Diane M Beck

List of Publications by Year
in descending order

74 papers	5,702 citations	136950 32 h-index	118850 62 g-index
83 all docs	83 docs citations	83 times ranked	4967 citing authors

#	Article	IF	Citations
1	To See or Not to See: Prestimulus Î± Phase Predicts Visual Awareness. Journal of Neuroscience, 2009, 29, 2725-2732.	3.6	886
2	Neural correlates of change detection and change blindness. Nature Neuroscience, 2001, 4, 645-650.	14.8	425
3	Top-down and bottom-up mechanisms in biasing competition in the human brain. Vision Research, 2009, 49, 1154-1165.	1.4	398
4	Pulsed Out of Awareness: EEG Alpha Oscillations Represent a Pulsed-Inhibition of Ongoing Cortical Processing. Frontiers in Psychology, 2011, 2, 99.	2.1	376
5	Natural Scene Categories Revealed in Distributed Patterns of Activity in the Human Brain. Journal of Neuroscience, 2009, 29, 10573-10581.	3.6	314
6	Spatial attention deficits in humans: A comparison of superior parietal and temporal-parietal junction lesions.. Neuropsychology, 1998, 12, 193-207.	1.3	299
7	Making Waves in the Stream of Consciousness: Entraining Oscillations in EEG Alpha and Fluctuations in Visual Awareness with Rhythmic Visual Stimulation. Journal of Cognitive Neuroscience, 2012, 24, 2321-2333.	2.3	203
8	Blinded by the load: attention, awareness and the role of perceptual load. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130205.	4.0	201
9	Simple line drawings suffice for functional MRI decoding of natural scene categories. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9661-9666.	7.1	189
10	Stimulus context modulates competition in human extrastriate cortex. Nature Neuroscience, 2005, 8, 1110-1116.	14.8	173
11	Rescuing stimuli from invisibility: Inducing a momentary release from visual masking with pre-target entrainment. Cognition, 2010, 115, 186-191.	2.2	150
12	Differential connectivity within the Parahippocampal Place Area. NeuroImage, 2013, 75, 228-237.	4.2	137
13	Distinct contributions of functional and deep neural network features to representational similarity of scenes in human brain and behavior. ELife, 2018, 7, .	6.0	132
14	Look Here but Ignore What You See: Effects of Distractors at Fixation.. Journal of Experimental Psychology: Human Perception and Performance, 2005, 31, 592-607.	0.9	125
15	Right Parietal Cortex Plays a Critical Role in Change Blindness. Cerebral Cortex, 2006, 16, 712-717.	2.9	122
16	Two Distinct Scene-Processing Networks Connecting Vision and Memory. ENeuro, 2016, 3, ENEURO.0178-16.2016.	1.9	111
17	The Appeal of the Brain in the Popular Press. Perspectives on Psychological Science, 2010, 5, 762-766.	9.0	96
18	Perceptual-Load-Induced Selection as a Result of Local Competitive Interactions in Visual Cortex. Psychological Science, 2008, 19, 1045-1050.	3.3	73

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19	Parcellating connectivity in spatial maps. PeerJ, 2015, 3, e784.	2.0	66
20	Top-down influences on perceptual grouping.. Journal of Experimental Psychology: Human Perception and Performance, 2002, 28, 1071-1084.	0.9	65
21	Dynamics of Alpha Control: Preparatory Suppression of Posterior Alpha Oscillations by Frontal Modulators Revealed with Combined EEG and Event-related Optical Signal. Journal of Cognitive Neuroscience, 2014, 26, 2400-2415.	2.3	65
22	Competition explains limited attention and perceptual resources: implications for perceptual load and dilution theories. Frontiers in Psychology, 2013, 4, 243.	2.1	61
23	Visual scenes are categorized by function.. Journal of Experimental Psychology: General, 2016, 145, 82-94.	2.1	60
24	Opportunities and challenges for a maturing science of consciousness. Nature Human Behaviour, 2019, 3, 104-107.	12.0	58
25	What you see is what you expect: rapid scene understanding benefits from prior experience. Attention, Perception, and Psychophysics, 2015, 77, 1239-1251.	1.3	56
26	Depth information and perceived self-motion during simulated gaze rotations. Vision Research, 1998, 38, 3129-3145.	1.4	54
27	The repetition discrimination task: An objective method for studying perceptual grouping. Perception & Psychophysics, 2007, 69, 68-78.	2.3	52
28	Competition in Visual Cortex Impedes Attention to Multiple Items. Journal of Neuroscience, 2010, 30, 161-169.	3.6	50
29	Stimulus similarity modulates competitive interactions in human visual cortex. Journal of Vision, 2007, 7, 19.	0.3	46
30	Late influences on perceptual grouping: Amodal completion. Psychonomic Bulletin and Review, 1996, 3, 75-80.	2.8	44
31	Basic Level Category Structure Emerges Gradually across Human Ventral Visual Cortex. Journal of Cognitive Neuroscience, 2015, 27, 1427-1446.	2.3	42
32	Humanâ€“Object Interactions Are More than the Sum of Their Parts. Cerebral Cortex, 2017, 27, bhw077.	2.9	41
33	Image aesthetics assessment using Deep Chatterjee's machine. , 2017, , .		41
34	Symmetry perception in humans and macaques. Trends in Cognitive Sciences, 2005, 9, 405-406.	7.8	34
35	The tilt-consistency theory of visual illusions.. Journal of Experimental Psychology: Human Perception and Performance, 2001, 27, 206-217.	0.9	33
36	Typicality sharpens category representations in object-selective cortex. NeuroImage, 2016, 134, 170-179.	4.2	32

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37	Examining cortical dynamics and connectivity with simultaneous single-pulse transcranial magnetic stimulation and fast optical imaging. NeuroImage, 2012, 59, 2504-2510.	4.2	30
38	Voxel-level functional connectivity using spatial regularization. NeuroImage, 2012, 63, 1099-1106.	4.2	30
39	Good Exemplars of Natural Scene Categories Elicit Clearer Patterns than Bad Exemplars but Not Greater BOLD Activity. PLoS ONE, 2013, 8, e58594.	2.5	29
40	Top-down influences on perceptual grouping. Journal of Experimental Psychology: Human Perception and Performance, 2002, 28, 1071-84.	0.9	26
41	Pinpointing the peripheral bias in neural scene-processing networks during natural viewing. Journal of Vision, 2016, 16, 9.	0.3	22
42	Probing feedforward and feedback contributions to awareness with visual masking and transcranial magnetic stimulation. Frontiers in Psychology, 2014, 5, 1173.	2.1	21
43	Evidence for similar patterns of neural activity elicited by picture- and word-based representations of natural scenes. NeuroImage, 2017, 155, 422-436.	4.2	21
44	A measurement theory of illusory conjunctions.. Journal of Experimental Psychology: Human Perception and Performance, 2002, 28, 251-269.	0.9	20
45	Enhancement and suppression in the visual field under perceptual load. Frontiers in Psychology, 2013, 4, 275.	2.1	18
46	The N300: An Index for Predictive Coding of Complex Visual Objects and Scenes. Cerebral Cortex Communications, 2021, 2, tgab030.	1.6	18
47	Trial History Effects in the Ventral Attentional Network. Journal of Cognitive Neuroscience, 2014, 26, 2789-2797.	2.3	16
48	The influence of posterior parietal cortex on extrastriate visual activity: A concurrent TMS and fast optical imaging study. Neuropsychologia, 2015, 78, 153-158.	1.6	16
49	Task-relevant and Task-irrelevant Dimensions Are Modulated Independently at a Task-irrelevant Location. Journal of Cognitive Neuroscience, 2012, 24, 1884-1895.	2.3	14
50	Phosphene-guided transcranial magnetic stimulation of occipital but not parietal cortex suppresses stimulus visibility. Experimental Brain Research, 2014, 232, 1989-1997.	1.5	13
51	Attention does more than modulate suppressive interactions: attending to multiple items. Experimental Brain Research, 2011, 212, 293-304.	1.5	12
52	Categorization influences detection: A perceptual advantage for representative exemplars of natural scene categories. Journal of Vision, 2017, 17, 21.	0.3	12
53	Reaction times and perceptual adjustments are sensitive to the illusory distortion of space. Experimental Brain Research, 2012, 218, 119-128.	1.5	8
54	A new illusion of height and width: taller people are perceived as thinner. Psychonomic Bulletin and Review, 2013, 20, 1154-1160.	2.8	6

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55	Separation of item and context in item-method directed forgetting. NeuroImage, 2021, 235, 117983.	4.2	6
56	Relative contributions of task-relevant and task-irrelevant dimensions in priming of pop-out. Journal of Vision, 2014, 14, 14-14.	0.3	5
57	Refining the resource model: Cortical competition could explain hemifield independence. Visual Cognition, 2014, 22, 1022-1026.	1.6	5
58	Regulating the Access to Awareness: Brain Activity Related to Probe-related and Spontaneous Reversals in Binocular Rivalry. Journal of Cognitive Neuroscience, 2017, 29, 1089-1102.	2.3	5
59	Examining the role of feedback in TMS-induced visual suppression: A cautionary tale. Consciousness and Cognition, 2019, 75, 102805.	1.5	5
60	Dynamics of alpha suppression and enhancement may be related to resource competition in cross-modal cortical regions. NeuroImage, 2022, 252, 119048.	4.2	4
61	The folly of boxology. Behavioral and Brain Sciences, 2016, 39, e231.	0.7	1
62	Biasing Competition in Human Visual Cortex. , 2005, , 305-310.		1
63	No masked priming of shape in metacontrast and object substitution masking paradigms without attention. Journal of Vision, 2014, 14, 1058-1058.	0.3	1
64	Probing the mechanisms of probe-mediated binocular rivalry. Vision Research, 2020, 173, 21-28.	1.4	0
65	Does familiarity influence discrimination? Famous and Inverted Faces and Logos. Journal of Vision, 2021, 21, 2001.	0.3	0
66	Locally-Optimized Inter-Subject Alignment of Functional Cortical Regions. Journal of Vision, 2014, 14, 714-714.	0.3	0
67	Not all probes are created equal: Suppressed probes presented during binocular rivalry draw attention to the suppressed image. Journal of Vision, 2014, 14, 380-380.	0.3	0
68	Visual And Semantic Representations Of Scenes. Journal of Vision, 2014, 14, 1126-1126.	0.3	0
69	Scene Categorization: The Good, The Bad and The Early. Journal of Vision, 2015, 15, 582.	0.3	0
70	Convolutional neural networks best predict representational dissimilarity in scene-selective cortex: comparing computational, object and functional models. Journal of Vision, 2017, 17, 1088.	0.3	0
71	Similarities Between Deep Neural Networks and Brain Regions In Processing Good and Bad Exemplars of Natural Scenes. Journal of Vision, 2017, 17, 297.	0.3	0
72	A TMS-EROS investigation of the role of feedback to early visual cortex in visual awareness.. Journal of Vision, 2019, 19, 169a.	0.3	0

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73	Does the Brainâ€™s Sensitivity to Statistical Regularity Require Attention?. Journal of Vision, 2019, 19, 226.	0.3	0
74	Does statistical regularity influence detection? Famous vs novel logos and canonical vs noncanonical viewpoints. Journal of Vision, 2020, 20, 146.	0.3	0