

# John H R Maunsell

## List of Publications by Citations

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107  
papers

22,394  
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64  
h-index

127  
g-index

127  
ext. papers

24,681  
ext. citations

9.2  
avg, IF

7.22  
L-index

#	Paper	IF	Citations
107	How parallel are the primate visual pathways?. <i>Annual Review of Neuroscience</i> , <b>1993</b> , 16, 369-402	17	1334
106	The connections of the middle temporal visual area (MT) and their relationship to a cortical hierarchy in the macaque monkey. <i>Journal of Neuroscience</i> , <b>1983</b> , 3, 2563-86	6.6	1217
105	Functional properties of neurons in middle temporal visual area of the macaque monkey. I. Selectivity for stimulus direction, speed, and orientation. <i>Journal of Neurophysiology</i> , <b>1983</b> , 49, 1127-47	3.2	1149
104	Visual processing in monkey extrastriate cortex. <i>Annual Review of Neuroscience</i> , <b>1987</b> , 10, 363-401	17	999
103	Attentional modulation of visual motion processing in cortical areas MT and MST. <i>Nature</i> , <b>1996</b> , 382, 539-41	50.4	911
102	Effects of attention on orientation-tuning functions of single neurons in macaque cortical area V4. <i>Journal of Neuroscience</i> , <b>1999</b> , 19, 431-41	6.6	884
101	The visual field representation in striate cortex of the macaque monkey: asymmetries, anisotropies, and individual variability. <i>Vision Research</i> , <b>1984</b> , 24, 429-48	2.1	766
100	Attention improves performance primarily by reducing interneuronal correlations. <i>Nature Neuroscience</i> , <b>2009</b> , 12, 1594-600	25.5	726
99	Hierarchical organization and functional streams in the visual cortex. <i>Trends in Neurosciences</i> , <b>1983</b> , 6, 370-375	13.3	698
98	Different origins of gamma rhythm and high-gamma activity in macaque visual cortex. <i>PLoS Biology</i> , <b>2011</b> , 9, e1000610	9.7	615
97	The middle temporal visual area in the macaque: myeloarchitecture, connections, functional properties and topographic organization. <i>Journal of Comparative Neurology</i> , <b>1981</b> , 199, 293-326	3.4	594
96	Feature-based attention in visual cortex. <i>Trends in Neurosciences</i> , <b>2006</b> , 29, 317-22	13.3	593
95	Functional properties of neurons in middle temporal visual area of the macaque monkey. II. Binocular interactions and sensitivity to binocular disparity. <i>Journal of Neurophysiology</i> , <b>1983</b> , 49, 1148-67	3.2	547
94	Coding of image contrast in central visual pathways of the macaque monkey. <i>Vision Research</i> , <b>1990</b> , 30, 1-10	2.1	536
93	The effect of frontal eye field and superior colliculus lesions on saccadic latencies in the rhesus monkey. <i>Journal of Neurophysiology</i> , <b>1987</b> , 57, 1033-49	3.2	507
92	Visual response latencies in striate cortex of the macaque monkey. <i>Journal of Neurophysiology</i> , <b>1992</b> , 68, 1332-44	3.2	474
91	State dependent activity in monkey visual cortex. II. Retinal and extraretinal factors in V4. <i>Experimental Brain Research</i> , <b>1988</b> , 69, 245-59	2.3	464

90	Magnocellular and parvocellular contributions to responses in the middle temporal visual area (MT) of the macaque monkey. <i>Journal of Neuroscience</i> , <b>1990</b> , 10, 3323-34	6.6	388
89	Shape selectivity in primate lateral intraparietal cortex. <i>Nature</i> , <b>1998</b> , 395, 500-3	50.4	339
88	Neuronal representations of cognitive state: reward or attention?. <i>Trends in Cognitive Sciences</i> , <b>2004</b> , 8, 261-5	14	338
87	Differences in gamma frequencies across visual cortex restrict their possible use in computation. <i>Neuron</i> , <b>2010</b> , 67, 885-96	13.9	325
86	The effect of perceptual learning on neuronal responses in monkey visual area V4. <i>Journal of Neuroscience</i> , <b>2004</b> , 24, 1617-26	6.6	309
85	Two-dimensional maps of the cerebral cortex. <i>Journal of Comparative Neurology</i> , <b>1980</b> , 191, 255-81	3.4	302
84	Topographic organization of the middle temporal visual area in the macaque monkey: representational biases and the relationship to callosal connections and myeloarchitectonic boundaries. <i>Journal of Comparative Neurology</i> , <b>1987</b> , 266, 535-55	3.4	284
83	Attention to both space and feature modulates neuronal responses in macaque area V4. <i>Journal of Neurophysiology</i> , <b>2000</b> , 83, 1751-5	3.2	275
82	Effects of attention on the processing of motion in macaque middle temporal and medial superior temporal visual cortical areas. <i>Journal of Neuroscience</i> , <b>1999</b> , 19, 7591-602	6.6	265
81	Functions of the ON and OFF channels of the visual system. <i>Nature</i> , <b>1986</b> , 322, 824-5	50.4	260
80	The projections from striate cortex (V1) to areas V2 and V3 in the macaque monkey: asymmetries, areal boundaries, and patchy connections. <i>Journal of Comparative Neurology</i> , <b>1986</b> , 244, 451-80	3.4	250
79	Effects of spatial attention on contrast response functions in macaque area V4. <i>Journal of Neurophysiology</i> , <b>2006</b> , 96, 40-54	3.2	245
78	Physiological correlates of perceptual learning in monkey V1 and V2. <i>Journal of Neurophysiology</i> , <b>2002</b> , 87, 1867-88	3.2	239
77	Neuronal correlates of inferred motion in primate posterior parietal cortex. <i>Nature</i> , <b>1995</b> , 373, 518-21	50.4	236
76	Visual response latencies of magnocellular and parvocellular LGN neurons in macaque monkeys. <i>Visual Neuroscience</i> , <b>1999</b> , 16, 1-14	1.7	231
75	Dynamics of neuronal responses in macaque MT and VIP during motion detection. <i>Nature Neuroscience</i> , <b>2002</b> , 5, 985-94	25.5	223
74	Effects of attention on the reliability of individual neurons in monkey visual cortex. <i>Neuron</i> , <b>1999</b> , 23, 765-73	13.9	219
73	Attentional modulation in visual cortex depends on task timing. <i>Nature</i> , <b>2002</b> , 419, 616-20	50.4	212

72	Macaque vision after magnocellular lateral geniculate lesions. <i>Visual Neuroscience</i> , <b>1990</b> , 5, 347-52	1.7	212
71	Extraretinal representations in area V4 in the macaque monkey. <i>Visual Neuroscience</i> , <b>1991</b> , 7, 561-73	1.7	205
70	A normalization model of attentional modulation of single unit responses. <i>PLoS ONE</i> , <b>2009</b> , 4, e4651	3.7	167
69	On the relationship between synaptic input and spike output jitter in individual neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 735-40	11.5	155
68	Using neuronal populations to study the mechanisms underlying spatial and feature attention. <i>Neuron</i> , <b>2011</b> , 70, 1192-204	13.9	154
67	Anterior inferotemporal neurons of monkeys engaged in object recognition can be highly sensitive to object retinal position. <i>Journal of Neurophysiology</i> , <b>2003</b> , 89, 3264-78	3.2	154
66	Attentional modulation of behavioral performance and neuronal responses in middle temporal and ventral intraparietal areas of macaque monkey. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 1994-2004	6.6	150
65	Mixed parvocellular and magnocellular geniculate signals in visual area V4. <i>Nature</i> , <b>1992</b> , 358, 756-61	50.4	147
64	The role of attention in visual processing. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2002</b> , 357, 1063-72	5.8	145
63	Do gamma oscillations play a role in cerebral cortex?. <i>Trends in Cognitive Sciences</i> , <b>2015</b> , 19, 78-85	14	141
62	Sensory modality specificity of neural activity related to memory in visual cortex. <i>Journal of Neurophysiology</i> , <b>1997</b> , 78, 1263-75	3.2	141
61	A neuronal population measure of attention predicts behavioral performance on individual trials. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 15241-53	6.6	131
60	Neuronal Mechanisms of Visual Attention. <i>Annual Review of Vision Science</i> , <b>2015</b> , 1, 373-391	8.2	127
59	Mouse primary visual cortex is used to detect both orientation and contrast changes. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 19416-22	6.6	126
58	Receptive fields in human visual cortex mapped with surface electrodes. <i>Cerebral Cortex</i> , <b>2007</b> , 17, 2293-302	5.9	120
57	Spatial attention and the latency of neuronal responses in macaque area V4. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 9632-7	6.6	98
56	Insights into cortical mechanisms of behavior from microstimulation experiments. <i>Progress in Neurobiology</i> , <b>2013</b> , 103, 115-30	10.9	87
55	Using neuronal latency to determine sensory-motor processing pathways in reaction time tasks. <i>Journal of Neurophysiology</i> , <b>2005</b> , 93, 2974-86	3.2	84

54	Psychophysical measurement of contrast sensitivity in the behaving mouse. <i>Journal of Neurophysiology</i> , <b>2012</b> , 107, 758-65	3.2	83
53	No binocular rivalry in the LGN of alert macaque monkeys. <i>Vision Research</i> , <b>1996</b> , 36, 1225-34	2.1	81
52	Behavioral detection of electrical microstimulation in different cortical visual areas. <i>Current Biology</i> , <b>2007</b> , 17, 862-7	6.3	79
51	Cover Videos. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 12909-12909	6.6	78
50	Perceiving electrical stimulation of identified human visual areas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 5389-93	11.5	77
49	Ventral posterior visual area of the macaque: visual topography and areal boundaries. <i>Journal of Comparative Neurology</i> , <b>1986</b> , 252, 139-53	3.4	77
48	Functional visual streams. <i>Current Opinion in Neurobiology</i> , <b>1992</b> , 2, 506-10	7.6	75
47	Network rhythms influence the relationship between spike-triggered local field potential and functional connectivity. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 12674-82	6.6	70
46	Effects of task difficulty and target likelihood in area V4 of macaque monkeys. <i>Journal of Neurophysiology</i> , <b>2006</b> , 96, 2377-87	3.2	69
45	Specialized representations in visual cortex: a role for binding?. <i>Neuron</i> , <b>1999</b> , 24, 79-85, 111-25	13.9	66
44	Neuronal Modulations in Visual Cortex Are Associated with Only One of Multiple Components of Attention. <i>Neuron</i> , <b>2015</b> , 86, 1182-8	13.9	64
43	Tuned normalization explains the size of attention modulations. <i>Neuron</i> , <b>2012</b> , 73, 803-13	13.9	62
42	Attentional modulation of motion integration of individual neurons in the middle temporal visual area. <i>Journal of Neuroscience</i> , <b>2004</b> , 24, 7964-77	6.6	61
41	Form representation in monkey inferotemporal cortex is virtually unaltered by free viewing. <i>Nature Neuroscience</i> , <b>2000</b> , 3, 814-21	25.5	61
40	Spatial summation can explain the attentional modulation of neuronal responses to multiple stimuli in area V4. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 5115-26	6.6	59
39	Nine criteria for a measure of scientific output. <i>Frontiers in Computational Neuroscience</i> , <b>2011</b> , 5, 48	3.5	54
38	Cortical neural populations can guide behavior by integrating inputs linearly, independent of synchrony. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E178-87	11.5	53
37	Deficits in speed discrimination following lesions of the lateral suprasylvian cortex in the cat. <i>Visual Neuroscience</i> , <b>1989</b> , 3, 365-75	1.7	51

36	Attentional modulation of MT neurons with single or multiple stimuli in their receptive fields. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 3058-66	6.6	50
35	Spatial attention does not strongly modulate neuronal responses in early human visual cortex. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 13205-9	6.6	50
34	Microstimulation reveals limits in detecting different signals from a local cortical region. <i>Current Biology</i> , <b>2010</b> , 20, 824-8	6.3	43
33	Strength of gamma rhythm depends on normalization. <i>PLoS Biology</i> , <b>2013</b> , 11, e1001477	9.7	42
32	Attention-related changes in correlated neuronal activity arise from normalization mechanisms. <i>Nature Neuroscience</i> , <b>2017</b> , 20, 969-977	25.5	39
31	When attention wanders: how uncontrolled fluctuations in attention affect performance. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 15802-6	6.6	39
30	Potential confounds in estimating trial-to-trial correlations between neuronal response and behavior using choice probabilities. <i>Journal of Neurophysiology</i> , <b>2012</b> , 108, 3403-15	3.2	39
29	The effect of attention on neuronal responses to high and low contrast stimuli. <i>Journal of Neurophysiology</i> , <b>2010</b> , 104, 960-71	3.2	37
28	Physiological Evidence for Two Visual Subsystems <b>1987</b> , 59-87		36
27	Effects of stimulus direction on the correlation between behavior and single units in area MT during a motion detection task. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 8230-8	6.6	31
26	Attentional Changes in Either Criterion or Sensitivity Are Associated with Robust Modulations in Lateral Prefrontal Cortex. <i>Neuron</i> , <b>2018</b> , 97, 1382-1393.e7	13.9	29
25	Electrical microstimulation thresholds for behavioral detection and saccades in monkey frontal eye fields. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 7315-20	11.5	28
24	Graded Neuronal Modulations Related to Visual Spatial Attention. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 5353-61	6.6	24
23	Spatially tuned normalization explains attention modulation variance within neurons. <i>Journal of Neurophysiology</i> , <b>2017</b> , 118, 1903-1913	3.2	22
22	Magnocellular or parvocellular lesions in the lateral geniculate nucleus of monkeys cause minor deficits of smooth pursuit eye movements. <i>Vision Research</i> , <b>1994</b> , 34, 223-39	2.1	19
21	Neuronal Effects of Spatial and Feature Attention Differ Due to Normalization. <i>Journal of Neuroscience</i> , <b>2019</b> , 39, 5493-5505	6.6	18
20	Different Inhibitory Interneuron Cell Classes Make Distinct Contributions to Visual Contrast Perception. <i>ENeuro</i> , <b>2019</b> , 6,	3.9	17
19	Attention operates uniformly throughout the classical receptive field and the surround. <i>ELife</i> , <b>2016</b> , 5,	8.9	16

18	Effects of motor unit size on innervation patterns in neonatal mammals. <i>Experimental Neurology</i> , <b>1980</b> , 70, 516-24	5.7	11
17	Attention can be subdivided into neurobiological components corresponding to distinct behavioral effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> ,	11.5	11
16	A Refined Neuronal Population Measure of Visual Attention. <i>PLoS ONE</i> , <b>2015</b> , 10, e0136570	3.7	10
15	Computer-controlled electrical stimulation for quantitative mapping of human cortical function. <i>Journal of Neurosurgery</i> , <b>2009</b> , 110, 1300-3	3.2	9
14	A strong constraint to the joint processing of pairs of cortical signals. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 15922-33	6.6	8
13	Motion processing in macaque V4. <i>Nature Neuroscience</i> , <b>2005</b> , 8, 1125; author reply 1125	25.5	7
12	Neuronal Mechanisms of Spatial Attention in Visual Cerebral Cortex <b>2014</b> ,		5
11	Electrical Microstimulation of Visual Cerebral Cortex Elevates Psychophysical Detection Thresholds. <i>ENeuro</i> , <b>2018</b> , 5,	3.9	5
10	Local cortical function after uncomplicated subdural electrode implantation. Laboratory investigation. <i>Journal of Neurosurgery</i> , <b>2008</b> , 108, 139-44	3.2	4
9	Representation of three-dimensional visual space in the cerebral cortex. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>1988</b> , 66, 478-87	2.4	4
8	New Journal Sections. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 1-1	6.6	3
7	The Correlation of Neuronal Signals with Behavior at Different Levels of Visual Cortex and Their Relative Reliability for Behavioral Decisions. <i>Journal of Neuroscience</i> , <b>2020</b> , 40, 3751-3767	6.6	3
6	Flexible center-surround attentional gain fields in V4 neurons. <i>Journal of Vision</i> , <b>2004</b> , 4, 8-8	0.4	2
5	The neuroscience peer review consortium. <i>Behavioral and Brain Functions</i> , <b>2009</b> , 5, 4	4.1	1
4	Single trial dynamics of attentional intensity in visual area V4		1
3	Mice Preferentially Use Increases in Cerebral Cortex Spiking to Detect Changes in Visual Stimuli. <i>Journal of Neuroscience</i> , <b>2020</b> , 40, 7902-7920	6.6	1
2	Single trial neuronal activity dynamics of attentional intensity in monkey visual area V4. <i>Nature Communications</i> , <b>2021</b> , 12, 2003	17.4	1
1	The Neuroscience Peer Review Consortium. <i>Learned Publishing</i> , <b>2010</b> , 23, 15-16	1.8	

