Hans SupÃ¨r

List of Publications by Year
in descending order

64 papers	3,250 citations	279798 23 h-index	155660 55 g-index
65 all docs	65 docs citations	65 times ranked	2755 citing authors

#	Article	IF	Citations
1	Feedforward, horizontal, and feedback processing in the visual cortex. Current Opinion in Neurobiology, 1998, 8, 529-535.	4.2	576
2	Two distinct modes of sensory processing observed in monkey primary visual cortex (V1). Nature Neuroscience, 2001, 4, 304-310.	14.8	459
3	The role of primary visual cortex (V1) in visual awareness. Vision Research, 2000, 40, 1507-1521.	1.4	200
4	Distinct Roles of the Cortical Layers of Area V1 in Figure-Ground Segregation. Current Biology, 2013, 23, 2121-2129.	3.9	184
5	The organization of the embronic and early postnatal murine hippocampus. II. Development of entorhinal, commissural, and septal connections studied with the lipophilic tracer DiI. Journal of Comparative Neurology, 1994, 344, 101-120.	1.6	175
6	Involvement of Distinct Pioneer Neurons in the Formation of Layer-Specific Connections in the Hippocampus. Journal of Neuroscience, 1998, 18, 4616-4626.	3.6	171
7	Chronic multiunit recordings in behaving animals: advantages and limitations. Progress in Brain Research, 2005, 147, 263-282.	1.4	148
8	Organization of the embryonic and early postnatal murine hippocampus. I. Immunocytochemical characterization of neuronal populations in the subplate and marginal zone. Journal of Comparative Neurology, 1994, 342, 571-595.	1.6	147
9	Different glutamate receptors convey feedforward and recurrent processing in macaque V1. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11031-11036.	7.1	140
10	Internal State of Monkey Primary Visual Cortex (V1) Predicts Figureâ€“Ground Perception. Journal of Neuroscience, 2003, 23, 3407-3414.	3.6	138
11	Differential Survival of Cajalâ€“Retzius Cells in Organotypic Cultures of Hippocampus and Neocortex. Journal of Neuroscience, 1996, 16, 6896-6907.	3.6	126
12	The early development of thalamocortical and corticothalamic projections in the mouse. Anatomy and Embryology, 2000, 201, 169-179.	1.5	115
13	Correspondence of presaccadic activity in the monkey primary visual cortex with saccadic eye movements. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3230-3235.	7.1	59
14	Synchrony Dynamics in Monkey V1 Predict Success in Visual Detection. Cerebral Cortex, 2006, 16, 136-148.	2.9	50
15	Degeneration of Cajal-Retzius cells in the developing cerebral cortex of the mouse after ablation of meningeal cells by 6-hydroxydopamine. Developmental Brain Research, 1997, 98, 15-20.	1.7	49
16	Altered figure-ground perception in monkeys with an extra-striate lesion. Neuropsychologia, 2007, 45, 3329-3334.	1.6	39
17	A Role of Eye Vergence in Covert Attention. PLoS ONE, 2013, 8, e52955.	2.5	37
18	Feed-Forward Segmentation of Figure-Ground and Assignment of Border-Ownership. PLoS ONE, 2010, 5, e10705.	2.5	34

#	Article	IF	Citations
19	Attention-Related Eye Vergence Measured in Children with Attention Deficit Hyperactivity Disorder. PLoS ONE, 2015, 10, e0145281.	2.5	28
20	Novel Interactive Eye-Tracking Game for Training Attention in Children With Attention-Deficit/Hyperactivity Disorder. primary care companion for CNS disorders, The, 2019, 21, .	0.6	28
21	Survival of Cajal-Retzius cells after cortical lesions in newborn mice: a possible role for Cajal-Retzius cells in brain repair. Developmental Brain Research, 1997, 98, 9-14.	1.7	27
22	Clinical Validation of Eye Vergence as an Objective Marker for Diagnosis of ADHD in Children. Journal of Attention Disorders, 2019, 23, 599-614.	2.6	25
23	Figureâ€"ground activity in primary visual cortex (V1) of the monkey matches the speed of behavioral response. Neuroscience Letters, 2003, 344, 75-78.	2.1	24
24	Difference in Visual Processing Assessed by Eye Vergence Movements. PLoS ONE, 2013, 8, e72041.	2.5	22
25	Pupil dilation during visuospatial orienting differentiates between autism spectrum disorder and attentionâ€deficit/hyperactivity disorder. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2020, 61, 614-624.	5.2	20
26	Working Memory in the Primary Visual Cortex. Archives of Neurology, 2003, 60, 809.	4.5	18
27	Feedback Enhances Feedforward Figure-Ground Segmentation by Changing Firing Mode. PLoS ONE, 2011, 6, e21641.	2.5	17
28	Strength of Figure-Ground Activity in Monkey Primary Visual Cortex Predicts Saccadic Reaction Time in a Delayed Detection Task. Cerebral Cortex, 2007, 17, 1468-1475.	2.9	16
29	Onset Time of Binocular Rivalry and Duration of Inter-Dominance Periods as Psychophysical Markers of ADHD. Perception, 2013, 42, 16-27.	1.2	14
30	Atypical Arousal Regulation in Children With Autism but Not With Attention-Deficit/Hyperactivity Disorder as Indicated by Pupillometric Measures of Locus Coeruleus Activity. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2023, 8, 11-20.	1.5	13
31	Cognitive Processing in the Primary Visual Cortex: From Perception to Memory. Reviews in the Neurosciences, 2002, 13, 287-98.	2.9	12
32	Attentional Selection Accompanied by Eye Vergence as Revealed by Event-Related Brain Potentials. PLoS ONE, 2016, 11, e0167646.	2.5	12
33	Neural responses in cat visual cortex reflect state changes in correlated activity. European Journal of Neuroscience, 2005, 22, 465-475.	2.6	11
34	Rebound Spiking as a Neural Mechanism for Surface Filling-in. Journal of Cognitive Neuroscience, 2011, 23, 491-501.	2.3	10
35	The time course of estimating time-to-contact: Switching between sources of information. Vision Research, 2013, 92, 53-58.	1.4	9
36	Eye vergence responses during a visual memory task. NeuroReport, 2017, 28, 123-127.	1.2	9

#	Article	IF	Citations
37	Differential intrinsic bias of the 3-D perceptual environment and its role in shape constancy. Experimental Brain Research, 2011, 215, 35-43.	1.5	8
38	Two stages of programming eye gaze shifts in 3-D space. Vision Research, 2013, 86, 15-26.	1.4	8
39	Eye Vergence Responses During an Attention Task in Adults With ADHD and Clinical Controls. Journal of Attention Disorders, 2021, 25, 1302-1310.	2.6	8
40	Vergence responses to face stimuli in young children. NeuroReport, 2018, 29, 219-223.	1.2	7
41	Eye vergence responses in children with and without reading difficulties during a word detection task. Vision Research, 2020, 169, 6-11.	1.4	7
42	Altered Vergence Eye Movements and Pupil Response of Patients with Alzheimerâ€™s Disease and Mild Cognitive Impairment During an Oddball Task. Journal of Alzheimer's Disease, 2021, 82, 421-433.	2.6	7
43	Masking of Figure-Ground Texture and Single Targets by Surround Inhibition: A Computational Spiking Model. PLoS ONE, 2012, 7, e31773.	2.5	5
44	Figure-ground activity in V1 and guidance of saccadic eye movements. Journal of Physiology (Paris), 2006, 100, 63-69.	2.1	4
45	Eye vergence responses to novel and familiar stimuli in young children. Acta Psychologica, 2019, 193, 190-196.	1.5	4
46	Vergence eye movements during figure-ground perception. Consciousness and Cognition, 2021, 92, 103138.	1.5	4
47	Noise destroys feedback enhanced figure-ground segmentation but not feedforward figure-ground segmentation. Frontiers in Physiology, 2012, 3, 274.	2.8	3
48	Dynamic decorrelation as a unifying principle for explaining a broad range of brightness phenomena. PLoS Computational Biology, 2021, 17, e1007907.	3.2	3
49	Stimulus detection after interruption of the feedforward response in a backward masking paradigm. Cognitive Neurodynamics, 2012, 6, 459-466.	4.0	2
50	A feed-forward spiking model of shape-coding by IT cells. Frontiers in Psychology, 2014, 5, 481.	2.1	2
51	Approximations to the time evolution of an Izhikevich neuron. International Journal of Modern Physics C, 2014, 25, 1450052.	1.7	2
52	Approximate Emergent Synchrony in Spatially Coupled Spiking Neurons with Discrete Interaction. Neural Computation, 2014, 26, 2419-2440.	2.2	2
53	Evidence for a role of corrective eye movements during gaze fixation in saccade planning. European Journal of Neuroscience, 2015, 41, 227-233.	2.6	2
54	Bump competition and lattice solutions in two-dimensional neural fields. Neural Networks, 2017, 94, 141-158.	5.9	2

#	Article	IF	Citations
55	Luminance gradients and non-gradients as a cue for distinguishing reflectance and illumination in achromatic images: A computational approach. Neural Networks, 2019, 110, 66-81.	5.9	2
56	Hacia un diagnÃ³stico mÃ¡s objetivo del TDAH: el papel de la Vergencia Ocular. Revista De PsiquiatrÃa Infanto-Juvenil, 2016, 33, 397-406.	0.3	2
57	Atypical cognitive vergence responses in children with attention deficit hyperactivity disorder but not with autism spectrum disorder in a facial emotion recognition task. Psychiatry Research Communications, 2022, 2, 100045.	1.0	2
58	Coding depth perception from image defocus. Vision Research, 2014, 105, 199-203.	1.4	1
59	Spiking model of fixational eye movements and figure-ground segmentation. Network: Computation in Neural Systems, 0, , 1-24.	3.6	1
60	Cortical evolution: No expansion without organization. Behavioral and Brain Sciences, 2003, 26, 570-571.	0.7	0
61	Global oscillation regime change by gated inhibition. Neural Networks, 2016, 82, 76-83.	5.9	0
62	Feature-Based Attention by Lateral Spike Synchronization. Neural Computation, 2016, 28, 629-651.	2.2	0
63	â€˜Two vs oneâ€™ rivalry by the Loxleyâ€“Robinson model. Biological Cybernetics, 2017, 111, 405-420.	1.3	0
64	Effects of Attention on Figure-Ground Responses in the Primary Visual Cortex during Working Memory. , 2005, , 502-506.		0