

# Alexander V Badyaev

## List of Publications by Year in descending order

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101  
papers

6,637  
citations

66343

42  
h-index

64796

79  
g-index

104  
all docs

104  
docs citations

104  
times ranked

5633  
citing authors

#	ARTICLE	IF	CITATIONS
1	Turning induced plasticity into refined adaptations during range expansion. <i>Nature Communications</i> , 2020, 11, 3254.	12.8	8
2	Evolutionary transitions in controls reconcile adaptation with continuity of evolution. <i>Seminars in Cell and Developmental Biology</i> , 2019, 88, 36-45.	5.0	7
3	Cycles of external dependency drive evolution of avian carotenoid networks. <i>Nature Communications</i> , 2019, 10, 1596.	12.8	5
4	Structure versus time in the evolutionary diversification of avian carotenoid metabolic networks. <i>Journal of Evolutionary Biology</i> , 2018, 31, 764-772.	1.7	11
5	Emergent buffering balances evolvability and robustness in the evolution of phenotypic flexibility. <i>Evolution; International Journal of Organic Evolution</i> , 2018, 72, 647-662.	2.3	9
6	On the Origins of Adaptive Behavioral Complexity: Developmental Channeling of Structural Trade-offs. <i>Advances in the Study of Behavior</i> , 2018, , 1-36.	1.6	20
7	Extensive phenotypic diversification coexists with little genetic divergence and a lack of population structure in the White Wagtail subspecies complex ( <i>Motacilla alba</i> ). <i>Journal of Evolutionary Biology</i> , 2018, 31, 1093-1108.	1.7	8
8	Most Colorful Example of Genetic Assimilation? Exploring the Evolutionary Destiny of Recurrent Phenotypic Accommodation. <i>American Naturalist</i> , 2017, 190, 266-280.	2.1	28
9	Evolution of long-term coloration trends with biochemically unstable ingredients. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160403.	2.6	12
10	Structuring evolution: biochemical networks and metabolic diversification in birds. <i>BMC Evolutionary Biology</i> , 2016, 16, 168.	3.2	25
11	The Landscape of Evolution: Reconciling Structural and Dynamic Properties of Metabolic Networks in Adaptive Diversifications. <i>Integrative and Comparative Biology</i> , 2016, 56, 235-246.	2.0	12
12	Tradeoff between robustness and elaboration in carotenoid networks produces cycles of avian color diversification. <i>Biology Direct</i> , 2015, 10, 45.	4.6	18
13	Causes of Discordance between Allometries at and above Species Level: An Example with Aquatic Beetles. <i>American Naturalist</i> , 2015, 186, 176-186.	2.1	11
14	Epigenetic resolution of the "curse of complexity"™ in adaptive evolution of complex traits. <i>Journal of Physiology</i> , 2014, 592, 2251-2260.	2.9	28
15	Epigenetic processes and genetic architecture in character origination and evolution. , 2014, , 177-189.		6
16	Defining Epigenetics in Deterministic Terms. <i>BioScience</i> , 2013, 63, 224-227.	4.9	2
17	Gene loss, thermogenesis, and the origin of birds. <i>Annals of the New York Academy of Sciences</i> , 2013, 1289, 36-47.	3.8	33
18	"Homeostatic Hitchhiking": A Mechanism for the Evolutionary Retention of Complex Adaptations. <i>Integrative and Comparative Biology</i> , 2013, 53, 913-922.	2.0	8

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19	Developmental integration of feather growth and pigmentation and its implications for the evolution of diet-derived coloration. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2012, 318B, 59-70.	1.3	8
20	Origin of the fittest: link between emergent variation and evolutionary change as a critical question in evolutionary biology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 1921-1929.	2.6	57
21	Evolution of eggshell structure during rapid range expansion in a passerine bird. <i>Functional Ecology</i> , 2011, 25, 1215-1222.	3.6	19
22	How Do Precise Adaptive Features Arise in Development? Examples with Evolution of Context-Specific Sex Ratios and Perfect Beaks. <i>Auk</i> , 2011, 128, 467-474.	1.4	8
23	Fitness consequences of male provisioning of incubating females in a desert passerine bird. <i>Journal of Ornithology</i> , 2010, 151, 227-233.	1.1	15
24	Developmental plasticity links local adaptation and evolutionary diversification in foraging morphology. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2010, 314B, 434-444.	1.3	30
25	Morphological diversity and ecological similarity: versatility of muscular and skeletal morphologies enables ecological convergence in shrews. <i>Functional Ecology</i> , 2010, 24, 556-565.	3.6	27
26	The beak of the other finch: coevolution of genetic covariance structure and developmental modularity during adaptive evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 1111-1126.	4.0	30
27	The Laws of Evolution and Derived Lawlike Principles. Sacha Haywood . 2007. Hagenia, Oxford. 493 pp. ISBN 9780955740404. Hardcover, \$57.. <i>Auk</i> , 2010, 127, 961-963.	1.4	0
28	Structure of Social Networks in a Passerine Bird: Consequences for Sexual Selection and the Evolution of Mating Strategies. <i>American Naturalist</i> , 2010, 176, E80-E89.	2.1	181
29	Epigenetic regulation of development links adaption and diversification of skeletal phenotypes: a case study in shrews. <i>FASEB Journal</i> , 2010, 24, 61.1.	0.5	0
30	Evolution of maternal effects: past and present. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 1035-1038.	4.0	124
31	Evolutionary significance of phenotypic accommodation in novel environments: an empirical test of the Baldwin effect. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 1125-1141.	4.0	154
32	Parental effects in ecology and evolution: mechanisms, processes and implications. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 1169-1177.	4.0	338
33	Evolution of "determinants" in sex-determination: A novel hypothesis for the origin of environmental contingencies in avian sex-bias. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 304-312.	5.0	35
34	Isolation and characterization of 17 microsatellite loci for the house finch ( <i>Carpodacus</i> )	4.8	1
35	Evolution of Adaptation and Mate Choice: Parental Relatedness Affects Expression of Phenotypic Variance in a Natural Population. <i>Evolutionary Biology</i> , 2008, 35, 111-124.	1.1	11
36	Ecological gradient of sexual selection: elevation and song elaboration in finches. <i>Oecologia</i> , 2008, 157, 545-551.	2.0	29

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37	Meiotic drive and sex determination: molecular and cytological mechanisms of sex ratio adjustment in birds. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 1675-1686.	4.0	135
38	Maternal Effects as Generators of Evolutionary Change. <i>Annals of the New York Academy of Sciences</i> , 2008, 1133, 151-161.	3.8	59
39	EVOLUTION ON A LOCAL SCALE: DEVELOPMENTAL, FUNCTIONAL, AND GENETIC BASES OF DIVERGENCE IN BILL FORM AND ASSOCIATED CHANGES IN SONG STRUCTURE BETWEEN ADJACENT HABITATS. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 1951-1964.	2.3	146
40	Environmental induction and phenotypic retention of adaptive maternal effects. <i>BMC Evolutionary Biology</i> , 2008, 8, 3.	3.2	36
41	Evolution of sex-biased maternal effects in birds. IV. Intra-ovarian growth dynamics can link sex determination and sex-specific acquisition of resources. <i>Journal of Evolutionary Biology</i> , 2008, 21, 449-460.	1.7	36
42	Coupling of dispersal and aggression facilitates the rapid range expansion of a passerine bird. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15017-15022.	7.1	440
43	Developmental evolution of sexual ornamentation: model and a test of feather growth and pigmentation. <i>Integrative and Comparative Biology</i> , 2007, 47, 221-233.	2.0	25
44	Ecological, social, and genetic contingency of extrapair behavior in a socially monogamous bird. <i>Journal of Avian Biology</i> , 2007, 38, 214-223.	1.2	3
45	Context-dependent development of sexual ornamentation: implications for a trade-off between current and future breeding efforts. <i>Journal of Evolutionary Biology</i> , 2007, 20, 1277-1287.	1.7	28
46	FUNCTIONAL EQUIVALENCE OF MORPHOLOGIES ENABLES MORPHOLOGICAL AND ECOLOGICAL DIVERSITY. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 2480-2492.	2.3	51
47	Fighting ability and motivation: determinants of dominance and contest strategies in females of a passerine bird. <i>Animal Behaviour</i> , 2007, 74, 1675-1681.	1.9	59
48	Evolution of ontogeny: linking epigenetic remodeling and genetic adaptation in skeletal structures. <i>Integrative and Comparative Biology</i> , 2007, 47, 234-244.	2.0	63
49	Evolvability and Robustness in Color Displays: Bridging the Gap between Theory and Data. <i>Evolutionary Biology</i> , 2007, 34, 61-71.	1.1	28
50	Ecological, social, and genetic contingency of extrapair behavior in a socially monogamous bird. <i>Journal of Avian Biology</i> , 2007, 38, 214-223.	1.2	32
51	Evolution of sex-biased maternal effects in birds: III. Adjustment of ovulation order can enable sex-specific allocation of hormones, carotenoids, and vitamins. <i>Journal of Evolutionary Biology</i> , 2006, 19, 1044-1057.	1.7	85
52	EVOLUTIONARY PERSISTENCE OF PHENOTYPIC INTEGRATION: INFLUENCE OF DEVELOPMENTAL AND FUNCTIONAL RELATIONSHIPS ON COMPLEX TRAIT EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1291-1299.	2.3	61
53	Male House Finches with Elaborate Songs have Higher Reproductive Performance. <i>Ethology</i> , 2006, 112, 174-180.	1.1	20
54	Evolution of sex-biased maternal effects in birds: II. Contrasting sex-specific oocyte clustering in native and recently established populations. <i>Journal of Evolutionary Biology</i> , 2006, 19, 909-921.	1.7	35

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55	Dynamics of Mycoplasmal Conjunctivitis in the Native and Introduced Range of the Host. <i>EcoHealth</i> , 2006, 3, 95-102.	2.0	44
56	Yolk Antioxidants Vary with Male Attractiveness and Female Condition in the House Finch ( <i>Carpodacus mexicanus</i> ). <i>Physiological and Biochemical Zoology</i> , 2006, 79, 1098-1105.	1.5	48
57	Adaptive genetic complementarity in mate choice coexists with selection for elaborate sexual traits. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 1913-1919.	2.6	65
58	EVOLUTIONARY PERSISTENCE OF PHENOTYPIC INTEGRATION: INFLUENCE OF DEVELOPMENTAL AND FUNCTIONAL RELATIONSHIPS ON COMPLEX TRAIT EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1291.	2.3	8
59	Sex-biased maternal effects reduce ectoparasite-induced mortality in a passerine bird. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 14406-14411.	7.1	50
60	Role of Stress in Evolution. , 2005, , 277-302.		28
61	Adaptive sex differences in growth of pre-ovulation oocytes in a passerine bird. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 2165-2172.	2.6	75
62	Maternal Inheritance and Rapid Evolution of Sexual Size Dimorphism: Passive Effects or Active Strategies?. <i>American Naturalist</i> , 2005, 166, S17-S30.	2.1	61
63	Stress-induced variation in evolution: from behavioural plasticity to genetic assimilation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 877-886.	2.6	353
64	Evolution of Morphological Integration: Developmental Accommodation of Stress-Induced Variation. <i>American Naturalist</i> , 2005, 166, 382-395.	2.1	74
65	Evolution of Morphological Integration. I. Functional Units Channel Stress-Induced Variation in Shrew Mandibles. <i>American Naturalist</i> , 2004, 163, 868-879.	2.1	73
66	Complexity and integration in sexual ornamentation: an example with carotenoid and melanin plumage pigmentation. <i>Journal of Evolutionary Biology</i> , 2004, 17, 1317-1327.	1.7	40
67	Interaction between maternal effects: onset of incubation and offspring sex in two populations of a passerine bird. <i>Oecologia</i> , 2003, 135, 386-390.	2.0	43
68	Context-dependent sexual advertisement: plasticity in development of sexual ornamentation throughout the lifetime of a passerine bird. <i>Journal of Evolutionary Biology</i> , 2003, 16, 1065-1076.	1.7	82
69	Changes in Song Complexity Correspond to Periods of Female Fertility in Blue Grosbeaks ( <i>Guiraca</i> ) <i>Tj ETQq1 1 0.784314 rgBTj/Overlook</i>	1.1	38
70	THE EVOLUTION OF SEXUAL SIZE DIMORPHISM IN THE HOUSE FINCH. V. MATERNAL EFFECTS. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 384-398.	2.3	43
71	Avian Sexual Dichromatism in Relation to Phylogeny and Ecology. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2003, 34, 27-49.	8.3	205
72	FIRST CASE OF MYCOPLASMA GALLISEPTICUM INFECTION IN THE WESTERN RANGE OF THE HOUSE FINCH ( <i>CARPODACUS MEXICANUS</i> ). <i>Auk</i> , 2003, 120, 528.	1.4	31

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73	First Case of Mycoplasma Gallisepticum Infection in the Western Range of The House Finch (Carpodacus Mexicanus). <i>Auk</i> , 2003, 120, 528-530.	1.4	8
74	Sex-Biased Hatching Order and Adaptive Population Divergence in a Passerine Bird. <i>Science</i> , 2002, 295, 316-318.	12.6	210
75	Growing apart: an ontogenetic perspective on the evolution of sexual size dimorphism. <i>Trends in Ecology and Evolution</i> , 2002, 17, 369-378.	8.7	482
76	Putting Sexual Traits Into the Context of an Organism: A Life-History Perspective in Studies of Sexual Selection. <i>Auk</i> , 2002, 119, 301-310.	1.4	78
77	Male and Female Growth in Sexually Dimorphic Species: Harmony, Conflict, or Both?. <i>Comments on Theoretical Biology</i> , 2002, 7, 11-33.	0.6	13
78	Putting Sexual Traits into the Context of an Organism: A Life-History Perspective in Studies of Sexual Selection. <i>Auk</i> , 2002, 119, 301-310.	1.4	1
79	THE EVOLUTION OF SEXUAL SIZE DIMORPHISM IN THE HOUSE FINCH. IV. POPULATION DIVERGENCE IN ONTOGENY. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 2534-2549.	2.3	36
80	THE EVOLUTION OF SEXUAL SIZE DIMORPHISM IN THE HOUSE FINCH. III. DEVELOPMENTAL BASIS. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 176-189.	2.3	70
81	EVOLUTION OF LIFE HISTORIES ALONG ELEVATIONAL GRADIENTS: TRADE-OFF BETWEEN PARENTAL CARE AND FECUNDITY. <i>Ecology</i> , 2001, 82, 2948-2960.	3.2	191
82	Inferring Developmental Modularity from Morphological Integration: Analysis of Individual Variation and Asymmetry in Bumblebee Wings. <i>American Naturalist</i> , 2001, 157, 11-23.	2.1	221
83	THE EVOLUTION OF SEXUAL SIZE DIMORPHISM IN THE HOUSE FINCH. IV. POPULATION DIVERGENCE IN ONTOGENY. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 2534.	2.3	1
84	SEXUAL DIMORPHISM IN RELATION TO CURRENT SELECTION IN THE HOUSE FINCH. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 987-997.	2.3	103
85	THE EVOLUTION OF SEXUAL DIMORPHISM IN THE HOUSE FINCH. I. POPULATION DIVERGENCE IN MORPHOLOGICAL COVARIANCE STRUCTURE. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 1784-1794.	2.3	98
86	THE EVOLUTION OF SEXUAL SIZE DIMORPHISM IN THE HOUSE FINCH. II. POPULATION DIVERGENCE IN RELATION TO LOCAL SELECTION. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 2134-2144.	2.3	63
87	Evolution of sexual dichromatism: contribution of carotenoid- versus melanin-based coloration. <i>Biological Journal of the Linnean Society</i> , 2000, 69, 153-172.	1.6	227
88	Extreme environmental change and evolution: stress-induced morphological variation is strongly concordant with patterns of evolutionary divergence in shrew mandibles. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2000, 267, 371-377.	2.6	104
89	THE EVOLUTION OF SEXUAL DIMORPHISM IN THE HOUSE FINCH. I. POPULATION DIVERGENCE IN MORPHOLOGICAL COVARIANCE STRUCTURE. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 1784.	2.3	11
90	STRESS AND DEVELOPMENTAL STABILITY: VEGETATION REMOVAL CAUSES INCREASED FLUCTUATING ASYMMETRY IN SHREWS. <i>Ecology</i> , 2000, 81, 336-345.	3.2	66

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91	SEXUAL DIMORPHISM IN RELATION TO CURRENT SELECTION IN THE HOUSE FINCH. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 987.	2.3	14
92	Fitness correlates of spur length and spur asymmetry in male wild turkeys. <i>Journal of Animal Ecology</i> , 1998, 67, 845-852.	2.8	22
93	Ecological correlates of arctic serpulidae (Annelida, Polychaeta) distributions. <i>Ophelia</i> , 1998, 49, 181-193.	0.3	12
94	Environmental stress and developmental stability in dentition of the Yellowstone grizzly bears. <i>Behavioral Ecology</i> , 1998, 9, 339-344.	2.2	29
95	Altitudinal variation in sexual dimorphism: a new pattern and alternative hypotheses. <i>Behavioral Ecology</i> , 1997, 8, 675-690.	2.2	132
96	Habitat Associations of Song Characteristics in <i>Phylloscopus</i> and <i>Hippolais</i> Warblers. <i>Auk</i> , 1997, 114, 40-46.	1.4	118
97	Avian life history variation along altitudinal gradients: an example with cardueline finches. <i>Oecologia</i> , 1997, 111, 365-374.	2.0	119
98	Age-Biased Spring Dispersal in Male Wild Turkeys. <i>Auk</i> , 1996, 113, 240-242.	1.4	9
99	Habitat Sampling and Habitat Selection by Female Wild Turkeys: Ecological Correlates and Reproductive Consequences. <i>Auk</i> , 1996, 113, 636-646.	1.4	66
100	Nest Site Fidelity in Female Wild Turkey: Potential Causes and Reproductive Consequences. <i>Condor</i> , 1996, 98, 589-594.	1.6	45
101	Nesting Habitat and Nesting Success of Eastern Wild Turkeys in the Arkansas Ozark Highlands. <i>Condor</i> , 1995, 97, 221-232.	1.6	61