

Jochen Braun

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6647587/publications.pdf>

Version: 2024-02-01

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	Selectivity for polar, hyperbolic, and Cartesian gratings in macaque visual cortex. <i>Science</i> , 1993, 259, 100-103.	12.6	533
2	Neuronal activity in human primary visual cortex correlates with perception during binocular rivalry. <i>Nature Neuroscience</i> , 2000, 3, 1153-1159.	14.8	483
3	Attention activates winner-take-all competition among visual filters. <i>Nature Neuroscience</i> , 1999, 2, 375-381.	14.8	403
4	On the Plurality of (Methodological) Worlds: Estimating the Analytic Flexibility of fMRI Experiments. <i>Frontiers in Neuroscience</i> , 2012, 6, 149.	2.8	305
5	Gender differences in the functional organization of the brain for working memory. <i>NeuroReport</i> , 2000, 11, 2581-2585.	1.2	258
6	Improved fluorescent compounds for tracing cell lineage. <i>Developmental Biology</i> , 1985, 109, 509-514.	2.0	237
7	Vision outside the focus of attention. <i>Perception & Psychophysics</i> , 1990, 48, 45-58.	2.3	197
8	Brain Areas Specific for Attentional Load in a Motion-Tracking Task. <i>Journal of Cognitive Neuroscience</i> , 2001, 13, 1048-1058.	2.3	183
9	Withdrawing attention at little or no cost: Detection and discrimination tasks. <i>Perception & Psychophysics</i> , 1998, 60, 1-23.	2.3	180
10	Blindsight in normal observers. <i>Nature</i> , 1995, 377, 336-338.	27.8	173
11	Rare but precious: Microsaccades are highly informative about attentional allocation. <i>Vision Research</i> , 2010, 50, 1173-1184.	1.4	126
12	Visual attention and perceptual grouping. <i>Perception & Psychophysics</i> , 1992, 52, 277-294.	2.3	107
13	Attractors and noise: Twin drivers of decisions and multistability. <i>NeuroImage</i> , 2010, 52, 740-751.	4.2	107
14	Vision and attention: the role of training. <i>Nature</i> , 1998, 393, 424-425.	27.8	101
15	Spatial vision thresholds in the near absence of attention. <i>Vision Research</i> , 1997, 37, 2409-2418.	1.4	93
16	On the detection of salient contours. <i>Spatial Vision</i> , 1999, 12, 211-225.	1.4	84
17	Revisiting spatial vision: toward a unifying model. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000, 17, 1899.	1.5	79
18	Bistable Perception Modeled as Competing Stochastic Integrations at Two Levels. <i>PLoS Computational Biology</i> , 2009, 5, e1000430.	3.2	75

#	ARTICLE	IF	CITATIONS
19	Towards the neuronal correlate of visual awareness. <i>Current Opinion in Neurobiology</i> , 1996, 6, 158-164.	4.2	69
20	Attentional capacity is undifferentiated: Concurrent discrimination of form, color, and motion. <i>Perception & Psychophysics</i> , 1999, 61, 1241-1255.	2.3	63
21	Lateral interactions among membrane proteins. Implications for the organization of gap junctions. <i>Biophysical Journal</i> , 1987, 52, 441-454.	0.5	62
22	Perceptual reversals need no prompting by attention. <i>Journal of Vision</i> , 2007, 7, 5.	0.3	62
23	Texture-Based Tasks are Little Affected by Second Tasks Requiring Peripheral or Central Attentive Fixation. <i>Perception</i> , 1991, 20, 483-500.	1.2	57
24	A short-term memory of multi-stable perception. <i>Journal of Vision</i> , 2008, 8, 7-7.	0.3	56
25	How a gap junction maintains its structure. <i>Nature</i> , 1984, 310, 316-318.	27.8	51
26	Attentional effects on contrast detection in the presence of surround masks. <i>Vision Research</i> , 2000, 40, 3717-3724.	1.4	51
27	Collective Activity of Many Bistable Assemblies Reproduces Characteristic Dynamics of Multistable Perception. <i>Journal of Neuroscience</i> , 2016, 36, 6957-6972.	3.6	49
28	Multi-stable perception balances stability and sensitivity. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 17.	2.1	45
29	Shape-from-shading is independent of visual attention and may be a 'texton'. <i>Spatial Vision</i> , 1993, 7, 311-322.	1.4	44
30	Cumulative history quantifies the role of neural adaptation in multistable perception. <i>Journal of Vision</i> , 2011, 11, 12-12.	0.3	44
31	Robust Working Memory in an Asynchronously Spiking Neural Network Realized with Neuromorphic VLSI. <i>Frontiers in Neuroscience</i> , 2012, 5, 149.	2.8	43
32	Axon outgrowth along segmental nerves in the leech. <i>Developmental Biology</i> , 1989, 132, 471-485.	2.0	40
33	Natural scenes upset the visual apperception. <i>Trends in Cognitive Sciences</i> , 2003, 7, 7-9.	7.8	38
34	Visual attention is a single, integrated resource. <i>Vision Research</i> , 2009, 49, 1166-1173.	1.4	35
35	Lateral interactions among membrane proteins. Valid estimates based on freeze-fracture electron microscopy. <i>Biophysical Journal</i> , 1987, 52, 427-439.	0.5	30
36	Believable change: Bistable reversals are governed by physical plausibility. <i>Journal of Vision</i> , 2012, 12, 17-17.	0.3	29

#	ARTICLE	IF	CITATIONS
37	Spatial and temporal attention revealed by microsaccades. <i>Vision Research</i> , 2013, 85, 45-57.	1.4	29
38	Axon outgrowth along segmental nerves in the leech. <i>Developmental Biology</i> , 1989, 132, 486-501.	2.0	26
39	A VLSI network of spiking neurons with plastic fully configurable “stop-learning” synapses. , 2008, , .		22
40	Stochastic Accumulation by Cortical Columns May Explain the Scalar Property of Multistable Perception. <i>Physical Review Letters</i> , 2014, 113, 098103.	7.8	21
41	Popout modulates focal attention in the primary visual cortex. <i>NeuroImage</i> , 2004, 22, 574-582.	4.2	20
42	Structure-from-motion: dissociating perception, neural persistence, and sensory memory of illusory depth and illusory rotation. <i>Attention, Perception, and Psychophysics</i> , 2013, 75, 322-340.	1.3	20
43	Sensory memory of structure-from-motion is shape-specific. <i>Attention, Perception, and Psychophysics</i> , 2013, 75, 1215-1229.	1.3	19
44	Binocular rivalry reveals an out-of-equilibrium neural dynamics suited for decision-making. <i>ELife</i> , 2021, 10, .	6.0	19
45	Increased readiness for adaptation and faster alternation rates under binocular rivalry in children. <i>Frontiers in Human Neuroscience</i> , 2011, 5, 128.	2.0	18
46	Disparate time-courses of adaptation and facilitation in multi-stable perception. <i>Learning & Perception</i> , 2013, 5, 101-118.	2.4	18
47	Perceptual adaptation to structure-from-motion depends on the size of adaptor and probe objects, but not on the similarity of their shapes. <i>Attention, Perception, and Psychophysics</i> , 2014, 76, 473-488.	1.3	15
48	The Role of Attention in Ambiguous Reversals of Structure-From-Motion. <i>PLoS ONE</i> , 2012, 7, e37734.	2.5	15
49	Contrast thresholds for component motion with full and poor attention. <i>Journal of Vision</i> , 2007, 7, 1.	0.3	14
50	Temporal context and conditional associative learning. <i>BMC Neuroscience</i> , 2010, 11, 45.	1.9	11
51	Reinforcement Learning and Attractor Neural Network Models of Associative Learning. <i>Studies in Computational Intelligence</i> , 2019, , 327-349.	0.9	10
52	Sensory memory of illusory depth in structure-from-motion. <i>Attention, Perception, and Psychophysics</i> , 2014, 76, 123-132.	1.3	9
53	Cortical Response to Task-relevant Stimuli Presented outside the Primary Focus of Attention. <i>Journal of Cognitive Neuroscience</i> , 2010, 22, 1980-1992.	2.3	8
54	Feature-based attention spreads preferentially in an object-specific manner. <i>Vision Research</i> , 2012, 54, 31-38.	1.4	8

#	ARTICLE	IF	CITATIONS
55	Does feature similarity facilitate attentional selection?. <i>Attention, Perception, and Psychophysics</i> , 2010, 72, 2128-2143.	1.3	7
56	Finer parcellation reveals detailed correlational structure of resting-state fMRI signals. <i>Journal of Neuroscience Methods</i> , 2018, 294, 15-33.	2.5	7
57	A quantitative model relating visual neuronal activity to psychophysical thresholds. <i>Neurocomputing</i> , 1999, 26-27, 743-748.	5.9	6
58	Intimate attention. <i>Nature</i> , 2000, 408, 154-155.	27.8	6
59	Visual Attention: Light Enters the Jungle. <i>Current Biology</i> , 2002, 12, R599-R601.	3.9	6
60	Perceptual coupling induces co-rotation and speeds up alternations in adjacent bi-stable structure-from-motion objects. <i>Journal of Vision</i> , 2018, 18, 21.	0.3	6
61	Neurobiologically Inspired, Multimodal Intention Recognition for Technical Communication Systems (NIMITEK). <i>Lecture Notes in Computer Science</i> , 2008, , 141-144.	1.3	6
62	Targeting visual motion. <i>Nature Neuroscience</i> , 2000, 3, 9-11.	14.8	5
63	A Neuromorphic aVLSI network chip with configurable plastic synapses. , 2007, , .		3
64	Self-sustained activity in attractor networks using neuromorphic VLSI. , 2010, , .		3
65	Transformation priming helps to disambiguate sudden changes of sensory inputs. <i>Vision Research</i> , 2015, 116, 36-44.	1.4	3
66	Perceptual reversals in binocular rivalry: Improved detection from OKN. <i>Journal of Vision</i> , 2019, 19, 5.	0.3	3
67	Unstructured network topology begets order-based representation by privileged neurons. <i>Biological Cybernetics</i> , 2020, 114, 113-135.	1.3	3
68	Visual object recognition is facilitated by temporal community structure. <i>Learning and Memory</i> , 2021, 28, 148-152.	1.3	2
69	Alternative female and male developmental trajectories in the dynamic balance of human visual perception. <i>Scientific Reports</i> , 2022, 12, 1674.	3.3	2
70	Vision: Attending the Invisible. <i>Current Biology</i> , 2007, 17, R202-R203.	3.9	1
71	A Markov Model of Conditional Associative Learning in a Cognitive Behavioural Scenario. <i>Lecture Notes in Computer Science</i> , 2011, , 10-19.	1.3	1
72	Vision: Attention Makes the Cup Flow Over. <i>Current Biology</i> , 2008, 18, R713-R715.	3.9	0

#	ARTICLE	IF	CITATIONS
73	Dynamical insights on the history-dependence during continuous presentation of rivaling stimuli. BMC Neuroscience, 2009, 10, .	1.9	0
74	Visual Perception: Tracking the Elusive Footprints of Awareness. Current Biology, 2009, 19, R30-R32.	3.9	0
75	Dynamical features of stimulus integration by interacting cortical columns. BMC Neuroscience, 2013, 14, .	1.9	0
76	Is There Parallel Binding of Distributed Objects?. Studies in Cognitive Systems, 2000, , 163-174.	0.1	0
77	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