

Margaret S Livingstone

List of Publications by Year in descending order

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113
papers

19,386
citations

34016

52
h-index

24915

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.	6.0	3,162
2	Psychophysical evidence for separate channels for the perception of form, color, movement, and depth. Journal of Neuroscience, 1987, 7, 3416-3468.	1.7	1,737
3	Anatomy and physiology of a color system in the primate visual cortex. Journal of Neuroscience, 1984, 4, 309-356.	1.7	1,578
4	A Cortical Region Consisting Entirely of Face-Selective Cells. Science, 2006, 311, 670-674.	6.0	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.	3.3	838
6	Segregation of form, color, and stereopsis in primate area 18. Journal of Neuroscience, 1987, 7, 3378-3415.	1.7	746
7	Loss of calcium/calmodulin responsiveness in adenylate cyclase of rutabaga, a Drosophila learning mutant. Cell, 1984, 37, 205-215.	13.5	613
8	Effects of sleep and arousal on the processing of visual information in the cat. Nature, 1981, 291, 554-561.	13.7	569
9	Mechanisms of Face Perception. Annual Review of Neuroscience, 2008, 31, 411-437.	5.0	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.	0.4	474
11	A face feature space in the macaque temporal lobe. Nature Neuroscience, 2009, 12, 1187-1196.	7.1	384
12	Serotonin and Octopamine Produce Opposite Postures in Lobsters. Science, 1980, 208, 76-79.	6.0	380
13	Neuronal correlates of visibility and invisibility in the primate visual system. Nature Neuroscience, 1998, 1, 144-149.	7.1	357
14	Stereopsis Activates V3A and Caudal Intraparietal Areas in Macaques and Humans. Neuron, 2003, 39, 555-568.	3.8	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.	3.3	305
16	Specificity of intrinsic connections in primate primary visual cortex. Journal of Neuroscience, 1984, 4, 2830-2835.	1.7	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.	1.7	242
18	Genetic dissection of monoamine neurotransmitter synthesis in Drosophila. Nature, 1983, 303, 67-70.	13.7	223

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19	Seeing faces is necessary for face-domain formation. <i>Nature Neuroscience</i> , 2017, 20, 1404-1412.	7.1	208
20	Mechanisms of Direction Selectivity in Macaque V1. <i>Neuron</i> , 1998, 20, 509-526.	3.8	206
21	Oscillatory firing and interneuronal correlations in squirrel monkey striate cortex. <i>Journal of Neurophysiology</i> , 1996, 75, 2467-2485.	0.9	204
22	Amines and A Peptide As Neurohormones in Lobsters: Actions on Neuromuscular Preparations and Preliminary Behavioural Studies. <i>Journal of Experimental Biology</i> , 1980, 89, 159-175.	0.8	204
23	Evidence for a Magnocellular Defect in Developmental Dyslexia. <i>Annals of the New York Academy of Sciences</i> , 1993, 682, 70-82.	1.8	190
24	Color and contrast sensitivity in the lateral geniculate body and primary visual cortex of the macaque monkey. <i>Journal of Neuroscience</i> , 1990, 10, 2223-2237.	1.7	179
25	Genetic dissection of <i>Drosophila</i> adenylate cyclase.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985, 82, 5992-5996.	3.3	174
26	End-Stopping and the Aperture Problem. <i>Neuron</i> , 2003, 39, 671-680.	3.8	158
27	Complex “unoriented cells in a subregion of primate area 18. <i>Nature</i> , 1985, 315, 325-327.	13.7	154
28	Evolving Images for Visual Neurons Using a Deep Generative Network Reveals Coding Principles and Neuronal Preferences. <i>Cell</i> , 2019, 177, 999-1009.e10.	13.5	153
29	Controlled Ultrasound-Induced Blood-Brain Barrier Disruption Using Passive Acoustic Emissions Monitoring. <i>PLoS ONE</i> , 2012, 7, e45783.	1.1	150
30	Mutations in the dopa decarboxylase gene affect learning in <i>Drosophila</i> .. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1984, 81, 3577-3581.	3.3	148
31	Specificity of cortico-cortical connections in monkey visual system. <i>Nature</i> , 1983, 304, 531-534.	13.7	145
32	Spatial and Temporal Properties of Cone Signals in Alert Macaque Primary Visual Cortex. <i>Journal of Neuroscience</i> , 2006, 26, 10826-10846.	1.7	137
33	A hierarchical, retinotopic proto-organization of the primate visual system at birth. <i>ELife</i> , 2017, 6, .	2.8	132
34	Novel domain formation reveals proto-architecture in inferotemporal cortex. <i>Nature Neuroscience</i> , 2014, 17, 1776-1783.	7.1	131
35	Biochemistry and ultrastructure of serotonergic nerve endings in the lobster: Serotonin and octopamine are contained in different nerve endings. <i>Journal of Neurobiology</i> , 1981, 12, 27-54.	3.7	129
36	Multivariate Patterns in Object-Selective Cortex Dissociate Perceptual and Physical Shape Similarity. <i>PLoS Biology</i> , 2008, 6, e187.	2.6	126

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37	Evolution of Osteocrin as an activity-regulated factor in the primate brain. <i>Nature</i> , 2016, 539, 242-247.	13.7	120
38	Art, Illusion and the Visual System. <i>Scientific American</i> , 1988, 258, 78-85.	1.0	104
39	Colour-generating interactions across the corpus callosum. <i>Nature</i> , 1983, 303, 616-618.	13.7	103
40	Neural Basis for a Powerful Static Motion Illusion. <i>Journal of Neuroscience</i> , 2005, 25, 5651-5656.	1.7	95
41	Behavioral and Anatomical Consequences of Early versus Late Symbol Training in Macaques. <i>Neuron</i> , 2012, 73, 608-619.	3.8	95
42	Using fMRI to distinguish components of the multiple object tracking task. <i>Journal of Vision</i> , 2009, 9, 10-10.	0.1	93
43	Two-Dimensional Substructure of MT Receptive Fields. <i>Neuron</i> , 2001, 30, 781-793.	3.8	92
44	Do the relative mapping densities of the magno- and parvocellular systems vary with eccentricity?. <i>Journal of Neuroscience</i> , 1988, 8, 4334-4339.	1.7	88
45	Combined ultrasound and MR imaging to guide focused ultrasound therapies in the brain. <i>Physics in Medicine and Biology</i> , 2013, 58, 4749-4761.	1.6	88
46	The Well-Modulated Lobster. , 1985, , 339-360.		82
47	Development of the macaque face-patch system. <i>Nature Communications</i> , 2017, 8, 14897.	5.8	79
48	Spatiotemporal Structure of Nonlinear Subunits in Macaque Visual Cortex. <i>Journal of Neuroscience</i> , 2006, 26, 893-907.	1.7	78
49	Color Contrast in Macaque V1. <i>Cerebral Cortex</i> , 2002, 12, 915-925.	1.6	77
50	Two-Dimensional Substructure of Stereo and Motion Interactions in Macaque Visual Cortex. <i>Neuron</i> , 2003, 37, 525-535.	3.8	63
51	Role of Prefrontal Cortex in Conscious Visual Perception. <i>Journal of Neuroscience</i> , 2011, 31, 64-69.	1.7	61
52	Space-Time Maps and Two-Bar Interactions of Different Classes of Direction-Selective Cells in Macaque V-1. <i>Journal of Neurophysiology</i> , 2003, 89, 2726-2742.	0.9	57
53	Receptive Fields of Disparity-Tuned Simple Cells in Macaque V1. <i>Neuron</i> , 2003, 38, 103-114.	3.8	57
54	Retinotopic Organization of Scene Areas in Macaque Inferior Temporal Cortex. <i>Journal of Neuroscience</i> , 2017, 37, 7373-7389.	1.7	57

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55	Substructure of Direction-Selective Receptive Fields in Macaque V1. <i>Journal of Neurophysiology</i> , 2003, 89, 2743-2759.	0.9	56
56	Cavitation-enhanced nonthermal ablation in deep brain targets: feasibility in a large animal model. <i>Journal of Neurosurgery</i> , 2016, 124, 1450-1459.	0.9	52
57	On the relationship between maps and domains in inferotemporal cortex. <i>Nature Reviews Neuroscience</i> , 2021, 22, 573-583.	4.9	50
58	Ocular dominance columns in New World monkeys. <i>Journal of Neuroscience</i> , 1996, 16, 2086-2096.	1.7	45
59	End-Stopping Predicts Curvature Tuning along the Ventral Stream. <i>Journal of Neuroscience</i> , 2017, 37, 648-659.	1.7	40
60	Receptive fields of disparity-selective neurons in macaque striate cortex. <i>Nature Neuroscience</i> , 1999, 2, 825-832.	7.1	39
61	End stopping in V1 is sensitive to contrast. <i>Nature Neuroscience</i> , 2006, 9, 697-702.	7.1	39
62	Crossing the ‘Uncanny Valley’™: Adaptation to Cartoon Faces Can Influence Perception of Human Faces. <i>Perception</i> , 2010, 39, 378-386.	0.5	39
63	Spatial relationship and extrafoveal vision. <i>Nature</i> , 1985, 315, 285-285.	13.7	36
64	Targeted, noninvasive blockade of cortical neuronal activity. <i>Scientific Reports</i> , 2015, 5, 16253.	1.6	34
65	The well-modulated lobster: The roles of serotonin, octopamine, and proctolin in the lobster nervous system. <i>Pesticide Biochemistry and Physiology</i> , 1984, 22, 133-147.	1.6	33
66	Universal Mechanisms and the Development of the Face Network: What You See Is What You Get. <i>Annual Review of Vision Science</i> , 2019, 5, 341-372.	2.3	32
67	Neurohormones and lobsters: biochemistry to behavior. <i>Trends in Neurosciences</i> , 1983, 6, 345-349.	4.2	31
68	Perspectives on science and art. <i>Current Opinion in Neurobiology</i> , 2007, 17, 476-482.	2.0	31
69	Focused ultrasound induced opening of the blood-brain barrier disrupts inter-hemispheric resting state functional connectivity in the rat brain. <i>NeuroImage</i> , 2018, 178, 414-422.	2.1	31
70	Modulation of brain function by targeted delivery of GABA through the disrupted blood-brain barrier. <i>NeuroImage</i> , 2019, 189, 267-275.	2.1	31
71	Stereopsis and positional acuity under dark adaptation. <i>Vision Research</i> , 1994, 34, 799-802.	0.7	30
72	Stereopsis and binocularity in the squirrel monkey. <i>Vision Research</i> , 1995, 35, 345-354.	0.7	30

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73	Contrast Affects Speed Tuning, Space-Time Slant, and Receptive-Field Organization of Simple Cells in Macaque V1. <i>Journal of Neurophysiology</i> , 2007, 97, 849-857.	0.9	30
74	Body map proto-organization in newborn macaques. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24861-24871.	3.3	30
75	Was Rembrandt Stereoblind?. <i>New England Journal of Medicine</i> , 2004, 351, 1264-1265.	13.9	29
76	A dual-mode hemispherical sparse array for 3D passive acoustic mapping and skull localization within a clinical MRI guided focused ultrasound device. <i>Physics in Medicine and Biology</i> , 2018, 63, 065008.	1.6	29
77	Perceptual and physiological evidence for a role for early visual areas in motion-induced blindness. <i>Journal of Vision</i> , 2009, 9, 14-14.	0.1	28
78	The benefit of symbols: monkeys show linear, human-like, accuracy when using symbols to represent scalar value. <i>Animal Cognition</i> , 2010, 13, 711-719.	0.9	26
79	Noninvasive functional MRI in alert monkeys. <i>NeuroImage</i> , 2010, 51, 267-273.	2.1	26
80	Privileged Coding of Convex Shapes in Human Object-Selective Cortex. <i>Journal of Neurophysiology</i> , 2008, 100, 753-762.	0.9	25
81	Symbol addition by monkeys provides evidence for normalized quantity coding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6822-6827.	3.3	24
82	Sulcal Depth in the Medial Ventral Temporal Cortex Predicts the Location of a Place-Selective Region in Macaques, Children, and Adults. <i>Cerebral Cortex</i> , 2021, 31, 48-61.	1.6	24
83	Differences between stereopsis, interocular correlation and binocularity. <i>Vision Research</i> , 1996, 36, 1127-1140.	0.7	21
84	Cortex Is Cortex: Ubiquitous Principles Drive Face-Domain Development. <i>Trends in Cognitive Sciences</i> , 2019, 23, 3-4.	4.0	21
85	Loss of Neurofilament Labeling in the Primary Visual Cortex of Monocularly Deprived Monkeys. <i>Cerebral Cortex</i> , 2005, 15, 1146-1154.	1.6	20
86	The neurovascular response is attenuated by focused ultrasound-mediated disruption of the blood-brain barrier. <i>NeuroImage</i> , 2019, 201, 116010.	2.1	20
87	Anatomical correlates of face patches in macaque inferotemporal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32667-32678.	3.3	18
88	Preclinical evaluation of a low-frequency transcranial MRI-guided focused ultrasound system in a primate model. <i>Physics in Medicine and Biology</i> , 2016, 61, 7664-7687.	1.6	17
89	A different point of hue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10761-10762.	3.3	16
90	Cytochrome Oxidase and Neurofilament Reactivity in Monocularly Deprived Human Primary Visual Cortex. <i>Cerebral Cortex</i> , 2007, 17, 1283-1291.	1.6	16

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91	Colored halos around faces and emotion-evoked colors: A new form of synesthesia. <i>Neurocase</i> , 2012, 18, 352-358.	0.2	15
92	Color Puzzles. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 1990, 55, 643-649.	2.0	14
93	The neurons that mistook a hat for a face. <i>ELife</i> , 2020, 9, .	2.8	14
94	Explaining the footsteps, belly dancer, Wenceslas, and kickback illusions. <i>Journal of Vision</i> , 2006, 6, 5.	0.1	12
95	Stereopsis and Artistic Talent. <i>Psychological Science</i> , 2011, 22, 336-338.	1.8	11
96	Directional Inhibition. <i>Neuron</i> , 2005, 45, 5-7.	3.8	10
97	The 11th J. A. F. Stevenson Memorial Lecture: Blobs and color vision. <i>Canadian Journal of Physiology and Pharmacology</i> , 1983, 61, 1433-1441.	0.7	7
98	Distribution of Non-phosphorylated Neurofilament in Squirrel Monkey V1 Is Complementary to the Pattern of Cytochrome-oxidase Blobs. <i>Cerebral Cortex</i> , 2003, 13, 722-727.	1.6	7
99	V1 Partially Solves the Stereo Aperture Problem. <i>Cerebral Cortex</i> , 2006, 16, 1332-1337.	1.6	7
100	Posterior Inferotemporal Cortex Cells Use Multiple Input Pathways for Shape Encoding. <i>Journal of Neuroscience</i> , 2017, 37, 5019-5034.	1.7	7
101	The double-anchoring theory of lightness perception: A comment on Bressan (2006).. <i>Psychological Review</i> , 2007, 114, 1105-1109.	2.7	5
102	The Use of the Cancellation Technique to Quantify the Hermann Grid Illusion. <i>PLoS ONE</i> , 2007, 2, e265.	1.1	4
103	End-Stopping Predicts Curvature Tuning along the Ventral Stream. <i>Journal of Neuroscience</i> , 2017, 37, 648-659.	1.7	4
104	Face neurons encode nonsemantic features. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2118705119.	3.3	4
105	Preserved cortical organization in the absence of early visual input. <i>Journal of Vision</i> , 2018, 18, 27.	0.1	3
106	A comment on "Perceptual correlates of magnocellular and parvocellular channels: Seeing form and depth in afterimages". <i>Vision Research</i> , 1991, 31, 1655-1656.	0.7	1
107	Ultrasound-mediated blood-brain barrier disruption for targeted drug delivery in the central nervous system. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
108	5th International Symposium on Focused Ultrasound. <i>Journal of Therapeutic Ultrasound</i> , 2016, 4, .	2.2	1

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109	The neurons that mistook Stuartâ€™s hat for his face. <i>Journal of Vision</i> , 2019, 19, 259c.	0.1	1
110	The retrocalcarine sulcus maps different retinotopic representations in macaques and humans. <i>Brain Structure and Function</i> , 2021, , 1.	1.2	1
111	Physiological Mechanisms Underlying Motion-Induced Blindness. <i>Nature Precedings</i> , 2008, , .	0.1	0
112	Retinotopic organization of scene area in macaque inferior temporal cortex and its implications for development. <i>Journal of Vision</i> , 2017, 17, 309.	0.1	0
113	Anatomical folding predicts the location of face-selective domains in macaque IT. <i>Journal of Vision</i> , 2020, 20, 440.	0.1	0