Christopher B Sturdy

List of Publications by Year
in descending order

115	2,426	218677	243625
papers	citations	26 h-index	44 g-index

116	116	116	1633
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sometimes slower is better: slow-exploring birds are more sensitive to changes in a vocal discrimination task. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 767-773.	2.6	186
2	Exploration of a novel space is associated with individual differences in learning speed in black-capped chickadees, Poecile atricapillus. Behavioural Processes, 2009, 82, 265-270.	1.1	141
3	Anthropogenic noise decreases urban songbird diversity and may contribute to homogenization. Global Change Biology, 2013, 19, 1075-1084.	9.5	135
4	Spatial encoding in mountain chickadees: features overshadow geometry. Biology Letters, 2005, 1, 314-317.	2.3	105
5	Humans recognize emotional arousal in vocalizations across all classes of terrestrial vertebrates: evidence for acoustic universals. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170990.	2.6	93
6	Individual differences in learning speed, performance accuracy and exploratory behaviour in black-capped chickadees. Animal Cognition, 2015, 18, 165-178.	1.8	88
7	Note types and coding in parid vocalizations. I: The chick-a-dee call of the black-capped chickadee (Poecile atricapillus). Canadian Journal of Zoology, 2004, 82, 769-779.	1.0	76
8	Call-based species recognition in black-capped chickadees. Behavioural Processes, 2005, 70, 271-281.	1.1	62
9	Reduced social contact causes auditory perceptual deficits in zebra finches, Taeniopygia guttata. Animal Behaviour, 2001, 62, 1207-1218.	1.9	54
10	A behavior analysis of absolute pitch: sex, experience, and species. Behavioural Processes, 2004, 66, 289-307.	1.1	47
11	Frequencyâ€“range discriminations: Special and general abilities in zebra finches (Taeniopygia guttata) and humans (Homo sapiens).. Journal of Comparative Psychology (Washington, D C: 1983), 1998, 112, 244-258.	0.5	45
12	Note types, harmonic structure, and note order in the songs of zebra finches (Taeniopygia guttata).. Journal of Comparative Psychology (Washington, D C: 1983), 1999, 113, 194-203.	0.5	43
13	Dominance signalled in an acoustic ornament. Animal Behaviour, 2010, 79, 657-664.	1.9	43
14	Note types and coding in parid vocalizations. III: The chick-a-dee call of the Carolina chickadee (Poecile carolinensis). Canadian Journal of Zoology, 2005, 83, 820-833.	1.0	41
15	Note types and coding in parid vocalizations. II: The chick-a-dee call of the mountain chickadee (Poecile) Tj ETQq1 1 0.784314 rgBT /Ov	1.0	38
16	Song-note discriminations in zebra finches (Taeniopygia guttata): Categories and pseudocategories.. Journal of Comparative Psychology (Washington, D C: 1983), 1999, 113, 204-212.	0.5	37
17	Call-note discriminations in black-capped chickadees (Poecile atricapillus).. Journal of Comparative Psychology (Washington, D C: 1983), 2000, 114, 357-364.	0.5	37
18	Water-soluble photoluminescent <scp>d</scp>-mannose and <scp>l</scp>-alanine functionalized silicon nanocrystals and their application to cancer cell imaging. Journal of Materials Chemistry B, 2014, 2, 8427-8433.	5.8	37

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19	Differential effects of vocalization type, singer and listener on ZENK immediate early gene response in black-capped chickadees (Poecile atricapillus). Behavioural Brain Research, 2008, 188, 201-208.	2.2	36
20	Neural Correlates of Threat Perception: Neural Equivalence of Conspecific and Heterospecific Mobbing Calls Is Learned. PLoS ONE, 2011, 6, e23844.	2.5	36
21	Rationale and methodology for testing auditory cognition in songbirds. Behavioural Processes, 2006, 72, 265-272.	1.1	34
22	Female song in black-capped chickadees (Poecile atricapillus): Acoustic song features that contain individual identity information and sex differences. Behavioural Processes, 2013, 98, 98-105.	1.1	32
23	Discrimination of individual vocalizations by black-capped chickadees (Poecile atricapilla). Learning and Behavior, 2002, 30, 43-52.	3.4	30
24	Does reduced social contact affect discrimination of distance cues and individual vocalizations?. Animal Behaviour, 2003, 65, 911-922.	1.9	30
25	Comparing black-capped (Poecile atricapillus) and mountain chickadees (Poecile gambeli): use of geometric and featural information in a spatial orientation task. Animal Cognition, 2009, 12, 633-641.	1.8	30
26	Flexibility in Animal Signals Facilitates Adaptation to Rapidly Changing Environments. PLoS ONE, 2011, 6, e25413.	2.5	29
27	Open-ended categorization of chick-a-dee calls by black-capped chickadees (Poecile atricapilla).. Journal of Comparative Psychology (Washington, D C: 1983), 2003, 117, 290-301.	0.5	27
28	Blackâ€capped chickadees Poecile atricapillus sing at higher pitches with elevated anthropogenic noise, but not with decreasing canopy cover. Journal of Avian Biology, 2012, 43, 325-332.	1.2	27
29	All â€œchick-a-deeâ€•calls are not created equally. Behavioural Processes, 2008, 77, 87-99.	1.1	26
30	Seasonal and diurnal patterns of black-capped chickadee (Poecile atricapillus) vocal production. Behavioural Processes, 2008, 77, 149-155.	1.1	26
31	A bird's eye view: top down intracellular analyses of auditory selectivity for learned vocalizations. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2002, 188, 879-895.	1.6	25
32	All â€œchick-a-deeâ€•calls are not created equally. Behavioural Processes, 2008, 77, 73-86.	1.1	25
33	Pitch chroma discrimination, generalization, and transfer tests of octave equivalence in humans. Attention, Perception, and Psychophysics, 2012, 74, 1742-1760.	1.3	24
34	Acoustic Mechanisms of Note-Type Perception in Black-Capped Chickadee (Poecile atricapillus) Calls.. Journal of Comparative Psychology (Washington, D C: 1983), 2005, 119, 371-380.	0.5	24
35	Using an artificial neural network to classify black-capped chickadee (Poecile atricapillus) call note types. Journal of the Acoustical Society of America, 2006, 119, 3161-3172.	1.1	23
36	Chickadees fail standardized operant tests for octave equivalence. Animal Cognition, 2013, 16, 599-609.	1.8	21

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37	ZENK Activation in the Nidopallium of Black-Capped Chickadees in Response to Both Conspecific and Heterospecific Calls. PLoS ONE, 2014, 9, e100927.	2.5	21
38	Artificial neural network discrimination of black-capped chickadee (Poecile atricapillus) call notes. Journal of the Acoustical Society of America, 2006, 120, 1111-1117.	1.1	20
39	Individual differences and repeatability in vocal production: stress-induced calling exposes a songbird's personality. Die Naturwissenschaften, 2011, 98, 977-981.	1.6	20
40	Biological relevance of acoustic signal affects discrimination performance in a songbird. Animal Cognition, 2012, 15, 677-688.	1.8	20
41	When is a choice not a choice? Pigeons fail to inhibit incorrect responses on a go/no-go midsession reversal task.. Journal of Experimental Psychology Animal Learning and Cognition, 2015, 41, 255-265.	0.5	19
42	Mechanisms of call note-type perception in black-capped chickadees (Poecile atricapillus): Peak shift in a note-type continuum.. Journal of Comparative Psychology (Washington, D C: 1983), 2010, 124, 109-115.	0.5	18
43	Black-capped chickadee (Poecile atricapillus) and human (Homo sapiens) chord discrimination.. Journal of Comparative Psychology (Washington, D C: 1983), 2012, 126, 57-67.	0.5	18
44	Discrimination of auditory distance cues by black-capped chickadees (Poecile atricapillus) and zebra finches (Taeniopygia guttata).. Journal of Comparative Psychology (Washington, D C: 1983), 1998, 112, 282-291.	0.5	17
45	Frequency-range discriminations and absolute pitch in black-capped chickadees (Poecile atricapillus), mountain chickadees (Poecile gambeli), and zebra finches (Taeniopygia guttata).. Journal of Comparative Psychology (Washington, D C: 1983), 2006, 120, 217-228.	0.5	17
46	Predicting shifts in generalization gradients with perceptrons. Learning and Behavior, 2012, 40, 128-144.	1.0	17
47	Mitigating road impacts on animals through learning principles. Animal Cognition, 2017, 20, 19-31.	1.8	17
48	Black-capped (Poecile atricapillus) and mountain chickadee (Poecile gambeli) contact call contains species, sex, and individual identity features. Journal of the Acoustical Society of America, 2010, 127, 1116-1123.	1.1	16
49	Statistical classification of black-capped (Poecile atricapillus) and mountain chickadee (Poecile) Tj ETQq1 1 0.784314 rgBT /Overlock	0.5	15
50	Absolute pitch in boreal chickadees and humans: Exceptions that test a phylogenetic rule. Learning and Motivation, 2010, 41, 156-173.	1.2	15
51	Fast- and slow-exploring pigeons differ in how they use previously learned rules. Behavioural Processes, 2017, 134, 54-62.	1.1	15
52	Habitat Quality Affects Early Physiology and Subsequent Neuromotor Development of Juvenile Black-Capped Chickadees. PLoS ONE, 2013, 8, e71852.	2.5	15
53	Chickadee vocal production and perception: An integrative approach to understanding acoustic communication. , 2007, , 153-166.		14
54	Categorization and discrimination of â€œchick-a-deeâ€•calls by wild-caught and hand-reared chickadees. Behavioural Processes, 2008, 77, 166-176.	1.1	13

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55	Note types and coding in Parid vocalizations: The chick-a-dee call of the chestnut-backed chickadee (Poecile rufuscens). Journal of the Acoustical Society of America, 2009, 126, 2088-2099.	1.1	12
56	Dominance and geographic information contained within black-capped chickadee (PoecileÂatricapillus)Âsong. Behaviour, 2013, 150, 1601-1622.	0.8	12
57	It's All a Matter of Time: Interval Timing and Competition for Stimulus Control. Comparative Cognition and Behavior Reviews, 0, 12, 83-103.	2.0	12
58	The Comparative Psychology of Absolute Pitch. , 2009, , 71-86.		11
59	Acoustic transmission of the chick-a-dee call of the Black-capped Chickadee (Poecile atricapillus): forest structure and note function. Canadian Journal of Zoology, 2010, 88, 788-794.	1.0	10
60	Biological salience influences performance and acoustic mechanisms for the discrimination of male and female songs. Animal Behaviour, 2015, 104, 213-228.	1.9	10
61	Pigeons perform poorly on a midsession reversal task without rigid temporal regularity. Animal Cognition, 2016, 19, 855-859.	1.8	10
62	Seasonal variation of vocal behaviour in a temperate songbird: Assessing the effects of laboratory housing on wild-caught, seasonally breeding birds. Behavioural Processes, 2011, 88, 177-183.	1.1	9
63	Intratrial proactive interference in ratsâ€™ serial alternation performance in the radial maze. Learning and Behavior, 1996, 24, 300-309.	3.4	8
64	Acoustic Mechanisms of a Species-Based Discrimination of the chick-a-dee Call in Sympatric Black-Capped (Poecile atricapillus) and Mountain Chickadees (P. gambeli). Frontiers in Psychology, 2010, 1, 229.	2.1	8
65	Note Types and Coding in Parid Vocalizations: Thechick-a-deeCall of the Mexican ChickadeePoecile sclateri. Acta Ornithologica, 2010, 45, 147-160.	0.5	8
66	Auditory Same/Different Concept Learning and Generalization in Black-Capped Chickadees (Poecile) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.5	8
67	Commentary: A crisis in comparative psychology: where have all the undergraduates gone?. Frontiers in Psychology, 2015, 6, 1589.	2.1	8
68	Experience affects immediate early gene expression in response to conspecific call notes in black-capped chickadees (Poecile atricapillus). Behavioural Brain Research, 2015, 287, 49-58.	2.2	8
69	An investigation of sex differences in acoustic features in black-capped chickadee (Poecile) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.1	8
70	How Much of Language Acquisition Does Operant Conditioning Explain?. Frontiers in Psychology, 2017, 8, 1918.	2.1	8
71	Bird communication: Two voices are better than one. Current Biology, 2000, 10, R634-R636.	3.9	7
72	The effect of schedules of reinforcement on the composition of spontaneous and evoked black-capped chickadee calls. Journal of Experimental Biology, 2009, 212, 3016-3025.	1.7	7

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73	Heterospecific discrimination of Poecile vocalizations by zebra finches (Taeniopygia guttata).. Journal of Comparative Psychology (Washington, D C: 1983), 2013, 127, 227-236.	0.5	7
74	Timbre influences chord discrimination in black-capped chickadees (Poecile atricapillus) but not humans (Homo sapiens).. Journal of Comparative Psychology (Washington, D C: 1983), 2014, 128, 387-401.	0.5	7
75	ZENK expression following conspecific and heterospecific playback in the zebra finch auditory forebrain. Behavioural Brain Research, 2017, 331, 151-158.	2.2	7
76	Seasonal variability in habitat structure may have shaped acoustic signals and repertoires in the black-capped and boreal chickadees. Evolutionary Ecology, 2018, 32, 57-74.	1.2	7
77	The effects of anthropogenic noise on feeding behaviour in black-capped chickadees (Poecile) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.1	7
78	Hear them roar: A comparison of black-capped chickadee (Poecile atricapillus) and human (Homo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 of Comparative Psychology (Washington, D C: 1983), 2019, 133, 520-541.	0.5	7
79	A social call. Nature, 2004, 430, 414-414.	27.8	6
80	Note types and coding in Parid vocalizations: Thechick-a-deecall of the boreal chickadee (Poecile hudsonicus). Journal of the Acoustical Society of America, 2011, 129, 3327-3340.	1.1	6
81	Development of a contact call in black-capped chickadees (Poecile atricapillus) hand-reared in different acoustic environments. Journal of the Acoustical Society of America, 2011, 130, 2249-2256.	1.1	6
82	Avian cognition: examples of sophisticated capabilities in space and song. Wiley Interdisciplinary Reviews: Cognitive Science, 2015, 6, 285-297.	2.8	6
83	Black-capped chickadees categorize songs based on features that vary geographically. Animal Behaviour, 2016, 112, 93-104.	1.9	6
84	Chickadees discriminate contingency reversals presented consistently, but not frequently. Animal Cognition, 2017, 20, 655-663.	1.8	6
85	Identifying absolute pitch possessors without using a note-naming task.. Psychomusicology: Music, Mind and Brain, 2012, 22, 46-54.	0.3	5
86	A comparative analysis of auditory perception in humans and songbirds: A modular approach. Behavioural Processes, 2014, 104, 35-43.	1.1	5
87	Using network models of absolute pitch to compare frequency-range discriminations across avian species. Behavioural Processes, 2010, 84, 421-427.	1.1	4
88	Abcam Monoclonal Egr-1 ab133695 is an effective primary antibody replacement for Santa Cruz sc-189 polyclonal Egr-1 in songbirds. Heliyon, 2019, 5, e02938.	3.2	4
89	Black-capped Chickadees (Poecile atricapillus) can identify individual females by their fee-bee songs. Auk, 2020, 137, .	1.4	4
90	Acoustic discrimination of predators by black-capped chickadees (Poecile atricapillus). Animal Cognition, 2020, 23, 595-611.	1.8	4

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91	Among-individual differences in auditory and physical cognitive abilities in zebra finches. Learning and Behavior, 2022, 50, 389-404.	1.0	4
92	Physical condition of Black-capped Chickadees (Poecile atricapillus) in relation to road disturbance. Canadian Journal of Zoology, 2013, 91, 842-845.	1.0	3
93	ZENK expression in the auditory pathway of black-capped chickadees (Poecile atricapillus) as a function of D note number and duty cycle of chick-a-dee calls. Behavioural Brain Research, 2019, 356, 490-494.	2.2	3
94	The impact of anthropogenic noise on individual identification via female song in Black-capped chickadees (Poecile atricapillus). Scientific Reports, 2021, 11, 17530.	3.3	3
95	Can you hear me now? The effect of signal degradation on perceived predator threat in black-capped chickadees (Poecile atricapillus). Animal Cognition, 2021, 24, 193-204.	1.8	3
96	Pitch chroma information is processed in addition to pitch height information with more than two pitch-range categories. Attention, Perception, and Psychophysics, 2022, 84, 1757-1771.	1.3	3
97	Feature weighting in â€œchick-a-deeâ€•call notes of Poecile atricapillus. Journal of the Acoustical Society of America, 2007, 122, 2451-2458.	1.1	2
98	Hearing is believing: Birds learn fear. Learning and Behavior, 2016, 44, 205-206.	1.0	2
99	Discrimination of male black-capped chickadee songs: relationship between acoustic preference and performance accuracy. Animal Behaviour, 2017, 126, 107-121.	1.9	2
100	Discrimination of acoustically similar conspecific and heterospecific vocalizations by black-capped chickadees (Poecile atricapillus). Animal Cognition, 2017, 20, 639-654.	1.8	2
101	SYNOPSIS III: Complexities in vocal communication. , 2007, , 235-240.		2
102	Individual acoustic differences in female black-capped chickadee (poecile atricapillus) fee-bee songs. Journal of the Acoustical Society of America, 2021, 150, 3038-3046.	1.1	2
103	Passerine Vocal Communication. , 2017, , 1-7.		2
104	Avian Vocal Perception: Bioacoustics and Perceptual Mechanisms. , 2017, , 270-295.		1
105	Mechanisms of Communication and Cognition in Chickadees. Advances in the Study of Behavior, 2017, 49, 147-197.	1.6	1
106	New Perspectives on Absolute Pitch in Birds and Mammals. , 2012, , .		1
107	Comparing methodologies for classification of zebra finch distance calls. Journal of the Acoustical Society of America, 2022, 151, 3305-3314.	1.1	1
108	Thinking outside the box: A tribute to the contributions of Ronald G. Weisman. Behavioural Processes, 2008, 77, 139-141.	1.1	0

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109	Sometimes a stick might just be a stick. Learning and Behavior, 2019, 47, 115-116.	1.0	0
110	Differential immediate early gene activity revealed by playback of male and female incomplete chick-a-dee calls. Behavioural Brain Research, 2020, 393, 112775.	2.2	0
111	Corrigendum to: Black-capped Chickadees (Poecile atricapillus) can identify individual females by their fee-bee songs. Auk, 2021, 138, .	1.4	0
112	Ronald Weisman. , 2017, , 1-4.		0
113	Unifying psychological and biological approaches to understanding animal cognition.. Canadian Journal of Experimental Psychology, 2020, 74, 157-159.	0.8	0
114	Ronald Weisman. , 2022, , 6125-6128.		0
115	Passerine Vocal Communication. , 2022, , 5071-5077.		0