Jochen Braun

List of Publications by Year
in descending order

77 papers	4,976 citations	117625 34 h-index	98798 67 g-index
84 all docs	84 docs citations	84 times ranked	3989 citing authors

#	Article	IF	Citations
1	Alternative female and male developmental trajectories in the dynamic balance of human visual perception. Scientific Reports, 2022, 12, 1674.	3.3	2
2	Visual object recognition is facilitated by temporal community structure. Learning and Memory, 2021, 28, 148-152.	1.3	2
3	Binocular rivalry reveals an out-of-equilibrium neural dynamics suited for decision-making. ELife, 2021, 10, .	6.0	19
4	Unstructured network topology begets order-based representation by privileged neurons. Biological Cybernetics, 2020, 114, 113-135.	1.3	3
5	Reinforcement Learning and Attractor Neural Network Models of Associative Learning. Studies in Computational Intelligence, 2019, , 327-349.	0.9	10
6	Perceptual reversals in binocular rivalry: Improved detection from OKN. Journal of Vision, 2019, 19, 5.	0.3	3
7	Finer parcellation reveals detailed correlational structure of resting-state fMRI signals. Journal of Neuroscience Methods, 2018, 294, 15-33.	2.5	7
8	Perceptual coupling induces co-rotation and speeds up alternations in adjacent bi-stable structure-from-motion objects. Journal of Vision, 2018, 18, 21.	0.3	6
9	Collective Activity of Many Bistable Assemblies Reproduces Characteristic Dynamics of Multistable Perception. Journal of Neuroscience, 2016, 36, 6957-6972.	3.6	49
10	Transformation priming helps to disambiguate sudden changes of sensory inputs. Vision Research, 2015, 116, 36-44.	1.4	3
11	Perceptual adaptation to structure-from-motion depends on the size of adaptor and probe objects, but not on the similarity of their shapes. Attention, Perception, and Psychophysics, 2014, 76, 473-488.	1.3	15
12	Sensory memory of illusory depth in structure-from-motion. Attention, Perception, and Psychophysics, 2014, 76, 123-132.	1.3	9
13	Stochastic Accumulation by Cortical Columns May Explain the Scalar Property of Multistable Perception. Physical Review Letters, 2014, 113, 098103.	7.8	21
14	Sensory memory of structure-from-motion is shape-specific. Attention, Perception, and Psychophysics, 2013, 75, 1215-1229.	1.3	19
15	Dynamical features of stimulus integration by interacting cortical columns. BMC Neuroscience, 2013, 14, .	1.9	0
16	Spatial and temporal attention revealed by microsaccades. Vision Research, 2013, 85, 45-57.	1.4	29
17	Structure-from-motion: dissociating perception, neural persistence, and sensory memory of illusory depth and illusory rotation. Attention, Perception, and Psychophysics, 2013, 75, 322-340.	1.3	20
18	Disparate time-courses of adaptation and facilitation in multi-stable perception. Learning & Perception, 2013, 5, 101-118.	2.4	18

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19	Multi-stable perception balances stability and sensitivity. Frontiers in Computational Neuroscience, 2013, 7, 17.	2.1	45
20	Robust Working Memory in an Asynchronously Spiking Neural Network Realized with Neuromorphic VLSI. Frontiers in Neuroscience, 2012, 5, 149.	2.8	43
21	On the Plurality of (Methodological) Worlds: Estimating the Analytic Flexibility of fMRI Experiments. Frontiers in Neuroscience, 2012, 6, 149.	2.8	305
22	Believable change: Bistable reversals are governed by physical plausibility. Journal of Vision, 2012, 12, 17-17.	0.3	29
23	Feature-based attention spreads preferentially in an object-specific manner. Vision Research, 2012, 54, 31-38.	1.4	8
24	The Role of Attention in Ambiguous Reversals of Structure-From-Motion. PLoS ONE, 2012, 7, e37734.	2.5	15
25	Increased readiness for adaptation and faster alternation rates under binocular rivalry in children. Frontiers in Human Neuroscience, 2011, 5, 128.	2.0	18
26	Cumulative history quantifies the role of neural adaptation in multistable perception. Journal of Vision, 2011, 11, 12-12.	0.3	44
27	A Markov Model of Conditional Associative Learning in a Cognitive Behavioural Scenario. Lecture Notes in Computer Science, 2011, , 10-19.	1.3	1
28	Does feature similarity facilitate attentional selection?. Attention, Perception, and Psychophysics, 2010, 72, 2128-2143.	1.3	7
29	Temporal context and conditional associative learning. BMC Neuroscience, 2010, 11, 45.	1.9	11
30	Rare but precious: Microsaccades are highly informative about attentional allocation. Vision Research, 2010, 50, 1173-1184.	1.4	126
31	Self-sustained activity in attractor networks using neuromorphic VLSI. , 2010, , .		3
32	Cortical Response to Task-relevant Stimuli Presented outside the Primary Focus of Attention. Journal of Cognitive Neuroscience, 2010, 22, 1980-1992.	2.3	8
33	Attractors and noise: Twin drivers of decisions and multistability. NeuroImage, 2010, 52, 740-751.	4.2	107
34	No Stopping and No Slowing: Removing Visual Attention with No Effect on Reversals of Phenomenal Appearance. Lecture Notes in Computer Science, 2010, , 510-515.	1.3	0
35	Bistable Perception Modeled as Competing Stochastic Integrations at Two Levels. PLoS Computational Biology, 2009, 5, e1000430.	3.2	75
36	Dynamical insights on the history-dependence during continuous presentation of rivaling stimuli. BMC Neuroscience, 2009, 10, .	1.9	0

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37	Visual attention is a single, integrated resource. Vision Research, 2009, 49, 1166-1173.	1.4	35
38	Visual Perception: Tracking the Elusive Footprints of Awareness. Current Biology, 2009, 19, R30-R32.	3.9	0
39	Vision: Attention Makes the Cup Flow Over. Current Biology, 2008, 18, R713-R715.	3.9	0
40	A VLSI network of spiking neurons with plastic fully configurable “stop-learning” synapses. , 2008, , .		22
41	A short-term memory of multi-stable perception. Journal of Vision, 2008, 8, 7-7.	0.3	56
42	Neurobiologically Inspired, Multimodal Intention Recognition for Technical Communication Systems (NIMITEK). Lecture Notes in Computer Science, 2008, , 141-144.	1.3	6
43	A Neuromorphic aVLSI network chip with configurable plastic synapses. , 2007, , .		3
44	Perceptual reversals need no prompting by attention. Journal of Vision, 2007, 7, 5.	0.3	62
45	Contrast thresholds for component motion with full and poor attention. Journal of Vision, 2007, 7, 1.	0.3	14
46	Vision: Attending the Invisible. Current Biology, 2007, 17, R202-R203.	3.9	1
47	Popout modulates focal attention in the primary visual cortex. NeuroImage, 2004, 22, 574-582.	4.2	20
48	Natural scenes upset the visual applecart. Trends in Cognitive Sciences, 2003, 7, 7-9.	7.8	38
49	Visual Attention: Light Enters the Jungle. Current Biology, 2002, 12, R599-R601.	3.9	6
50	Brain Areas Specific for Attentional Load in a Motion-Tracking Task. Journal of Cognitive Neuroscience, 2001, 13, 1048-1058.	2.3	183
51	Gender differences in the functional organization of the brain for working memory. NeuroReport, 2000, 11, 2581-2585.	1.2	258
52	Targeting visual motion. Nature Neuroscience, 2000, 3, 9-11.	14.8	5
53	Neuronal activity in human primary visual cortex correlates with perception during binocular rivalry. Nature Neuroscience, 2000, 3, 1153-1159.	14.8	483
54	Intimate attention. Nature, 2000, 408, 154-155.	27.8	6

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55	Revisiting spatial vision: toward a unifying model. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 1899.	1.5	79
56	Attentional effects on contrast detection in the presence of surround masks. Vision Research, 2000, 40, 3717-3724.	1.4	51
57	Is There Parallel Binding of Distributed Objects?. Studies in Cognitive Systems, 2000, , 163-174.	0.1	0
58	On the detection of salient contours. Spatial Vision, 1999, 12, 211-225.	1.4	84
59	Attention activates winner-take-all competition among visual filters. Nature Neuroscience, 1999, 2, 375-381.	14.8	403
60	Attentional capacity is undifferentiated: Concurrent discrimination of form, color, and motion. Perception & Psychophysics, 1999, 61, 1241-1255.	2.3	63
61	A quantitative model relating visual neuronal activity to psychophysical thresholds. Neurocomputing, 1999, 26-27, 743-748.	5.9	6
62	Withdrawing attention at little or no cost: Detection and discrimination tasks. Perception & Psychophysics, 1998, 60, 1-23.	2.3	180
63	Vision and attention: the role of training. Nature, 1998, 393, 424-425.	27.8	101
64	Spatial vision thresholds in the near absence of attention. Vision Research, 1997, 37, 2409-2418.	1.4	93
65	Towards the neuronal correlate of visual awareness. Current Opinion in Neurobiology, 1996, 6, 158-164.	4.2	69
66	Blindsight in normal observers. Nature, 1995, 377, 336-338.	27.8	173
67	Selectivity for polar, hyperbolic, and Cartesian gratings in macaque visual cortex. Science, 1993, 259, 100-103.	12.6	533
68	Shape-from-shading is independent of visual attention and may be a 'texton'. Spatial Vision, 1993, 7, 311-322.	1.4	44
69	Visual attention and perceptual grouping. Perception & Psychophysics, 1992, 52, 277-294.	2.3	107
70	Texture-Based Tasks are Little Affected by Second Tasks Requiring Peripheral or Central Attentive Fixation. Perception, 1991, 20, 483-500.	1.2	57
71	Vision outside the focus of attention. Perception & Psychophysics, 1990, 48, 45-58.	2.3	197
72	Axon outgrowth along segmental nerves in the leech. Developmental Biology, 1989, 132, 471-485.	2.0	40

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73	Axon outgrowth along segmental nerves in the leech. Developmental Biology, 1989, 132, 486-501.	2.0	26
74	Lateral interactions among membrane proteins. Valid estimates based on freeze-fracture electron microscopy. Biophysical Journal, 1987, 52, 427-439.	0.5	30
75	Lateral interactions among membrane proteins. Implications for the organization of gap junctions. Biophysical Journal, 1987, 52, 441-454.	0.5	62
76	Improved fluorescent compounds for tracing cell lineage. Developmental Biology, 1985, 109, 509-514.	2.0	237
77	How a gap junction maintains its structure. Nature, 1984, 310, 316-318.	27.8	51