Michael S Landy

List of Publications by Year
in descending order

129 papers	8,306 citations	71102 41 h-index	53230 85 g-index
135 all docs	135 docs citations	135 times ranked	4165 citing authors

#	Article	IF	Citations
1	Measurement and modeling of depth cue combination: in defense of weak fusion. Vision Research, 1995, 35, 389-412.	1.4	865
2	Cardinal rules: visual orientation perception reflects knowledge of environmental statistics. Nature Neuroscience, 2011, 14, 926-932.	14.8	495
3	Combining Sensory Information: Mandatory Fusion Within, but Not Between, Senses. Science, 2002, 298, 1627-1630.	12.6	418
4	Slant from texture and disparity cues: Optimal cue combination. Journal of Vision, 2004, 4, 1.	0.3	361
5	Motor control is decision-making. Current Opinion in Neurobiology, 2012, 22, 996-1003.	4.2	333
6	Texture segregation and orientation gradient. Vision Research, 1991, 31, 679-691.	1.4	284
7	Decision making, movement planning and statistical decision theory. Trends in Cognitive Sciences, 2008, 12, 291-297.	7.8	247
8	Statistical decision theory and the selection of rapid, goal-directed movements. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 1419.	1.5	226
9	Orientation-Selective Adaptation to First- and Second-Order Patterns in Human Visual Cortex. Journal of Neurophysiology, 2006, 95, 862-881.	1.8	216
10	A perturbation analysis of depth perception from combinations of texture and motion cues. Vision Research, 1993, 33, 2685-2696.	1.4	202
11	Weighted linear cue combination with possibly correlated error. Vision Research, 2003, 43, 2451-2468.	1.4	201
12	Statistical decision theory and trade-offs in the control of motor response. Spatial Vision, 2003, 16, 255-275.	1.4	190
13	Conjoint Measurement of Gloss and Surface Texture. Psychological Science, 2008, 19, 196-204.	3.3	188
14	Combining Priors and Noisy Visual Cues in a Rapid Pointing Task. Journal of Neuroscience, 2006, 26, 10154-10163.	3.6	169
15	The effect of viewpoint on perceived visual roughness. Journal of Vision, 2007, 7, 1.	0.3	169
16	Observer biases in the 3D interpretation of line drawings. Vision Research, 1998, 38, 2817-2832.	1.4	168
17	Integration of stereopsis and motion shape cues. Vision Research, 1994, 34, 2259-2275.	1.4	161
18	Optimal Compensation for Changes in Task-Relevant Movement Variability. Journal of Neuroscience, 2005, 25, 7169-7178.	3.6	156

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19	Why Is Spatial Stereoresolution So Low?. Journal of Neuroscience, 2004, 24, 2077-2089.	3.6	147
20	Ideal cue combination for localizing texture-defined edges. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 2307.	1.5	126
21	Ideal-Observer Models of Cue Integration. , 2011, , 5-29.		90
22	Kinetic depth effect and optic flowâ€"I. 3D shape from Fourier motion. Vision Research, 1989, 29, 1789-1813.	1.4	89
23	Interaction of visual prior constraints. Vision Research, 2001, 41, 2653-2668.	1.4	89
24	Orientation-Selective Adaptation to Illusory Contours in Human Visual Cortex. Journal of Neuroscience, 2007, 27, 2186-2195.	3.6	85
25	How direction of illumination affects visually perceived surface roughness. Journal of Vision, 2006, 6, 8.	0.3	84
26	Humans Rapidly Estimate Expected Gain in Movement Planning. Psychological Science, 2006, 17, 981-988.	3.3	84
27	HIPS: A unix-based image processing system. Computer Vision, Graphics, and Image Processing, 1984, 25, 331-347.	1.0	82
28	Histogram contrast analysis and the visual segregation of IID textures. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1994, 11, 2350.	1.5	82
29	Discrimination of orientation-defined texture edges. Vision Research, 1995, 35, 2863-2877.	1.4	81
30	Movement Planning With Probabilistic Target Information. Journal of Neurophysiology, 2007, 98, 3034-3046.	1.8	80
31	Kinetic depth effect and identification of shape.. Journal of Experimental Psychology: Human Perception and Performance, 1989, 15, 826-840.	0.9	74
32	Properties of second-order spatial frequency channels. Vision Research, 2002, 42, 2311-2329.	1.4	73
33	A Statistical Framework for Robust Fusion of Depth Information. Proceedings of SPIE, 1989, 1199, 1154.	0.8	72
34	Optimal Compensation for Temporal Uncertainty in Movement Planning. PLoS Computational Biology, 2008, 4, e1000130.	3.2	71
35	A visual mechanism tuned to black. Vision Research, 2004, 44, 3223-3232.	1.4	70
36	Near-optimal integration of orientation information across saccades. Journal of Vision, 2015, 15, 8.	0.3	68

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37	Examining edge- and region-based texture analysis mechanisms. Vision Research, 1998, 38, 439-446.	1.4	67
38	Interaction between the perceived shape of two objects. Vision Research, 1999, 39, 3834-3848.	1.4	64
39	The kinetic depth effect and optic flowÈÍ. First- and second-order motion. Vision Research, 1991, 31, 859-876.	1.4	51
40	Intelligible encoding of ASL image sequences at extremely low information rates. Computer Vision, Graphics, and Image Processing, 1985, 31, 335-391.	1.0	50
41	Limits to human movement planning in tasks with asymmetric gain landscapes. Journal of Vision, 2006, 6, 5.	0.3	48
42	Modality-specific attention attenuates visual-tactile integration and recalibration effects by reducing prior expectations of a common source for vision and touch. Cognition, 2020, 197, 104170.	2.2	47
43	HIPS: Image processing under UNIX. Software and applications. Behavior Research Methods, 1984, 16, 199-216.	1.3	46
44	Hierarchical Coding of Binary Images. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1985, PAMI-7, 284-298.	13.9	46
45	Exogenous attention enhances 2nd-order contrast sensitivity. Vision Research, 2011, 51, 1086-1098.	1.4	43
46	A statistical viewpoint on the theory of evidence. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1988, 10, 235-247.	13.9	40
47	A gloss on surface properties. Nature, 2007, 447, 158-159.	27.8	40
48	Combination of texture and color cues in visual segmentation. Vision Research, 2012, 58, 59-67.	1.4	39
49	Pattern Adaptation and Normalization Reweighting. Journal of Neuroscience, 2016, 36, 9805-9816.	3.6	37
50	A Two-Stage Process Model of Sensory Discrimination: An Alternative to Drift-Diffusion. Journal of Neuroscience, 2016, 36, 11259-11274.	3.6	35
51	How to study the kinetic depth effect experimentally.. Journal of Experimental Psychology: Human Perception and Performance, 1990, 16, 445-450.	0.9	34
52	Orientation Selectivity of Motion-Boundary Responses in Human Visual Cortex. Journal of Neurophysiology, 2010, 104, 2940-2950.	1.8	34
53	Dynamic Estimation of Task-Relevant Variance in Movement under Risk. Journal of Neuroscience, 2012, 32, 12702-12711.	3.6	32
54	Human primary visual cortex (V1) is selective for second-order spatial frequency. Journal of Neurophysiology, 2011, 105, 2121-2131.	1.8	31

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55	Suboptimal Criterion Learning in Static and Dynamic Environments. PLoS Computational Biology, 2017, 13, e1005304.	3.2	30
56	Visual estimation under risk. Journal of Vision, 2007, 7, 4.	0.3	29
57	Suboptimal decision criteria are predicted by subjectively weighted probabilities and rewards. Attention, Perception, and Psychophysics, 2015, 77, 638-658.	1.3	27
58	Human online adaptation to changes in prior probability. PLoS Computational Biology, 2019, 15, e1006681.	3.2	27
59	Differential effects of exogenous and endogenous attention on second-order texture contrast sensitivity. Journal of Vision, 2012, 12, .	0.3	27
60	Long range interactions between oriented texture elements. Vision Research, 1999, 39, 933-945.	1.4	26
61	Questions without Words. , 2007, , 297-313.		26
62	The Intersection between Ocular and Manual Motor Control: Eyeâ€“Hand Coordination in Acquired Brain Injury. Frontiers in Neurology, 2017, 8, 227.	2.4	25
63	Face perception: A brief journey through recent discoveries and current directions. Vision Research, 2019, 157, 1-9.	1.4	25
64	Depth Interpolation with Sparse Disparity Cues. Perception, 1989, 18, 39-54.	1.2	24
65	Performance monitoring for sensorimotor confidence: A visuomotor tracking study. Cognition, 2020, 205, 104396.	2.2	24
66	Ratings of kinetic depth in multidot displays.. Journal of Experimental Psychology: Human Perception and Performance, 1989, 15, 816-825.	0.9	23
67	How vertical disparities assist judgements of distance. Vision Research, 2001, 41, 3455-3465.	1.4	23
68	Scale dependence and channel switching in letter identification. Journal of Vision, 2009, 9, 4-4.	0.3	23
69	Compensation for Changing Motor Uncertainty. PLoS Computational Biology, 2010, 6, e1000982.	3.2	22
70	Adaptation to sensory-motor reflex perturbations is blind to the source of errors. Journal of Vision, 2012, 12, 4-4.	0.3	22
71	Motor learning reveals the existence of multiple codes for movement planning. Journal of Neurophysiology, 2012, 108, 2708-2716.	1.8	22
72	Choice of saccade endpoint under risk. Journal of Vision, 2013, 13, 27-27.	0.3	22

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73	Vectorgraph coding: Efficient coding of line drawings. Computer Vision, Graphics, and Image Processing, 1985, 30, 331-344.	1.0	21
74	Nonadditivity of masking by narrow-band noises. Vision Research, 1991, 31, 1053-1065.	1.4	21
75	The Role of Visuohaptic Experience in Visually Perceived Depth. Journal of Neurophysiology, 2009, 101, 2789-2801.	1.8	21
76	Interpolating sampled contours in 3-D: analyses of variability and bias. Vision Research, 2002, 42, 2431-2446.	1.4	20
77	Naturally glossy: Gloss perception, illumination statistics, and tone mapping. Journal of Vision, 2018, 18, 4.	0.3	20
78	It's that time again. Nature Neuroscience, 2010, 13, 914-916.	14.8	18
79	Vision research special issue: Sight restoration: Prosthetics, optogenetics and gene therapy. Vision Research, 2015, 111, 115-123.	1.4	18
80	Temporal causal inference with stochastic audiovisual sequences. PLoS ONE, 2017, 12, e0183776.	2.5	18
81	Priors and payoffs in confidence judgments. Attention, Perception, and Psychophysics, 2020, 82, 3158-3175.	1.3	18
82	Disrupted Saccade Control in Chronic Cerebral Injury: Upper Motor Neuron-Like Disinhibition in the Ocular Motor System. Frontiers in Neurology, 2017, 8, 12.	2.4	16
83	Temporal Contingencies Determine Whether Adaptation Strengthens or Weakens Normalization. Journal of Neuroscience, 2018, 38, 10129-10142.	3.6	16
84	Parallel model of the kinetic depth effect using local computations. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1987, 4, 864.	1.5	15
85	Role of chromatic and luminance contrast in inferring structure from motion. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1993, 10, 1363.	1.5	15
86	Noise masking reveals channels for second-order letters. Vision Research, 2006, 46, 1493-1506.	1.4	14
87	Causal inference regulates audiovisual spatial recalibration via its influence on audiovisual perception. PLoS Computational Biology, 2021, 17, e1008877.	3.2	13
88	Limits to human movement planning with delayed and unpredictable onset of needed information. Experimental Brain Research, 2006, 175, 276-284.	1.5	12
89	Measuring adaptation with a sinusoidal perturbation function. Journal of Neuroscience Methods, 2012, 208, 48-58.	2.5	12
90	Responses to second-order texture modulations undergo surround suppression. Vision Research, 2012, 62, 192-200.	1.4	12

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91	Integration Trumps Selection in Object Recognition. Current Biology, 2015, 25, 920-927.	3.9	12
92	Eye Control Deficits Coupled to Hand Control Deficits: Eyeâ€“Hand Incoordination in Chronic Cerebral Injury. Frontiers in Neurology, 2017, 8, 330.	2.4	12
93	<title>Influence function for visual interpolation</title>. , 1997, , .		11
94	Interpolating sampled contours in 3D: perturbation analyses. Vision Research, 2004, 44, 815-832.	1.4	11
95	Motor planning poststroke: impairment in vector-coded reach plans. Physiological Reports, 2015, 3, e12650.	1.7	10
96	Computational models of visual attention. Vision Research, 2015, 116, 93-94.	1.4	10
97	Pooling of first-order inputs in second-order vision. Vision Research, 2013, 91, 108-117.	1.4	9
98	Statistical templates for visual search. Journal of Vision, 2014, 14, 18-18.	0.3	9
99	Sinusoidal error perturbation reveals multiple coordinate systems for sensorymotor adaptation. Vision Research, 2016, 119, 82-98.	1.4	9
100	Did I do that? Detecting a perturbation to visual feedback in a reaching task. Journal of Vision, 2019, 19, 5.	0.3	9
101	Inconsistent channel bandwidth estimates suggest winner-take-all nonlinearity in second-order vision. Vision Research, 2013, 81, 58-68.	1.4	8
102	Contingent adaptation in masking and surround suppression. Vision Research, 2020, 166, 72-80.	1.4	8
103	Motion-Disparity Interaction and the Scaling of Stereoscopic Disparity. , 2001, , 129-150.		8
104	Intelligent temporal subsampling of American Sign Language using event boundaries.. Journal of Experimental Psychology: Human Perception and Performance, 1990, 16, 282-294.	0.9	7
105	The consistency of bisection judgments in visual grasp space. Journal of Vision, 2003, 3, 13.	0.3	7
106	Applications of the eve software for visual modeling. Vision Research, 1990, 30, 329-338.	1.4	6
107	The Expected Utility of Movement. , 2009, , 95-111.		6
108	All about EVE: The Early Vision Emulation software. Behavior Research Methods, 1989, 21, 491-501.	1.3	5

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109	Causal inference and the evolution of opposite neurons. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	4
110	<title>HIPS-2 software for image processing: goals and directions</title>. , 1993, 1964, 382.		3
111	A spatial frequency spectral peakedness model predicts discrimination performance of regularity in dot patterns. Vision Research, 2018, 149, 102-114.	1.4	3
112	The gap from sensation to cognition. Behavioral and Brain Sciences, 1986, 9, 101-102.	0.7	2
113	Image-processing packages. Nature, 1988, 335, 19-19.	27.8	2
114	Audiovisual Recalibration and Stimulus Reliability. Journal of Vision, 2020, 20, 1418.	0.3	2
115	Cues and Pseudocues in Texture and Shape Perception. , 2011, , 263-278.		1
116	Intelligible Encoding of ASL Image Sequences at Extremely Low Information Rates. , 1986, , 256-312.		1
117	Estimation of gloss and shape from vision and touch. Journal of Vision, 2017, 17, 20.	0.3	1
118	Contingent adaptation in masking and surround suppression. Journal of Vision, 2018, 18, 259.	0.3	1
119	å…‰æ²¢ã®çŸ¥è¦š. Nature Digest, 2000, 4, 24-25.	0.0	0
120	Data rules; but theory understands. Vision Research, 2010, 50, 2189.	1.4	0
121	The efficiency of vision and action. Vision Research, 2015, 113, 113-115.	1.4	0
122	Introduction to the special issue on face perception: Experience, models, and neural mechanisms. Vision Research, 2019, 157, 10-11.	1.4	0
123	Exposure to congruent or incongruent audiovisual stimuli modulates observersâ€™ prior about a common cause for vision and audition. Journal of Vision, 2021, 21, 2761.	0.3	0
124	Estimation of gloss and shape from vision and touch.. Journal of Vision, 2017, 17, 359.	0.3	0
125	Assessing the role of rewards and priors on confidence judgments. Journal of Vision, 2018, 18, 1046.	0.3	0
126	Feeling a flash. Journal of Vision, 2018, 18, 96.	0.3	0

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127	Estimates of category means are biased away from the category boundary following an orientation-categorization task. Journal of Vision, 2018, 18, 751.	0.3	0
128	Sequential Effects in Confidence. Journal of Vision, 2018, 18, 658.	0.3	0
129	Optimal integration of heading specified by optic flow and target egocentric direction. Journal of Vision, 2018, 18, 1044.	0.3	0