F Gregory Ashby

List of Publications by Year
in descending order

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Version: 2024-02-01

117 papers	12,442 citations	61945 43 h-index	25770 108 g-index
118 all docs	118 docs citations	118 times ranked	6199 citing authors

#	Article	IF	Citations
1	A neuropsychological theory of positive affect and its influence on cognition.. Psychological Review, 1999, 106, 529-550.	2.7	1,839
2	A neuropsychological theory of multiple systems in category learning.. Psychological Review, 1998, 105, 442-481.	2.7	1,115
3	Varieties of perceptual independence.. Psychological Review, 1986, 93, 154-179.	2.7	825
4	Human Category Learning. Annual Review of Psychology, 2005, 56, 149-178.	9.9	746
5	Deconvolving BOLD activation in event-related designs for multivoxel pattern classification analyses. NeuroImage, 2012, 59, 2636-2643.	2.1	583
6	Decision rules in the perception and categorization of multidimensional stimuli.. Journal of Experimental Psychology: Learning Memory and Cognition, 1988, 14, 33-53.	0.7	444
7	Cortical and basal ganglia contributions to habit learning and automaticity. Trends in Cognitive Sciences, 2010, 14, 208-215.	4.0	395
8	Comparing decision bound and exemplar models of categorization. Perception & Psychophysics, 1993, 53, 49-70.	2.3	389
9	Toward a unified theory of similarity and recognition.. Psychological Review, 1988, 95, 124-150.	2.7	333
10	A neurobiological theory of automaticity in perceptual categorization.. Psychological Review, 2007, 114, 632-656.	2.7	269
11	Delayed feedback effects on rule-based and information-integration category learning.. Journal of Experimental Psychology: Learning Memory and Cognition, 2003, 29, 650-662.	0.7	265
12	Complex decision rules in categorization: Contrasting novice and experienced performance.. Journal of Experimental Psychology: Human Perception and Performance, 1992, 18, 50-71.	0.7	263
13	The effects of concurrent task interference on category learning: Evidence for multiple category learning systems. Psychonomic Bulletin and Review, 2001, 8, 168-176.	1.4	237
14	Human category learning 2.0. Annals of the New York Academy of Sciences, 2011, 1224, 147-161.	1.8	228
15	Category learning and multiple memory systems. Trends in Cognitive Sciences, 2005, 9, 83-89.	4.0	227
16	Dissociating explicit and procedural-learning based systems of perceptual category learning. Behavioural Processes, 2004, 66, 309-332.	0.5	212
17	A formal theory of feature binding in object perception.. Psychological Review, 1996, 103, 165-192.	2.7	187
18	Observational versus feedback training in rule-based and information-integration category learning. Memory and Cognition, 2002, 30, 666-677.	0.9	182

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19	On the dominance of unidimensional rules in unsupervised categorization. Perception & Psychophysics, 1999, 61, 1178-1199.	2.3	175
20	Procedural learning in perceptual categorization. Memory and Cognition, 2003, 31, 1114-1125.	0.9	175
21	On the nature of implicit categorization. Psychonomic Bulletin and Review, 1999, 6, 363-378.	1.4	171
22	Implicit and explicit categorization: A tale of four species. Neuroscience and Biobehavioral Reviews, 2012, 36, 2355-2369.	2.9	163
23	Disrupting feedback processing interferes with rule-based but not information-integration category learning. Memory and Cognition, 2004, 32, 582-591.	0.9	154
24	Learning robust cortico-cortical associations with the basal ganglia: An integrative review. Cortex, 2015, 64, 123-135.	1.1	147
25	FROST: A Distributed Neurocomputational Model of Working Memory Maintenance. Journal of Cognitive Neuroscience, 2005, 17, 1728-1743.	1.1	117
26	Pigeonsâ€™ categorization may be exclusively nonanalytic. Psychonomic Bulletin and Review, 2011, 18, 414-421.	1.4	95
27	11. The effects of positive affect and arousal on working memory and executive attention. Advances in Consciousness Research, 2002, , 245-287.	0.2	94
28	Subitizing: Magical numbers or mere superstition?. Psychological Research, 1992, 54, 80-90.	1.0	84
29	Spatiotemporal activity estimation for multivoxel pattern analysis with rapid event-related designs. NeuroImage, 2012, 62, 1429-1438.	2.1	77
30	The Role of the Basal Ganglia in Category Learning. Psychology of Learning and Motivation - Advances in Research and Theory, 2006, 46, 1-36.	0.5	72
31	Cortical and striatal contributions to automaticity in information-integration categorization. NeuroImage, 2011, 56, 1791-1802.	2.1	72
32	Categorization response time with multidimensional stimuli. Perception & Psychophysics, 1994, 55, 11-27.	2.3	67
33	Implicit and explicit category learning by macaques (Macaca mulatta) and humans (Homo sapiens).. Journal of Experimental Psychology, 2010, 36, 54-65.	1.9	66
34	Evidence for Cortical Automaticity in Rule-Based Categorization. Journal of Neuroscience, 2010, 30, 14225-14234.	1.7	66
35	Is subitizing a unique numerical ability?. Perception & Psychophysics, 1991, 50, 555-564.	2.3	64
36	Automaticity in rule-based and information-integration categorization. Attention, Perception, and Psychophysics, 2010, 72, 1013-1031.	0.7	63

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37	Suboptimality in human categorization and identification.. Journal of Experimental Psychology: General, 2001, 130, 77-96.	1.5	59
38	The Neurobiology of Category Learning. Behavioral and Cognitive Neuroscience Reviews, 2004, 3, 101-113.	3.9	57
39	Deferred Feedback Sharply Dissociates Implicit and Explicit Category Learning. Psychological Science, 2014, 25, 447-457.	1.8	57
40	A Computational Model of How Cholinergic Interneurons Protect Striatal-dependent Learning. Journal of Cognitive Neuroscience, 2011, 23, 1549-1566.	1.1	51
41	Automaticity and multiple memory systems. Wiley Interdisciplinary Reviews: Cognitive Science, 2012, 3, 363-376.	1.4	50
42	Category learning deficits in Parkinson's disease. Neuropsychology, 2003, 17, 115-24.	1.0	50
43	A role for the perceptual representation memory system in category learning. Perception & Psychophysics, 2008, 70, 983-999.	2.3	46
44	A tutorial on computational cognitive neuroscience: Modeling the neurodynamics of cognition. Journal of Mathematical Psychology, 2011, 55, 273-289.	1.0	46
45	Perceptual sampling of orthogonal straight line features. Psychological Research, 1981, 43, 259-275.	1.0	45
46	Testing the assumptions of exponential, additive reaction time models. Memory and Cognition, 1982, 10, 125-134.	0.9	44
47	The effects of positive versus negative feedback on information-integration category learning. Perception & Psychophysics, 2007, 69, 865-878.	2.3	44
48	Analogical transfer in perceptual categorization. Memory and Cognition, 2012, 40, 434-449.	0.9	44
49	Category label and response location shifts in category learning. Psychological Research, 2010, 74, 219-236.	1.0	43
50	Interactions between declarative and procedural-learning categorization systems. Neurobiology of Learning and Memory, 2010, 94, 1-12.	1.0	43
51	Estimating the parameters of multidimensional signal detection theory from simultaneous ratings on separate stimulus components. Perception & Psychophysics, 1988, 44, 195-204.	2.3	41
52	Implicit and explicit category learning by capuchin monkeys (Cebus apella).. Journal of Comparative Psychology (Washington, D C: 1983), 2012, 126, 294-304.	0.3	41
53	Multiple Systems of Perceptual Category Learning. , 2017, , 157-188.		41
54	Response time distributions in multidimensional perceptual categorization. Perception & Psychophysics, 1998, 60, 620-637.	2.3	40

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55	Response processes in informationâ€“integration category learning. Neurobiology of Learning and Memory, 2008, 90, 330-338.	1.0	39
56	A neural interpretation of exemplar theory.. Psychological Review, 2017, 124, 472-482.	2.7	38
57	The effects of category overlap on information-integration and rule-based category learning. Perception & Psychophysics, 2006, 68, 1013-1026.	2.3	33
58	Initial Training With Difficult Items Facilitates Information Integration, but Not Rule-Based Category Learning. Psychological Science, 2008, 19, 1169-1177.	1.8	33
59	Multiple stages of learning in perceptual categorization: evidence and neurocomputational theory. Psychonomic Bulletin and Review, 2015, 22, 1598-1613.	1.4	32
60	General recognition theory with individual differences: a new method for examining perceptual and decisional interactions with an application to face perception. Psychonomic Bulletin and Review, 2015, 22, 88-111.	1.4	32
61	A neurocomputational account of cognitive deficits in Parkinson's disease. Neuropsychologia, 2012, 50, 2290-2302.	0.7	31
62	Neural networks underlying the metacognitive uncertainty response. Cortex, 2015, 71, 306-322.	1.1	28
63	The Neuropsychological Bases of Category Learning. Current Directions in Psychological Science, 2000, 9, 10-14.	2.8	25
64	Multiple attention systems in perceptual categorization. Memory and Cognition, 2002, 30, 325-339.	0.9	25
65	Learning and transfer of category knowledge in an indirect categorization task. Psychological Research, 2012, 76, 292-303.	1.0	25
66	Erasing the engram: The unlearning of procedural skills.. Journal of Experimental Psychology: General, 2013, 142, 710-741.	1.5	25
67	Single versus multiple systems of category learning: Reply to Nosofsky and Kruschke (2002). Psychonomic Bulletin and Review, 2002, 9, 175-180.	1.4	24
68	Simulating category learning and set shifting deficits in patients weight-restored from anorexia nervosa.. Neuropsychology, 2014, 28, 741-751.	1.0	23
69	Categorization training increases the perceptual separability of novel dimensions. Cognition, 2015, 139, 105-129.	1.1	22
70	Brain activity across the development of automatic categorization: A comparison of categorization tasks using multi-voxel pattern analysis. NeuroImage, 2013, 71, 284-297.	2.1	21
71	Is state-trace analysis an appropriate tool for assessing the number of cognitive systems?. Psychonomic Bulletin and Review, 2014, 21, 935-946.	1.4	21
72	Differential effects of dopamine-directed treatments on cognition. Neuropsychiatric Disease and Treatment, 2015, 11, 1859.	1.0	21

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73	A test of visual feature sampling independence with orthogonal straight lines. Bulletin of the Psychonomic Society, 1980, 15, 163-166.	0.2	20
74	A model of dopamine modulated cortical activation. Neural Networks, 2003, 16, 973-984.	3.3	20
75	What makes a categorization task difficult?. Perception & Psychophysics, 2002, 64, 570-583.	2.3	19
76	Unsupervised category learning with integral-dimension stimuli. Quarterly Journal of Experimental Psychology, 2012, 65, 1537-1562.	0.6	19
77	Fitting computational models to fMRI data. Behavior Research Methods, 2008, 40, 713-721.	2.3	17
78	Generalization of category knowledge and dimensional categorization in humans (Homo sapiens) and nonhuman primates (Macaca mulatta).. Journal of Experimental Psychology Animal Learning and Cognition, 2015, 41, 322-335.	0.3	17
79	A neurocomputational theory of how explicit learning bootstraps early procedural learning. Frontiers in Computational Neuroscience, 2013, 7, 177.	1.2	16
80	Testing analogical rule transfer in pigeons (Columba livia). Cognition, 2019, 183, 256-268.	1.1	16
81	Dissociations between rule-based and information-integration categorization are not caused by differences in task difficulty. Memory and Cognition, 2020, 48, 541-552.	0.9	16
82	Retinal-specific category learning. Nature Human Behaviour, 2018, 2, 500-506.	6.2	15
83	A probabilistic multidimensional model of location information. Psychological Research, 1994, 56, 66-77.	1.0	14
84	Procedural learning of unstructured categories. Psychonomic Bulletin and Review, 2012, 19, 1202-1209.	1.4	14
85	Procedural learning during declarative control.. Journal of Experimental Psychology: Learning Memory and Cognition, 2015, 41, 1388-1403.	0.7	14
86	The relative sensitivities of same-different and identification judgment models to perceptual dependence. Psychometrika, 1993, 58, 257-279.	1.2	13
87	Expanding the role of striatal cholinergic interneurons and the midbrain dopamine system in appetitive instrumental conditioning. Journal of Neurophysiology, 2016, 115, 240-254.	0.9	13
88	Testing Separability and Independence of Perceptual Dimensions with General Recognition Theory: A Tutorial and New R Package (grtools). Frontiers in Psychology, 2017, 8, 696.	1.1	13
89	The role of feedback contingency in perceptual category learning.. Journal of Experimental Psychology: Learning Memory and Cognition, 2016, 42, 1731-1746.	0.7	13
90	Perceptual category learning and visual processing: An exercise in computational cognitive neuroscience. Neural Networks, 2017, 89, 31-38.	3.3	12

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91	A THURSTONE-COOMBS MODEL OF CONCURRENT RATINGS WITH SENSORY AND LIKING DIMENSIONS. Journal of Sensory Studies, 2002, 17, 43-59.	0.8	11
92	The Prep statistic as a measure of confidence in model fitting. Psychonomic Bulletin and Review, 2008, 15, 16-27.	1.4	11
93	What is automatized during perceptual categorization?. Cognition, 2016, 154, 22-33.	1.1	11
94	Linking signal detection theory and encoding models to reveal independent neural representations from neuroimaging data. PLoS Computational Biology, 2018, 14, e1006470.	1.5	10
95	Informationâ€“integration category learning and the human uncertainty response. Memory and Cognition, 2011, 39, 536-554.	0.9	9
96	A computational model of the temporal dynamics of plasticity in procedural learning: sensitivity to feedback timing. Frontiers in Psychology, 2014, 5, 643.	1.1	9
97	Dissociable changes in functional network topology underlie early category learning and development of automaticity. NeuroImage, 2016, 141, 220-241.	2.1	9
98	Trial-by-trial switching between procedural and declarative categorization systems. Psychological Research, 2018, 82, 371-384.	1.0	9
99	Comparing the biased choice model and multidimensional decision bound models of identification. Mathematical Social Sciences, 1992, 23, 175-197.	0.3	8
100	Novel representations that support rule-based categorization are acquired on-the-fly during category learning. Psychological Research, 2019, 83, 544-566.	1.0	8
101	Dopamine dependence in aggregate feedback learning: A computational cognitive neuroscience approach. Brain and Cognition, 2016, 109, 1-18.	0.8	7
102	State-trace analysis misinterpreted and misapplied: Reply to Stephens, Matzke, and Hayes (2019). Journal of Mathematical Psychology, 2019, 91, 195-200.	1.0	7
103	A neurocomputational model of automaticity and maintenance of abstract rules. , 2009, , .		5
104	Declarative strategies persist under increased cognitive load. Psychonomic Bulletin and Review, 2016, 23, 213-222.	1.4	5
105	Hierarchical control of procedural and declarative category-learning systems. NeuroImage, 2017, 150, 150-161.	2.1	5
106	A neurocomputational theory of how rule-guided behaviors become automatic.. Psychological Review, 2021, 128, 488-508.	2.7	5
107	A difficulty predictor for perceptual category learning. Journal of Vision, 2019, 19, 20.	0.1	4
108	Quantitative modeling of category learning deficits in various patient populations.. Neuropsychology, 2017, 31, 862-876.	1.0	4

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109	Dynamical trajectories in category learning. Perception & Psychophysics, 2004, 66, 1318-1340.	2.3	3
110	When instructions don't help: Knowing the optimal strategy facilitates rule-based but not information-integration category learning.. Journal of Experimental Psychology: Human Perception and Performance, 2021, 47, 1226-1236.	0.7	3
111	Resurrecting Information Theory. American Journal of Psychology, 1995, 108, 609.	0.5	2
112	Response-mode shifts during sequence learning of macaque monkeys. Psychological Research, 2013, 77, 223-233.	1.0	2
113	Linear separability, irrelevant variability, and categorization difficulty.. Journal of Experimental Psychology: Learning Memory and Cognition, 2022, 48, 159-172.	0.7	2
114	State trace analysis: What it can and cannot do. Journal of Mathematical Psychology, 2022, 108, 102655.	1.0	2
115	A role for the medial temporal lobes in category learning. Learning and Memory, 2020, 27, 441-450.	0.5	0
116	Modulation of Dopamine for Adaptive Learning: a Neurocomputational Model. Computational Brain & Behavior, 2021, 4, 34-52.	0.9	0
117	On what it means to automatize a rule. Cognition, 2022, 226, 105168.	1.1	0