Jozsef Fiser

List of Publications by Year in descending order

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67 papers	5,463 citations	218677 26 h-index	175258 52 g-index
72 all docs	72 docs citations	72 times ranked	4023 citing authors

#	Article	IF	Citations
1	Unsupervised Statistical Learning of Higher-Order Spatial Structures from Visual Scenes. Psychological Science, 2001, 12, 499-504.	3.3	624
2	Spontaneous Cortical Activity Reveals Hallmarks of an Optimal Internal Model of the Environment. Science, 2011, 331, 83-87.	12.6	593
3	Statistically optimal perception and learning: from behavior to neural representations. Trends in Cognitive Sciences, 2010, 14, 119-130.	7.8	539
4	Nonlinear partial differential equations and applications: From the Cover: Statistical learning of new visual feature combinations by infants. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15822-15826.	7.1	480
5	Statistical learning of higher-order temporal structure from visual shape sequences.. Journal of Experimental Psychology: Learning Memory and Cognition, 2002, 28, 458-467.	0.9	383
6	Small modulation of ongoing cortical dynamics by sensory input during natural vision. Nature, 2004, 431, 573-578.	27.8	368
7	Statistical learning of higher-order temporal structure from visual shape sequences.. Journal of Experimental Psychology: Learning Memory and Cognition, 2002, 28, 458-467.	0.9	292
8	The best time to acquire new skills: ageâ€related differences in implicit sequence learning across the human lifespan. Developmental Science, 2012, 15, 496-505.	2.4	237
9	Neural Variability and Sampling-Based Probabilistic Representations in the Visual Cortex. Neuron, 2016, 92, 530-543.	8.1	196
10	Bayesian learning of visual chunks by human observers. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2745-2750.	7.1	194
11	Perceptual Decision-Making as Probabilistic Inference by Neural Sampling. Neuron, 2016, 90, 649-660.	8.1	174
12	Encoding Multielement Scenes: Statistical Learning of Visual Feature Hierarchies.. Journal of Experimental Psychology: General, 2005, 134, 521-537.	2.1	157
13	Coding of Natural Scenes in Primary Visual Cortex. Neuron, 2003, 37, 703-718.	8.1	127
14	Distance Modulation of Neural Activity in the Visual Cortex. , 1998, 281, 552-555.		99
15	Experience-dependent visual cue integration based on consistencies between visual and haptic percepts. Vision Research, 2001, 41, 449-461.	1.4	92
16	Age-dependent and coordinated shift in performance between implicit and explicit skill learning. Frontiers in Computational Neuroscience, 2013, 7, 147.	2.1	88
17	Minimizing Binding Errors Using Learned Conjunctive Features. Neural Computation, 2000, 12, 731-762.	2.2	65
18	Subordinate-level object classification reexamined. Psychological Research, 1999, 62, 131-153.	1.7	62

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19	Methodological challenges for understanding cognitive development in infants. Trends in Cognitive Sciences, 2005, 9, 92-98.	7.8	53
20	To what extent can matching algorithms based on direct outputs of spatial filters account for human object recognition?. Spatial Vision, 1996, 10, 237-271.	1.4	47
21	Invariance of long-term visual priming to scale, reflection, translation, and hemisphere. Vision Research, 2001, 41, 221-234.	1.4	47
22	Right Hemisphere Dominance in Visual Statistical Learning. Journal of Cognitive Neuroscience, 2011, 23, 1088-1099.	2.3	47
23	Size Invariance in Visual Object Priming of Gray-Scale Images. Perception, 1995, 24, 741-748.	1.2	40
24	Enhanced visual statistical learning in adults with autism.. Neuropsychology, 2015, 29, 163-172.	1.3	39
25	Suppression of cortical neural variability is stimulus- and state-dependent. Journal of Neurophysiology, 2012, 108, 2383-2392.	1.8	38
26	Effects of Peripheral Visual Field Loss on Eye Movements During Visual Search. Frontiers in Psychology, 2012, 3, 472.	2.1	36
27	Perceptual learning and representational learning in humans and animals. Learning and Behavior, 2009, 37, 141-153.	1.0	29
28	Impact of Simulated Central Scotomas on Visual Search in Natural Scenes. Optometry and Vision Science, 2012, 89, 1385-1394.	1.2	29
29	Representations of uncertainty: where art thou?. Current Opinion in Behavioral Sciences, 2021, 38, 150-162.	3.9	27
30	Optogenetic spatial and temporal control of cortical circuits on a columnar scale. Journal of Neurophysiology, 2016, 115, 1043-1062.	1.8	26
31	Perceived object trajectories during occlusion constrain visual statistical learning. Psychonomic Bulletin and Review, 2007, 14, 173-178.	2.8	24
32	Size tuning in the absence of spatial frequency tuning in object recognition. Vision Research, 2001, 41, 1931-1950.	1.4	22
33	A common probabilistic framework for perceptual and statistical learning. Current Opinion in Neurobiology, 2019, 58, 218-228.	4.2	22
34	Minimizing Binding Errors Using Learned Conjunctive Features. Neural Computation, 2000, 12, 247-278.	2.2	19
35	Contrast conservation in human vision. Vision Research, 2003, 43, 2637-2648.	1.4	16
36	The relationship between initial threshold, learning, and generalization in perceptual learning. Journal of Vision, 2019, 19, 28.	0.3	16

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37	Statistically defined visual chunks engage object-based attention. Nature Communications, 2021, 12, 272.	12.8	15
38	Neural Signatures of Spatial Statistical Learning: Characterizing the Extraction of Structure from Complex Visual Scenes. Journal of Cognitive Neuroscience, 2017, 29, 1963-1976.	2.3	13
39	Different mechanisms underlie implicit visual statistical learning in honey bees and humans. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25923-25934.	7.1	13
40	Spontaneous Learning of Visual Structures in Domestic Chicks. Animals, 2018, 8, 135.	2.3	12
41	Unimodal statistical learning produces multimodal object-like representations. ELife, 2019, 8, .	6.0	11
42	Development of Cross-Orientation Suppression and Size Tuning and the Role of Experience. Journal of Neuroscience, 2018, 38, 2656-2670.	3.6	10
43	Does experience provide a permissive or instructive influence on the development of direction selectivity in visual cortex?. Neural Development, 2018, 13, 16.	2.4	9
44	Classical geometric illusion effects with nonclassical stimuli: Angular induction from decomposing lines into point arrays. Perception & Psychophysics, 1994, 56, 575-589.	2.3	6
45	Prior implicit knowledge shapes human threshold for orientation noise. Journal of Vision, 2015, 15, 24.	0.3	6
46	Statistical Learning in Vision. Annual Review of Vision Science, 2022, 8, 265-290.	4.4	6
47	The other kind of perceptual learning. Learning & Perception, 2009, 1, 69-87.	2.4	3
48	Adaptive erasure of spurious sequences in sensory cortical circuits. Neuron, 2022, , .	8.1	3
49	Coding of low-level position and orientation information in human naturalistic vision. PLoS ONE, 2019, 14, e0212141.	2.5	2
50	The effect of interference, offline sleep, and wake on spatial statistical learning. Neurobiology of Learning and Memory, 2022, 193, 107650.	1.9	2
51	Gabor-wavelet decomposition based filtering of gray-level images for object and scene recognition experiments. Spatial Vision, 1997, 11, 117-119.	1.4	1
52	Recovering Spatial Structure in Spatio-Temporal Visual Statistical Learning. Journal of Vision, 2021, 21, 2160.	0.3	1
53	Statistical learning decreases sensitivity to temporal asynchrony of events within as well as across modalities. Journal of Vision, 2021, 21, 2276.	0.3	1
54	A probabilistic hammer for nailing complex neural data analyses. Neuron, 2021, 109, 1077-1079.	8.1	0

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55	Pupil dynamics signals visuo-spatial statistical learning. Journal of Vision, 2021, 21, 2005.	0.3	0
56	Information integration in sequential visual decision-making. Journal of Vision, 2015, 15, 385.	0.3	0
57	Detecting structure in visual sequences. Journal of Vision, 2015, 15, 333.	0.3	0
58	Modeling information integration in sequential visual decision-making. Journal of Vision, 2015, 15, 90.	0.3	0
59	Evidence of probabilistic representation in assessing visual summary statistics. Journal of Vision, 2015, 15, 946.	0.3	0
60	The relation between initial thresholds, learning, and generalization in three perceptual learning paradigms. Journal of Vision, 2016, 16, 1104.	0.3	0
61	Change-related weighting of statistical information in visual decision making. Journal of Vision, 2016, 16, 574.	0.3	0
62	Visual statistical learning provides scaffolding for emerging object representations. Journal of Vision, 2017, 17, 39.	0.3	0
63	Task irrelevant statistical regularities modulate perceptual learning in orientation discrimination task. Journal of Vision, 2018, 18, 261.	0.3	0
64	Complex interactions across modalities in audio-visual cross-modal statistical learning. Journal of Vision, 2018, 18, 1132.	0.3	0
65	Reliability-based arbitration between noise and event-based component of observersâ€™ internal model during perceptual decision making. Journal of Vision, 2019, 19, 59c.	0.3	0
66	Increasingly complex internal visual representations in honeybees, human infants and adults. Journal of Vision, 2019, 19, 292c.	0.3	0
67	Statistical learning of concurrent auditory signals. Journal of Vision, 2020, 20, 444.	0.3	0