Sven Bestmann

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78
papers
4,052
citations
h-index

92
ext. papers

5,429
ext. citations

63
g-index

5.82
L-index

#	Paper	IF	Citations
78	Moving magnetoencephalography towards real-world applications with a wearable system. <i>Nature</i> , 2018 , 555, 657-661	50.4	458
77	Dopamine, affordance and active inference. <i>PLoS Computational Biology</i> , 2012 , 8, e1002327	5	208
76	The uses and interpretations of the motor-evoked potential for understanding behaviour. <i>Experimental Brain Research</i> , 2015 , 233, 679-89	2.3	178
75	Trial-by-trial fluctuations in the event-related electroencephalogram reflect dynamic changes in the degree of surprise. <i>Journal of Neuroscience</i> , 2008 , 28, 12539-45	6.6	168
74	Mapping causal interregional influences with concurrent TMS-fMRI. <i>Experimental Brain Research</i> , 2008 , 191, 383-402	2.3	159
73	Understanding the behavioural consequences of noninvasive brain stimulation. <i>Trends in Cognitive Sciences</i> , 2015 , 19, 13-20	14	156
72	The role of contralesional dorsal premotor cortex after stroke as studied with concurrent TMS-fMRI. <i>Journal of Neuroscience</i> , 2010 , 30, 11926-37	6.6	148
71	Dorsal premotor cortex exerts state-dependent causal influences on activity in contralateral primary motor and dorsal premotor cortex. <i>Cerebral Cortex</i> , 2008 , 18, 1281-91	5.1	147
70	Computations of uncertainty mediate acute stress responses in humans. <i>Nature Communications</i> , 2016 , 7, 10996	17.4	139
69	Adaptive deep brain stimulation for Parkinson's disease demonstrates reduced speech side effects compared to conventional stimulation in the acute setting. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016 , 87, 1388-1389	5.5	130
68	Safety and recommendations for TMS use in healthy subjects and patient populations, with updates on training, ethical and regulatory issues: Expert Guidelines. <i>Clinical Neurophysiology</i> , 2021 , 132, 269-30	06 ^{4.3}	130
67	Neural Signatures of Value Comparison in Human Cingulate Cortex during Decisions Requiring an Effort-Reward Trade-off. <i>Journal of Neuroscience</i> , 2016 , 36, 10002-15	6.6	115
66	Hemispheric differences in frontal and parietal influences on human occipital cortex: direct confirmation with concurrent TMS-fMRI. <i>Journal of Cognitive Neuroscience</i> , 2009 , 21, 1146-61	3.1	105
65	Influence of uncertainty and surprise on human corticospinal excitability during preparation for action. <i>Current Biology</i> , 2008 , 18, 775-780	6.3	102
64	Time-dependent changes in human corticospinal excitability reveal value-based competition for action during decision processing. <i>Journal of Neuroscience</i> , 2012 , 32, 8373-82	6.6	84
63	Incomplete evidence that increasing current intensity of tDCS boosts outcomes. <i>Brain Stimulation</i> , 2018 , 11, 310-321	5.1	83
62	Spatial attention changes excitability of human visual cortex to direct stimulation. <i>Current Biology</i> , 2007 , 17, 134-9	6.3	81

(2018-2018)

61	tDCS changes in motor excitability are specific to orientation of current flow. <i>Brain Stimulation</i> , 2018 , 11, 289-298	5.1	80
60	S231. THE ROLE OF DOPAMINERGIC AND GLUTAMATERGIC NEUROTRANSMISSION IN DELUSIONAL IDEATION AND SENSORY INFORMATION PROCESSING OF PATIENTS WITH SCHIZOPHRENIA IN COMPARISON TO HEALTHY HUMAN PARTICIPANTS. Schizophrenia Bulletin,	1.3	78
59	Transcranial Magnetic Stimulation: Decomposing the Processes Underlying Action Preparation. Neuroscientist, 2016 , 22, 392-405	7.6	75
58	Behavioral modeling of human choices reveals dissociable effects of physical effort and temporal delay on reward devaluation. <i>PLoS Computational Biology</i> , 2015 , 11, e1004116	5	72
57	Combined neurostimulation and neuroimaging in cognitive neuroscience: past, present, and future. <i>Annals of the New York Academy of Sciences</i> , 2013 , 1296, 11-30	6.5	71
56	High precision anatomy for MEG. <i>Neurolmage</i> , 2014 , 86, 583-91	7.9	67
55	The physiological basis of transcranial magnetic stimulation. <i>Trends in Cognitive Sciences</i> , 2008 , 12, 81-3	14	67
54	Human motor cortical beta bursts relate to movement planning and response errors. <i>PLoS Biology</i> , 2019 , 17, e3000479	9.7	59
53	Pharmacological Fingerprints of Contextual Uncertainty. <i>PLoS Biology</i> , 2016 , 14, e1002575	9.7	55
52	Discrimination of cortical laminae using MEG. <i>NeuroImage</i> , 2014 , 102 Pt 2, 885-93	7.9	54
51	Causal evidence that intrinsic beta-frequency is relevant for enhanced signal propagation in the motor system as shown through rhythmic TMS. <i>NeuroImage</i> , 2016 , 126, 120-30	7.9	51
50	Reward and punishment enhance motor adaptation in stroke. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017 , 88, 730-736	5.5	49
49	Flexible head-casts for high spatial precision MEG. Journal of Neuroscience Methods, 2017, 276, 38-45	3	48
48	Transcranial electrical stimulation. <i>Current Biology</i> , 2017 , 27, R1258-R1262	6.3	45
47	Dose-controlled tDCS reduces electric field intensity variability at a cortical target site. <i>Brain Stimulation</i> , 2020 , 13, 125-136	5.1	42
46	On the Use of Meta-analysis in Neuromodulatory Non-invasive Brain Stimulation. <i>Brain Stimulation</i> , 2015 , 8, 666-7	5.1	34
45	Using generative models to make probabilistic statements about hippocampal engagement in MEG. <i>NeuroImage</i> , 2017 , 149, 468-482	7.9	33
44	Cognitive neuroscience using wearable magnetometer arrays: Non-invasive assessment of language function. <i>NeuroImage</i> , 2018 , 181, 513-520	7.9	33

43	Action reprogramming in Parkinson's disease: response to prediction error is modulated by levels of dopamine. <i>Journal of Neuroscience</i> , 2012 , 32, 542-50	6.6	33
42	Non-invasive laminar inference with MEG: Comparison of methods and source inversion algorithms. <i>NeuroImage</i> , 2018 , 167, 372-383	7.9	30
41	A novel coil array for combined TMS/fMRI experiments at 3 T. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 1492-501	4.4	29
40	Understanding the nonlinear physiological and behavioral effects of tDCS through computational neurostimulation. <i>Progress in Brain Research</i> , 2015 , 222, 75-103	2.9	26
39	The Role of Dopamine in Temporal Uncertainty. <i>Journal of Cognitive Neuroscience</i> , 2016 , 28, 96-110	3.1	26
38	Lamina-specific cortical dynamics in human visual and sensorimotor cortices. <i>ELife</i> , 2018 , 7,	8.9	26
37	Response repetition biases in human perceptual decisions are explained by activity decay in competitive attractor models. <i>ELife</i> , 2016 , 5,	8.9	24
36	Are current flow models for transcranial electrical stimulation fit for purpose?. <i>Brain Stimulation</i> , 2017 , 10, 865-866	5.1	23
35	The role of dopamine in motor flexibility. <i>Journal of Cognitive Neuroscience</i> , 2015 , 27, 365-76	3.1	20
34	Using optically pumped magnetometers to measure magnetoencephalographic signals in the human cerebellum. <i>Journal of Physiology</i> , 2019 , 597, 4309-4324	3.9	19
33	Acute stress selectively impairs learning to act. Scientific Reports, 2016, 6, 29816	4.9	17
32	Mouth magnetoencephalography: A unique perspective on the human hippocampus. <i>NeuroImage</i> , 2021 , 225, 117443	7.9	16
31	Emotional valence and contextual affordances flexibly shape approach-avoidance movements. <i>Frontiers in Psychology</i> , 2013 , 4, 933	3.4	14
30	Action boosts episodic memory encoding in humans via engagement of a noradrenergic system. <i>Nature Communications</i> , 2019 , 10, 3534	17.4	13
29	Pharmacological Dopamine Manipulation Does Not Alter Reward-Based Improvements in Memory Retention during a Visuomotor Adaptation Task. <i>ENeuro</i> , 2018 , 5,	3.9	11
28	Computing Value from Quality and Quantity in Human Decision-Making. <i>Journal of Neuroscience</i> , 2019 , 39, 163-176	6.6	10
27	Training in the practice of noninvasive brain stimulation: Recommendations from an IFCN committee. <i>Clinical Neurophysiology</i> , 2021 , 132, 819-837	4.3	10
26	Dissecting Transient Burst Events. <i>Trends in Cognitive Sciences</i> , 2020 , 24, 784-788	14	9

25	Cerebellar tDCS dissociates the timing of perceptual decisions from perceptual change in speech. Journal of Neurophysiology, 2016 , 116, 2023-2032	3.2	8
24	Computational neurostimulation for Parkinson's disease. <i>Progress in Brain Research</i> , 2015 , 222, 163-90	2.9	7
23	Estimates of cortical column orientation improve MEG source inversion. <i>NeuroImage</i> , 2020 , 216, 116862	2 7.9	7
22	Quantifying the performance of MEG source reconstruction using resting state data. <i>NeuroImage</i> , 2018 , 181, 453-460	7.9	7
21	Age-dependent Pavlovian biases influence motor decision-making. <i>PLoS Computational Biology</i> , 2018 , 14, e1006304	5	7
20	Neurodynamic Evidence Supports a Forced-Excursion Model of Decision-Making under Speed/Accuracy Instructions. <i>ENeuro</i> , 2018 , 5,	3.9	6
19	Learning from the past and expecting the future in Parkinsonism: Dopaminergic influence on predictions about the timing of future events. <i>Neuropsychologia</i> , 2019 , 127, 9-18	3.2	6
18	The Evidence Information Service as a new platform for supporting evidence-based policy: a consultation of UK parliamentarians. <i>Evidence and Policy</i> , 2017 , 13, 275-316	2.1	5
17	The Neurodynamic Decision Variable in Human Multi-alternative Perceptual Choice. <i>Journal of Cognitive Neuroscience</i> , 2019 , 31, 262-277	3.1	5
16	Glutamatergic Contribution to Probabilistic Reasoning and Jumping to Conclusions in Schizophrenia: A Double-Blind, Randomized Experimental Trial. <i>Biological Psychiatry</i> , 2020 , 88, 687-697	7.9	4
15	Forget-me-some: General versus special purpose models in a hierarchical probabilistic task. <i>PLoS ONE</i> , 2018 , 13, e0205974	3.7	4
14	Uncoupling Sensation and Perception in Human Time Processing. <i>Journal of Cognitive Neuroscience</i> , 2020 , 32, 1369-1380	3.1	3
13	Laminar dynamics of high amplitude beta bursts in human motor cortex. <i>NeuroImage</i> , 2021 , 242, 11847	9 7.9	3
12	Centroparietal activity mirrors the decision variable when tracking biased and time-varying sensory evidence. <i>Cognitive Psychology</i> , 2020 , 122, 101321	3.1	2
11	Journal Club: possible role of the basal ganglia in poor reward sensitivity and apathy after stroke. <i>Neurology</i> , 2014 , 82, e171-3	6.5	2
10	A new unified framework for making and implementing decisions. <i>Journal of Neuroscience</i> , 2006 , 26, 13121-2; discussion 13121	6.6	2
9	Neural signatures of value comparison in human cingulate cortex during decisions requiring an effort-reward trade-off		2
8	Dose-controlled tDCS reduces electric field intensity variability at a cortical target site		2

7	Estimates of cortical column orientation improve MEG source inversion		2
6	The impact of brain lesions on tDCS-induced electric field magnitude		2
5	Neurostimulation: a new way to influence cortical excitability?. Current Biology, 2011, 21, R893-4	6.3	1
4	Laminar dynamics of beta bursts in human motor cortex		1
3	A range of pulses commonly used for human transcranial ultrasound stimulation are clearly audible. <i>Brain Stimulation</i> , 2021 , 14, 1353-1355	5.1	1
2	Differences in outcomes following an intensive upper-limb rehabilitation program for patients with common central nervous system-acting drug prescriptions. <i>International Journal of Stroke</i> , 2021 , 174749	93821	1006287
1	The Neurodynamic Decision Variable in Human Multi-Alternative Perceptual Choice. <i>Journal of Vision</i> 2018 18 661	0.4	