons with back pain: A cohort study using different definitions of migrant background. EClinicalMedicine, 2022, 46, 101351.	3.2	2
8	Work ability score as predictor of rehabilitation, disability pensions and death? A German cohort study among employees with back pain. Work, 2022, 73, 719-728.	0.6	5
9	The Current Practice of Gradual Return to Work in Germany: A Qualitative Study Protocol. International Journal of Environmental Research and Public Health, 2022, 19, 3740.	1.2	3
10	Unemployment due to the SARS-CoV-2-pandemic among people with and without severe disabilities: a difference-in-differences analysis. Occupational and Environmental Medicine, 2022, 79, 494-496.	1.3	1
11	Utilization Of Cardiac Rehabilitation During the SARS-CoV-2 Pandemic In Germany: A Difference-In-differences Analysis. Journal of Cardiopulmonary Rehabilitation and Prevention, 2022, 42, 287-289.	1.2	1
12	Self-reported work ability predicts health-related exit and absence from work, work participation, and death: longitudinal findings from a sample of German employees. International Archives of Occupational and Environmental Health, 2021, 94, 591-599.	1.1	26
13	Using Administrative Data to Assess the Risk of Permanent Work Disability: A Cohort Study. Journal of Occupational Rehabilitation, 2021, 31, 376-382.	1.2	4
14	Effects of Graded Return-to-Work: A Propensity-Score-Matched Analysis. FOM-Edition, 2021, , 89-101.	0.1	0
15	The Prevalence and Determinants of Being Offered and Accepting Operational Management Services – A Cohort Study. International Journal of Environmental Research and Public Health, 2021, 18, 2158.	1.2	4
16	Does social support mediate the effect of multimorbidity on mental wellbeing in the German working population? A longitudinal mediation analysis using structural equation modelling. SSM - Population Health, 2021, 13, 100744.	1.3	7
17	Is strain due to household and family work associated with a subjective need for rehabilitation among employees? A cross-sectional study. Zeitschrift Fur Evidenz, Fortbildung Und Qualitat Im Gesundheitswesen, 2021, 162, 32-39.	0.7	4
18	Work-related medical rehabilitation in patients with mental disorders: the protocol of a randomized controlled trial (WMP-R, DRKS00023175). BMC Psychiatry, 2021, 21, 225.	1.1	2

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19	Learning divisive normalization in primary visual cortex. <i>PLoS Computational Biology</i> , 2021, 17, e1009028.	1.5	21
20	Effectiveness of behavioural medical rehabilitation under real-life conditions in germany: a propensity-score matched analysis. <i>Journal of Rehabilitation Medicine</i> , 2021, , .	0.8	0
21	Employability and intention to apply for rehabilitation in people with back pain: A cross-sectional cohort study. <i>Journal of Rehabilitation Medicine</i> , 2020, 52, jrm00125.	0.8	4
22	The temporal structure of the inner retina at a single glance. <i>Scientific Reports</i> , 2020, 10, 4399.	1.6	14
23	Predictive validity of a customized functional capacity evaluation in patients with musculoskeletal disorders. <i>International Archives of Occupational and Environmental Health</i> , 2020, 93, 635-643.	1.1	4
24	Medizinisch-berufliche Maßnahmen. , 2020, , 173-183.		0
25	Functional Capacity Evaluation in Different Societal Contexts: Results of a Multicountry Study. <i>Journal of Occupational Rehabilitation</i> , 2019, 29, 222-236.	1.2	12
26	Effects of nationwide implementation of work-related medical rehabilitation in Germany: propensity score matched analysis. <i>Occupational and Environmental Medicine</i> , 2019, 76, 913-919.	1.3	23
27	Engineering a Less Artificial Intelligence. <i>Neuron</i> , 2019, 103, 967-979.	3.8	113
28	Associations between overcommitment, effortâ€“reward imbalance and mental health: findings from a longitudinal study. <i>International Archives of Occupational and Environmental Health</i> , 2019, 92, 559-567.	1.1	19
29	Using DeepLabCut for 3D markerless pose estimation across species and behaviors. <i>Nature Protocols</i> , 2019, 14, 2152-2176.	5.5	792
30	Deep convolutional models improve predictions of macaque V1 responses to natural images. <i>PLoS Computational Biology</i> , 2019, 15, e1006897.	1.5	179
31	Workâ€“related medical rehabilitation in patients with cancerâ€“Postrehabilitation results from a clusterâ€“randomized multicenter trial. <i>Cancer</i> , 2019, 125, 2666-2674.	2.0	11
32	Impact of Functional Capacity Evaluation on Patient-Reported Functional Ability: An Exploratory Diagnostic Beforeâ€“After Study. <i>Journal of Occupational Rehabilitation</i> , 2019, 29, 711-717.	1.2	8
33	Prognostic accuracy of the SIMBO regarding future return-to-work problems in patients with mental and musculoskeletal disorders. <i>Disability and Rehabilitation</i> , 2019, 41, 1571-1577.	0.9	6
34	Work-Related Medical Rehabilitation in Cancer. <i>Deutsches A&#x0308;rztblatt International</i> , 2019, 116, 592-599.	0.6	6
35	DeepGaze III: Using Deep Learning to Probe Interactions Between Scene Content and Scanpath History in Fixation Selection. , 2019, , .		8
36	Image content is more important than Boumaâ€“TM's Law for scene metamers. <i>ELife</i> , 2019, 8, .	2.8	27

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37	Development and implementation of work-related medical rehabilitation in cancer patients using organizational ethnography and action research methodology. <i>International Journal of Occupational Medicine and Environmental Health</i> , 2019, 32, 217-228.	0.6	2
38	Behavioural evidence for the existence of a spatiotopic free-viewing saliency map. <i>Journal of Vision</i> , 2019, 19, 305a.	0.1	0
39	Inducing a human-like shape bias leads to emergent human-level distortion robustness in CNNs. <i>Journal of Vision</i> , 2019, 19, 209c.	0.1	1
40	Measuring work functioning in individuals with musculoskeletal disorders with reference to the International Classification of Functioning, Disability, and Health: a systematic literature review. <i>International Journal of Rehabilitation Research</i> , 2018, 41, 97-109.	0.7	7
41	Effects of rehabilitation aftercare on work participation in patients with musculoskeletal disorders: a propensity score-matched analysis. <i>International Journal of Rehabilitation Research</i> , 2018, 41, 74-80.	0.7	5
42	Acceptance and barriers to access of occupational e-mental health: cross-sectional findings from a health-risk population of employees. <i>International Archives of Occupational and Environmental Health</i> , 2018, 91, 305-316.	1.1	39
43	Effectiveness of Graded Return to Work After Multimodal Rehabilitation in Patients with Mental Disorders: A Propensity Score Analysis. <i>Journal of Occupational Rehabilitation</i> , 2018, 28, 180-189.	1.2	28
44	Self-Reported Work Ability Predicts Rehabilitation Measures, Disability Pensions, Other Welfare Benefits, and Work Participation: Longitudinal Findings from a Sample of German Employees. <i>Journal of Occupational Rehabilitation</i> , 2018, 28, 495-503.	1.2	23
45	Injustice at work affects work ability and role functioning: findings of a cohort study. <i>International Journal of Public Health</i> , 2018, 63, 447-456.	1.0	3
46	Faster processing of moving compared with flashed bars in awake macaque V1 provides a neural correlate of the flash lag illusion. <i>Journal of Neurophysiology</i> , 2018, 120, 2430-2452.	0.9	25
47	Implementing the German Model of Work-Related Medical Rehabilitation: Did the Delivered Dose of Work-Related Treatment Components Increase?. <i>Archives of Physical Medicine and Rehabilitation</i> , 2018, 99, 2465-2471.	0.5	4
48	Community-based benchmarking improves spike rate inference from two-photon calcium imaging data. <i>PLoS Computational Biology</i> , 2018, 14, e1006157.	1.5	118
49	Attentional fluctuations induce shared variability in macaque primary visual cortex. <i>Nature Communications</i> , 2018, 9, 2654.	5.8	58
50	Rehabilitation access and effectiveness for persons with back pain: the protocol of a cohort study (REHAB-BP, DRKS00011554). <i>BMC Public Health</i> , 2018, 18, 22.	1.2	14
51	DeepLabCut: markerless pose estimation of user-defined body parts with deep learning. <i>Nature Neuroscience</i> , 2018, 21, 1281-1289.	7.1	2,710
52	Influence of social support among employees on mental health and work ability—a prospective cohort study in 2013–15. <i>European Journal of Public Health</i> , 2018, 28, 819-823.	0.1	17
53	Predictive Validity of a Screening Instrument for the Risk of Non-Return to Work in Patients With Internal Diseases. <i>Archives of Physical Medicine and Rehabilitation</i> , 2017, 98, 989-996.e1.	0.5	14
54	Inhibition decorrelates visual feature representations in the inner retina. <i>Nature</i> , 2017, 542, 439-444.	13.7	225

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55	Texture and art with deep neural networks. <i>Current Opinion in Neurobiology</i> , 2017, 46, 178-186.	2.0	55
56	Detecting distortions of peripherally presented letter stimuli under crowded conditions. <i>Attention, Perception, and Psychophysics</i> , 2017, 79, 850-862.	0.7	2
57	Associations between organizational injustice and work ability, self-reported disability days, and medical consultations: cross-sectional findings from employees with prior sickness absence payments. <i>International Archives of Occupational and Environmental Health</i> , 2017, 90, 789-797.	1.1	6
58	Understanding Low- and High-Level Contributions to Fixation Prediction. , 2017, , .		183
59	Signatures of criticality arise from random subsampling in simple population models. <i>PLoS Computational Biology</i> , 2017, 13, e1005718.	1.5	28
60	A parametric texture model based on deep convolutional features closely matches texture appearance for humans. <i>Journal of Vision</i> , 2017, 17, 5.	0.1	40
61	Towards matching peripheral appearance for arbitrary natural images using deep features. <i>Journal of Vision</i> , 2017, 17, 786.	0.1	2
62	Of Human Observers and Deep Neural Networks: A Detailed Psychophysical Comparison. <i>Journal of Vision</i> , 2017, 17, 806.	0.1	1
63	Testing models of peripheral encoding using metamerism in an oddity paradigm. <i>Journal of Vision</i> , 2016, 16, 4.	0.1	36
64	Image Style Transfer Using Convolutional Neural Networks. , 2016, , .		3,141
65	Benchmarking Spike Rate Inference in Population Calcium Imaging. <i>Neuron</i> , 2016, 90, 471-482.	3.8	154
66	Reading Out Olfactory Receptors: Feedforward Circuits Detect Odors in Mixtures without Demixing. <i>Neuron</i> , 2016, 91, 1110-1123.	3.8	42
67	Work-related medical rehabilitation in patients with musculoskeletal disorders: the protocol of a propensity score matched effectiveness study (EVA-WMR, DRKS00009780). <i>BMC Public Health</i> , 2016, 16, 804.	1.2	10
68	Effects of acupuncture on quality of life and pain in patients with osteoporosis—a pilot randomized controlled trial. <i>Archives of Osteoporosis</i> , 2016, 11, 34.	1.0	20
69	Effectiveness of work-related medical rehabilitation in cancer patients: study protocol of a cluster-randomized multicenter trial. <i>BMC Cancer</i> , 2016, 16, 544.	1.1	14
70	On the Structure of Neuronal Population Activity under Fluctuations in Attentional State. <i>Journal of Neuroscience</i> , 2016, 36, 1775-1789.	1.7	90
71	Medizinisch-berufliche Maßnahmen. , 2016, , 149-159.		3
72	Effects of graded return-to-work: a propensity-score-matched analysis. <i>Scandinavian Journal of Work, Environment and Health</i> , 2016, 42, 273-279.	1.7	47

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73	Synaptic unreliability facilitates information transmission in balanced cortical populations. <i>Physical Review E</i> , 2015, 91, 062707.	0.8	6
74	Self-Reported Poor Work Ability—An Indicator of Need for Rehabilitation? A Cross-Sectional Study of a Sample of German Employees. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2015, 94, 958-966.	0.7	29
75	A web-based intervention to promote applications for rehabilitation: a study protocol for a randomized controlled trial. <i>Trials</i> , 2015, 16, 436.	0.7	5
76	Prospective Cohort Analysis of the Predictive Validity of a Screening Instrument for Severe Restrictions of Work Ability in Patients with Musculoskeletal Disorders. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2015, 94, 617-626.	0.7	17
77	Work-related rehabilitation aftercare for patients with musculoskeletal disorders. <i>International Journal of Rehabilitation Research</i> , 2015, 38, 226-232.	0.7	11
78	ISPRM discussion paper: Proposing dimensions for an International Classification System for Service Organization in Health-related Rehabilitation. <i>Journal of Rehabilitation Medicine</i> , 2015, 47, 809-815.	0.8	26
79	Multiprofessional teamwork in work-related medical rehabilitation for patients with chronic musculoskeletal disorders. <i>Journal of Rehabilitation Medicine</i> , 2015, 47, 58-65.	0.8	18
80	Work-family conflicts and self-reported work ability: cross-sectional findings in women with chronic musculoskeletal disorders. <i>BMC Musculoskeletal Disorders</i> , 2015, 16, 58.	0.8	16
81	Direct and indirect effects of organizational justice on work ability. <i>Occupational Medicine</i> , 2014, 64, 638-643.	0.8	10
82	Slowness and Sparseness Have Diverging Effects on Complex Cell Learning. <i>PLoS Computational Biology</i> , 2014, 10, e1003468.	1.5	12
83	An Exchange of Ideas on the World Report on Disability. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2014, 93, S1-S3.	0.7	0
84	The World Report on Disability. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2014, 93, S4-S11.	0.7	45
85	Effects of intensified work-related multidisciplinary rehabilitation on occupational participation. <i>International Journal of Rehabilitation Research</i> , 2014, 37, 61-66.	0.7	48
86	Dissemination, Analysis, and Implementation of the World Report on Disability. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2014, 93, S68-S72.	0.7	8
87	Population code in mouse V1 facilitates readout of natural scenes through increased sparseness. <i>Nature Neuroscience</i> , 2014, 17, 851-857.	7.1	167
88	The reliability of WorkWell Systems Functional Capacity Evaluation: a systematic review. <i>BMC Musculoskeletal Disorders</i> , 2014, 15, 106.	0.8	25
89	State Dependence of Noise Correlations in Macaque Primary Visual Cortex. <i>Neuron</i> , 2014, 82, 235-248.	3.8	307
90	Work Ability Index Predicts Application for Disability Pension—After Work-Related Medical Rehabilitation for Chronic—Back Pain. <i>Archives of Physical Medicine and Rehabilitation</i> , 2013, 94, 2262-2268.	0.5	28

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91	A Fast and Simple Population Code for Orientation in Primate V1. <i>Journal of Neuroscience</i> , 2012, 32, 10618-10626.	1.7	103
92	Adverse effects of effortâ€“reward imbalance on work ability: longitudinal findings from the German Sociomedical Panel of Employees. <i>International Journal of Public Health</i> , 2012, 57, 797-805.	1.0	27
93	Effort-reward imbalance and work ability: cross-sectional and longitudinal findings from the Second German Sociomedical Panel of Employees. <i>BMC Public Health</i> , 2012, 12, 875.	1.2	24
94	The Work Ability Index as a screening tool to identify the need for rehabilitation: Longitudinal findings from the Second German Sociomedical Panel of Employees. <i>Journal of Rehabilitation Medicine</i> , 2012, 44, 980-987.	0.8	70
95	Berufliche Teilhabe durch multimodale medizinisch-beruflich orientierte Rehabilitation. <i>Public Health Forum</i> , 2011, 19, 12-13.	0.1	0
96	Optimal Population Coding, Revisited. <i>Nature Precedings</i> , 2011, , .	0.1	0
97	The effect of noise correlations in populations of diversely tuned neurons. <i>Nature Precedings</i> , 2011, , .	0.1	2
98	Work status and health-related quality of life following multimodal work hardening: A cluster randomised trial. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , 2011, 24, 161-172.	0.4	57
99	The Effect of Noise Correlations in Populations of Diversely Tuned Neurons. <i>Journal of Neuroscience</i> , 2011, 31, 14272-14283.	1.7	240
100	Physical and psychosocial work stressors, health-related control beliefs and work ability: cross-sectional findings from the German Sociomedical Panel of Employees. <i>International Archives of Occupational and Environmental Health</i> , 2010, 83, 241-250.	1.1	24
101	Decorrelated Neuronal Firing in Cortical Microcircuits. <i>Science</i> , 2010, 327, 584-587.	6.0	562
102	Work stress and work ability: cross-sectional findings from the German sociomedical panel of employees. <i>Disability and Rehabilitation</i> , 2009, 31, 1692-1699.	0.9	41
103	The decline in medical rehabilitation for children and adolescents in Germany in the first year of the SARS-CoV-2 pandemic. <i>Deutsches A&#x0308;rztblatt International</i> , 0, , .	0.6	1