Irving Biederman

List of Publications by Citations

76 papers	9,393 citations	32 h-index	82 g-index
82 ext. papers	10,310 ext. citations	2.7 avg, IF	6.34 L-index

#	Paper	IF	Citations
76	Recognition-by-components: a theory of human image understanding. *Psychological Review*, **1987**, 94, 115-147	6.3	3835
75	Dynamic binding in a neural network for shape recognition. *Psychological Review*, **1992**, 99, 480-517	6.3	827
74	Scene perception: detecting and judging objects undergoing relational violations. *Cognitive Psychology*, **1982**, 14, 143-77	3.1	804
73	Surface versus edge-based determinants of visual recognition. *Cognitive Psychology*, **1988**, 20, 38-64	3.1	463
72	Recognizing depth-rotated objects: Evidence and conditions for three-dimensional viewpoint invariance.. *Journal of Experimental Psychology: Human Perception and Performance*, **1993**, 19, 1162-1182	2.6	461
71	Priming contour-deleted images: evidence for intermediate representations in visual object recognition. *Cognitive Psychology*, **1991**, 23, 393-419	3.1	322
70	Evidence for complete translational and reflectional invariance in visual object priming. *Perception*, **1991**, 20, 585-93	1.2	301
69	Size invariance in visual object priming.. *Journal of Experimental Psychology: Human Perception and Performance*, **1992**, 18, 121-133	2.6	264
68	Neurocomputational bases of object and face recognition. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **1997**, 352, 1203-19	5.8	174
67	Viewpoint-dependent mechanisms in visual object recognition: Reply to Tarr and B[illegible]thoff (1995).. *Journal of Experimental Psychology: Human Perception and Performance*, **1995**, 21, 1506-1514	2.6	164
66	One-shot viewpoint invariance in matching novel objects. *Vision Research*, **1999**, 39, 2885-99	2.1	140
65	Shape tuning in macaque inferior temporal cortex. *Journal of Neuroscience*, **2003**, 23, 3016-27	6.6	96
64	Making the ineffable explicit: estimating the information employed for face classifications. *Cognitive Science*, **2004**, 28, 209-226	2.2	94
63	Metric invariance in object recognition: a review and further evidence. *Canadian Journal of Psychology*, **1992**, 46, 191-214		81
62	Inferior temporal neurons show greater sensitivity to nonaccidental than to metric shape differences. *Journal of Cognitive Neuroscience*, **2001**, 13, 444-53	3.1	78
61	Neural evidence for intermediate representations in object recognition. *Vision Research*, **2006**, 46, 4024-31	2.1	76
60	What makes faces special?. *Vision Research*, **2006**, 46, 3802-11	2.1	70

59	Representation of regular and irregular shapes in macaque inferotemporal cortex. *Cerebral Cortex*, **2005**, 15, 1308-21	5.1	64
58	Recognizing depth-rotated objects: a review of recent research and theory. *Spatial Vision*, **2000**, 13, 241-53		58
57	Subordinate-level object classification reexamined. *Psychological Research*, **1999**, 62, 131-53	2.5	53
56	Adaptation to objects in the lateral occipital complex (LOC): shape or semantics?. *Vision Research*, **2009**, 49, 2297-305	2.1	49
55	Ha ha! versus aha! a direct comparison of humor to nonhumorous insight for determining the neural correlates of mirth. *Cerebral Cortex*, **2015**, 25, 1405-13	5.1	46
54	Adaptation in the fusiform face area (FFA): image or person?. *Vision Research*, **2009**, 49, 2800-7	2.1	44
53	Invariance of long-term visual priming to scale, reflection, translation, and hemisphere. *Vision Research*, **2001**, 41, 221-34	2.1	44
52	Cortical representation of medial axis structure. *Cerebral Cortex*, **2013**, 23, 629-37	5.1	43
51	Loci of the release from fMRI adaptation for changes in facial expression, identity, and viewpoint. *Journal of Vision*, **2010**, 10,	0.4	43
50	The deleterious effect of contrast reversal on recognition is unique to faces, not objects. *Vision Research*, **2007**, 47, 2134-42	2.1	43
49	To what extent can matching algorithms based on direct outputs of spatial filters account for human object recognition?. *Spatial Vision*, **1996**, 10, 237-71		42
48	Accurate identification but no priming and chance recognition memory for pictures in RSVP sequences. *Visual Cognition*, **2000**, 7, 511-535	1.8	38
47	Size invariance in visual object priming of gray-scale images. *Perception*, **1995**, 24, 741-8	1.2	38
46	Predicting the psychophysical similarity of faces and non-face complex shapes by image-based measures. *Vision Research*, **2012**, 55, 41-6	2.1	36
45	Effects of illumination intensity and direction on object coding in macaque inferior temporal cortex. *Cerebral Cortex*, **2002**, 12, 756-66	5.1	36
44	Do humans and baboons use the same information when categorizing human and baboon faces?. *Psychological Science*, **2006**, 17, 599-607	7.9	30
43	The neural basis for shape preferences. *Vision Research*, **2011**, 51, 2198-206	2.1	27
42	The pigeonß recognition of drawings of depth-rotated stimuli.. *Journal of Experimental Psychology*, **1996**, 22, 205-221		26

41	Sensitivity to nonaccidental properties across various shape dimensions. *Vision Research*, **2012**, 62, 35-43	2.1	24
40	Less impairment in face imagery than face perception in early prosopagnosia. *Neuropsychologia*, **2003**, 41, 421-41	3.2	24
39	Pigeons and humans are more sensitive to nonaccidental than to metric changes in visual objects. *Behavioural Processes*, **2008**, 77, 199-209	1.6	21
38	Learning an object from multiple views enhances its recognition in an orthogonal rotational axis in pigeons. *Vision Research*, **2002**, 42, 2051-62	2.1	21
37	The Neural Correlates of Humor Creativity. *Frontiers in Human Neuroscience*, **2016**, 10, 597	3.3	21
36	Greater sensitivity to nonaccidental than metric changes in the relations between simple shapes in the lateral occipital cortex. *NeuroImage*, **2012**, 63, 1818-26	7.9	19
35	Representation of shape in individuals from a culture with minimal exposure to regular, simple artifacts: sensitivity to nonaccidental versus metric properties. *Psychological Science*, **2009**, 20, 1437-42	7.9	18
34	Effects of varying stimulus size on object recognition in pigeons. *Journal of Experimental Psychology* , **2006**, 32, 419-30		18
33	Seeing things from a different angle: The pigeon's recognition of single geons rotated in depth.. *Journal of Experimental Psychology*, **2000**, 26, 115-132		18
32	Size tuning in the absence of spatial frequency tuning in object recognition. *Vision Research*, **2001**, 41, 1931-50	2.1	17
31	Translational and reflectional priming invariance: a retrospective. *Perception*, **2009**, 38, 809-17	1.2	16
30	Discrimination of geons by pigeons: The effects of variations in surface depiction. *Learning and Behavior*, **2001**, 29, 97-106		16
29	Differing views on views: response to Hayward and Tarr (2000). *Vision Research*, **2000**, 40, 3901-5	2.1	16
28	17,000 years of depicting the junction of two smooth shapes. *Perception*, **2008**, 37, 161-4	1.2	15
27	Greater sensitivity to nonaccidental than metric shape properties in preschool children. *Vision Research*, **2014**, 97, 83-8	2.1	14
26	Developmental phonagnosia: Neural correlates and a behavioral marker. *Brain and Language*, **2015**, 149, 106-17	2.9	12
25	An applet for the Gabor similarity scaling of the differences between complex stimuli. *Attention, Perception, and Psychophysics*, **2016**, 78, 2298-2306	2	11
24	An estimate of the prevalence of developmental phonagnosia. *Brain and Language*, **2016**, 159, 84-91	2.9	11

23	Neural correlates of face detection. *Cerebral Cortex*, **2014**, 24, 1555-64	5.1	9
22	What Is Actually Affected by the Scrambling of Objects When Localizing the Lateral Occipital Complex?. *Journal of Cognitive Neuroscience*, **2017**, 29, 1595-1604	3.1	7
21	The Lateral Occipital Complex shows no net response to object familiarity. *Journal of Vision*, **2016**, 16, 3	0.4	7
20	A neurocomputational account of the face configural effect. *Journal of Vision*, **2014**, 14, 9	0.4	6
19	Making the ineffable explicit: estimating the information employed for face classifications **2004**, 28, 209		6
18	A face in a (temporal) crowd. *Vision Research*, **2019**, 157, 55-60	2.1	6
17	The cognitive neuroscience of person identification. *Neuropsychologia*, **2018**, 116, 205-214	3.2	5
16	Recent Psychophysical and Neural Research in Shape Recognition **2007**, 71-88		5
15	Pattern goodness and pattern recognition.73-95		5
14	A cross-cultural study of the representation of shape: Sensitivity to generalized cone dimensions. *Visual Cognition*, **2010**, 18, 50-66	1.8	4
13	What is the Perceptual Deficit in Developmental Prosopagnosia?. *Journal of Vision*, **2017**, 17, 619	0.4	3
12	Pigeons spontaneously form three-dimensional shape categories. *Behavioural Processes*, **2019**, 158, 70-76	1.6	3
11	Human Object Recognition: Appearance vs. Shape **2013**, 387-397		2
10	Can Familiar Faces be Negatively Detected at RSVP Rates?. *Journal of Vision*, **2017**, 17, 1027	0.4	1
9	Effective signaling of surface boundaries by L-vertices reflect the consistency of their contrast in natural images. *Journal of Vision*, **2016**, 16, 15	0.4	1
8	Psychophysical and Neural Correlates of the Phenomenology of Shape415-436		1
7	Using the reassignment procedure to test object representation in pigeons and people. *Learning and Behavior*, **2015**, 43, 188-207	1.3	
6	On the Relation between Kanizsa's Bias Towards Convexity and the Gestaltists Prägnanz from the Perspective of Current in Shape Recognition. *Axiomathes*, **2002**, 13, 329-346	0.2	

5	The Capacity for Face Perception is Independent of the Capacity for Face Memory. *Journal of Vision*, **2019**, 19, 139a	0.4
4	Congenital Prosopagnosics Show Reduced Configural Effects in an Odd-Man-Out Detection Task. *Journal of Vision*, **2019**, 19, 22c	0.4
3	Visual noise consisting of X-junctions has only a minimal adverse effect on object recognition. *Attention, Perception, and Psychophysics*, **2020**, 82, 995-1002	2
2	Vision: A Product of a Society of Independent Experts. *Current Biology*, **2020**, 30, R1043-R1045	6.3
1	The sizable difficulty in matching unfamiliar faces differing only moderately in orientation in depth is a function of image dissimilarity.. *Vision Research*, **2022**, 194, 107959	2.1