Margaret S Livingstone

List of Publications by Year
in descending order

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Version: 2024-02-01

113 papers	19,386 citations	34105 52 h-index	24982 109 g-index
123 all docs	123 docs citations	123 times ranked	10089 citing authors

#	Article	IF	Citations
1	Segregation of Form, Color, Movement, and Depth: Anatomy, Physiology, and Perception. Science, 1988, 240, 740-749.	12.6	3,162
2	Psychophysical evidence for separate channels for the perception of form, color, movement, and depth. Journal of Neuroscience, 1987, 7, 3416-3468.	3.6	1,737
3	Anatomy and physiology of a color system in the primate visual cortex. Journal of Neuroscience, 1984, 4, 309-356.	3.6	1,578
4	A Cortical Region Consisting Entirely of Face-Selective Cells. Science, 2006, 311, 670-674.	12.6	991
5	Physiological and anatomical evidence for a magnocellular defect in developmental dyslexia.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 7943-7947.	7.1	838
6	Segregation of form, color, and stereopsis in primate area 18. Journal of Neuroscience, 1987, 7, 3378-3415.	3.6	746
7	Loss of calcium/calmodulin responsiveness in adenylate cyclase of rutabaga, a Drosophila learning mutant. Cell, 1984, 37, 205-215.	28.9	613
8	Effects of sleep and arousal on the processing of visual information in the cat. Nature, 1981, 291, 554-561.	27.8	569
9	Mechanisms of Face Perception. Annual Review of Neuroscience, 2008, 31, 411-437.	10.7	533
10	Temporary Disruption of the Bloodâ€"Brain Barrier by Use of Ultrasound and Microbubbles: Safety and Efficacy Evaluation in Rhesus Macaques. Cancer Research, 2012, 72, 3652-3663.	0.9	474
11	A face feature space in the macaque temporal lobe. Nature Neuroscience, 2009, 12, 1187-1196.	14.8	384
12	Serotonin and Octopamine Produce Opposite Postures in Lobsters. Science, 1980, 208, 76-79.	12.6	380
13	Neuronal correlates of visibility and invisibility in the primate visual system. Nature Neuroscience, 1998, 1, 144-149.	14.8	357
14	Stereopsis Activates V3A and Caudal Intraparietal Areas in Macaques and Humans. Neuron, 2003, 39, 555-568.	8.1	309
15	Thalamic inputs to cytochrome oxidase-rich regions in monkey visual cortex.. Proceedings of the National Academy of Sciences of the United States of America, 1982, 79, 6098-6101.	7.1	305
16	Specificity of intrinsic connections in primate primary visual cortex. Journal of Neuroscience, 1984, 4, 2830-2835.	3.6	277
17	Connections between layer 4B of area 17 and the thick cytochrome oxidase stripes of area 18 in the squirrel monkey. Journal of Neuroscience, 1987, 7, 3371-3377.	3.6	242
18	Genetic dissection of monoamine neurotransmitter synthesis in Drosophila. Nature, 1983, 303, 67-70.	27.8	223

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19	Seeing faces is necessary for face-domain formation. Nature Neuroscience, 2017, 20, 1404-1412.	14.8	208
20	Mechanisms of Direction Selectivity in Macaque V1. Neuron, 1998, 20, 509-526.	8.1	206
21	Oscillatory firing and interneuronal correlations in squirrel monkey striate cortex. Journal of Neurophysiology, 1996, 75, 2467-2485.	1.8	204
22	Amines and A Peptide As Neurohormones in Lobsters: Actions on Neuromuscular Preparations and Preliminary Behavioural Studies. Journal of Experimental Biology, 1980, 89, 159-175.	1.7	204
23	Evidence for a Magnocellular Defect in Developmental Dyslexia. Annals of the New York Academy of Sciences, 1993, 682, 70-82.	3.8	190
24	Color and contrast sensitivity in the lateral geniculate body and primary visual cortex of the macaque monkey. Journal of Neuroscience, 1990, 10, 2223-2237.	3.6	179
25	Genetic dissection of Drosophila adenylate cyclase.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 5992-5996.	7.1	174
26	End-Stopping and the Aperture Problem. Neuron, 2003, 39, 671-680.	8.1	158
27	Complexâ€"unoriented cells in a subregion of primate area 18. Nature, 1985, 315, 325-327.	27.8	154
28	Evolving Images for Visual Neurons Using a Deep Generative Network Reveals Coding Principles and Neuronal Preferences. Cell, 2019, 177, 999-1009.e10.	28.9	153
29	Controlled Ultrasound-Induced Blood-Brain Barrier Disruption Using Passive Acoustic Emissions Monitoring. PLoS ONE, 2012, 7, e45783.	2.5	150
30	Mutations in the dopa decarboxylase gene affect learning in Drosophila.. Proceedings of the National Academy of Sciences of the United States of America, 1984, 81, 3577-3581.	7.1	148
31	Specificity of cortico-cortical connections in monkey visual system. Nature, 1983, 304, 531-534.	27.8	145
32	Spatial and Temporal Properties of Cone Signals in Alert Macaque Primary Visual Cortex. Journal of Neuroscience, 2006, 26, 10826-10846.	3.6	137
33	A hierarchical, retinotopic proto-organization of the primate visual system at birth. ELife, 2017, 6, .	6.0	132
34	Novel domain formation reveals proto-architecture in inferotemporal cortex. Nature Neuroscience, 2014, 17, 1776-1783.	14.8	131
35	Biochemistry and ultrastructure of serotonergic nerve endings in the lobster: Serotonin and octopamine are contained in different nerve endings. Journal of Neurobiology, 1981, 12, 27-54.	3.6	129
36	Multivariate Patterns in Object-Selective Cortex Dissociate Perceptual and Physical Shape Similarity. PLoS Biology, 2008, 6, e187.	5.6	126

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37	Evolution of Osteocrin as an activity-regulated factor in the primate brain. Nature, 2016, 539, 242-247.	27.8	120
38	Art, Illusion and the Visual System. Scientific American, 1988, 258, 78-85.	1.0	104
39	Colour-generating interactions across the corpus callosum. Nature, 1983, 303, 616-618.	27.8	103
40	Neural Basis for a Powerful Static Motion Illusion. Journal of Neuroscience, 2005, 25, 5651-5656.	3.6	95
41	Behavioral and Anatomical Consequences of Early versus Late Symbol Training in Macaques. Neuron, 2012, 73, 608-619.	8.1	95
42	Using fMRI to distinguish components of the multiple object tracking task. Journal of Vision, 2009, 9, 10-10.	0.3	93
43	Two-Dimensional Substructure of MT Receptive Fields. Neuron, 2001, 30, 781-793.	8.1	92
44	Do the relative mapping densities of the magno- and parvocellular systems vary with eccentricity?. Journal of Neuroscience, 1988, 8, 4334-4339.	3.6	88
45	Combined ultrasound and MR imaging to guide focused ultrasound therapies in the brain. Physics in Medicine and Biology, 2013, 58, 4749-4761.	3.0	88
46	The Well-Modulated Lobster. , 1985, , 339-360.		82
47	Development of the macaque face-patch system. Nature Communications, 2017, 8, 14897.	12.8	79
48	Spatiotemporal Structure of Nonlinear Subunits in Macaque Visual Cortex. Journal of Neuroscience, 2006, 26, 893-907.	3.6	78
49	Color Contrast in Macaque V1. Cerebral Cortex, 2002, 12, 915-925.	2.9	77
50	Two-Dimensional Substructure of Stereo and Motion Interactions in Macaque Visual Cortex. Neuron, 2003, 37, 525-535.	8.1	63
51	Role of Prefrontal Cortex in Conscious Visual Perception. Journal of Neuroscience, 2011, 31, 64-69.	3.6	61
52	Space-Time Maps and Two-Bar Interactions of Different Classes of Direction-Selective Cells in Macaque V-1. Journal of Neurophysiology, 2003, 89, 2726-2742.	1.8	57
53	Receptive Fields of Disparity-Tuned Simple Cells in Macaque V1. Neuron, 2003, 38, 103-114.	8.1	57
54	Retinotopic Organization of Scene Areas in Macaque Inferior Temporal Cortex. Journal of Neuroscience, 2017, 37, 7373-7389.	3.6	57

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55	Substructure of Direction-Selective Receptive Fields in Macaque V1. Journal of Neurophysiology, 2003, 89, 2743-2759.	1.8	56
56	Cavitation-enhanced nonthermal ablation in deep brain targets: feasibility in a large animal model. Journal of Neurosurgery, 2016, 124, 1450-1459.	1.6	52
57	On the relationship between maps and domains in inferotemporal cortex. Nature Reviews Neuroscience, 2021, 22, 573-583.	10.2	50
58	Ocular dominance columns in New World monkeys. Journal of Neuroscience, 1996, 16, 2086-2096.	3.6	45
59	End-Stopping Predicts Curvature Tuning along the Ventral Stream. Journal of Neuroscience, 2017, 37, 648-659.	3.6	40
60	Receptive fields of disparity-selective neurons in macaque striate cortex. Nature Neuroscience, 1999, 2, 825-832.	14.8	39
61	End stopping in V1 is sensitive to contrast. Nature Neuroscience, 2006, 9, 697-702.	14.8	39
62	Crossing the â€˜Uncanny Valleyâ€™: Adaptation to Cartoon Faces Can Influence Perception of Human Faces. Perception, 2010, 39, 378-386.	1.2	39
63	Spatial relationship and extrafoveal vision. Nature, 1985, 315, 285-285.	27.8	36
64	Targeted, noninvasive blockade of cortical neuronal activity. Scientific Reports, 2015, 5, 16253.	3.3	34
65	The well-modulated lobster: The roles of serotonin, octopamine, and proctolin in the lobster nervous system. Pesticide Biochemistry and Physiology, 1984, 22, 133-147.	3.6	33
66	Universal Mechanisms and the Development of the Face Network: What You See Is What You Get. Annual Review of Vision Science, 2019, 5, 341-372.	4.4	32
67	Neurohormones and lobsters: biochemistry to behavior. Trends in Neurosciences, 1983, 6, 345-349.	8.6	31
68	Perspectives on science and art. Current Opinion in Neurobiology, 2007, 17, 476-482.	4.2	31
69	Focused ultrasound induced opening of the blood-brain barrier disrupts inter-hemispheric resting state functional connectivity in the rat brain. NeuroImage, 2018, 178, 414-422.	4.2	31
70	Modulation of brain function by targeted delivery of GABA through the disrupted blood-brain barrier. NeuroImage, 2019, 189, 267-275.	4.2	31
71	Stereopsis and positional acuity under dark adaptation. Vision Research, 1994, 34, 799-802.	1.4	30
72	Stereopsis and binocularity in the squirrel monkey. Vision Research, 1995, 35, 345-354.	1.4	30

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73	Contrast Affects Speed Tuning, Space-Time Slant, and Receptive-Field Organization of Simple Cells in Macaque V1. Journal of Neurophysiology, 2007, 97, 849-857.	1.8	30
74	Body map proto-organization in newborn macaques. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24861-24871.	7.1	30
75	Was Rembrandt Stereoblind?. New England Journal of Medicine, 2004, 351, 1264-1265.	27.0	29
76	A dual-mode hemispherical sparse array for 3D passive acoustic mapping and skull localization within a clinical MRI guided focused ultrasound device. Physics in Medicine and Biology, 2018, 63, 065008.	3.0	29
77	Perceptual and physiological evidence for a role for early visual areas in motion-induced blindness. Journal of Vision, 2009, 9, 14-14.	0.3	28
78	The benefit of symbols: monkeys show linear, human-like, accuracy when using symbols to represent scalar value. Animal Cognition, 2010, 13, 711-719.	1.8	26
79	Noninvasive functional MRI in alert monkeys. NeuroImage, 2010, 51, 267-273.	4.2	26
80	Privileged Coding of Convex Shapes in Human Object-Selective Cortex. Journal of Neurophysiology, 2008, 100, 753-762.	1.8	25
81	Symbol addition by monkeys provides evidence for normalized quantity coding. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6822-6827.	7.1	24
82	Sulcal Depth in the Medial Ventral Temporal Cortex Predicts the Location of a Place-Selective Region in Macaques, Children, and Adults. Cerebral Cortex, 2021, 31, 48-61.	2.9	24
83	Differences between stereopsis, interocular correlation and binocularity. Vision Research, 1996, 36, 1127-1140.	1.4	21
84	Cortex Is Cortex: Ubiquitous Principles Drive Face-Domain Development. Trends in Cognitive Sciences, 2019, 23, 3-4.	7.8	21
85	Loss of Neurofilament Labeling in the Primary Visual Cortex of Monocularly Deprived Monkeys. Cerebral Cortex, 2005, 15, 1146-1154.	2.9	20
86	The neurovascular response is attenuated by focused ultrasound-mediated disruption of the blood-brain barrier. NeuroImage, 2019, 201, 116010.	4.2	20
87	Anatomical correlates of face patches in macaque inferotemporal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32667-32678.	7.1	18
88	Preclinical evaluation of a low-frequency transcranial MRI-guided focused ultrasound system in a primate model. Physics in Medicine and Biology, 2016, 61, 7664-7687.	3.0	17
89	A different point of hue. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10761-10762.	7.1	16
90	Cytochrome Oxidase and Neurofilament Reactivity in Monocularly Deprived Human Primary Visual Cortex. Cerebral Cortex, 2007, 17, 1283-1291.	2.9	16

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91	Colored halos around faces and emotion-evoked colors: A new form of synesthesia. Neurocase, 2012, 18, 352-358.	0.6	15
92	Color Puzzles. Cold Spring Harbor Symposia on Quantitative Biology, 1990, 55, 643-649.	1.1	14
93	The neurons that mistook a hat for a face. ELife, 2020, 9, .	6.0	14
94	Explaining the footsteps, belly dancer, Wenceslas, and kickback illusions. Journal of Vision, 2006, 6, 5.	0.3	12
95	Stereopsis and Artistic Talent. Psychological Science, 2011, 22, 336-338.	3.3	11
96	Directional Inhibition. Neuron, 2005, 45, 5-7.	8.1	10
97	The 11th J. A. F. Stevenson Memorial Lecture: Blobs and color vision. Canadian Journal of Physiology and Pharmacology, 1983, 61, 1433-1441.	1.4	7
98	Distribution of Non-phosphorylated Neurofilament in Squirrel Monkey V1 Is Complementary to the Pattern of Cytochrome-oxidase Blobs. Cerebral Cortex, 2003, 13, 722-727.	2.9	7
99	V1 Partially Solves the Stereo Aperture Problem. Cerebral Cortex, 2006, 16, 1332-1337.	2.9	7
100	Posterior Inferotemporal Cortex Cells Use Multiple Input Pathways for Shape Encoding. Journal of Neuroscience, 2017, 37, 5019-5034.	3.6	7
101	The double-anchoring theory of lightness perception: A comment on Bressan (2006).. Psychological Review, 2007, 114, 1105-1109.	3.8	5
102	The Use of the Cancellation Technique to Quantify the Hermann Grid Illusion. PLoS ONE, 2007, 2, e265.	2.5	4
103	End-Stopping Predicts Curvature Tuning along the Ventral Stream. Journal of Neuroscience, 2017, 37, 648-659.	3.6	4
104	Face neurons encode nonsemantic features. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2118705119.	7.1	4
105	Preserved cortical organization in the absence of early visual input. Journal of Vision, 2018, 18, 27.	0.3	3
106	A comment on â€œPerceptual correlates of magnocellular and parvocellular channels: Seeing form and depth in afterimagesâ€• Vision Research, 1991, 31, 1655-1656.	1.4	1
107	Ultrasound-mediated blood-brain barrier disruption for targeted drug delivery in the central nervous system. Proceedings of SPIE, 2015, , .	0.8	1
108	5th International Symposium on Focused Ultrasound. Journal of Therapeutic Ultrasound, 2016, 4, .	2.2	1

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109	The neurons that mistook Stuartâ€™s hat for his face. Journal of Vision, 2019, 19, 259c.	0.3	1
110	The retrocalcarine sulcus maps different retinotopic representations in macaques and humans. Brain Structure and Function, 2021, , 1.	2.3	1
111	Physiological Mechanisms Underlying Motion-Induced Blindness. Nature Precedings, 2008, , .	0.1	0
112	Retinotopic organization of scene area in macaque inferior temporal cortex and its implications for development. Journal of Vision, 2017, 17, 309.	0.3	0
113	Anatomical folding predicts the location of face-selective domains in macaque IT. Journal of Vision, 2020, 20, 440.	0.3	0