Robert J Van Beers

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9023315/publications.pdf

Version: 2024-02-01

38 papers	3,592 citations	361413 20 h-index	377865 34 g-index

43 all docs	43 docs citations	43 times ranked	2239 citing authors

#	Article	IF	Citations
1	Integration of Proprioceptive and Visual Position-Information: An Experimentally Supported Model. Journal of Neurophysiology, 1999, 81, 1355-1364.	1.8	632
2	When Feeling Is More Important Than Seeing in Sensorimotor Adaptation. Current Biology, 2002, 12, 834-837.	3.9	532
3	The Role of Execution Noise in Movement Variability. Journal of Neurophysiology, 2004, 91, 1050-1063.	1.8	385
4	The precision of proprioceptive position sense. Experimental Brain Research, 1998, 122, 367-377.	1.5	337
5	How humans combine simultaneous proprioceptive and visual position information. Experimental Brain Research, 1996, 111, 253-261.	1.5	228
6	Motor Learning Is Optimally Tuned to the Properties of Motor Noise. Neuron, 2009, 63, 406-417.	8.1	227
7	Sensory integration does not lead to sensory calibration. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18781-18786.	7.1	199
8	Role of uncertainty in sensorimotor control. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 1137-1145.	4.0	192
9	The Sources of Variability in Saccadic Eye Movements. Journal of Neuroscience, 2007, 27, 8757-8770.	3.6	151
10	Random walk of motor planning in task-irrelevant dimensions. Journal of Neurophysiology, 2013, 109, 969-977.	1.8	76
11	Action and awareness in pointing tasks. Experimental Brain Research, 2002, 146, 451-459.	1.5	69
12	Sensorimotor Integration Compensates for Visual Localization Errors During Smooth Pursuit Eye Movements. Journal of Neurophysiology, 2001, 85, 1914-1922.	1.8	67
13	Saccadic Eye Movements Minimize the Consequences of Motor Noise. PLoS ONE, 2008, 3, e2070.	2.5	63
14	Localization of a seen finger is based exclusively on proprioception and on vision of the finger. Experimental Brain Research, 1999, 125, 43-49.	1.5	60
15	How Does Our Motor System Determine Its Learning Rate?. PLoS ONE, 2012, 7, e49373.	2.5	48
16	The role of uncertainty in the systematic spatial mislocalization of moving objects.. Journal of Experimental Psychology: Human Perception and Performance, 2006, 32, 811-825.	0.9	40
17	What Autocorrelation Tells Us about Motor Variability: Insights from Dart Throwing. PLoS ONE, 2013, 8, e64332.	2.5	39
18	Alignment to natural and imposed mismatches between the senses. Journal of Neurophysiology, 2013, 109, 1890-1899.	1.8	37

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19	Visuomotor Adaptation: How Forgetting Keeps Us Conservative. PLoS ONE, 2015, 10, e0117901.	2.5	35
20	Reweighting visual cues by touch. Journal of Vision, 2011, 11, 20-20.	0.3	28
21	Sensorimotor priors in nonstationary environments. Journal of Neurophysiology, 2013, 109, 1259-1267.	1.8	22
22	Decisions in motion: passive body acceleration modulates hand choice. Journal of Neurophysiology, 2017, 117, 2250-2261.	1.8	19
23	How the required precision influences the way we intercept a moving object. Experimental Brain Research, 2013, 230, 207-218.	1.5	15
24	Structure learning and the Occam's razor principle: a new view of human function acquisition. Frontiers in Computational Neuroscience, 2014, 8, 121.	2.1	13
25	Vestibular modulation of visuomotor feedback gains in reaching. Journal of Neurophysiology, 2019, 122, 947-957.	1.8	12
26	Movement preparation time determines movement variability. Journal of Neurophysiology, 2021, 125, 2375-2383.	1.8	12
27	Sensitivity to error during visuomotor adaptation is similarly modulated by abrupt, gradual, and random perturbation schedules. Journal of Neurophysiology, 2021, 126, 934-945.	1.8	12
28	A neural surveyor to map touch on the body. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	10
29	How the Statistics of Sequential Presentation Influence the Learning of Structure. PLoS ONE, 2013, 8, e62276.	2.5	9
30	Prediction and final temporal errors are used for trial-to-trial motor corrections. Scientific Reports, 2019, 9, 19230.	3.3	9
31	Effect of depth information on multiple-object tracking in three dimensions: A probabilistic perspective. PLoS Computational Biology, 2017, 13, e1005554.	3.2	5
32	When Is Moving a Cursor With a Computer Mouse Intuitive?. Perception, 2020, 49, 484-487.	1.2	5
33	Even well-practiced movements benefit from repetition. Journal of Neurophysiology, 2022, 127, 1407-1416.	1.8	2
34	Bayesian adaptive stimulus selection for dissociating models of psychophysical data. Journal of Vision, 2018, 18, 12.	0.3	1
35	Clouds, aerosols and biogeochemical cycles: risks of non-linear climate change. Studies in Environmental Science, 1995, 65, 1371-1376.	0.0	0
36	Flexible Visuomotor Associations in Touchscreen Control. Frontiers in Human Neuroscience, 2017, 11, 558.	2.0	0

#	Article	IF	Citations
37	VARIABLE MOVEMENTS, VARIABLE THEORIES. NeuroReport, 2001, 12, A67-A68.	1.2	0
38	ADAPTATION IN ONE MODALITY CAN PRODUCE AFTER-EFFECTS IN A DIFFERENT MODALITY. NeuroReport, 2002, 13, 1096.	1.2	0