Matthew J Fuxjager

List of Publications by Year
in descending order

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73 papers	2,472 citations	201674 27 h-index	233421 45 g-index
78 all docs	78 docs citations	78 times ranked	2226 citing authors

#	Article	IF	Citations
1	Physiological innovation and the evolutionary elaboration of courtship behaviour. Animal Behaviour, 2022, 184, 185-195.	1.9	9
2	Layered evolution of gene expression in â€œsuperfastâ€•muscles for courtship. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119671119.	7.1	11
3	Specialized androgen synthesis in skeletal muscles that actuate elaborate social displays. Journal of Experimental Biology, 2022, 225, .	1.7	5
4	Woodpecker drum evolution: An analysis of covariation in elements of a multicomponent acoustic display among and within species. Evolution; International Journal of Organic Evolution, 2022, 76, 1469-1480.	2.3	4
5	Cost-Reducing Traits for Agonistic Head Collisions: A Case for Neurophysiology. Integrative and Comparative Biology, 2021, 61, 1394-1405.	2.0	3
6	Life history and environment predict variation in testosterone across vertebrates. Evolution; International Journal of Organic Evolution, 2021, 75, 1003-1010.	2.3	11
7	Androgen Receptor Modulates Multimodal Displays in the Bornean Rock Frog (<i>Staurois) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	2.0	10
8	Evolutionary and Biomechanical Basis of Drumming Behavior in Woodpeckers. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	12
9	A Common Endocrine Signature Marks the Convergent Evolution of an Elaborate Dance Display in Frogs. American Naturalist, 2021, 198, 522-539.	2.1	13
10	Neuroendocrine regulation of vocalizations and other sounds in nonsongbirds. , 2021, , 315-326.		3
11	Insight into the Evolution of Anuran Foot Flag Displays: A Comparative Study of Color and Kinematics. Ichthyology and Herpetology, 2021, 109, .	0.8	4
12	Testosterone amplifies the negative valence of an agonistic gestural display by exploiting receiver perceptual bias. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20211848.	2.6	5
13	Evolution of the androgen receptor: Perspectives from human health to dancing birds. Molecular and Cellular Endocrinology, 2020, 499, 110577.	3.2	19
14	Selection for Rhythm as a Trigger for Recursive Evolution in the Elaborate Display System of Woodpeckers. American Naturalist, 2020, 195, 772-787.	2.1	13
15	Dense sampling of bird diversity increases power of comparative genomics. Nature, 2020, 587, 252-257.	27.8	251
16	Baseline and stress-induced corticosterone levels across birds and reptiles do not reflect urbanization levels. , 2020, 8, coz110.		57
17	Sex Steroids as Regulators of Gestural Communication. Endocrinology, 2020, 161, .	2.8	9
18	Androgenic modulation of extraordinary muscle speed creates a performance trade-off with endurance. Journal of Experimental Biology, 2020, 223, .	1.7	14

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19	Phenotypic variation reveals sites of evolutionary constraint in the androgenic signaling pathway. Hormones and Behavior, 2019, 115, 104538.	2.1	19
20	Rapid effects of testosterone on social decision-making in a monogamous California mice (Peromyscus) Tj ETQq0 0 0 rgBT /Overlock 10	2.1	9
21	Phenotypic Diversity Arises from Secondary Signal Loss in the Elaborate Visual Displays of Toucans and Barbets. American Naturalist, 2019, 194, 152-167.	2.1	14
22	Hormonal and Neuromuscular Regulation of Courtship Displays. , 2019, , 428-440.		0
23	Social context modulates how the winner effect restructures territorial behaviour in free-living woodpeckers. Animal Behaviour, 2019, 150, 209-218.	1.9	8
24	Macroevolutionary Patterning in Glucocorticoids Suggests Different Selective Pressures Shape Baseline and Stress-Induced Levels. American Naturalist, 2019, 193, 866-880.	2.1	64
25	Macroevolutionary patterning of woodpecker drums reveals how sexual selection elaborates signals under constraint. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172628.	2.6	37
26	Synergistic selection regimens drive the evolution of display complexity in birds of paradise. Journal of Animal Ecology, 2018, 87, 1149-1159.	2.8	23
27	Evolution of the androgen-induced male phenotype. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2018, 204, 81-92.	1.6	20
28	Insight into the neuroendocrine basis of signal evolution: a case study in foot-flagging frogs. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2018, 204, 61-70.	1.6	10
29	Highâ€speed displays encoding motor skill trigger elevated territorial aggression in downy woodpeckers. Functional Ecology, 2018, 32, 450-460.	3.6	26
30	HormoneBase, a population-level database of steroid hormone levels across vertebrates. Scientific Data, 2018, 5, 180097.	5.3	42
31	Woodpecker drumming behavior is linked to the elevated expression of genes that encode calcium handling proteins in the neck musculature. Journal of Experimental Biology, 2018, 221, .	1.7	11
32	Metabolic Scaling of Stress Hormones in Vertebrates. Integrative and Comparative Biology, 2018, 58, 729-738.	2.0	27
33	IUCN Conservation Status Does Not Predict Glucocorticoid Concentrations in Reptiles and Birds. Integrative and Comparative Biology, 2018, 58, 800-813.	2.0	13
34	Species-Specific Means and Within-Species Variance in Glucocorticoid Hormones and Speciation Rates in Birds. Integrative and Comparative Biology, 2018, 58, 763-776.	2.0	2
35	Do Seasonal Glucocorticoid Changes Depend on Reproductive Investment? A Comparative Approach in Birds. Integrative and Comparative Biology, 2018, 58, 739-750.	2.0	21
36	Androgenic signaling systems and their role in behavioral evolution. Journal of Steroid Biochemistry and Molecular Biology, 2018, 184, 47-56.	2.5	41

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37	Standing Variation and the Capacity for Change: Are Endocrine Phenotypes More Variable Than Other Traits?. Integrative and Comparative Biology, 2018, 58, 751-762.	2.0	13
38	Animal choreography of song and dance: a case study in the Montezuma oropendola, Psarocolius montezuma. Animal Behaviour, 2018, 140, 99-107.	1.9	15
39	Physiological constraint on acrobatic courtship behavior underlies rapid sympatric speciation in bearded manakins. ELife, 2018, 7, .	6.0	25
40	Biogeography predicts macro-evolutionary patterning of gestural display complexity in a passerine family. Evolution; International Journal of Organic Evolution, 2017, 71, 1406-1416.	2.3	14
41	What can animal research tell us about the link between androgens and social competition in humans?. Hormones and Behavior, 2017, 92, 182-189.	2.1	24
42	Neuromuscular mechanisms of an elaborate wing display in the golden-collared manakin (Manacus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.7	11
43	Evolution of Vocal Diversity through Morphological Adaptation without Vocal Learning or Complex Neural Control. Current Biology, 2017, 27, 2677-2683.e3.	3.9	30
44	Androgens Support Male Acrobatic Courtship Behavior by Enhancing Muscle Speed and Easing the Severity of Its Tradeoff With Force. Endocrinology, 2017, 158, 4038-4046.	2.8	30
45	Adaptive evolution of a derived radius morphology in manakins (Aves, Pipridae) to support acrobatic display behavior. Journal of Morphology, 2016, 277, 766-775.	1.2	10
46	Increased androgenic sensitivity in the hind limb muscular system marks the evolution of a derived gestural display. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5664-5669.	7.1	45
47	Expression of 5Î±- and 5Î²-reductase in spinal cord and muscle of birds with different courtship repertoires. Frontiers in Zoology, 2016, 13, 25.	2.0	17
48	The social context of a territorial dispute differentially influences the way individuals in breeding pairs coordinate their aggressive tactics. Behavioral Ecology and Sociobiology, 2016, 70, 673-682.	1.4	27
49	Research Resource: Hormones, Genes, and Athleticism: Effect of Androgens on the Avian Muscular Transcriptome. Molecular Endocrinology, 2016, 30, 254-271.	3.7	37
50	Select forelimb muscles have evolved superfast contractile speed to support acrobatic social displays. ELife, 2016, 5, e13544.	6.0	37
51	Perspectives on the evolution of animal dancing: a case study of manakins. Current Opinion in Behavioral Sciences, 2015, 6, 7-12.	3.9	28
52	Male fidelity expressed through rapid testosterone suppression of ultrasonic vocalizations to novel females in the monogamous California mouse. Hormones and Behavior, 2015, 70, 47-56.	2.1	50
53	Evolutionary patterns of adaptive acrobatics and physical performance predict expression profiles of androgen receptor â€“ but not oestrogen receptor â€“ in the forelimb musculature. Functional Ecology, 2015, 29, 1197-1208.	3.6	55
54	A single testosterone pulse rapidly reduces urinary marking behaviour in subordinate, but not dominant, white-footed mice. Animal Behaviour, 2015, 100, 8-14.	1.9	16

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55	The geomagnetic environment in which sea turtle eggs incubate affects subsequent magnetic navigation behaviour of hatchlings. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141218.	2.6	31
56	Peripheral androgen action helps modulate vocal production in a suboscine passerine. Auk, 2014, 131, 327-334.	1.4	22
57	Expression of androgen receptor in the brain of a sub-oscine bird with an elaborate courtship display. Neuroscience Letters, 2014, 578, 61-65.	2.1	41
58	Physiological control of elaborate male courtship: Female choice for neuromuscular systems. Neuroscience and Biobehavioral Reviews, 2014, 46, 534-546.	6.1	58
59	Hormones and the neuromuscular control of courtship in the golden-collared manakin (Manacus) Tj ETQq1 1 0.784314 rgBT /Overloc	5.2	53
60	Peripheral Androgen Receptors Sustain the Acrobatics and Fine Motor Skill of Elaborate Male Courtship. Endocrinology, 2013, 154, 3168-3177.	2.8	64
61	Spinal Motor and Sensory Neurons Are Androgen Targets in an Acrobatic Bird. Endocrinology, 2012, 153, 3780-3791.	2.8	39
62	Self-deceptionâ€™s adaptive value: Effects of positive thinking and the winner effect. Consciousness and Cognition, 2012, 21, 315-324.	1.5	12
63	Androgens Regulate Gene Expression in Avian Skeletal Muscles. PLoS ONE, 2012, 7, e51482.	2.5	45
64	Orientation of hatchling loggerhead sea turtles to regional magnetic fields along a transoceanic migratory pathway. Journal of Experimental Biology, 2011, 214, 2504-2508.	1.7	45
65	Species differences in the winner effect disappear in response to post-victory testosterone manipulations. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 3497-3503.	2.6	32
66	Functionally opposing effects of testosterone on two different types of parasite: implications for the immunocompetence handicap hypothesis. Functional Ecology, 2011, 25, 132-138.	3.6	55
67	Independent and Additive Contributions of Postvictory Testosterone and Social Experience to the Development of the Winner Effect. Endocrinology, 2011, 152, 3422-3429.	2.8	50
68	Deciding to win: interactive effects of residency, resources and â€˜boldnessâ€™ on contest outcome in white-footed mice. Animal Behaviour, 2010, 80, 921-927.	1.9	26
69	Winning territorial disputes selectively enhances androgen sensitivity in neural pathways related to motivation and social aggression. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12393-12398.	7.1	185
70	How and why the winner effect forms: influences of contest environment and species differences. Behavioral Ecology, 2010, 21, 37-45.	2.2	72
71	Testosterone release and social context: When it occurs and why. Frontiers in Neuroendocrinology, 2009, 30, 460-469.	5.2	222
72	The â€˜home advantageâ€™ is necessary for a full winner effect and changes in post-encounter testosterone. Hormones and Behavior, 2009, 56, 214-219.	2.1	84

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73	Proposing a neural framework for the evolution of elaborate courtship displays. ELife, 0, 11, .	6.0	11