Andrew M Derrington

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68 papers	4,061 citations	31 h-index	63 g-index
70 ext. papers	4,280 ext. citations	4.3 avg, IF	4.97 L-index

#	Paper	IF	Citations
68	Chromatic mechanisms in lateral geniculate nucleus of macaque. *Journal of Physiology*, **1984**, 357, 241-65	3.9	1059
67	Spatial and temporal contrast sensitivities of neurones in lateral geniculate nucleus of macaque. *Journal of Physiology*, **1984**, 357, 219-40	3.9	743
66	Separate detectors for simple and complex grating patterns?. *Vision Research*, **1985**, 25, 1869-78	2.1	141
65	The influence of temporal frequency and adaptation level on receptive field organization of retinal ganglion cells in cat. *Journal of Physiology*, **1982**, 333, 343-66	3.9	131
64	Discriminating the direction of second-order motion at short stimulus durations. *Vision Research*, **1993**, 33, 1785-94	2.1	108
63	Spatial and temporal properties of X and Y cells in the cat lateral geniculate nucleus. *Journal of Physiology*, **1979**, 293, 347-64	3.9	95
62	Rapid colour-specific detection of motion in human vision. *Nature*, **1996**, 379, 72-4	50.4	92
61	Detecting the displacement of periodic patterns. *Vision Research*, **1985**, 25, 1253-8	2.1	87
60	Refraction, aliasing, and the absence of motion reversals in peripheral vision. *Vision Research*, **1995**, 35, 939-47	2.1	82
59	The low level motion system has both chromatic and luminance inputs. *Vision Research*, **1985**, 25, 1879-84	2.1	76
58	Detecting and discriminating the direction of motion of luminance and colour gratings. *Vision Research*, **1993**, 33, 799-811	2.1	74
57	Visual mechanisms of motion analysis and motion perception. *Annual Review of Psychology*, **2004**, 55, 181-205	26.1	72
56	Feedback from V1 and inhibition from beyond the classical receptive field modulates the responses of neurons in the primate lateral geniculate nucleus. *Visual Neuroscience*, **2002**, 19, 583-92	1.7	71
55	The effects of remote retinal stimulation on the responses of cat retinal ganglion cells. *Journal of Physiology*, **1977**, 269, 177-94	3.9	69
54	Motion of complex patterns is computed from the perceived motions of their components. *Vision Research*, **1991**, 31, 139-49	2.1	62
53	Analysis of the motion of 2-dimensional patterns: evidence for a second-order process. *Vision Research*, **1992**, 32, 699-707	2.1	60
52	Failure of motion discrimination at high contrasts: evidence for saturation. *Vision Research*, **1989**, 29, 1767-76	2.1	59

51	Detecting the displacements of spatial beats: no role for distortion products. *Vision Research*, **1989**, 29, 731-9	2.1	54
50	Motion of chromatic stimuli: first-order or second-order?. *Vision Research*, **1994**, 34, 49-58	2.1	51
49	Two-stage analysis of the motion of 2-dimensional patterns, what is the first stage?. *Vision Research*, **1992**, 32, 691-8	2.1	51
48	Detection of spatial beats: non-linearity or contrast increment detection?. *Vision Research*, **1986**, 26, 343-8	2.1	48
47	The nature of V1 neural responses to 2D moving patterns depends on receptive-field structure in the marmoset monkey. *Journal of Neurophysiology*, **2003**, 90, 930-7	3.2	43
46	Distortion products in geniculate X-cells: a physiological basis for masking by spatially modulated gratings?. *Vision Research*, **1987**, 27, 1377-86	2.1	43
45	The mechanism of peripherally evoked responses in retinal ganglion cells. *Journal of Physiology*, **1979**, 289, 299-310	3.9	41
44	Some observations on the masking effects of two-dimensional stimuli. *Vision Research*, **1989**, 29, 241-6	2.1	39
43	The development of spatial-frequency selectivity in kitten striate cortex. *Journal of Physiology*, **1981**, 316, 1-10	3.9	39
42	Errors in direction-of-motion discrimination with complex stimuli. *Vision Research*, **1987**, 27, 61-75	2.1	36
41	Spatial and temporal properties of cat geniculate neurones after prolonged deprivation. *Journal of Physiology*, **1981**, 314, 107-20	3.9	35
40	Spatial distribution of suppressive signals outside the classical receptive field in lateral geniculate nucleus. *Journal of Neurophysiology*, **2005**, 94, 1789-97	3.2	34
39	Second-order motion discrimination by feature-tracking. *Vision Research*, **1999**, 39, 1465-75	2.1	34
38	Pattern discrimination with flickering stimuli. *Vision Research*, **1981**, 21, 597-602	2.1	32
37	Gain control from beyond the classical receptive field in primate primary visual cortex. *Visual Neuroscience*, **2003**, 20, 221-30	1.7	30
36	Long-range interactions modulate the contrast gain in the lateral geniculate nucleus of cats. *Visual Neuroscience*, **1999**, 16, 943-56	1.7	30
35	Spatial frequency selectivity of remote pattern masking. *Vision Research*, **1984**, 24, 1965-8	2.1	26
34	Temporal resolution of dichoptic and second-order motion mechanisms. *Vision Research*, **1998**, 38, 3531-9	2.1	24

33	Detecting the displacements of spatial beats: a monocular capability. *Vision Research*, **1987**, 27, 793-7	2.1	22
32	Long-range interactions in the lateral geniculate nucleus of the New-World monkey, Callithrix jacchus. *Visual Neuroscience*, **2001**, 18, 209-18	1.7	20
31	The analysis of motion of two-dimensional patterns: do Fourier components provide the first stage?. *Vision Research*, **1994**, 34, 59-72	2.1	17
30	Slow discrimination of contrast-defined expansion patterns. *Vision Research*, **2000**, 40, 735-44	2.1	16
29	Development of spatial frequency selectivity in striate cortex of vision-deprived cats. *Experimental Brain Research*, **1984**, 55, 431-7	2.3	16
28	Visual calibration of CRT monitors. *Displays*, **2001**, 22, 87-95	3.4	15
27	Second-order processes in vision: introduction. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2001**, 18, 2175-8	1.8	15
26	Processing of first-order motion in marmoset visual cortex is influenced by second-order motion. *Visual Neuroscience*, **2006**, 23, 815-24	1.7	13
25	Cone excitation ratios correlate with color discrimination performance in the horse (Equus caballus). *Journal of Comparative Psychology (Washington, D C: 1983)*, **2006**, 120, 438-48	2.1	12
24	Vision: can colour contribute to motion?. *Current Biology*, **2000**, 10, R268-70	6.3	12
23	Peripheral shift reduces visual sensitivity in cat geniculate neurones. *Visual Neuroscience*, **1998**, 15, 875-80	1.7	12
22	Speed, spatial-frequency, and temporal-frequency comparisons in luminance and colour gratings. *Vision Research*, **1994**, 34, 2093-101	2.1	12
21	The uses of colour vision: behavioural and physiological distinctiveness of colour stimuli. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2002**, 357, 975-85	5.8	11
20	Coherent motion perception fails at low contrast. *Vision Research*, **2005**, 45, 2310-20	2.1	10
19	Detection and motion detection in chromatic and luminance beats. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1996**, 13, 401	1.8	10
18	What is the denominator for contrast normalisation?. *Vision Research*, **1996**, 36, 3759-66	2.1	10
17	Linear and non-linear mechanisms in pattern vision. *Current Biology*, **1993**, 3, 800-3	6.3	10
16	Evidence for reciprocal antagonism between motion sensors tuned to coarse and fine features. *Journal of Vision*, **2007**, 7, 8.1-14	0.4	8

15	Apparent motion from luminance change: sequence discriminators see it too. *Vision Research*, **1985**, 25, 2003-4	2.1	8
14	The lateral geniculate nucleus. *Current Biology*, **2001**, 11, R635-7	6.3	6
13	Errors in direction-of-motion discrimination with dichoptically viewed stimuli. *Vision Research*, **1993**, 33, 1491-4	2.1	6
12	Comparing the effect of the interaction between fine and coarse scales and surround suppression on motion discrimination. *Journal of Vision*, **2013**, 13,	0.4	5
11	How many neurons does it take to see?. *Current Biology*, **1993**, 3, 510-2	6.3	5
10	Antagonism between fine and coarse motion sensors depends on stimulus size and contrast. *Journal of Vision*, **2010**, 10, 18	0.4	4
9	Visual system: XSX is not for saccades. *Current Biology*, **2002**, 12, R591-2	6.3	4
8	Two-dimensional pattern motion analysis uses local features. *Vision Research*, **2012**, 62, 84-92	2.1	2
7	Power spectrum model of visual masking: simulations and empirical data. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2013**, 30, 1119-35	1.8	2
6	Visual system: how is the retina wired up to the cortex?. *Current Biology*, **2004**, 14, R14-5	6.3	1
5	Motion mechanisms based on nonlinear spatial filters have lower temporal resolution **1994**,		1
4	Errorless performance in a two-frame apparent motion task using high contrast stimuli, a failure to replicate Cleary (1990). *Vision Research*, **1992**, 32, 2191-3	2.1	1
3	Seeing Motion **2000**, 259-309		1
2	The L/M-opponent channel provides a distinct and time-dependent contribution towards visual recognition. *Perception*, **2010**, 39, 1185-98	1.2	
1	Implications of motion detection for early non-linearities. *Novartis Foundation Symposium*, **1994**, 184, 211-20; discussion 220-6, 269-71		