Sergei Gepshtein

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5424542/publications.pdf

Version: 2024-02-01

64 papers	1,525 citations	471061 17 h-index	329751 37 g-index
75 all docs	75 docs citations	75 times ranked	1367 citing authors

#	Article	IF	Citations
1	A century of Gestalt psychology in visual perception: II. Conceptual and theoretical foundations.. Psychological Bulletin, 2012, 138, 1218-1252.	5.5	324
2	Optimal Compensation for Changes in Task-Relevant Movement Variability. Journal of Neuroscience, 2005, 25, 7169-7178.	1.7	156
3	Why Is Spatial Stereoresolution So Low?. Journal of Neuroscience, 2004, 24, 2077-2089.	1.7	147
4	The combination of vision and touch depends on spatial proximity. Journal of Vision, 2005, 5, 7.	0.1	147
5	Viewing Geometry Determines How Vision and Haptics Combine in Size Perception. Current Biology, 2003, 13, 483-488.	1.8	138
6	Traveling waves and trial averaging: The nature of single-trial and averaged brain responses in large-scale cortical signals. NeuroImage, 2013, 73, 95-112.	2.1	72
7	The emergence of visual objects in space-time. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 8186-8191.	3.3	61
8	Sensory adaptation as optimal resource allocation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4368-4373.	3.3	48
9	Stability and change in perception: spatial organization in temporal context. Experimental Brain Research, 2005, 160, 487-495.	0.7	41
10	The lawful perception of apparent motion. Journal of Vision, 2007, 7, 9.	0.1	37
11	Dopamine Function and the Efficiency of Human Movement. Journal of Cognitive Neuroscience, 2014, 26, 645-657.	1.1	34
12	Dissociation of early evoked cortical activity in perceptual grouping. Experimental Brain Research, 2008, 186, 107-122.	0.7	33
13	Optimality of human movement under natural variations of visualâ€“motor uncertainty. Journal of Vision, 2007, 7, 13.	0.1	32
14	EEG Gamma Band Oscillations Differentiate the Planning of Spatially Directed Movements of the Arm Versus Eye: Multivariate Empirical Mode Decomposition Analysis. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 1083-1096.	2.7	26
15	Stereoscopic transparency: a test for binocular vision's disambiguating power1A part of this study was reported at the 19th European Conference on visual perception, Strasbourg 1996.1. Vision Research, 1998, 38, 2913-2932.	0.7	24
16	The economics of motion perception and invariants of visual sensitivity. Journal of Vision, 2007, 7, 8.	0.1	24
17	Duration of Coherence Intervals in Electrical Brain Activity in Perceptual Organization. Cerebral Cortex, 2010, 20, 365-382.	1.6	22
18	Prospective Optimization with Limited Resources. PLoS Computational Biology, 2015, 11, e1004501.	1.5	15

#	Article	IF	Citations
19	Mechanisms of Spatiotemporal Selectivity in Cortical Area MT. Neuron, 2019, 101, 514-527.e2.	3.8	13
20	A perceptual scaling approach to eyewitness identification. Nature Communications, 2020, 11, 3380.	5.8	13
21	Prospective Optimization. Proceedings of the IEEE, 2014, 102, 799-811.	16.4	10
22	Intermittent regime of brain activity at the early, bias-guided stage of perceptual learning. Journal of Vision, 2016, 16, 11.	0.1	10
23	Neuroscience for architecture: The evolving science of perceptual meaning. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14404-14406.	3.3	10
24	Sensory optimization by stochastic tuning.. Psychological Review, 2013, 120, 798-816.	2.7	9
25	Gestalt: From Phenomena to Laws. Kluwer International Series in Engineering and Computer Science, 2000, , 41-71.	0.2	9
26	Two psychologies of perception and the prospect of their synthesis. Philosophical Psychology, 2010, 23, 217-281.	0.5	8
27	Economy of vision and adaptive reallocation of neural resources. Journal of Vision, 2014, 14, 11-11.	0.1	8
28	Perception of Time in Articulated Visual Events. Frontiers in Psychology, 2012, 3, 564.	1.1	7
29	Rapid estimation of the spatiotemporal contrast sensitivity surface. Journal of Vision, 2010, 9, 696-696.	0.1	7
30	Perceptual organization and neural computation. Journal of Vision, 2008, 8, i.	0.1	4
31	Spatially invariant computations in stereoscopic vision. Frontiers in Computational Neuroscience, 2012, 6, 47.	1.2	4
32	Rivalry between alternative percepts of motion occurs within objects. Journal of Vision, 2010, 1, 382-382.	0.1	4
33	Local cross-correlation model of stereo correspondence. , 2005, 5666, 53.		3
34	Closing the gap between ideal and real behavior: Scientific vs. engineering approaches to normativity. Philosophical Psychology, 2009, 22, 61-75.	0.5	3
35	Visual Neuroscience for Architecture: Seeking a New Evidenceâ€Based Approach to Design. Architectural Design, 2020, 90, 110-117.	0.1	3
36	Spatially distributed computation in cortical circuits. Science Advances, 2022, 8, eabl5865.	4.7	3

#	Article	IF	Citations
37	Species of Space. Architectural Design, 2020, 90, 36-41.	0.1	2
38	Neural Wave Interference in Inhibition-Stabilized Networks. , 0, , .		2
39	Unsupervised adaptive optimization of motion-sensitive systems guided by measurement uncertainty. , 2007, , .		1
40	Adaptive Optimization of Visual Sensitivity. Journal of the Indian Institute of Science, 2017, 97, 423-434.	0.9	1
41	Measuring the spatiotemporal contrast sensitivity function in the macaque monkey. Journal of Vision, 2013, 13, 366-366.	0.1	1
42	The weights of space and time in the perception of visual motion. Journal of Vision, 2010, 1, 243-243.	0.1	1
43	A Pareto-optimality theory of motion perception. Journal of Vision, 2010, 6, 577-577.	0.1	1
44	Target predictability and eye-hand coordination in a rapid reaching task. Journal of Vision, 2012, 12, 411-411.	0.1	1
45	Architectural Proportion from an Empirical Standpoint. Journal of Interior Design, 2022, 47, 11-29.	0.4	1
46	Paradoxical perception of object identity in visual motion. Vision Research, 2017, 136, 1-14.	0.7	0
47	Thinking outside the lineup box: Eyewitness identification by perceptual scaling.. Journal of Applied Research in Memory and Cognition, 2021, 10, 221-224.	0.7	0
48	Do we perceive stereoscopic surfaces from patches of constant disparity?. Journal of Vision, 2004, 4, 173-173.	0.1	0
49	Optimal compensation for changes in effective movement variability in planning movement under risk. Journal of Vision, 2004, 4, 145-145.	0.1	0
50	Motion adaptation as a redistribution of visual sensitivity. Journal of Vision, 2010, 9, 683-683.	0.1	0
51	Spatial resolution of stereopsis. Journal of Vision, 2010, 3, 466-466.	0.1	0
52	Why is spatial stereoacuity so low?. Journal of Vision, 2010, 3, 25-25.	0.1	0
53	Perceivedtime is dilated by modulation of visual and auditory stimuli. Journal of Vision, 2010, 7, 876-876.	0.1	0
54	How sight and touch are combined depends on viewing geometry. Journal of Vision, 2010, 2, 399-399.	0.1	0

#	Article	IF	Citations
55	Visual and haptic precision and inter-modal perception of curved surfaces. Journal of Vision, 2010, 3, 779-779.	0.1	0
56	Making sense of motion adaptation. Journal of Vision, 2010, 8, 1037-1037.	0.1	0
57	Modeling and measurement of the human contrast sensitivity surface. Journal of Vision, 2010, 10, 823-823.	0.1	0
58	Spontaneous EEG Activity and Biases in Perception of Supra-Threshold Stimuli. , 2013, , 289-295.		0
59	Invariants of center-surround interactions. Journal of Vision, 2014, 14, 258-258.	0.1	0
60	Adaptive shifts of spatiotemporal contrast sensitivity function: context adaptation vs. point adaptation. Journal of Vision, 2014, 14, 468-468.	0.1	0
61	Conjoint Effects of Spatial Proximity and Binocular Disparity in Perceptual Grouping.. Journal of Vision, 2014, 14, 807-807.	0.1	0
62	Optimal Measurement of Visual Motion Across Spatial and Temporal Scales. Intelligent Systems Reference Library, 2015, , 211-238.	1.0	0
63	Solid field of visibility. Journal of Vision, 2016, 16, 1002.	0.1	0
64	Invariant tuning of lateral interactions between visual stimuli. Journal of Vision, 2017, 17, 375.	0.1	0