

Sergei Gepshtein

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,525
citations

471477

17
h-index

330122

37
g-index

75
all docs

75
docs citations

75
times ranked

1367
citing authors

#	ARTICLE	IF	CITATIONS
1	Architectural Proportion from an Empirical Standpoint. <i>Journal of Interior Design</i> , 2022, 47, 11-29.	0.8	1
2	Spatially distributed computation in cortical circuits. <i>Science Advances</i> , 2022, 8, eabl5865.	10.3	3
3	Thinking outside the lineup box: Eyewitness identification by perceptual scaling.. <i>Journal of Applied Research in Memory and Cognition</i> , 2021, 10, 221-224.	1.1	0
4	A perceptual scaling approach to eyewitness identification. <i>Nature Communications</i> , 2020, 11, 3380.	12.8	13
5	Species of Space. <i>Architectural Design</i> , 2020, 90, 36-41.	0.1	2
6	Visual Neuroscience for Architecture: Seeking a New Evidence-Based Approach to Design. <i>Architectural Design</i> , 2020, 90, 110-117.	0.1	3
7	Neuroscience for architecture: The evolving science of perceptual meaning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14404-14406.	7.1	10
8	Mechanisms of Spatiotemporal Selectivity in Cortical Area MT. <i>Neuron</i> , 2019, 101, 514-527.e2.	8.1	13
9	Paradoxical perception of object identity in visual motion. <i>Vision Research</i> , 2017, 136, 1-14.	1.4	0
10	Adaptive Optimization of Visual Sensitivity. <i>Journal of the Indian Institute of Science</i> , 2017, 97, 423-434.	1.9	1
11	Invariant tuning of lateral interactions between visual stimuli. <i>Journal of Vision</i> , 2017, 17, 375.	0.3	0
12	Intermittent regime of brain activity at the early, bias-guided stage of perceptual learning. <i>Journal of Vision</i> , 2016, 16, 11.	0.3	10
13	Solid field of visibility. <i>Journal of Vision</i> , 2016, 16, 1002.	0.3	0
14	Prospective Optimization with Limited Resources. <i>PLoS Computational Biology</i> , 2015, 11, e1004501.	3.2	15
15	Optimal Measurement of Visual Motion Across Spatial and Temporal Scales. <i>Intelligent Systems Reference Library</i> , 2015, , 211-238.	1.2	0
16	Prospective Optimization. <i>Proceedings of the IEEE</i> , 2014, 102, 799-811.	21.3	10
17	Dopamine Function and the Efficiency of Human Movement. <i>Journal of Cognitive Neuroscience</i> , 2014, 26, 645-657.	2.3	34
18	EEG Gamma Band Oscillations Differentiate the Planning of Spatially Directed Movements of the Arm Versus Eye: Multivariate Empirical Mode Decomposition Analysis. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014, 22, 1083-1096.	4.9	26

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19	Economy of vision and adaptive reallocation of neural resources. <i>Journal of Vision</i> , 2014, 14, 11-11.	0.3	8
20	Invariants of center-surround interactions. <i>Journal of Vision</i> , 2014, 14, 258-258.	0.3	0
21	Adaptive shifts of spatiotemporal contrast sensitivity function: context adaptation vs. point adaptation. <i>Journal of Vision</i> , 2014, 14, 468-468.	0.3	0
22	Conjoint Effects of Spatial Proximity and Binocular Disparity in Perceptual Grouping.. <i>Journal of Vision</i> , 2014, 14, 807-807.	0.3	0
23	Traveling waves and trial averaging: The nature of single-trial and averaged brain responses in large-scale cortical signals. <i>NeuroImage</i> , 2013, 73, 95-112.	4.2	72
24	Sensory optimization by stochastic tuning.. <i>Psychological Review</i> , 2013, 120, 798-816.	3.8	9
25	Sensory adaptation as optimal resource allocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4368-4373.	7.1	48
26	Measuring the spatiotemporal contrast sensitivity function in the macaque monkey. <i>Journal of Vision</i> , 2013, 13, 366-366.	0.3	1
27	Spontaneous EEG Activity and Biases in Perception of Supra-Threshold Stimuli. , 2013, , 289-295.		0
28	A century of Gestalt psychology in visual perception: II. Conceptual and theoretical foundations.. <i>Psychological Bulletin</i> , 2012, 138, 1218-1252.	6.1	324
29	Perception of Time in Articulated Visual Events. <i>Frontiers in Psychology</i> , 2012, 3, 564.	2.1	7
30	Spatially invariant computations in stereoscopic vision. <i>Frontiers in Computational Neuroscience</i> , 2012, 6, 47.	2.1	4
31	Target predictability and eye-hand coordination in a rapid reaching task. <i>Journal of Vision</i> , 2012, 12, 411-411.	0.3	1
32	Duration of Coherence Intervals in Electrical Brain Activity in Perceptual Organization. <i>Cerebral Cortex</i> , 2010, 20, 365-382.	2.9	22
33	Two psychologies of perception and the prospect of their synthesis. <i>Philosophical Psychology</i> , 2010, 23, 217-281.	0.9	8
34	Rivalry between alternative percepts of motion occurs within objects. <i>Journal of Vision</i> , 2010, 1, 382-382.	0.3	4
35	Rapid estimation of the spatiotemporal contrast sensitivity surface. <i>Journal of Vision</i> , 2010, 9, 696-696.	0.3	7
36	Motion adaptation as a redistribution of visual sensitivity. <i>Journal of Vision</i> , 2010, 9, 683-683.	0.3	0

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37	Spatial resolution of stereopsis. <i>Journal of Vision</i> , 2010, 3, 466-466.	0.3	0
38	The weights of space and time in the perception of visual motion. <i>Journal of Vision</i> , 2010, 1, 243-243.	0.3	1
39	Why is spatial stereoacuity so low?. <i>Journal of Vision</i> , 2010, 3, 25-25.	0.3	0
40	A Pareto-optimality theory of motion perception. <i>Journal of Vision</i> , 2010, 6, 577-577.	0.3	1
41	Perceived time is dilated by modulation of visual and auditory stimuli. <i>Journal of Vision</i> , 2010, 7, 876-876.	0.3	0
42	How sight and touch are combined depends on viewing geometry. <i>Journal of Vision</i> , 2010, 2, 399-399.	0.3	0
43	Visual and haptic precision and inter-modal perception of curved surfaces. <i>Journal of Vision</i> , 2010, 3, 779-779.	0.3	0
44	Making sense of motion adaptation. <i>Journal of Vision</i> , 2010, 8, 1037-1037.	0.3	0
45	Modeling and measurement of the human contrast sensitivity surface. <i>Journal of Vision</i> , 2010, 10, 823-823.	0.3	0
46	Closing the gap between ideal and real behavior: Scientific vs. engineering approaches to normativity. <i>Philosophical Psychology</i> , 2009, 22, 61-75.	0.9	3
47	Dissociation of early evoked cortical activity in perceptual grouping. <i>Experimental Brain Research</i> , 2008, 186, 107-122.	1.5	33
48	Perceptual organization and neural computation. <i>Journal of Vision</i> , 2008, 8, i.	0.3	4
49	Optimality of human movement under natural variations of visual motor uncertainty. <i>Journal of Vision</i> , 2007, 7, 13.	0.3	32
50	The lawful perception of apparent motion. <i>Journal of Vision</i> , 2007, 7, 9.	0.3	37
51	Unsupervised adaptive optimization of motion-sensitive systems guided by measurement uncertainty. , 2007, , .		1
52	The economics of motion perception and invariants of visual sensitivity. <i>Journal of Vision</i> , 2007, 7, 8.	0.3	24
53	Local cross-correlation model of stereo correspondence. , 2005, 5666, 53.		3
54	Stability and change in perception: spatial organization in temporal context. <i>Experimental Brain Research</i> , 2005, 160, 487-495.	1.5	41

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55	The combination of vision and touch depends on spatial proximity. <i>Journal of Vision</i> , 2005, 5, 7.	0.3	147
56	Optimal Compensation for Changes in Task-Relevant Movement Variability. <i>Journal of Neuroscience</i> , 2005, 25, 7169-7178.	3.6	156
57	Why Is Spatial Stereoresolution So Low?. <i>Journal of Neuroscience</i> , 2004, 24, 2077-2089.	3.6	147
58	Do we perceive stereoscopic surfaces from patches of constant disparity?. <i>Journal of Vision</i> , 2004, 4, 173-173.	0.3	0
59	Optimal compensation for changes in effective movement variability in planning movement under risk. <i>Journal of Vision</i> , 2004, 4, 145-145.	0.3	0
60	Viewing Geometry Determines How Vision and Haptics Combine in Size Perception. <i>Current Biology</i> , 2003, 13, 483-488.	3.9	138
61	The emergence of visual objects in space-time. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 8186-8191.	7.1	61
62	Gestalt: From Phenomena to Laws. <i>Kluwer International Series in Engineering and Computer Science</i> , 2000, , 41-71.	0.2	9
63	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. <i>Vision Research</i> , 1998, 38, 2913-2932.	1.4	24
64	Neural Wave Interference in Inhibition-Stabilized Networks. , 0, , .		2