Roland J Baddeley

List of Publications by Year
in descending order

52	3,008	236925 25	197818 49
papers	citations	h-index	g-index

59	59	59	2528
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Visual correlates of fixation selection: effects of scale and time. Vision Research, 2005, 45, 643-659.	1.4	612
2	The principal components of natural images. Network: Computation in Neural Systems, 1992, 3, 61-70.	3.6	194
3	Multisensory temporal order judgments: When two locations are better than one. Perception & Psychophysics, 2003, 65, 318-328.	2.3	145
4	The long and the short of it: Spatial statistics at fixation vary with saccade amplitude and task. Vision Research, 2006, 46, 1857-1862.	1.4	145
5	Different mechanisms underlie three inhibitory phenomena in cat area 17. Vision Research, 1998, 38, 2067-2080.	1.4	138
6	High frequency edges (but not contrast) predict where we fixate: A Bayesian system identification analysis. Vision Research, 2006, 46, 2824-2833.	1.4	136
7	An efficient code in V1?. Nature, 1996, 381, 560-561.	27.8	118
8	Why the leopard got its spots: relating pattern development to ecology in felids. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 1373-1380.	2.6	111
9	The evolution and function of pattern diversity in snakes. Behavioral Ecology, 2013, 24, 1237-1250.	2.2	101
10	Dazzle Camouflage Affects Speed Perception. PLoS ONE, 2011, 6, e20233.	2.5	93
11	Camouflage, detection and identification of moving targets. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130064.	2.6	92
12	The Temporal Impulse Response Underlying Saccadic Decisions. Journal of Neuroscience, 2005, 25, 9907-9912.	3.6	86
13	A Quantitative Test of the Predicted Relationship between Countershading and Lighting Environment. American Naturalist, 2012, 180, 762-776.	2.1	59
14	Optimal, Unsupervised Learning in Invariant Object Recognition. Neural Computation, 1997, 9, 883-894.	2.2	53
15	Do we look at lights? Using mixture modelling to distinguish between low- and high-level factors in natural image viewing. Visual Cognition, 2009, 17, 856-879.	1.6	53
16	A review of cuttlefish camouflage and object recognition and evidence for depth perception. Journal of Experimental Biology, 2008, 211, 1757-1763.	1.7	51
17	Eye Movements to Natural Images as a Function of Sex and Personality. PLoS ONE, 2012, 7, e47870.	2.5	48
18	The nature of the visual representations involved in eye movements when walking down the street. Visual Cognition, 2009, 17, 880-903.	1.6	46

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19	Improved Executive Function and Callosal White Matter Microstructure after Rhythm Exercise in Huntington's Disease. Journal of Huntington's Disease, 2014, 3, 273-283.	1.9	46
20	The Correlational Structure of Natural Images and the Calibration of Spatial Representations. Cognitive Science, 1997, 21, 351-372.	1.7	39
21	BVI-HD: A Video Quality Database for HEVC Compressed and Texture Synthesized Content. IEEE Transactions on Multimedia, 2018, 20, 2620-2630.	7.2	36
22	Individual Differences in Fornix Microstructure and Body Mass Index. PLoS ONE, 2013, 8, e59849.	2.5	36
23	Cuttlefish camouflage: a quantitative study of patterning. Biological Journal of the Linnean Society, 0, 92, 335-345.	1.6	35
24	Is the early visual system optimised to be energy efficient?. Network: Computation in Neural Systems, 2005, 16, 175-190.	3.6	34
25	Searching for filters with 'interesting' output distributions: an uninteresting direction to explore?. Network: Computation in Neural Systems, 1996, 7, 409-421.	3.6	32
26	Finding compact and sparse-distributed representations of visual images. Network: Computation in Neural Systems, 1995, 6, 333-344.	3.6	30
27	Uncertainty plus prior equals rational bias: An intuitive Bayesian probability weighting function.. Psychological Review, 2012, 119, 878-887.	3.8	29
28	The distribution of reflectances within the visual environment. Vision Research, 2007, 47, 548-554.	1.4	27
29	Ants determine their next move at rest: motor planning and causality in complex systems. Royal Society Open Science, 2016, 3, 150534.	2.4	26
30	Cultural evolution of military camouflage. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160351.	4.0	26
31	Does adaptive training work?. Applied Cognitive Psychology, 2009, 23, 254-266.	1.6	25
32	Moving in groups: how density and unpredictable motion affect predation risk. Behavioral Ecology and Sociobiology, 2015, 69, 867-872.	1.4	24
33	Visual impairments in dementia with Lewy bodies and posterior cortical atrophy.. Neuropsychology, 2010, 24, 35-48.	1.3	23
34	Optimizing colour for camouflage and visibility using deep learning: the effects of the environment and the observer's visual system. Journal of the Royal Society Interface, 2019, 16, 20190183.	3.4	23
35	Mediaeval artists: Masters in directing the observers' gaze. Current Biology, 2007, 17, R8-R9.	3.9	22
36	Sex-specific effects of central adiposity and inflammatory markers on limbic microstructure. NeuroImage, 2019, 189, 793-803.	4.2	22

#	Article	IF	Citations
37	Dynamic Dazzle Distorts Speed Perception. PLoS ONE, 2016, 11, e0155162.	2.5	22
38	Digital phenotyping and the development and delivery of health guidelines and behaviour change interventions. Addiction, 2017, 112, 1281-1285.	3.3	18
39	Camouflage assessment: Machine and human. Computers in Industry, 2018, 99, 173-182.	9.9	17
40	Nonlinear principal components analysis of neuronal spike train data. Biological Cybernetics, 1997, 77, 283-288.	1.3	16
41	Non-linear data structure extraction using simple hebbian networks. Biological Cybernetics, 1995, 72, 533-541.	1.3	16
42	Rapidly Measuring the Speed of Unconscious Learning: Amnesics Learn Quickly and Happy People Slowly. PLoS ONE, 2012, 7, e33400.	2.5	15
43	Optimal foraging and the information theory of gambling. Journal of the Royal Society Interface, 2019, 16, 20190162.	3.4	14
44	Constraints on Synchronizing Oscillator Networks. Neural Computation, 1993, 5, 260-266.	2.2	13
45	Camouflaging moving objects: crypsis and masquerade. Behavioral Ecology, 2017, 28, 1248-1255.	2.2	13
46	CamoGAN: Evolving optimum camouflage with Generative Adversarial Networks. Methods in Ecology and Evolution, 2020, 11, 240-247.	5.2	13
47	The Bayesian superorganism: externalized memories facilitate distributed sampling. Journal of the Royal Society Interface, 2020, 17, 20190848.	3.4	11
48	Support for reduced presentation durations in subjective video quality assessment. Signal Processing: Image Communication, 2016, 48, 38-49.	3.2	10
49	Reward Is Assessed in Three Dimensions That Correspond to the Semantic Differential. PLoS ONE, 2013, 8, e55588.	2.5	8
50	The Bayesian Superorganism: Collective Probability Estimation in Swarm Systems. , 2020, , .		2
51	Human Visual Search Performance for Camouflaged Targets. Journal of Vision, 2015, 15, 1164.	0.3	1
52	The role of reinforcement in "optimal" search strategies. Journal of Vision, 2016, 16, 995.	0.3	0