

Jack M Loomis

List of Publications by Year in descending order

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116
papers

10,210
citations

34076

52
h-index

36008

97
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118
all docs

118
docs citations

118
times ranked

4401
citing authors

#	ARTICLE	IF	CITATIONS
1	Interpersonal Distance in Immersive Virtual Environments. <i>Personality and Social Psychology Bulletin</i> , 2003, 29, 819-833.	1.9	601
2	Nonvisual navigation by blind and sighted: Assessment of path integration ability.. <i>Journal of Experimental Psychology: General</i> , 1993, 122, 73-91.	1.5	532
3	Visual space perception and visually directed action.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1992, 18, 906-921.	0.7	508
4	Immersive virtual environment technology as a basic research tool in psychology. <i>Behavior Research Methods</i> , 1999, 31, 557-564.	1.3	483
5	Spatial Updating of Self-Position and Orientation During Real, Imagined, and Virtual Locomotion. <i>Psychological Science</i> , 1998, 9, 293-298.	1.8	402
6	Equilibrium Theory Revisited: Mutual Gaze and Personal Space in Virtual Environments. <i>Presence: Teleoperators and Virtual Environments</i> , 2001, 10, 583-598.	0.3	367
7	Locomotion Mode Affects the Updating of Objects Encountered During Travel: The Contribution of Vestibular and Proprioceptive Inputs to Path Integration. <i>Presence: Teleoperators and Virtual Environments</i> , 1998, 7, 168-178.	0.3	348
8	Does the Quality of the Computer Graphics Matter when Judging Distances in Visually Immersive Environments?. <i>Presence: Teleoperators and Virtual Environments</i> , 2004, 13, 560-571.	0.3	326
9	Navigation System for the Blind: Auditory Display Modes and Guidance. <i>Presence: Teleoperators and Virtual Environments</i> , 1998, 7, 193-203.	0.3	258
10	Distal Attribution and Presence. <i>Presence: Teleoperators and Virtual Environments</i> , 1992, 1, 113-119.	0.3	228
11	Limited Field of View of Head-Mounted Displays Is Not the Cause of Distance Underestimation in Virtual Environments. <i>Presence: Teleoperators and Virtual Environments</i> , 2004, 13, 572-577.	0.3	227
12	Visual Perception of Location and Distance. <i>Current Directions in Psychological Science</i> , 1996, 5, 72-77.	2.8	226
13	Comparison of two indicators of perceived egocentric distance under full-cue and reduced-cue conditions.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1997, 23, 72-85.	0.7	216
14	Acquisition of Route and Survey Knowledge in the Absence of Vision. <i>Journal of Motor Behavior</i> , 1990, 22, 19-43.	0.5	188
15	Similarity of Tactual and Visual Picture Recognition with Limited Field of View. <i>Perception</i> , 1991, 20, 167-177.	0.5	187
16	Haptic identification of objects and their depictions. <i>Perception & Psychophysics</i> , 1993, 54, 170-178.	2.3	183
17	Spatial updating: how the brain keeps track of changing object locations during observer motion. <i>Nature Neuroscience</i> , 2008, 11, 1223-1230.	7.1	143
18	Is the anisotropy of perceived 3-D shape invariant across scale?. <i>Perception & Psychophysics</i> , 1999, 61, 397-402.	2.3	132

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19	Visually perceived location is an invariant in the control of action. <i>Perception & Psychophysics</i> , 1997, 59, 601-612.	2.3	126
20	Modality-Independent Coding of Spatial Layout in the Human Brain. <i>Current Biology</i> , 2011, 21, 984-989.	1.8	125
21	Assessing auditory distance perception using perceptually directed action. <i>Perception & Psychophysics</i> , 1998, 60, 966-980.	2.3	117
22	Spatial updating of locations specified by 3-D sound and spatial language.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2002, 28, 335-345.	0.7	116
23	Body-based senses enhance knowledge of directions in large-scale environments. <i>Psychonomic Bulletin and Review</i> , 2004, 11, 157-163.	1.4	116
24	Navigating without Vision: Basic and Applied Research. <i>Optometry and Vision Science</i> , 2001, 78, 282-289.	0.6	111
25	A geographical information system for a GPS based personal guidance system. <i>International Journal of Geographical Information Science</i> , 1998, 12, 727-749.	2.2	110
26	Analysis of tactile and visual confusion matrices. <i>Perception & Psychophysics</i> , 1982, 31, 41-52.	2.3	104
27	Visual perception of egocentric distance as assessed by triangulation.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 1997, 23, 86-100.	0.7	104
28	The Encodingâ€”Error Model of Pathway Completion without Vision. <i>Geographical Analysis</i> , 1993, 25, 295-314.	1.9	102
29	On the tangibility of letters and braille. <i>Perception & Psychophysics</i> , 1981, 29, 37-46.	2.3	98
30	Functional Equivalence of Spatial Representations Derived From Vision and Language: Evidence From Allocentric Judgments.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2004, 30, 801-814.	0.7	97
31	Personal Guidance System for People with Visual Impairment: A Comparison of Spatial Displays for Route Guidance. <i>Journal of Visual Impairment and Blindness</i> , 2005, 99, 219-232.	0.4	97
32	Tactile Pattern Perception. <i>Perception</i> , 1981, 10, 5-27.	0.5	93
33	Active localization of virtual sounds. <i>Journal of the Acoustical Society of America</i> , 1990, 88, 1757-1764.	0.5	89
34	Use of Cognitive Versus Perceptual Heading During Imagined Locomotion Depends on the Response Mode. <i>Psychological Science</i> , 2004, 15, 403-408.	1.8	87
35	Sensorimotor alignment effects in the learning environment and in novel environments.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2007, 33, 1092-1107.	0.7	86
36	Tactile letter recognition under different modes of stimulus presentation. <i>Perception & Psychophysics</i> , 1974, 16, 401-408.	2.3	85

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37	Cognitive load of navigating without vision when guided by virtual sound versus spatial language.. Journal of Experimental Psychology: Applied, 2006, 12, 223-232.	0.9	85
38	Lateral masking in foveal and eccentric vision. Vision Research, 1978, 18, 335-338.	0.7	83
39	Designing a personal guidance system to aid navigation without sight: progress on the GIS component. International Journal of Geographical Information Science, 1991, 5, 373-395.	2.2	82
40	Stated Preferences for Components of a Personal Guidance System for Nonvisual Navigation. Journal of Visual Impairment and Blindness, 2004, 98, 135-147.	0.4	81
41	Psychophysics of Perceiving Eye-Gaze and Head Direction with Peripheral Vision: Implications for the Dynamics of Eye-Gaze Behavior. Perception, 2008, 37, 1443-1457.	0.5	81
42	Functional equivalence of spatial images from touch and vision: Evidence from spatial updating in blind and sighted individuals.. Journal of Experimental Psychology: Learning Memory and Cognition, 2011, 37, 621-634.	0.7	81
43	Judgments of Exocentric Direction in Large-Scale Space. Perception, 2004, 33, 443-454.	0.5	79
44	Representing 3D Space in Working Memory: Spatial Images from Vision, Hearing, Touch, and Language. , 2013, , 131-155.		77
45	Cognitive Mapping and Wayfinding by Adults Without Vision. , 1996, , 215-246.		74
46	Agreement between indirect measures of perceived distance. Perception & Psychophysics, 1985, 37, 17-27.	2.3	71
47	A model of character recognition and legibility.. Journal of Experimental Psychology: Human Perception and Performance, 1990, 16, 106-120.	0.7	71
48	Encoding, learning, and spatial updating of multiple object locations specified by 3-D sound, spatial language, and vision. Experimental Brain Research, 2003, 149, 48-61.	0.7	65
49	Dissociation between location and shape in visual space.. Journal of Experimental Psychology: Human Perception and Performance, 2002, 28, 1202-1212.	0.7	63
50	Active control of locomotion facilitates nonvisual navigation.. Journal of Experimental Psychology: Human Perception and Performance, 2001, 27, 141-153.	0.7	62
51	Touch-Screen Technology for the Dynamic Display of 2D Spatial Information Without Vision: Promise and Progress. Multisensory Research, 2014, 27, 359-378.	0.6	61
52	Visual Control of Steering without Course Information. Perception, 1996, 25, 481-494.	0.5	59
53	Sensitivity to shifts of a point stimulus: An instance of tactile hyperacuity. Perception & Psychophysics, 1978, 24, 487-492.	2.3	57
54	Evaluation of spatial displays for navigation without sight. ACM Transactions on Applied Perception, 2006, 3, 110-124.	1.2	57

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55	Nonvisual Route following with Guidance from a Simple Haptic or Auditory Display. <i>Journal of Visual Impairment and Blindness</i> , 2007, 101, 203-211.	0.4	56
56	Does Energy Expenditure Affect the Perception of Egocentric Distance? A Failure to Replicate Experiment 1 of Proffitt, Stefanucci, Banton, and Epstein (2003). <i>Spanish Journal of Psychology</i> , 2006, 9, 332-339.	1.1	54
57	Visually Controlled Locomotion: Its Dependence on Optic Flow, Three-Dimensional Space Perception, and Cognition. <i>Ecological Psychology</i> , 1998, 10, 271-285.	0.7	51
58	Perception of 3-D location based on vision, touch, and extended touch. <i>Experimental Brain Research</i> , 2013, 224, 141-153.	0.7	51
59	Human navigation ability: Tests of the encoding-error model of path integration. <i>Spatial Cognition and Computation</i> , 1999, 1, 31-65.	0.6	50
60	Spatial updating of locations specified by 3-D sound and spatial language.. <i>Journal of Experimental Psychology: Learning Memory and Cognition</i> , 2002, 28, 335-345.	0.7	50
61	Effects of chromatic adaptation on color discrimination and color appearance. <i>Vision Research</i> , 1979, 19, 891-901.	0.7	45
62	Using virtual environments to assess directional knowledge. <i>Journal of Environmental Psychology</i> , 2004, 24, 105-116.	2.3	45
63	A comparison of tactile and blurred visual form perception. <i>Perception & Psychophysics</i> , 1975, 18, 362-368.	2.3	43
64	Inertial cues do not enhance knowledge of environmental layout. <i>Psychonomic Bulletin and Review</i> , 2003, 10, 987-993.	1.4	43
65	The photopigment bleaching hypothesis of complementary after-images: A psychophysical test. <i>Vision Research</i> , 1972, 12, 1587-1594.	0.7	40
66	Imagined Self-Motion Differs from Perceived Self-Motion: Evidence from a Novel Continuous Pointing Method. <i>PLoS ONE</i> , 2009, 4, e7793.	1.1	38
67	Dissociation between location and shape in visual space. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2002, 28, 1202-12.	0.7	38
68	Measurement of instantaneous perceived self-motion using continuous pointing. <i>Experimental Brain Research</i> , 2009, 195, 429-444.	0.7	37
69	Visual control of posture in real and virtual environments. <i>Perception & Psychophysics</i> , 2008, 70, 158-165.	2.3	36
70	Functional Equivalence of Spatial Images Produced by Perception and Spatial Language. , 2007, , 29-48.		36
71	Presence in Virtual Reality and Everyday Life: Immersion within a World of Representation. <i>Presence: Teleoperators and Virtual Environments</i> , 2016, 25, 169-174.	0.3	35
72	Tactile recognition of raised characters: A parametric study. <i>Bulletin of the Psychonomic Society</i> , 1985, 23, 18-20.	0.2	33

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73	Perceptual Linkage of Multiple Objects Rotating in Depth. Perception, 1989, 18, 427-444.	0.5	33
74	<title>Absolute motion parallax weakly determines visual scale in real and virtual environments</title>. , 1995, , .		32
75	Evidence for Amodal Representations after Bimodal Learning: Integration of Haptic-Visual Layouts into a Common Spatial Image. Spatial Cognition and Computation, 2009, 9, 287-304.	0.6	32
76	Learning Directions of Objects Specified by Vision, Spatial Audition, or Auditory Spatial Language. Learning and Memory, 2002, 9, 364-367.	0.5	31
77	Perspectives on human spatial cognition: memory, navigation, and environmental learning. Psychological Research, 2007, 71, 235-239.	1.0	28
78	A lateral masking effect in tactile and blurred visual letter recognition. Perception & Psychophysics, 1976, 20, 221-226.	2.3	26
79	A study of visually directed throwing in the presence of multiple distance cues. Perception & Psychophysics, 1987, 41, 308-312.	2.3	26
80	Optic Flow and Visual Analysis of the Base-to-Final Turn. The International Journal of Aviation Psychology, 1997, 7, 201-223.	0.7	26
81	Interaction of display mode and character size in vibrotactile letter recognition. Bulletin of the Psychonomic Society, 1980, 16, 385-387.	0.2	25
82	Looking down is looking up. Nature, 2001, 414, 155-156.	13.7	25
83	Changing lanes: inertial cues and explicit path information facilitate steering performance when visual feedback is removed. Experimental Brain Research, 2007, 178, 141-150.	0.7	25
84	Spatial working memory for locations specified by vision and audition: Testing the amodality hypothesis. Attention, Perception, and Psychophysics, 2012, 74, 1260-1267.	0.7	24
85	Complementary afterimages and the unequal adapting effects of steady and flickering light*. Journal of the Optical Society of America, 1978, 68, 411.	1.2	23
86	Presence and distal attribution: phenomenology, determinants, and assessment. , 1992, , .		23
87	The importance of perceived relative motion in the control of posture. Experimental Brain Research, 2005, 161, 285-292.	0.7	23
88	Updating of locations during whole-body rotations in patients with hemispatial neglect. Cognitive, Affective and Behavioral Neuroscience, 2001, 1, 330-343.	1.0	22
89	Model-Based Control of Perception/Action. , 2004, , 421-441.		22
90	Reproduction of Object Shape is More Accurate without the Continued Availability of Visual Information. Perception, 1998, 27, 69-86.	0.5	21

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91	A Minimal Representation for Deadâ€Reckoning Navigation: Updating the Homing Vector. Geographical Analysis, 1990, 22, 324-335.	1.9	20
92	Keeping track of the distance from home by leaky integration along veering paths. Experimental Brain Research, 2011, 212, 81-89.	0.7	20
93	Perception of Shared Visual Space: Establishing Common Ground in Real and Virtual Environments. Presence: Teleoperators and Virtual Environments, 2004, 13, 442-450.	0.3	19
94	Perception of heading without retinal optic flow. Perception & Psychophysics, 2006, 68, 872-878.	2.3	18
95	Visual Control of Action Without Retinal Optic Flow. Psychological Science, 2006, 17, 214-221.	1.8	17
96	Transient tritanopia: Failure of time-intensity reciprocity in adaptation to longwave light. Vision Research, 1980, 20, 837-846.	0.7	16
97	Encoding Spatial Representations Through Nonvisually Guided Locomotion: Tests of Human Path Integration. Psychology of Learning and Motivation - Advances in Research and Theory, 1997, , 41-84.	0.5	16
98	Auditory Distance Perception in Real, Virtual, and Mixed Environments. , 1999, , 201-214.		16
99	Personal Guidance System for People with Visual Impairment: A Comparison of Spatial Displays for Route Guidance. Journal of Visual Impairment and Blindness, 2005, 99, 219-232.	0.4	15
100	Counterexample to the hypothesis of functional similarity between tactile and visual pattern perception. Perception & Psychophysics, 1993, 54, 179-184.	2.3	13
101	The Influence of Facing Direction on the Haptic Identification of Two-Dimensional Raised Pictures. Perception, 2009, 38, 606-612.	0.5	12
102	Combining Locations from Working Memory and Long-Term Memory into a Common Spatial Image. Spatial Cognition and Computation, 2013, 13, 103-128.	0.6	10
103	Proposed applications of research on action-specific effects are premature.. Journal of Applied Research in Memory and Cognition, 2016, 5, 77-79.	0.7	9
104	Length distortion of temporally extended visual displays: Similarity to haptic spatial perception. Perception & Psychophysics, 1989, 46, 387-394.	2.3	8
105	An n-back task using vibrotactile stimulation with comparison to an auditory analogue. Behavior Research Methods, 2008, 40, 367-372.	2.3	7
106	SPATIAL UPDATING OF HAPTIC ARRAYS ACROSS THE LIFE SPAN. Experimental Aging Research, 2017, 43, 274-290.	0.6	7
107	Visual space perception: phenomenology and function. Arquivos Brasileiros De Oftalmologia, 2003, 66, 26-29.	0.2	6
108	High-speed 2-D and 3-D animation on the IBM PC/XT/AT. Behavior Research Methods, 1987, 19, 10-18.	1.3	5

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109	Simultaneous measurement of steering performance and perceived heading on a curving path. ACM Transactions on Applied Perception, 2006, 3, 83-94.	1.2	5
110	Reply to Proffitt, Stefanucci, Banton, and Epstein. Spanish Journal of Psychology, 2006, 9, 343-345.	1.1	5
111	Spatial updating of multiple targets: Comparison of younger and older adults. Memory and Cognition, 2017, 45, 1240-1251.	0.9	4
112	Visual control of steering in curve driving. Journal of Vision, 2019, 19, 1.	0.1	3
113	Scan-display of high-resolution images using the Apple II. Behavior Research Methods, 1986, 18, 36-40.	1.3	1
114	Importance of perceptual representation in the visual control of action. , 2005, , .		0
115	Improving Human Health and Physical Capabilities. , 2003, , 179-273.		0
116	A new direction for applied geography. Applied Geographic Studies, 1997, 1, 151-168.	0.2	0