Dov Sagi

List of Publications by Year in descending order

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130 papers	12,065 citations	34105 52 h-index	25787 108 g-index
142 all docs	142 docs citations	142 times ranked	5342 citing authors

#	Article	IF	Citations
1	Where practice makes perfect in texture discrimination: evidence for primary visual cortex plasticity.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 4966-4970.	7.1	1,051
2	Dependence on REM sleep of overnight improvement of a perceptual skill. Science, 1994, 265, 679-682.	12.6	1,049
3	Lateral interactions between spatial channels: Suppression and facilitation revealed by lateral masking experiments. Vision Research, 1993, 33, 993-999.	1.4	822
4	The time course of learning a visual skill. Nature, 1993, 365, 250-252.	27.8	713
5	Gabor filters as texture discriminator. Biological Cybernetics, 1989, 61, 103.	1.3	567
6	"Where" and "what" in vision. Science, 1985, 228, 1217-1219.	12.6	497
7	The architecture of perceptual spatial interactions. Vision Research, 1994, 34, 73-78.	1.4	471
8	Improving vision in adult amblyopia by perceptual learning. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6692-6697.	7.1	377
9	Perceptual learning in Vision Research. Vision Research, 2011, 51, 1552-1566.	1.4	368
10	Motion-induced blindness in normal observers. Nature, 2001, 411, 798-801.	27.8	272
11	Common mechanisms of visual imagery and perception. Science, 1995, 268, 1772-1774.	12.6	254
12	Spatial interactions in human vision: from near to far via experience-dependent cascades of connections.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 1206-1209.	7.1	221
13	Vision outside the focus of attention. Perception & Psychophysics, 1990, 48, 45-58.	2.3	197
14	Perceptual learning: learning to see. Current Opinion in Neurobiology, 1994, 4, 195-199.	4.2	188
15	Short-range limitation on detection of feature differences. Spatial Vision, 1987, 2, 39-49.	1.4	169
16	Isolating Excitatory and Inhibitory Nonlinear Spatial Interactions Involved in Contrast Detection * *Part of this paper was presented at the 17th ECVP conference, Eindhoven, The Netherlands (September) Tj ETQq0 1 0 rgBT /Overlock 1	1.4	132
17	Common mechanisms of human perceptual and motor learning. Nature Reviews Neuroscience, 2012, 13, 658-664.	10.2	148
18	Spatial variability as a limiting factor in texture-discrimination tasks: implications for performance asymmetries. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1990, 7, 1632.	1.5	146

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19	Context-enabled learning in the human visual system. Nature, 2002, 415, 790-793.	27.8	145
20	Configuration influence on crowding. Journal of Vision, 2007, 7, 4.	0.3	140
21	Abnormal Long-range Spatial Interactions in Amblyopia. Vision Research, 1997, 37, 737-744.	1.4	132
22	Lateral interactions between targets and flankers in low-level vision depend on attention to the flankers. Nature Neuroscience, 2001, 4, 1032-1036.	14.8	131
23	Detection versus Discrimination of Visual Orientation. Perception, 1984, 13, 619-628.	1.2	129
24	Parallel and serial processes in motion detection. Science, 1987, 237, 400-402.	12.6	128
25	A link between perceptual learning, adaptation and sleep. Vision Research, 2006, 46, 4071-4074.	1.4	128
26	Perceptual grouping by similarity and proximity: Experimental results can be predicted by intensity autocorrelations. Vision Research, 1995, 35, 853-866.	1.4	122
27	Excitatory-inhibitory network in the visual cortex: Psychophysical evidence. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 10426-10431.	7.1	120
28	Enhanced detection in the aperture of focal attention during simple discrimination tasks. Nature, 1986, 321, 693-695.	27.8	118
29	Visual attention and perceptual grouping. Perception & Psychophysics, 1992, 52, 277-294.	2.3	107
30	Generalized Perceptual Learning in the Absence of Sensory Adaptation. Current Biology, 2012, 22, 1813-1817.	3.9	104
31	Effects of spatial configuration on contrast detection. Vision Research, 1998, 38, 3541-3553.	1.4	103
32	Opposite Neural Signatures of Motion-Induced Blindness in Human Dorsal and Ventral Visual Cortex. Journal of Neuroscience, 2008, 28, 10298-10310.	3.6	99
33	Detection of an orientation singularity in gabor textures: Effect of signal density and spatial-frequency. Vision Research, 1990, 30, 1377-1388.	1.4	92
34	Spatial and temporal crowding in amblyopia. Vision Research, 2007, 47, 1950-1962.	1.4	90
35	Fast noninertial shifts of attention. Spatial Vision, 1985, 1, 141-149.	1.4	87
36	Segmentation, Binding, and Illusory Conjunctions. Neural Computation, 1991, 3, 510-525.	2.2	82

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37	Failure to handle more than one internal representation in visual detection tasks. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 12380-12384.	7.1	80
38	Perceptual learning in contrast discrimination: The effect of contrast uncertainty. Journal of Vision, 2004, 4, 2.	0.3	80
39	Top-Down Modulation of Lateral Interactions in Early Vision. Current Biology, 2003, 13, 985-989.	3.9	77
40	Local and non-local deficits in amblyopia: acuity and spatial interactions. Vision Research, 2004, 44, 3099-3110.	1.4	73
41	Dynamics of Memory Representations in Networks with Novelty-Facilitated Synaptic Plasticity. Neuron, 2006, 52, 383-394.	8.1	72
42	Perceptual learning in autism: over-specificity and possible remedies. Nature Neuroscience, 2015, 18, 1574-1576.	14.8	70
43	Disentangling signal from noise in visual contrast discrimination. Nature Neuroscience, 2001, 4, 1146-1150.	14.8	68
44	Temporal asymmetry of collinear lateral interactions. Vision Research, 2006, 46, 953-960.	1.4	67
45	Lateral inhibition between spatially adjacent spatial-frequency channels?. Perception & Psychophysics, 1985, 37, 315-322.	2.3	64
46	The combination of spatial frequency and orientation is effortlessly perceived. Perception & Psychophysics, 1988, 43, 601-603.	2.3	64
47	Learning to adapt: Dynamics of readaptation to geometrical distortions. Vision Research, 2010, 50, 1550-1558.	1.4	64
48	A transition between eye and object rivalry determined by stimulus coherence. Vision Research, 2001, 41, 981-989.	1.4	63
49	Texture-Based Tasks are Little Affected by Second Tasks Requiring Peripheral or Central Attentive Fixation. Perception, 1991, 20, 483-500.	1.2	57
50	How do flankers' relations affect crowding?. Journal of Vision, 2010, 10, 1-14.	0.3	56
51	Twoâ€stage model in perceptual learning: toward a unified theory. Annals of the New York Academy of Sciences, 2014, 1316, 18-28.	3.8	56
52	Visual Imagery Facilitates Visual Perception: Psychophysical Evidence. Journal of Cognitive Neuroscience, 1997, 9, 476-489.	2.3	54
53	Contrast masking effects change with practice. Vision Research, 1997, 37, 1725-1733.	1.4	53
54	Benefits of efficient consolidation: Short training enables long-term resistance to perceptual adaptation induced by intensive testing. Vision Research, 2008, 48, 970-977.	1.4	50

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55	Spatial interactions in amblyopia: Effects of stimulus parameters and amblyopia type. Vision Research, 2005, 45, 1471-1479.	1.4	49
56	Eccentricity effects on lateral interactions. Vision Research, 2005, 45, 2009-2024.	1.4	47
57	Long-lasting, long-range detection facilitation. Vision Research, 1998, 38, 2591-2599.	1.4	42
58	Configuration saliency revealed in short duration binocular rivalry. Vision Research, 1999, 39, 271-281.	1.4	42
59	Motion-induced blindness and microsaccades: Cause and effect. Journal of Vision, 2010, 10, 22-22.	0.3	42
60	Effects of trial repetition in texture discrimination. Vision Research, 2007, 47, 1094-1102.	1.4	40
61	The relationship between the subjective and objective aspects of visual filling-in. Vision Research, 2007, 47, 2473-2481.	1.4	40
62	Global resistance to local perceptual adaptation in texture discrimination. Vision Research, 2009, 49, 2550-2556.	1.4	40
63	Recurrent networks in human visual cortex: psychophysical evidence. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 2228.	1.5	38
64	Retinotopic Patterns of Correlated Fluctuations in Visual Cortex Reflect the Dynamics of Spontaneous Perceptual Suppression. Journal of Neuroscience, 2013, 33, 2188-2198.	3.6	36
65	Preattentive texture segmentation: The role of line terminations, size, and filter wavelength. Perception & Psychophysics, 1996, 58, 489-509.	2.3	35
66	Motion-Induced Blindness and Troxler Fading: Common and Different Mechanisms. PLoS ONE, 2014, 9, e92894.	2.5	35
67	Visual extinction and cortical connectivity in human vision. Cognitive Brain Research, 1997, 6, 159-162.	3.0	34
68	A perceptual memory for low-contrast visual signals. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 12729-12733.	7.1	33
69	Mechanisms for spatial integration in visual detection: a model based on lateral interactions. Spatial Vision, 1999, 12, 187-209.	1.4	33
70	Contrast integration across space. Vision Research, 1999, 39, 2597-2602.	1.4	32
71	Configuration-Specific Attentional Modulation of Flanker â€“ Target Lateral Interactions. Perception, 2004, 33, 181-194.	1.2	31
72	Natural extinction: A criterion shift phenomenon. Visual Cognition, 2002, 9, 913-936.	1.6	29

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73	Visual Imagery: Effects of Short- and Long-Term Memory. Journal of Cognitive Neuroscience, 1997, 9, 734-742.	2.3	26
74	Early-vision brain responses which predict human visual segmentation and learning. Journal of Vision, 2009, 9, 12-12.	0.3	25
75	Singularities in the inverse modeling of 2AFC contrast discrimination data. Vision Research, 2006, 46, 259-266.	1.4	22
76	Analysis of a two-alternative force-choice signal detection theory model. Journal of Mathematical Psychology, 2006, 50, 411-420.	1.8	20
77	Effects of foreground scale in texture discrimination tasks: Performance is size, shape, and content specific. Spatial Vision, 1993, 7, 293-310.	1.4	19
78	Criteria interactions across visual attributes. Vision Research, 2005, 45, 2523-2532.	1.4	18
79	The effects of perceptual history on memory of visual objects. Vision Research, 2007, 47, 965-973.	1.4	18
80	Mapping dynamic memories of gradually changing objects. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5371-5376.	7.1	18
81	Multiple levels of orientation anisotropy in crowding with Gabor flankers. Journal of Vision, 2011, 11, 18-18.	0.3	18
82	Associative learning in early vision. Neural Networks, 2004, 17, 823-832.	5.9	17
83	Effects of spatiotemporal consistencies on visual learning dynamics and transfer. Vision Research, 2015, 109, 77-86.	1.4	17
84	Discriminability of suprathreshold compound spatial frequency gratings. Vision Research, 1983, 23, 1595-1606.	1.4	16
85	Psychometric curves of lateral facilitation. Spatial Vision, 2006, 19, 413-426.	1.4	16
86	Tilt aftereffect due to adaptation to natural stimuli. Vision Research, 2015, 117, 91-99.	1.4	16
87	Perceptual learning: Functions, mechanisms, and applications. Vision Research, 2010, 50, 365-367.	1.4	14
88	A dissociation between consolidated perceptual learning and sensory adaptation in vision. Scientific Reports, 2016, 6, 38819.	3.3	14
89	Perceptual bias is reduced with longer reaction times during visual discrimination. Communications Biology, 2020, 3, 59.	4.4	14
90	The contrast dependence of spatial frequency channel interactions. Vision Research, 1984, 24, 1357-1365.	1.4	13

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91	Perceptual learning: Functions, mechanisms, and applications. Vision Research, 2009, 49, 2531-2534.	1.4	13
92	Parallel processes within the 'spot-light' of attention. Spatial Vision, 1992, 6, 61-77.	1.4	12
93	Attention and short-term memory in contrast detection. Vision Research, 2000, 40, 1089-1100.	1.4	12
94	A Fraser illusion without local cues?. Vision Research, 2000, 40, 873-878.	1.4	12
95	Target-selective tilt aftereffect during texture learning. Vision Research, 2016, 124, 44-51.	1.4	11
96	Reply to 'The unique criterion constraint: a false alarm?'. Nature Neuroscience, 2002, 5, 707-708.	14.8	10
97	Decision criteria in dual discrimination tasks estimated using external-noise methods. Attention, Perception, and Psychophysics, 2012, 74, 1042-1055.	1.3	10
98	Inverse modeling of human contrast response. Vision Research, 2007, 47, 2855-2867.	1.4	9
99	Contrast dependence of perceptual grouping in brain-damaged patients with visual extinction. Spatial Vision, 2000, 13, 403-414.	1.4	8
100	Short- and long-range processes in structure-from-motion. Vision Research, 1991, 31, 2025-2028.	1.4	7
101	Singularities explained: Response to Klein. Vision Research, 2007, 47, 2918-2922.	1.4	5
102	Visual learning with reduced adaptation is eccentricity-specific. Scientific Reports, 2018, 8, 608.	3.3	5
103	Orientation-selective adaptation improves perceptual grouping. Journal of Vision, 2019, 19, 6.	0.3	5
104	Explaining training induced performance increments and decrements within a unified framework of perceptual learning. Learning & Perception, 2009, 1, 3-17.	2.4	5
105	Binocular summation of chance decisions. Scientific Reports, 2015, 5, 16799.	3.3	4
106	Visual perception of order-disorder transition. Frontiers in Psychology, 2015, 6, 734.	2.1	4
107	Asymmetric visual interactions across the boundary of awareness. Journal of Vision, 2016, 16, 4.	0.3	4
108	Expectations and visual aftereffects. Journal of Vision, 2016, 16, 19.	0.3	4

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109	A decision-time account of individual variability in context-dependent orientation estimation. Vision Research, 2020, 177, 20-31.	1.4	4
110	Decision and Attention. , 2005, , 152-159.		3
111	Early vision. , 1996, , 3-17.		2
112	When they see, they see it almost right: Normal subjective experience of detected stimuli in spatial neglect. Neuroscience Letters, 2008, 446, 51-55.	2.1	2
113	Lateral facilitation â€“ No effect on the target noise level. Vision Research, 2010, 50, 2486-2494.	1.4	2
114	Response: Commentary: Perceptual learning in autism: over-specificity and possible remedies. Frontiers in Integrative Neuroscience, 2016, 10, 36.	2.1	2
115	Real-time visual interactions across the boundary of awareness. Scientific Reports, 2018, 8, 6442.	3.3	2
116	Interaction of contexts in context-dependent orientation estimation. Vision Research, 2020, 169, 58-72.	1.4	2
117	An oculomotor trace of implicit perceptual predictions. Journal of Vision, 2012, 12, 1114-1114.	0.3	2
118	Psychophysical Measurement of Attentional Modulation in Low-Level Vision Using the Lateral-Interactions Paradigm. , 2002, , 25-39.		1
119	1,2,3, many: Perceptual order is computed by patches containing 3x3 "repetitions" of Motifs. Journal of Vision, 2017, 17, 171.	0.3	1
120	The spatial scale of preattentive visual operations. International Journal of Psychophysiology, 1989, 7, 380-381.	1.0	0
121	1, 2, 3, Manyâ€”Perceptual Integration of Motif Repetitions. Symmetry, 2018, 10, 661.	2.2	0
122	Introduction to Special Issue on Perceptual Learning. Vision Research, 2018, 152, 1-2.	1.4	0
123	Contrast adaptation improves spatial integration. Vision Research, 2021, 188, 139-148.	1.4	0
124	Associative Learning in Early Vision. , 2012, , 334-338.		0
125	Target selective tilt-after effect during texture learning. Journal of Vision, 2015, 15, 1134.	0.3	0
126	Expectation and the tilt aftereffect. Journal of Vision, 2015, 15, 39.	0.3	0

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127	Tilt Aftereffect due to Adaptation to Natural Images. Journal of Vision, 2015, 15, 764.	0.3	0
128	MIB as noisy excitable system. Journal of Vision, 2016, 16, 802.	0.3	0
129	Visual cortex is sensitive to order-disorder phase transition. Journal of Vision, 2018, 18, 808.	0.3	0
130	Spatial selectivity of tilt aftereffect depends on long-term history. Journal of Vision, 2018, 18, 257.	0.3	0