James P Thomas

List of Publications by Year in descending order

48 papers	1,318 citations	304368 22 h-index	360668 35 g-index
49 all docs	49 docs citations	49 times ranked	358 citing authors

#	Article	IF	Citations
1	Bandwidths of orientation channels in human vision. Journal of the Optical Society of America, 1979, 69, 652.	1.2	149
2	Model of the function of receptive fields in human vision.. Psychological Review, 1970, 77, 121-134.	2.7	109
3	Detection and identification: how are they related?. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1985, 2, 1457.	0.8	85
4	Neural recoding in human pattern vision: model and mechanisms. Vision Research, 1999, 39, 231-256.	0.7	70
5	Configural effects constrain fourier models of pattern discrimination. Vision Research, 1992, 32, 1885-1898.	0.7	60
6	When orthogonal orientations are not processed independently. Vision Research, 1991, 31, 51-57.	0.7	58
7	Simultaneous visual detection and identification: theory and data. Journal of the Optical Society of America, 1982, 72, 1642.	1.2	56
8	THE PERCEPTION OF BRIGHTNESS AND DARKNESS. , 1990, , 129-161.		46
9	Underlying psychometric function for detecting gratings and identifying spatial frequency. Journal of the Optical Society of America, 1983, 73, 751.	1.2	44
10	Detection and discrimination of simple and complex patterns at low spatial frequencies. Vision Research, 1977, 17, 827-836.	0.7	41
11	Gratings: why frequency discrimination is sometimes better than detection. Journal of the Optical Society of America, 1981, 71, 64.	1.2	36
12	The effect of contour sharpness on perceived brightness. Vision Research, 1965, 5, 559-564.	0.7	35
13	Inhibitory interaction between visual pathways tuned to different orientations. Vision Research, 1975, 15, 1373-1380.	0.7	30
14	Uncertainty experiments support the roles of second-order mechanisms in spatial frequency and orientation discriminations. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1996, 13, 689.	0.8	30
15	Simultaneous discrimination of the spatial frequency and contrast of periodic stimuli. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1993, 10, 395.	0.8	29
16	Contrast gain control and fine spatial discriminations. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 2392.	0.8	28
17	Effect of static-noise and grating masks on detection and identification of grating targets. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1985, 2, 1586.	0.8	27
18	Why are some spatial discriminations independent of contrast?. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1989, 6, 713.	0.8	27

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19	Cue summation in spatial discriminations. Vision Research, 1990, 30, 1865-1875.	0.7	27
20	Linearity of spatial integrations involving inhibitory interactions. Vision Research, 1968, 8, 49-60.	0.7	25
21	The maintenance of apparent luminance of an object.. Journal of Experimental Psychology: Human Perception and Performance, 1999, 25, 1433-1453.	0.7	23
22	Frequency and phase contributions to the detection of temporal luminance modulation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 2257.	0.8	23
23	Evidence of role of size-tuned mechanisms in increment threshold task. Vision Research, 1971, 11, 647-655.	0.7	22
24	Brightness Variations in Stimuli with Ramp-Like Contours*. Journal of the Optical Society of America, 1966, 56, 238.	1.2	20
25	Relation of Spatially Induced Brightness Changes to Test and Inducing Wavelengths*. Journal of the Optical Society of America, 1968, 58, 23.	1.2	18
26	Perception of size at the detection threshold: Its accuracy and possible mechanisms. Vision Research, 1974, 14, 535-543.	0.7	17
27	One spatial filter limits speed of detecting low and middle frequency gratings. Vision Research, 1999, 39, 1683-1693.	0.7	17
28	Dual nonlinearities regulate contrast sensitivity in pattern discrimination tasks. Vision Research, 2003, 43, 1433-1442.	0.7	17
29	Spatial interactions in identification and detection of compound visual stimuli. Vision Research, 1969, 9, 283-292.	0.7	16
30	Independent processing of suprathreshold spatial gratings as a function of their separation in spatial frequency. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1989, 6, 1102.	0.8	15
31	Spatial summation in the fovea: Asymmetrical effects of longer and shorter dimensions. Vision Research, 1978, 18, 1023-1029.	0.7	14
32	Inhibitory effect of less intense stimuli upon the increment threshold for a narrow test line. Vision Research, 1968, 8, 537-542.	0.7	13
33	Effect of pattern adaptation on spatial frequency discrimination. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1992, 9, 857.	0.8	13
34	What limits simultaneous discrimination accuracy?. Vision Research, 2000, 40, 3169-3172.	0.7	10
35	Brightness-Contrast Effects Among Several Points of Light*. Journal of the Optical Society of America, 1965, 55, 323.	1.2	8
36	Selective stimulation of two form-sensitive mechanisms. Vision Research, 1969, 9, 625-627.	0.7	8

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37	Spatial phase sensitivity of mechanisms mediating discrimination of small orientation differences. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 2197.	0.8	8
38	Effects of nonspatial selective and divided visual attention on fMRI BOLD responses. Experimental Brain Research, 2006, 173, 555-563.	0.7	8
39	Patterns of spatial integration in the detection of compound visual stimuli. Vision Research, 1971, 11, 635-645.	0.7	7
40	The role of fourier components in discrimination between two types of plaid patterns. Vision Research, 1993, 33, 1573-1579.	0.7	7
41	Equipment for Varying the Intensity of Light. American Journal of Psychology, 1967, 80, 297.	0.5	5
42	Size-tuned mechanisms: Correlation of data on detection and apparent size. Vision Research, 1974, 14, 937-942.	0.7	5
43	Spatial vision then and now. Vision Research, 1986, 26, 1523-1530.	0.7	5
44	Using distinctive Fourier components to discriminate between complex patterns. Ophthalmic and Physiological Optics, 1992, 12, 189-192.	1.0	4
45	Effect of selective adaptation on detection of simple and compound parafoveal stimuli. Vision Research, 1972, 12, 1367-1379.	0.7	2
46	Effects of luminance oscillations on simulated lightness discriminations. Perception & Psychophysics, 2001, 63, 1048-1062.	2.3	1
47	The effects of reordering the response categories on the area under the ROC. Behavior Research Methods, 1977, 9, 286-290.	2.3	0
48	Constraints on Fourier models of human pattern recognition. , 1992, , .		0