Daniel Kersten

List of Publications by Year
in descending order

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50 papers	5,774 citations	172207 29 h-index	214527 47 g-index
50 all docs	50 docs citations	50 times ranked	3728 citing authors

#	Article	IF	Citations
1	Object Perception as Bayesian Inference. Annual Review of Psychology, 2004, 55, 271-304.	9.9	1,113
2	Vision as Bayesian inference: analysis by synthesis?. Trends in Cognitive Sciences, 2006, 10, 301-308.	4.0	714
3	Shape perception reduces activity in human primary visual cortex. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15164-15169.	3.3	421
4	The representation of perceived angular size in human primary visual cortex. Nature Neuroscience, 2006, 9, 429-434.	7.1	356
5	Contrast discrimination in noise. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1987, 4, 391.	0.8	264
6	Apparent surface curvature affects lightness perception. Nature, 1991, 351, 228-230.	13.7	244
7	Bayesian models of object perception. Current Opinion in Neurobiology, 2003, 13, 150-158.	2.0	222
8	Illusions, perception and Bayes. Nature Neuroscience, 2002, 5, 508-510.	7.1	208
9	The perception of cast shadows. Trends in Cognitive Sciences, 1998, 2, 288-295.	4.0	172
10	Orientation-Tuned fMRI Adaptation in Human Visual Cortex. Journal of Neurophysiology, 2005, 94, 4188-4195.	0.9	170
11	Moving Cast Shadows Induce Apparent Motion in Depth. Perception, 1997, 26, 171-192.	0.5	168
12	Perceptual grouping and the interactions between visual cortical areas. Neural Networks, 2004, 17, 695-705.	3.3	165
13	Attention-Dependent Representation of a Size Illusion in Human V1. Current Biology, 2008, 18, 1707-1712.	1.8	149
14	Human efficiency for recognizing 3-D objects in luminance noise. Vision Research, 1995, 35, 3053-3069.	0.7	143
15	Illusory motion from shadows. Nature, 1996, 379, 31-31.	13.7	129
16	Object classification for human and ideal observers. Vision Research, 1995, 35, 549-568.	0.7	128
17	Is Color an Intrinsic Property of Object Representation?. Perception, 2003, 32, 667-680.	0.5	110
18	Spatial summation in visual noise. Vision Research, 1984, 24, 1977-1990.	0.7	81

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19	Bootstrapped learning of novel objects. Journal of Vision, 2003, 3, 2.	0.1	73
20	Border Ownership Selectivity in Human Early Visual Cortex and its Modulation by Attention. Journal of Neuroscience, 2009, 29, 460-465.	1.7	65
21	Responses to Lightness Variations in Early Human Visual Cortex. Current Biology, 2007, 17, 989-993.	1.8	61
22	Viewpoint-Dependent Recognition of Familiar Faces. Perception, 1999, 28, 483-487.	0.5	59
23	How Haptic Size Sensations Improve Distance Perception. PLoS Computational Biology, 2011, 7, e1002080.	1.5	47
24	Geometry of shadows. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 3216.	0.8	44
25	Spatially Specific fMRI Repetition Effects in Human Visual Cortex. Journal of Neurophysiology, 2006, 95, 2439-2445.	0.9	36
26	How Optimal Depth Cue Integration Depends on the Task. International Journal of Computer Vision, 2000, 40, 71-89.	10.9	35
27	Preferential responses to occluded objects in the human visual cortex. Journal of Vision, 2008, 8, 16.	0.1	33
28	Interaction between Transparency and Structure from Motion. Neural Computation, 1992, 4, 573-589.	1.3	32
29	A Link between Visual Disambiguation and Visual Memory. Journal of Neuroscience, 2010, 30, 15124-15133.	1.7	32
30	Temporally flexible feedback signal to foveal cortex for peripheral object recognition. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11627-11632.	3.3	31
31	Three-dimensional symmetric shapes are discriminated more efficiently than asymmetric ones. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 1331.	0.8	29
32	2D observers for human 3D object recognition?. Vision Research, 1998, 38, 2507-2519.	0.7	25
33	Is prior knowledge of object geometry used in visually guided reaching?. Journal of Vision, 2005, 5, 2-2.	0.1	25
34	Opposite Modulation of High- and Low-Level Visual Aftereffects by Perceptual Grouping. Current Biology, 2012, 22, 1040-1045.	1.8	25
35	Attention modulates neuronal correlates of interhemispheric integration and global motion perception. Journal of Vision, 2014, 14, 30-30.	0.1	19
36	Dissociating stimulus information from internal representationâ€"a case study in object recognition. Vision Research, 1999, 39, 603-612.	0.7	18

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37	Pattern Inference Theory: A Probabilistic Approach to Vision. , 2005, , 191-228.		15
38	Inverse 3-D graphics: A metaphor for visual perception. Behavior Research Methods, 1997, 29, 37-46.	1.3	14
39	Within- and Cross-Modal Distance Information Disambiguate Visual Size-Change Perception. PLoS Computational Biology, 2010, 6, e1000697.	1.5	14
40	Responses in early visual areas to contour integration are context dependent. Journal of Vision, 2016, 16, 19.	0.1	14
41	Classification objects, ideal observers & generative models. Cognitive Science, 2004, 28, 227-239.	0.8	13
42	Structure-from-motion based on information at surface boundaries. Biological Cybernetics, 1992, 66, 327-333.	0.6	12
43	Perceptual grouping-dependent lightness processing in human early visual cortex. Journal of Vision, 2010, 10, 4-4.	0.1	11
44	Multivoxel Pattern of Blood Oxygen Level Dependent Activity can be sensitive to stimulus specific fine scale responses. Scientific Reports, 2020, 10, 7565.	1.6	10
45	Object recognition in clutter: cortical responses depend on the type of learning. Frontiers in Human Neuroscience, 2012, 6, 170.	1.0	9
46	Classification objects, ideal observers & generative models. Cognitive Science, 2004, 28, 227-239.	0.8	7
47	Object Perception: Generative Image Models and Bayesian Inference. Lecture Notes in Computer Science, 2002, , 207-218.	1.0	5
48	Vision: When Does Looking Bigger Mean Seeing Better?. Current Biology, 2010, 20, R398-R399.	1.8	3
49	The Fusiform Body Area Represents Spatial Relationships Between Pairs of Body Parts. Journal of Vision, 2018, 18, 408.	0.1	1
50	Relational Representation of Body Parts Revealed by Adaptation. Journal of Vision, 2017, 17, 1238.	0.1	0