

Ruben Coen-Cagli

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

982
citations

759233

12
h-index

713466

21
g-index

29
all docs

29
docs citations

29
times ranked

909
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlations and Neuronal Population Information. Annual Review of Neuroscience, 2016, 39, 237-256.	10.7	314
2	Flexible gating of contextual influences in natural vision. Nature Neuroscience, 2015, 18, 1648-1655.	14.8	137
3	Origin of information-limiting noise correlations. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6973-82.	7.1	129
4	Cortical Surround Interactions and Perceptual Saliency via Natural Scene Statistics. PLoS Computational Biology, 2012, 8, e1002405.	3.2	89
5	Measuring Fisher Information Accurately in Correlated Neural Populations. PLoS Computational Biology, 2015, 11, e1004218.	3.2	55
6	Neuronal variability reflects probabilistic inference tuned to natural image statistics. Nature Communications, 2021, 12, 3635.	12.8	50
7	Specificity and timescales of cortical adaptation as inferences about natural movie statistics. Journal of Vision, 2016, 16, .	0.3	32
8	Visuomotor characterization of eye movements in a drawing task. Vision Research, 2009, 49, 810-818.	1.4	31
9	Relating Divisive Normalization to Neuronal Response Variability. Journal of Neuroscience, 2019, 39, 7344-7356.	3.6	25
10	Visual attention and flexible normalization pools. Journal of Vision, 2013, 13, 25-25.	0.3	24
11	Adaptation in the visual cortex: a case for probing neuronal populations with natural stimuli. F1000Research, 2017, 6, 1246.	1.6	23
12	The impact on midlevel vision of statistically optimal divisive normalization in V1. Journal of Vision, 2013, 13, 13-13.	0.3	15
13	An algebraic approach to linear-optical schemes for deterministic quantum computing. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, S711-S720.	1.4	12
14	Investigating the representation of uncertainty in neuronal circuits. PLoS Computational Biology, 2021, 17, e1008138.	3.2	9
15	Flexible contextual modulation of naturalistic texture perception in peripheral vision. Journal of Vision, 2021, 21, 1.	0.3	7
16	Flexibly regularized mixture models and application to image segmentation. Neural Networks, 2022, 149, 107-123.	5.9	7
17	A method to estimate the number of neurons supporting visual orientation discrimination in primates. F1000Research, 2017, 6, 1752.	1.6	3
18	DrawBot: a bio-inspired robotic portraitist. Digital Creativity, 2007, 18, 24-33.	1.6	2

#	ARTICLE	IF	CITATIONS
19	Redundancy between spectral and higher-order texture statistics for natural image segmentation. Vision Research, 2021, 187, 55-65.	1.4	1
20	A Functional Model of Neuronal Response Variability in Primary Visual Cortex. , 2019, , .		1
21	Measuring and Modeling Human Probabilistic Segmentation Maps. Journal of Vision, 2020, 20, 260.	0.3	1