Bruce C Hansen

List of Publications by Year
in descending order

55 papers	1,393 citations	361296 20 h-index	377752 34 g-index
58 all docs	58 docs citations	58 times ranked	1106 citing authors

#	Article	IF	Citations
1	Dynamic Electrode-to-Image (DETI) mapping reveals the human brainâ€™s spatiotemporal code of visual information. PLoS Computational Biology, 2021, 17, e1009456.	1.5	3
2	Revealing the cortical transformations of real-world scenes using dynamic electrode-to-image (DETI) mapping. Journal of Vision, 2021, 21, 2641.	0.1	0
3	Disentangling the Independent Contributions of Visual and Conceptual Features to the Spatiotemporal Dynamics of Scene Categorization. Journal of Neuroscience, 2020, 40, 5283-5299.	1.7	33
4	A geometric state-space framework reveals the evoked potential topography of the visual field. Journal of Vision, 2020, 20, 1652.	0.1	0
5	Spatial summation of broadband contrast. Journal of Vision, 2019, 19, 16.	0.1	4
6	Towards a state-space geometry of neural responses to natural scenes: A steady-state approach. NeuroImage, 2019, 201, 116027.	2.1	6
7	Visual evoked potentials elicited by complex scenes are regulated by high spatial frequency content. Journal of Vision, 2019, 19, 123b.	0.1	1
8	Measuring the Information Content of Visually-Evoked Neuroelectric Activity. Journal of Vision, 2019, 19, 48c.	0.1	1
9	Task demands flexibly change the dynamics of feature use during scene processing. Journal of Vision, 2019, 19, 189c.	0.1	2
10	Shared spatiotemporal category representations in biological and artificial deep neural networks. PLoS Computational Biology, 2018, 14, e1006327.	1.5	50
11	Nonâ€uniform phase sensitivity in spatial frequency maps of the human visual cortex. Journal of Physiology, 2017, 595, 1351-1363.	1.3	4
12	Visual information representation and rapid-scene categorization are simultaneous across cortex: An MEG study. NeuroImage, 2016, 134, 295-304.	2.1	19
13	On the Differentiation of Foveal and Peripheral Early Visual Evoked Potentials. Brain Topography, 2016, 29, 506-514.	0.8	17
14	A cortical locus for anisotropic overlay suppression of stimuli presented at fixation. Visual Neuroscience, 2015, 32, E023.	0.5	8
15	Comparing rapid scene categorization of aerial and terrestrial views: A new perspective on scene gist. Journal of Vision, 2015, 15, 11.	0.1	8
16	The Effects of tDCS Across the Spatial Frequencies and Orientations that Comprise the Contrast Sensitivity Function. Frontiers in Psychology, 2015, 6, 1784.	1.1	17
17	Scene masking is affected by trial blank-screen luminance. Signal Processing: Image Communication, 2015, 39, 319-327.	1.8	2
18	Looking at others through implicitly or explicitly prejudiced eyes. Visual Cognition, 2015, 23, 612-642.	0.9	9

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19	One "shape" fits all: The orientation bandwidth of contour integration. Journal of Vision, 2014, 14, 17-17.	0.1	2
20	Scene gist categorization by pigeons.. Journal of Experimental Psychology Animal Learning and Cognition, 2014, 40, 162-177.	0.3	5
21	The contribution of amplitude and phase spectra-defined scene statistics to the masking of rapid scene categorization. Journal of Vision, 2013, 13, 21-21.	0.1	14
22	Different spatial frequency bands selectively signal for natural image statistics in the early visual system. Journal of Neurophysiology, 2012, 108, 2160-2172.	0.9	34
23	The developing visual system is not optimally sensitive to the spatial statistics of natural images. Vision Research, 2012, 67, 1-7.	0.7	28
24	Anodal Transcranial Direct Current Stimulation Reduces Psychophysically Measured Surround Suppression in the Human Visual Cortex. PLoS ONE, 2012, 7, e36220.	1.1	48
25	On the effectiveness of noise masks: Naturalistic vs. un-naturalistic image statistics. Vision Research, 2012, 60, 101-113.	0.7	13
26	How Does the Brain Represent Visual Scenes? A Neuromagnetic Scene Categorization Study. Lecture Notes in Computer Science, 2012, , 93-100.	1.0	1
27	â€œSlightâ€•of Hand: The Processing of Visually Degraded Gestures with Speech. PLoS ONE, 2012, 7, e42620.	1.1	3
28	The magnitude of center-surround facilitation in the discrimination of amplitude spectrum is dependent on the amplitude of the surround. Journal of Vision, 2011, 11, 14-14.	0.1	6
29	From spatial frequency contrast to edge preponderance: the differential modulation of early visual evoked potentials by natural scene stimuli. Visual Neuroscience, 2011, 28, 221-237.	0.5	37
30	The contrast dependence of the cortical fMRI deficit in amblyopia; a selective loss at higher contrasts. Human Brain Mapping, 2010, 31, 1233-1248.	1.9	29
31	The role of higher order image statistics in masking scene gist recognition. Attention, Perception, and Psychophysics, 2010, 72, 427-444.	0.7	36
32	Extracting the internal representation of faces from human brain activity: An analogue to reverse correlation. NeuroImage, 2010, 51, 373-390.	2.1	26
33	Selectivity as well as sensitivity loss characterizes the cortical spatial frequency deficit in amblyopia. Human Brain Mapping, 2009, 30, 4054-4069.	1.9	29
34	Disrupted Retinotopic Maps in Amblyopia. , 2009, 50, 3218.		27
35	A dichoptic projection system for visual psychophysics in fMRI scanners. Journal of Neuroscience Methods, 2008, 168, 71-75.	1.3	12
36	A critical band of phase alignment for discrimination but not recognition of human faces. Vision Research, 2008, 48, 2523-2536.	0.7	7

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37	Amblyopic perception of biological motion. Journal of Vision, 2008, 8, 22.	0.1	15
38	Peripheral vision: Good for biological motion, bad for signal noise segregation?. Journal of Vision, 2007, 7, 12.	0.1	60
39	Illusory Bands in Orientation and Spatial Frequency: A Cortical Analog to Mach Bands. Perception, 2007, 36, 639-649.	0.5	4
40	Structural sparseness and spatial phase alignment in natural scenes. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1873.	0.8	53
41	A new metric based on extended spatial frequency and its application to DWT based fusion algorithms. Information Fusion, 2007, 8, 177-192.	11.7	227
42	Discrimination of amplitude spectrum slope in the fovea and parafovea and the local amplitude distributions of natural scene imagery. Journal of Vision, 2006, 6, 3.	0.1	38
43	The role of spatial phase in texture segmentation and contour integration. Journal of Vision, 2006, 6, 5.	0.1	15
44	Anisotropic local contrast normalization: The role of stimulus orientation and spatial frequency bandwidths in the oblique and horizontal effect perceptual anisotropies. Vision Research, 2006, 46, 4398-4415.	0.7	24
45	Coloring night-vision imagery with statistical properties of natural colors by using image segmentation and histogram matching. , 2005, 5667, 107.		18
46	Comparison of pulsatile ocular blood flow in Indians and Europeans. Eye, 2005, 19, 1163-1168.	1.1	9
47	Advanced discrete wavelet transform fusion algorithm and its optimization by using the metric of image quality index. Optical Engineering, 2005, 44, 037003.	0.5	22
48	Influence of scale and orientation on the visual perception of natural scenes. Visual Cognition, 2005, 12, 1199-1234.	0.9	36
49	An advanced image fusion algorithm based on wavelet transform: incorporation with PCA and morphological processing. , 2004, , .		49
50	A horizontal bias in human visual processing of orientation and its correspondence to the structural components of natural scenes. Journal of Vision, 2004, 4, 5.	0.1	130
51	Human Perceptual Performance With Nonliteral Imagery: Region Recognition and Texture-Based Segmentation.. Journal of Experimental Psychology: Applied, 2004, 10, 97-110.	0.9	9
52	Oblique stimuli are seen best (not worst!) in naturalistic broad-band stimuli: a horizontal effect. Vision Research, 2003, 43, 1329-1335.	0.7	86
53	Perceptual anisotropies in visual processing and their relation to natural image statistics. Network: Computation in Neural Systems, 2003, 14, 501-526.	2.2	26
54	Perceptual anisotropies in visual processing and their relation to natural image statistics. Network: Computation in Neural Systems, 2003, 14, 501-526.	2.2	24

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55	Perceptual anisotropies in visual processing and their relation to natural image statistics. Network: Computation in Neural Systems, 2003, 14, 501-26.	2.2	6