

John H R Maunsell

List of Publications by Year in Descending Order

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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.

107
papers

22,394
citations

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	Single trial neuronal activity dynamics of attentional intensity in monkey visual area V4. <i>Nature Communications</i> , 2021 , 12, 2003	17.4	1
106	Mice Preferentially Use Increases in Cerebral Cortex Spiking to Detect Changes in Visual Stimuli. <i>Journal of Neuroscience</i> , 2020 , 40, 7902-7920	6.6	1
105	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> , 2020 , 40, 3751-3767	6.6	3
104	Neuronal Effects of Spatial and Feature Attention Differ Due to Normalization. <i>Journal of Neuroscience</i> , 2019 , 39, 5493-5505	6.6	18
103	Different Inhibitory Interneuron Cell Classes Make Distinct Contributions to Visual Contrast Perception. <i>ENeuro</i> , 2019 , 6,	3.9	17
102	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> , 2019 ,	11.5	11
101	Attentional Changes in Either Criterion or Sensitivity Are Associated with Robust Modulations in Lateral Prefrontal Cortex. <i>Neuron</i> , 2018 , 97, 1382-1393.e7	13.9	29
100	Electrical Microstimulation of Visual Cerebral Cortex Elevates Psychophysical Detection Thresholds. <i>ENeuro</i> , 2018 , 5,	3.9	5
99	Attention-related changes in correlated neuronal activity arise from normalization mechanisms. <i>Nature Neuroscience</i> , 2017 , 20, 969-977	25.5	39
98	Spatially tuned normalization explains attention modulation variance within neurons. <i>Journal of Neurophysiology</i> , 2017 , 118, 1903-1913	3.2	22
97	Attention operates uniformly throughout the classical receptive field and the surround. <i>ELife</i> , 2016 , 5,	8.9	16
96	Graded Neuronal Modulations Related to Visual Spatial Attention. <i>Journal of Neuroscience</i> , 2016 , 36, 5353-61	6.6	24
95	A Refined Neuronal Population Measure of Visual Attention. <i>PLoS ONE</i> , 2015 , 10, e0136570	3.7	10
94	Neuronal Modulations in Visual Cortex Are Associated with Only One of Multiple Components of Attention. <i>Neuron</i> , 2015 , 86, 1182-8	13.9	64
93	Neuronal Mechanisms of Visual Attention. <i>Annual Review of Vision Science</i> , 2015 , 1, 373-391	8.2	127
92	Do gamma oscillations play a role in cerebral cortex?. <i>Trends in Cognitive Sciences</i> , 2015 , 19, 78-85	14	141
91	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> , 2014 , 111, E178-87	11.5	53

90	Neuronal Mechanisms of Spatial Attention in Visual Cerebral Cortex 2014 ,		5
89	Insights into cortical mechanisms of behavior from microstimulation experiments. <i>Progress in Neurobiology</i> , 2013 , 103, 115-30	10.9	87
88	New Journal Sections. <i>Journal of Neuroscience</i> , 2013 , 33, 1-1	6.6	3
87	Strength of gamma rhythm depends on normalization. <i>PLoS Biology</i> , 2013 , 11, e1001477	9.7	42
86	Cover Videos. <i>Journal of Neuroscience</i> , 2013 , 33, 12909-12909	6.6	78
85	Mouse primary visual cortex is used to detect both orientation and contrast changes. <i>Journal of Neuroscience</i> , 2013 , 33, 19416-22	6.6	126
84	Tuned normalization explains the size of attention modulations. <i>Neuron</i> , 2012 , 73, 803-13	13.9	62
83	A strong constraint to the joint processing of pairs of cortical signals. <i>Journal of Neuroscience</i> , 2012 , 32, 15922-33	6.6	8
82	Potential confounds in estimating trial-to-trial correlations between neuronal response and behavior using choice probabilities. <i>Journal of Neurophysiology</i> , 2012 , 108, 3403-15	3.2	39
81	Psychophysical measurement of contrast sensitivity in the behaving mouse. <i>Journal of Neurophysiology</i> , 2012 , 107, 758-65	3.2	83
80	Using neuronal populations to study the mechanisms underlying spatial and feature attention. <i>Neuron</i> , 2011 , 70, 1192-204	13.9	154
79	Nine criteria for a measure of scientific output. <i>Frontiers in Computational Neuroscience</i> , 2011 , 5, 48	3.5	54
78	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> , 2011 , 31, 8230-8	6.6	31
77	When attention wanders: how uncontrolled fluctuations in attention affect performance. <i>Journal of Neuroscience</i> , 2011 , 31, 15802-6	6.6	39
76	Network rhythms influence the relationship between spike-triggered local field potential and functional connectivity. <i>Journal of Neuroscience</i> , 2011 , 31, 12674-82	6.6	70
75	Different origins of gamma rhythm and high-gamma activity in macaque visual cortex. <i>PLoS Biology</i> , 2011 , 9, e1000610	9.7	615
74	The effect of attention on neuronal responses to high and low contrast stimuli. <i>Journal of Neurophysiology</i> , 2010 , 104, 960-71	3.2	37
73	A neuronal population measure of attention predicts behavioral performance on individual trials. <i>Journal of Neuroscience</i> , 2010 , 30, 15241-53	6.6	131

72	Attentional modulation of MT neurons with single or multiple stimuli in their receptive fields. <i>Journal of Neuroscience</i> , 2010 , 30, 3058-66	6.6	50
71	Differences in gamma frequencies across visual cortex restrict their possible use in computation. <i>Neuron</i> , 2010 , 67, 885-96	13.9	325
70	The Neuroscience Peer Review Consortium. <i>Learned Publishing</i> , 2010 , 23, 15-16	1.8	
69	Microstimulation reveals limits in detecting different signals from a local cortical region. <i>Current Biology</i> , 2010 , 20, 824-8	6.3	43
68	Attention improves performance primarily by reducing interneuronal correlations. <i>Nature Neuroscience</i> , 2009 , 12, 1594-600	25.5	726
67	The neuroscience peer review consortium. <i>Behavioral and Brain Functions</i> , 2009 , 5, 4	4.1	1
66	Perceiving electrical stimulation of identified human visual areas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5389-93	11.5	77
65	Computer-controlled electrical stimulation for quantitative mapping of human cortical function. <i>Journal of Neurosurgery</i> , 2009 , 110, 1300-3	3.2	9
64	A normalization model of attentional modulation of single unit responses. <i>PLoS ONE</i> , 2009 , 4, e4651	3.7	167
63	Spatial summation can explain the attentional modulation of neuronal responses to multiple stimuli in area V4. <i>Journal of Neuroscience</i> , 2008 , 28, 5115-26	6.6	59
62	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> , 2008 , 105, 7315-20	11.5	28
61	Local cortical function after uncomplicated subdural electrode implantation. Laboratory investigation. <i>Journal of Neurosurgery</i> , 2008 , 108, 139-44	3.2	4
60	Behavioral detection of electrical microstimulation in different cortical visual areas. <i>Current Biology</i> , 2007 , 17, 862-7	6.3	79
59	Spatial attention does not strongly modulate neuronal responses in early human visual cortex. <i>Journal of Neuroscience</i> , 2007 , 27, 13205-9	6.6	50
58	Receptive fields in human visual cortex mapped with surface electrodes. <i>Cerebral Cortex</i> , 2007 , 17, 2293-302	5.0	120
57	Spatial attention and the latency of neuronal responses in macaque area V4. <i>Journal of Neuroscience</i> , 2007 , 27, 9632-7	6.6	98
56	Feature-based attention in visual cortex. <i>Trends in Neurosciences</i> , 2006 , 29, 317-22	13.3	593
55	Effects of task difficulty and target likelihood in area V4 of macaque monkeys. <i>Journal of Neurophysiology</i> , 2006 , 96, 2377-87	3.2	69

54	Effects of spatial attention on contrast response functions in macaque area V4. <i>Journal of Neurophysiology</i> , 2006 , 96, 40-54	3.2	245
53	Using neuronal latency to determine sensory-motor processing pathways in reaction time tasks. <i>Journal of Neurophysiology</i> , 2005 , 93, 2974-86	3.2	84
52	Motion processing in macaque V4. <i>Nature Neuroscience</i> , 2005 , 8, 1125; author reply 1125	25.5	7
51	Attentional modulation of motion integration of individual neurons in the middle temporal visual area. <i>Journal of Neuroscience</i> , 2004 , 24, 7964-77	6.6	61
50	The effect of perceptual learning on neuronal responses in monkey visual area V4. <i>Journal of Neuroscience</i> , 2004 , 24, 1617-26	6.6	309
49	Neuronal representations of cognitive state: reward or attention?. <i>Trends in Cognitive Sciences</i> , 2004 , 8, 261-5	14	338
48	Flexible center-surround attentional gain fields in V4 neurons. <i>Journal of Vision</i> , 2004 , 4, 8-8	0.4	2
47	Anterior inferotemporal neurons of monkeys engaged in object recognition can be highly sensitive to object retinal position. <i>Journal of Neurophysiology</i> , 2003 , 89, 3264-78	3.2	154
46	Physiological correlates of perceptual learning in monkey V1 and V2. <i>Journal of Neurophysiology</i> , 2002 , 87, 1867-88	3.2	239
45	Attentional modulation of behavioral performance and neuronal responses in middle temporal and ventral intraparietal areas of macaque monkey. <i>Journal of Neuroscience</i> , 2002 , 22, 1994-2004	6.6	150
44	Attentional modulation in visual cortex depends on task timing. <i>Nature</i> , 2002 , 419, 616-20	50.4	212
43	Dynamics of neuronal responses in macaque MT and VIP during motion detection. <i>Nature Neuroscience</i> , 2002 , 5, 985-94	25.5	223
42	The role of attention in visual processing. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002 , 357, 1063-72	5.8	145
41	Form representation in monkey inferotemporal cortex is virtually unaltered by free viewing. <i>Nature Neuroscience</i> , 2000 , 3, 814-21	25.5	61
40	Attention to both space and feature modulates neuronal responses in macaque area V4. <i>Journal of Neurophysiology</i> , 2000 , 83, 1751-5	3.2	275
39	Effects of attention on the processing of motion in macaque middle temporal and medial superior temporal visual cortical areas. <i>Journal of Neuroscience</i> , 1999 , 19, 7591-602	6.6	265
38	Effects of attention on orientation-tuning functions of single neurons in macaque cortical area V4. <i>Journal of Neuroscience</i> , 1999 , 19, 431-41	6.6	884
37	Specialized representations in visual cortex: a role for binding?. <i>Neuron</i> , 1999 , 24, 79-85, 111-25	13.9	66

36	Effects of attention on the reliability of individual neurons in monkey visual cortex. <i>Neuron</i> , 1999 , 23, 765-73	13.9	219
35	Visual response latencies of magnocellular and parvocellular LGN neurons in macaque monkeys. <i>Visual Neuroscience</i> , 1999 , 16, 1-14	1.7	231
34	Shape selectivity in primate lateral intraparietal cortex. <i>Nature</i> , 1998 , 395, 500-3	50.4	339
33	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> , 1997 , 94, 735-40	11.5	155
32	Sensory modality specificity of neural activity related to memory in visual cortex. <i>Journal of Neurophysiology</i> , 1997 , 78, 1263-75	3.2	141
31	No binocular rivalry in the LGN of alert macaque monkeys. <i>Vision Research</i> , 1996 , 36, 1225-34	2.1	81
30	Attentional modulation of visual motion processing in cortical areas MT and MST. <i>Nature</i> , 1996 , 382, 539-41	50.4	911
29	Neuronal correlates of inferred motion in primate posterior parietal cortex. <i>Nature</i> , 1995 , 373, 518-21	50.4	236
28	Magnocellular or parvocellular lesions in the lateral geniculate nucleus of monkeys cause minor deficits of smooth pursuit eye movements. <i>Vision Research</i> , 1994 , 34, 223-39	2.1	19
27	How parallel are the primate visual pathways?. <i>Annual Review of Neuroscience</i> , 1993 , 16, 369-402	17	1334
26	Functional visual streams. <i>Current Opinion in Neurobiology</i> , 1992 , 2, 506-10	7.6	75
25	Visual response latencies in striate cortex of the macaque monkey. <i>Journal of Neurophysiology</i> , 1992 , 68, 1332-44	3.2	474
24	Mixed parvocellular and magnocellular geniculate signals in visual area V4. <i>Nature</i> , 1992 , 358, 756-61	50.4	147
23	Extraretinal representations in area V4 in the macaque monkey. <i>Visual Neuroscience</i> , 1991 , 7, 561-73	1.7	205
22	Magnocellular and parvocellular contributions to responses in the middle temporal visual area (MT) of the macaque monkey. <i>Journal of Neuroscience</i> , 1990 , 10, 3323-34	6.6	388
21	Macaque vision after magnocellular lateral geniculate lesions. <i>Visual Neuroscience</i> , 1990 , 5, 347-52	1.7	212
20	Coding of image contrast in central visual pathways of the macaque monkey. <i>Vision Research</i> , 1990 , 30, 1-10	2.1	536
19	Deficits in speed discrimination following lesions of the lateral suprasylvian cortex in the cat. <i>Visual Neuroscience</i> , 1989 , 3, 365-75	1.7	51

18	State dependent activity in monkey visual cortex. II. Retinal and extraretinal factors in V4. <i>Experimental Brain Research</i> , 1988 , 69, 245-59	2.3	464
17	Representation of three-dimensional visual space in the cerebral cortex. <i>Canadian Journal of Physiology and Pharmacology</i> , 1988 , 66, 478-87	2.4	4
16	Visual processing in monkey extrastriate cortex. <i>Annual Review of Neuroscience</i> , 1987 , 10, 363-401	17	999
15	The effect of frontal eye field and superior colliculus lesions on saccadic latencies in the rhesus monkey. <i>Journal of Neurophysiology</i> , 1987 , 57, 1033-49	3.2	507
14	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> , 1987 , 266, 535-55	3.4	284
13	Physiological Evidence for Two Visual Subsystems 1987 , 59-87		36
12	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> , 1986 , 244, 451-80	3.4	250
11	Ventral posterior visual area of the macaque: visual topography and areal boundaries. <i>Journal of Comparative Neurology</i> , 1986 , 252, 139-53	3.4	77
10	Functions of the ON and OFF channels of the visual system. <i>Nature</i> , 1986 , 322, 824-5	50.4	260
9	The visual field representation in striate cortex of the macaque monkey: asymmetries, anisotropies, and individual variability. <i>Vision Research</i> , 1984 , 24, 429-48	2.1	766
8	Hierarchical organization and functional streams in the visual cortex. <i>Trends in Neurosciences</i> , 1983 , 6, 370-375	13.3	698
7	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> , 1983 , 49, 1148-67 ²		547
6	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> , 1983 , 49, 1127-47	3.2	1149
5	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> , 1983 , 3, 2563-86	6.6	1217
4	The middle temporal visual area in the macaque: myeloarchitecture, connections, functional properties and topographic organization. <i>Journal of Comparative Neurology</i> , 1981 , 199, 293-326	3.4	594
3	Two-dimensional maps of the cerebral cortex. <i>Journal of Comparative Neurology</i> , 1980 , 191, 255-81	3.4	302
2	Effects of motor unit size on innervation patterns in neonatal mammals. <i>Experimental Neurology</i> , 1980 , 70, 516-24	5.7	11
1	Single trial dynamics of attentional intensity in visual area V4		1

