Ruben Coen-Cagli

List of Publications by Year
in descending order

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	Flexibly regularized mixture models and application to image segmentation. Neural Networks, 2022, 149, 107-123.	5.9	7
2	Investigating the representation of uncertainty in neuronal circuits. PLoS Computational Biology, 2021, 17, e1008138.	3.2	9
3	Neuronal variability reflects probabilistic inference tuned to natural image statistics. Nature Communications, 2021, 12, 3635.	12.8	50
4	Redundancy between spectral and higher-order texture statistics for natural image segmentation. Vision Research, 2021, 187, 55-65.	1.4	1
5	Flexible contextual modulation of naturalistic texture perception in peripheral vision. Journal of Vision, 2021, 21, 1.	0.3	7
6	Measuring and Modeling Human Probabilistic Segmentation Maps. Journal of Vision, 2020, 20, 260.	0.3	1
7	Relating Divisive Normalization to Neuronal Response Variability. Journal of Neuroscience, 2019, 39, 7344-7356.	3.6	25
8	A Functional Model of Neuronal Response Variability in Primary Visual Cortex. , 2019, , .		1
9	Adaptation in the visual cortex: a case for probing neuronal populations with natural stimuli. F1000Research, 2017, 6, 1246.	1.6	23
10	A method to estimate the number of neurons supporting visual orientation discrimination in primates. F1000Research, 2017, 6, 1752.	1.6	3
11	Specificity and timescales of cortical adaptation as inferences about natural movie statistics. Journal of Vision, 2016, 16, .	0.3	32
12	Correlations and Neuronal Population Information. Annual Review of Neuroscience, 2016, 39, 237-256.	10.7	314
13	Flexible gating of contextual influences in natural vision. Nature Neuroscience, 2015, 18, 1648-1655.	14.8	137
14	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
15	Measuring Fisher Information Accurately in Correlated Neural Populations. PLoS Computational Biology, 2015, 11, e1004218.	3.2	55
16	The impact on midlevel vision of statistically optimal divisive normalization in V1. Journal of Vision, 2013, 13, 13-13.	0.3	15
17	Visual attention and flexible normalization pools. Journal of Vision, 2013, 13, 25-25.	0.3	24
18	Cortical Surround Interactions and Perceptual Salience via Natural Scene Statistics. PLoS Computational Biology, 2012, 8, e1002405.	3.2	89

#	Article	IF	Citations
19	Visuomotor characterization of eye movements in a drawing task. Vision Research, 2009, 49, 810-818.	1.4	31
20	DrawBot: a bio-inspired robotic portraitist. Digital Creativity, 2007, 18, 24-33.	1.6	2
21	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