

Arkhat Abzhanov

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

3,601
citations

236925

25
h-index

223800

46
g-index

50
all docs

50
docs citations

50
times ranked

3467
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Bmp4</i> and Morphological Variation of Beaks in Darwin's Finches. <i>Science</i> , 2004, 305, 1462-1465.	12.6	706
2	The calmodulin pathway and evolution of elongated beak morphology in Darwin's finches. <i>Nature</i> , 2006, 442, 563-567.	27.8	564
3	Birds have paedomorphic dinosaur skulls. <i>Nature</i> , 2012, 487, 223-226.	27.8	207
4	Regulation of skeletogenic differentiation in cranial dermal bone. <i>Development (Cambridge)</i> , 2007, 134, 3133-3144.	2.5	195
5	Two developmental modules establish 3D beak-shape variation in Darwin's finches. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4057-4062.	7.1	167
6	Shh and Fgf8 act synergistically to drive cartilage outgrowth during cranial development. <i>Developmental Biology</i> , 2004, 273, 134-148.	2.0	137
7	Homologs of <i>Drosophila</i> Appendage Genes in the Patterning of Arthropod Limbs. <i>Developmental Biology</i> , 2000, 227, 673-689.	2.0	130
8	Dissimilar regulation of cell differentiation in mesencephalic (cranial) and sacral (trunk) neural crest cells in vitro. <i>Development (Cambridge)</i> , 2003, 130, 4567-4579.	2.5	120
9	Are we there yet? Tracking the development of new model systems. <i>Trends in Genetics</i> , 2008, 24, 353-360.	6.7	109
10	ROLES FOR MODULARITY AND CONSTRAINT IN THE EVOLUTION OF CRANIAL DIVERSITY AMONG ANOLIS LIZARDS. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 1525-1542.	2.3	109
11	Chelicerate Hox genes and the homology of arthropod segments. <i>Evolution & Development</i> , 1999, 1, 77-89.	2.0	90
12	A molecular mechanism for the origin of a key evolutionary innovation, the bird beak and palate, revealed by an integrative approach to major transitions in vertebrate history. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 1665-1677.	2.3	90
13	Cranial shape evolution in adaptive radiations of birds: comparative morphometrics of Darwin's finches and Hawaiian honeycreepers. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20150481.	4.0	89
14	Closely related bird species demonstrate flexibility between beak morphology and underlying developmental programs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16222-16227.	7.1	83
15	CONVERGENT EVOLUTION OF SEXUAL DIMORPHISM IN SKULL SHAPE USING DISTINCT DEVELOPMENTAL STRATEGIES. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 2180-2193.	2.3	79
16	The skull roof tracks the brain during the evolution and development of reptiles including birds. <i>Nature Ecology and Evolution</i> , 2017, 1, 1543-1550.	7.8	77
17	von Baer's law for the ages: lost and found principles of developmental evolution. <i>Trends in Genetics</i> , 2013, 29, 712-722.	6.7	74
18	Embryonic expression patterns of the Hox genes of the crayfish <i>Procambarus clarkii</i> (Crustacea). <i>Trends in Genetics</i> , 2000, 16, 100-104.	2.0	53

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19	Heterochronic shifts and conserved embryonic shape underlie crocodylian craniofacial disparity and convergence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182389.	2.6	52
20	Shared developmental programme strongly constrains beak shape diversity in songbirds. <i>Nature Communications</i> , 2014, 5, 3700.	12.8	46
21	Insights into the evolution of Darwin's finches from comparative analysis of the <i>Geospiza magnirostris</i> genome sequence. <i>BMC Genomics</i> , 2013, 14, 95.	2.8	38
22	Paths Less Traveled: Evo-Devo Approaches to Investigating Animal Morphological Evolution. <i>Annual Review of Cell and Developmental Biology</i> , 2012, 28, 743-763.	9.4	37
23	The old and new faces of morphology: the legacy of D'Arcy Thompson's 'theory of transformations' and 'laws of growth'. <i>Development (Cambridge)</i> , 2017, 144, 4284-4297.	2.5	37
24	A review of the osteoderms of lizards (Reptilia: Squamata). <i>Biological Reviews</i> , 2022, 97, 1-19.	10.4	28
25	Cross-regulatory interactions between <i>Fgf8</i> and <i>Shh</i> in the avian frontonasal prominence. <i>Congenital Anomalies (discontinued)</i> , 2007, 47, 136-148.	0.6	27
26	Peramorphosis, an evolutionary developmental mechanism in neotropical bat skull diversity. <i>Developmental Dynamics</i> , 2019, 248, 1129-1143.	1.8	27
27	Development of beak polymorphism in the African seedcracker, <i>Pyrenestes ostrinus</i> . <i>Evolution & Development</i> , 2009, 11, 636-646.	2.0	25
28	Darwin's Galapagos finches in modern biology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 1001-1007.	4.0	25
29	Rapid adaptive radiation of Darwin's finches depends on ancestral genetic modules. <i>Science Advances</i> , 2022, 8, .	10.3	18
30	Ecological and morphological determinants of evolutionary diversification in Darwin's finches and their relatives. <i>Ecology and Evolution</i> , 2020, 10, 14020-14032.	1.9	17
31	Evolutionary and ontogenetic changes of the anatomical organization and modularity in the skull of archosaurs. <i>Scientific Reports</i> , 2020, 10, 16138.	3.3	15
32	Differential cellular proliferation underlies heterochronic generation of cranial diversity in phyllostomid bats. <i>EvoDevo</i> , 2020, 11, 11.	3.2	15
33	A multispecies BCO2 beak color polymorphism in the Darwin's finch radiation. <i>Current Biology</i> , 2021, 31, 5597-5604.e7.	3.9	14
34	Molecular characterization of dental development in a toothed archosaur, the American alligator <i>Alligator mississippiensis</i> . <i>Evolution & Development</i> , 2013, 15, 393-405.	2.0	13
35	Time to synchronize our clocks: Connecting developmental mechanisms and evolutionary consequences of heterochrony. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2022, 338, 87-106.	1.3	13
36	Collection of Embryos from Darwin's Finches (Thraupidae, Passeriformes). <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5174.	0.3	9

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37	Recapitulating cranial osteogenesis with neural crest cells in 3-D microenvironments. <i>Acta Biomaterialia</i> , 2016, 31, 301-311.	8.3	9
38	Developmental origins of the crocodylian skull table and platyrostral face. <i>Anatomical Record</i> , 2022, 305, 2838-2853.	1.4	9
39	Geometry and dynamics link form, function, and evolution of finch beaks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	9
40	Darwin's Finches: Analysis of Beak Morphological Changes During Evolution: Figure 1.. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.emo119.	0.3	8
41	In Situ Hybridization Analysis of Embryonic Beak Tissue from Darwin's Finches. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5175.	0.3	7
42	Lizard osteoderms – Morphological characterisation, biomimetic design and manufacturing based on three species. <i>Bioinspiration and Biomimetics</i> , 2021, 16, 066011.	2.9	6
43	Unravelling the structural variation of lizard osteoderms. <i>Acta Biomaterialia</i> , 2022, 146, 306-316.	8.3	6
44	Microarray Analysis of Embryonic Beak mRNA from Darwin's Finches. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5176-pdb.prot5176.	0.3	4
45	Sex identification in embryos and adults of Darwin's finches. <i>PLoS ONE</i> , 2021, 16, e0237687.	2.5	4
46	Heading for higher ground: Developmental origins and evolutionary diversification of the amniote face. <i>Current Topics in Developmental Biology</i> , 2021, 141, 241-277.	2.2	3
47	Embryonic origins of the flattened skull table and snout in Crocodylia. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
48	Pecking at the origin of vertebrate diversity: insights from the beak of the finch. <i>FASEB Journal</i> , 2009, 23, 15.2.	0.5	0
49	Developmental mechanisms for morphological evolution. <i>FASEB Journal</i> , 2013, 27, 14.4.	0.5	0