

Philip J Kellman

List of Publications by Year in descending order

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75
papers

4,431
citations

147801

31
h-index

110387

64
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79
all docs

79
docs citations

79
times ranked

1617
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Education Modules Addressing the Underrepresentation of Skin of Color in Dermatology Training. <i>Journal of Cutaneous Medicine and Surgery</i> , 2022, 26, 17-24.	1.2	11
2	Perceptual Learning, Adaptive Learning, and Gamification: Educational Technologies for Pattern Recognition, Problem Solving, and Knowledge Retention in Medical Learning. , 2022, , 135-166.		2
3	Mastering Electrocardiogram Interpretation Skills Through a Perceptual and Adaptive Learning Module. <i>AEM Education and Training</i> , 2021, 5, e10454.	1.2	9
4	Constant curvature modeling of abstract shape representation. <i>PLoS ONE</i> , 2021, 16, e0254719.	2.5	1
5	Constant curvature segments as building blocks of 2D shape representation.. <i>Journal of Experimental Psychology: General</i> , 2021, 150, 1556-1580.	2.1	6
6	Local features and global shape information in object classification by deep convolutional neural networks. <i>Vision Research</i> , 2020, 172, 46-61.	1.4	54
7	Adaptive vs. Fixed Spacing of Learning Items: Evidence from Studies of Learning and Transfer in Chemistry Education. , 2020, 2020, 1598-1604.		0
8	Comparing Adaptive and Random Spacing Schedules during Learning to Mastery Criteria. , 2020, 2020, 773-779.		1
9	Recursive Networks Reveal Illusory Contour Classification Images. <i>Journal of Vision</i> , 2019, 19, 241a.	0.3	0
10	Deep convolutional networks do not classify based on global object shape. <i>PLoS Computational Biology</i> , 2018, 14, e1006613.	3.2	206
11	Accelerating expertise: Perceptual and adaptive learning technology in medical learning. <i>Medical Teacher</i> , 2018, 40, 797-802.	1.8	28
12	Abstract shape representation in human visual perception.. <i>Journal of Experimental Psychology: General</i> , 2018, 147, 1295-1308.	2.1	17
13	From Flashes to Edges to Objects: Recovery of Local Edge Fragments Initiates Spatiotemporal Boundary Formation. <i>Frontiers in Psychology</i> , 2016, 7, 910.	2.1	5
14	Modeling spatiotemporal boundary formation. <i>Vision Research</i> , 2016, 126, 131-142.	1.4	8
15	A comparison of adaptive and fixed schedules of practice.. <i>Journal of Experimental Psychology: General</i> , 2016, 145, 897-917.	2.1	36
16	Differentiating global and local contour completion using a dot localization paradigm.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2016, 42, 1928-1946.	0.9	8
17	Training pattern recognition of skin lesion morphology, configuration, and distribution. <i>Journal of the American Academy of Dermatology</i> , 2015, 72, 489-495.	1.2	33
18	Forensic Comparison and Matching of Fingerprints: Using Quantitative Image Measures for Estimating Error Rates through Understanding and Predicting Difficulty. <i>PLoS ONE</i> , 2014, 9, e94617.	2.5	32

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19	Non-rigid illusory contours and global shape transformations defined by spatiotemporal boundary formation. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 978.	2.0	4
20	The aperture capture illusion: Misperceived forms in dynamic occlusion displays.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2014, 40, 502-524.	0.9	5
21	Adaptive response-time-based category sequencing in perceptual learning. <i>Vision Research</i> , 2014, 99, 111-123.	1.4	32
22	Recovering metric properties of objects through spatiotemporal interpolation. <i>Vision Research</i> , 2014, 102, 80-88.	1.4	3
23	The Psychophysics of Algebra Expertise: Mathematics Perceptual Learning Interventions Produce Durable Encoding Changes. , 2014, 36, 272-277.		0
24	Automatic feature-based grouping during multiple object tracking.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2013, 39, 1625-1637.	0.9	29
25	Adaptive and Perceptual Learning Technologies in Medical Education and Training. <i>Military Medicine</i> , 2013, 178, 98-106.	0.8	42
26	Perceptual Learning, Cognition, and Expertise. <i>Psychology of Learning and Motivation - Advances in Research and Theory</i> , 2013, 58, 117-165.	1.1	56
27	Applying perceptual and adaptive learning techniques for teaching introductory histopathology. <i>Journal of Pathology Informatics</i> , 2013, 4, 34.	1.7	47
28	Reinterpreting Behavioral Receptive Fields: Lightness Induction Alters Visually Completed Shape. <i>PLoS ONE</i> , 2013, 8, e62505.	2.5	7
29	Challenges in Understanding Visual Shape Perception and Representation: Bridging Subsymbolic and Symbolic Coding. <i>Advances in Computer Vision and Pattern Recognition</i> , 2013, , 249-274.	1.3	5
30	Is interpolation cognitively encapsulated? Measuring the effects of belief on Kanizsa shape discrimination and illusory contour formation. <i>Cognition</i> , 2012, 123, 404-418.	2.2	17
31	The Role of Constant Curvature in 2-D Contour Shape Representations. <i>Perception</i> , 2011, 40, 1290-1308.	1.2	4
32	Attentional signatures of perception: Multiple object tracking reveals the automaticity of contour interpolation.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2011, 37, 685-698.	0.9	23
33	A unified model of illusory and occluded contour interpolation. <i>Vision Research</i> , 2010, 50, 284-299.	1.4	31
34	Spatiotemporal integration and contour interpolation revealed by a dot localization task with serial presentation paradigm. <i>Japanese Psychological Research</i> , 2010, 52, 268-280.	1.1	2
35	Perceptual Learning Modules in Mathematics: Enhancing Studentsâ€™ Pattern Recognition, Structure Extraction, and Fluency. <i>Topics in Cognitive Science</i> , 2010, 2, 285-305.	1.9	107
36	Perceptual Cues and Imagined Viewpoints Modulate Visual Search in Air Traffic Control Displays. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2009, 53, 1111-1115.	0.3	2

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37	Perceptual learning and human expertise. <i>Physics of Life Reviews</i> , 2009, 6, 53-84.	2.8	122
38	Perceptual learning depends on perceptual constancy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 2248-2253.	7.1	41
39	Surface interpolation and 3D relatability. <i>Journal of Vision</i> , 2008, 8, 29.	0.3	18
40	Perceptual learning and the technology of expertise
 Studies in fraction learning and algebra. <i>Pragmatics and Cognition</i> , 2008, 16, 356-405.	0.4	32
41	Postscript: Identity and constraints in models of object formation.. <i>Psychological Review</i> , 2007, 114, 502-508.	3.8	4
42	Interpolation processes in object perception: Reply to Anderson (2007).. <i>Psychological Review</i> , 2007, 114, 488-502.	3.8	33
43	Classification images reveal spatiotemporal contour interpolation. <i>Vision Research</i> , 2007, 47, 3460-3475.	1.4	22
44	A theory of dynamic occluded and illusory object perception.. <i>Journal of Experimental Psychology: General</i> , 2006, 135, 513-541.	2.1	52
45	Object Interpolation in Three Dimensions.. <i>Psychological Review</i> , 2005, 112, 586-609.	3.8	64
46	3-D Interpolation in Object Perception: Evidence From an Objective Performance Paradigm.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2005, 31, 558-583.	0.9	20
47	Contour interpolation revealed by a dot localization paradigm. <i>Vision Research</i> , 2004, 44, 1799-1815.	1.4	54
48	Boundary Completion in Illusory Contours: Interpolation or Extrapolation?. <i>Perception</i> , 2003, 32, 985-999.	1.2	25
49	Temporal Variations in Visual Completion: A Reflection of Spatial Limits?. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2003, 29, 1211-1227.	0.9	37
50	Separating Processes in Object Perception. <i>Journal of Experimental Child Psychology</i> , 2001, 78, 84-97.	1.4	19
51	Geometric and Neural Models of Object Perception. <i>Advances in Psychology</i> , 2001, 130, 183-245.	0.1	33
52	Surface integration influences depth discrimination. <i>Vision Research</i> , 2000, 40, 1969-1978.	1.4	65
53	Interactions between spatial and spatiotemporal information in spatiotemporal boundary formation. <i>Perception & Psychophysics</i> , 1998, 60, 839-851.	2.3	16
54	The Dynamic Specification of Surfaces and Boundaries. <i>Perception</i> , 1998, 27, 403-415.	1.2	59

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55	A common mechanism for illusory and occluded object completion.. Journal of Experimental Psychology: Human Perception and Performance, 1998, 24, 859-869.	0.9	109
56	Finding the Pope in the pizza: Abstract invariants and cognitive constraints on perceptual learning. Behavioral and Brain Sciences, 1998, 21, 30-30.	0.7	0
57	Surface Completion Complements Boundary Interpolation in the Visual Integration of Partly Occluded Objects. Perception, 1997, 26, 1459-1479.	1.2	118
58	Spatio-temporal boundary formation: the role of local motion signals in boundary perception. Vision Research, 1997, 37, 1281-1293.	1.4	34
59	The Origins of Object Perception. , 1996, , 3-48.		28
60	Ontogenesis of Space and Motion Perception. , 1995, , 327-364.		16
61	Perceptual Learning Modules in Flight Training. Proceedings of the Human Factors and Ergonomics Society, 1994, 38, 1183-1187.	0.3	17
62	The role of three-dimensional depth cues in infants' perception of partly occluded objects. Infant and Child Development, 1994, 3, 187-191.	0.4	33
63	Spatiotemporal boundary formation: Boundary, form, and motion perception from transformations of surface elements.. Journal of Experimental Psychology: General, 1994, 123, 3-20.	2.1	59
64	Optical tearing in spatiotemporal boundary formation: When do local element motions produce boundaries, form, and global motion?. Spatial Vision, 1993, 7, 323-339.	1.4	36
65	Perceiving Objects Across Gaps in Space and Time. Current Directions in Psychological Science, 1992, 1, 193-199.	5.3	39
66	Perception of partly occluded objects and illusory figures: Evidence for an identity hypothesis.. Journal of Experimental Psychology: Human Perception and Performance, 1992, 18, 106-120.	0.9	96
67	Strength of visual interpolation depends on the ratio of physically specified to total edge length. Perception & Psychophysics, 1992, 52, 97-106.	2.3	237
68	A theory of visual interpolation in object perception. Cognitive Psychology, 1991, 23, 141-221.	2.2	770
69	The role of discontinuities in the perception of subjective figures. Perception & Psychophysics, 1990, 48, 259-270.	2.3	62
70	Development of three-dimensional form perception.. Journal of Experimental Psychology: Human Perception and Performance, 1987, 13, 545-557.	0.9	90
71	Object and observer motion in the perception of objects by infants.. Journal of Experimental Psychology: Human Perception and Performance, 1987, 13, 586-593.	0.9	63
72	Infant Perception of Object Unity from Translatory Motion in Depth and Vertical Translation. Child Development, 1986, 57, 72.	3.0	92

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73	Perception of three-dimensional form by human infants. <i>Perception & Psychophysics</i> , 1984, 36, 353-358.	2.3	93
74	Kinetic subjective contours. <i>Perception & Psychophysics</i> , 1984, 35, 237-244.	2.3	55
75	Perception of partly occluded objects in infancy. <i>Cognitive Psychology</i> , 1983, 15, 483-524.	2.2	725