

Ofer Tchernichovski

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

3,281
citations

218677

26
h-index

223800

46
g-index

56
all docs

56
docs citations

56
times ranked

1814
citing authors

#	ARTICLE	IF	CITATIONS
1	A procedure for an automated measurement of song similarity. <i>Animal Behaviour</i> , 2000, 59, 1167-1176.	1.9	642
2	Dynamics of the Vocal Imitation Process: How a Zebra Finch Learns Its Song. <i>Science</i> , 2001, 291, 2564-2569.	12.6	445
3	How sleep affects the developmental learning of bird song. <i>Nature</i> , 2005, 433, 710-716.	27.8	285
4	De novo establishment of wild-type song culture in the zebra finch. <i>Nature</i> , 2009, 459, 564-568.	27.8	251
5	Stepwise acquisition of vocal combinatorial capacity in songbirds and human infants. <i>Nature</i> , 2013, 498, 104-108.	27.8	177
6	Vocal imitation in zebra finches is inversely related to model abundance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 12901-12904.	7.1	125
7	The dynamics of long-term exploration in the rat. <i>Biological Cybernetics</i> , 1998, 78, 423-432.	1.3	103
8	Social inhibition of song imitation among sibling male zebra finches. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 8951-8956.	7.1	94
9	The Forebrain Song System Mediates Predictive Call Timing in Female and Male Zebra Finches. <i>Current Biology</i> , 2016, 26, 309-318.	3.9	91
10	Studying the Song Development Process: Rationale and Methods. <i>Annals of the New York Academy of Sciences</i> , 2004, 1016, 348-363.	3.8	82
11	Functional MRI of the zebra finch brain during song stimulation suggests a lateralized response topography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 10667-10672.	7.1	75
12	A phase plane representation of rat exploratory behavior. <i>Journal of Neuroscience Methods</i> , 1995, 62, 21-27.	2.5	69
13	Songbirds work around computational complexity by learning song vocabulary independently of sequence. <i>Nature Communications</i> , 2017, 8, 1247.	12.8	56
14	Investigation of musicality in birdsong. <i>Hearing Research</i> , 2014, 308, 71-83.	2.0	49
15	A Modular Approach to Vocal Learning: Disentangling the Diversity of a Complex Behavioral Trait. <i>Neuron</i> , 2019, 104, 87-99.	8.1	47
16	Vocal Exploration Is Locally Regulated during Song Learning. <i>Journal of Neuroscience</i> , 2012, 32, 3422-3432.	3.6	46
17	Quantification of developmental birdsong learning from the subsyllabic scale to cultural evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15572-15579.	7.1	45
18	Context determines the sex appeal of male zebra finch song. <i>Animal Behaviour</i> , 1998, 55, 1003-1010.	1.9	43

#	ARTICLE	IF	CITATIONS
19	Categorical Rhythms Are Shared between Songbirds and Humans. <i>Current Biology</i> , 2020, 30, 3544-3555.e6.	3.9	39
20	The development of stimulus-specific auditory responses requires song exposure in male but not female zebra finches. <i>Developmental Neurobiology</i> , 2010, 70, 28-40.	3.0	36
21	A rhythm landscape approach to the developmental dynamics of birdsong. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150802.	3.4	34
22	Statistical learning in songbirds: from self-tutoring to song culture. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160053.	4.0	34
23	Constraints and the Emergence of 'Free' Exploratory Behavior in Rat Ontogeny. <i>Behaviour</i> , 1996, 133, 519-539.	0.8	33
24	Regularities in zebra finch song beyond the repeated motif. <i>Behavioural Processes</i> , 2019, 163, 53-59.	1.1	33
25	Vocal learning beyond imitation: mechanisms of adaptive vocal development in songbirds and human infants. <i>Current Opinion in Neurobiology</i> , 2014, 28, 42-47.	4.2	32
26	Song Development: In Search of the Error-Signal. <i>Annals of the New York Academy of Sciences</i> , 2004, 1016, 364-376.	3.8	30
27	The dynamics of long term exploration in the rat. <i>Biological Cybernetics</i> , 1998, 78, 433-440.	1.3	26
28	Towards quantification of vocal imitation in the zebra finch. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2002, 188, 867-878.	1.6	26
29	Finding the Beat: From Socially Coordinated Vocalizations in Songbirds to Rhythmic Entrainment in Humans. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 255.	2.0	23
30	Birdsong Learning and Culture: Analogies with Human Spoken Language. <i>Annual Review of Linguistics</i> , 2021, 7, 449-472.	2.3	22
31	Social influences on song learning. <i>Current Opinion in Behavioral Sciences</i> , 2016, 7, 101-107.	3.9	21
32	Neurons of imitation. <i>Nature</i> , 2008, 451, 249-250.	27.8	20
33	Sexual dimorphism in striatal dopaminergic responses promotes monogamy in social songbirds. <i>ELife</i> , 2017, 6, .	6.0	20
34	Balanced imitation sustains song culture in zebra finches. <i>Nature Communications</i> , 2021, 12, 2562.	12.8	19
35	How social learning adds up to a culture: from birdsong to human public opinion. <i>Journal of Experimental Biology</i> , 2017, 220, 124-132.	1.7	17
36	Marmoset kids actually listen. <i>Science</i> , 2015, 349, 688-689.	12.6	15

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37	Temporal regularity increases with repertoire complexity in the Australian pied butcherbird's song. Royal Society Open Science, 2016, 3, 160357.	2.4	15
38	miR-9 regulates basal ganglia-dependent developmental vocal learning and adult vocal performance in songbirds. ELife, 2018, 7, .	6.0	13
39	Keeping the Body Straight in the Unconstrained Locomotion of Normal and Dopamine-Stimulant-Treated Rats. Journal of Motor Behavior, 1997, 29, 99-112.	0.9	8
40	Vocal Development: How Marmoset Infants Express Their Feelings. Current Biology, 2016, 26, R422-R424.	3.9	7
41	Characterizing Animal Behavior through Audio and Video Signal Processing. IEEE MultiMedia, 2007, 14, 32-41.	1.7	6
42	Animal Communication: Origins of Sequential Structure in Birdsong. Current Biology, 2017, 27, R1268-R1269.	3.9	5
43	Crowd wisdom enhanced by costly signaling in a virtual rating system. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7256-7265.	7.1	5
44	Tradeoff Between Distributed Social Learning and Herding Effect in Online Rating Systems. SAGE Open, 2017, 7, 215824401769107.	1.7	4
45	Time Scales of Vocal Learning in Songbirds. , 2013, , 43-60.		3
46	EVOLUTION OF SONG CULTURE IN THE ZEBRA FINCH. , 2008, , .		2
47	Studying the Mechanisms of Developmental Vocal Learning and Adult Vocal Performance in Zebra Finches through Lentiviral Injection. Bio-protocol, 2018, 8, .	0.4	2
48	Encoding vocal culture. Science, 2016, 354, 1234-1235.	12.6	1
49	Multimedia signal processing for behavioral quantification in neuroscience. , 2006, , .		0
50	CONSIDERING LANGUAGE EVOLUTION FROM BIRDSONG DEVELOPMENT. , 2010, , .		0
51	Culture and Learning: Bird Song. , 2019, , 606-614.		0
52	Experimenting With Online Governance. Frontiers in Human Dynamics, 2021, 3, .	1.8	0