

Ehab Abouheif

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

5,130
citations

201674

27
h-index

161849

54
g-index

70
all docs

70
docs citations

70
times ranked

5194
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep conservation and co-option of programmed cell death facilitates evolution of alternative phenotypes at multiple biological levels. <i>Seminars in Cell and Developmental Biology</i> , 2023, 145, 28-41.	5.0	4
2	Evaluating old truths: Final adult size in holometabolous insects is set by the end of larval development. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2023, 340, 270-276.	1.3	2
3	Warm and arid regions of the world are hotspots of superorganism complexity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20211899.	2.6	8
4	My road to the ants: A model clade for eco-evo-devo. <i>Current Topics in Developmental Biology</i> , 2022, 147, 231-290.	2.2	0
5	The origin of wing polyphenism in ants: An eco-evo-devo perspective. <i>Current Topics in Developmental Biology</i> , 2021, 141, 279-336.	2.2	10
6	Ant caste evo-devo: it's not all about size. <i>Trends in Ecology and Evolution</i> , 2021, 36, 668-670.	8.7	17
7	Nano-CT imaging of larvae in the ant <i>Pheidole hyatti</i> reveals coordinated growth of a rudimentary organ necessary for soldier development. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2021, 336, 540-553.	1.3	1
8	Evo-Devo Lessons from the Reproductive Division of Labor in Eusocial Hymenoptera. , 2021, , 791-804.		0
9	Origin and elaboration of a major evolutionary transition in individuality. <i>Nature</i> , 2020, 585, 239-244.	27.8	44
10	Evo-Devo Lessons from the Reproductive Division of Labor in Eusocial Hymenoptera. , 2020, , 1-14.		1
11	JEZB and the future of developmental evolution. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2019, 332, 5-6.	1.3	0
12	Interruption points in the wing gene regulatory network underlying wing polyphenism evolved independently in male and female morphs in <i>Cardiocondyla</i> ants. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2019, 332, 7-16.	1.3	17
13	The Coordination of Insect Imaginal Discs and the Regulation and Evolution of Complex Worker Caste Systems of Ants. , 2019, , 197-224.		2
14	Lack of interruption of the gene network underlying wing polyphenism in an early-branching ant genus. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2018, 330, 109-117.	1.3	8
15	Internal head morphology of minor workers and soldiers in the hyperdiverse ant genus <i>Pheidole</i> . <i>Canadian Journal of Zoology</i> , 2018, 96, 383-392.	1.0	14
16	The genome of the water strider <i>Gerris buenoi</i> reveals expansions of gene repertoires associated with adaptations to life on the water. <i>BMC Genomics</i> , 2018, 19, 832.	2.8	47
17	Social regulation of a rudimentary organ generates complex worker-caste systems in ants. <i>Nature</i> , 2018, 562, 574-577.	27.8	53
18	Regulation, development, and evolution of caste ratios in the hyperdiverse ant genus <i>Pheidole</i> . <i>Current Opinion in Insect Science</i> , 2017, 19, 43-51.	4.4	29

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19	Early Activation of MAPK and Apoptosis in Nutritive Embryos of Calyptraeid Gastropods. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2017, 328, 449-461.	1.3	5
20	Comparative Transcriptomics of Alternative Developmental Phenotypes in a Marine Gastropod. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2016, 326, 151-167.	1.3	15
21	Modeling evolutionary transitions in social insects. <i>ELife</i> , 2016, 5, e12721.	6.0	1
22	Past climate change on Sky Islands drives novelty in a core developmental gene network and its phenotype. <i>BMC Evolutionary Biology</i> , 2015, 15, 183.	3.2	36
23	It's time to get together: Announcing the new society for evolutionary developmental biology in the Americas. <i>Evolution & Development</i> , 2015, 17, 1-1.	2.0	2
24	The significance and scope of evolutionary developmental biology: a vision for the 21st century. <i>Evolution & Development</i> , 2015, 17, 198-219.	2.0	92
25	Epigenetic variation in the <i>Egfr</i> gene generates quantitative variation in a complex trait in ants. <i>Nature Communications</i> , 2015, 6, 6513.	12.8	99
26	The development of viable and nutritive embryos in the direct developing gastropod <i>Crepidula navicella</i> . <i>International Journal of Developmental Biology</i> , 2014, 58, 601-611.	0.6	22
27	Eco-Evo-Devo: The Time Has Come. <i>Advances in Experimental Medicine and Biology</i> , 2014, 781, 107-125.	1.6	127
28	Sex combs find middle ground in evolution debate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14011-14012.	7.1	1
29	COMPARATIVE FUNCTIONAL ANALYSES OF <i>ULTRABITHORAX</i> REVEAL MULTIPLE STEPS AND PATHS TO DIVERSIFICATION OF LEGS IN THE ADAPTIVE RADIATION OF SEMI-AQUATIC INSECTS. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, n/a-n/a.	2.3	31
30	Evolution: oskar Reveals Missing Link in Co-optive Evolution. <i>Current Biology</i> , 2013, 23, R24-R25.	3.9	1
31	The Wing Patterning Network in the Wingless Castes of Myrmicine and Formicine Ant Species Is a Mix of Evolutionarily Labile and Non-Labile Genes. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2013, 320, 74-83.	1.3	23
32	Ancestral Developmental Potential Facilitates Parallel Evolution in Ants. <i>Science</i> , 2012, 335, 79-82.	12.6	164
33	Function, Developmental Genetics, and Fitness Consequences of a Sexually Antagonistic Trait. <i>Science</i> , 2012, 336, 585-589.	12.6	98
34	The role of developmental plasticity in evolutionary innovation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2705-2713.	2.6	432
35	Gynandromorphs as indicators of modularity and evolvability in ants. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2011, 316B, 313-318.	1.3	29
36	Draft genome of the globally widespread and invasive Argentine ant (<i>Linepithema humile</i>). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5673-5678.	7.1	257

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37	Draft genome of the red harvester ant <i>Pogonomyrmex barbatus</i> . Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5667-5672.	7.1	222
38	The Phylogenetic Origin of oskar Coincided with the Origin of Maternally Provisioned Germ Plasm and Pole Cells at the Base of the Holometabola. PLoS Genetics, 2011, 7, e1002029.	3.5	71
39	The Genome Sequence of the Leaf-Cutter Ant <i>Atta cephalotes</i> Reveals Insights into Its Obligate Symbiotic Lifestyle. PLoS Genetics, 2011, 7, e1002007.	3.5	231
40	Correlations between spatiotemporal changes in gene expression and apoptosis underlie wing polyphenism in the ant <i>Pheidole morrisi</i> . Evolution & Development, 2010, 12, 580-591.	2.0	23
41	Evaluating the role of reproductive constraints in ant social evolution. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 617-630.	4.0	75
42	In Situ Hybridization on Ant Ovaries and Embryos. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5250.	0.3	11
43	Stochastic variation: From single cells to superorganisms. HFSP Journal, 2009, 3, 379-385.	2.5	26
44	Synthesis Version 4.1beta: a review of Scott F. Gilbert's and David Epel's <i>Ecological Developmental Biology: Integrating Epigenetics, Medicine, and Evolution</i> . Evolution & Development, 2009, 11, 456-457.	2.0	0
45	Evolution of a Novel Appendage Ground Plan in Water Striders Is Driven by Changes in the Hox Gene <i>Ultrabithorax</i> . PLoS Genetics, 2009, 5, e1000583.	3.5	56
46	Parallelism as the pattern and process of mesoevolution. Evolution & Development, 2008, 10, 3-5.	2.0	59
47	The dynamics of developmental system drift in the gene network underlying wing polyphenism in ants: a mathematical model. Evolution & Development, 2008, 10, 360-374.	2.0	35
48	Reproductive constraint is a developmental mechanism that maintains social harmony in advanced ant societies. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17884-17889.	7.1	89
49	Growth and patterning are evolutionarily dissociated in the vestigial wing discs of workers of the red imported fire ant, <i>Solenopsis invicta</i> . Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2007, 308B, 769-776.	1.3	17
50	Comparative Methods for the Analysis of Gene-Expression Evolution: An Example Using Yeast Functional Genomic Data. Molecular Biology and Evolution, 2005, 22, 40-50.	8.9	68
51	The Evolution of Transcriptional Regulation in Eukaryotes. Molecular Biology and Evolution, 2003, 20, 1377-1419.	8.9	1,034
52	Evolution of the Gene Network Underlying Wing Polyphenism in Ants. Science, 2002, 297, 249-252.	12.6	374
53	Establishing Homology Criteria for Regulatory Gene Networks: Prospects and Challenges. Novartis Foundation Symposium, 1999, 222, 207-225.	1.1	25
54	Limitations of Metazoan 18S rRNA Sequence Data: Implications for Reconstructing a Phylogeny of the Animal Kingdom and Inferring the Reality of the Cambrian Explosion. Journal of Molecular Evolution, 1998, 47, 394-405.	1.8	150

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55	When is homology not homology?. <i>Current Opinion in Genetics and Development</i> , 1998, 8, 675-680.	3.3	99
56	Random Trees and the Comparative Method: A Cautionary Tale. <i>Evolution; International Journal of Organic Evolution</i> , 1998, 52, 1197.	2.3	8
57	RANDOM TREES AND THE COMPARATIVE METHOD: A CAUTIONARY TALE. <i>Evolution; International Journal of Organic Evolution</i> , 1998, 52, 1197-1204.	2.3	25
58	A Comparative Analysis of Allometry for Sexual Size Dimorphism: Assessing Rensch's Rule. <i>American Naturalist</i> , 1997, 149, 540-562.	2.1	361
59	Developmental genetics and homology: a hierarchical approach. <i>Trends in Ecology and Evolution</i> , 1997, 12, 405-408.	8.7	147
60	Homology and developmental genes. <i>Trends in Genetics</i> , 1997, 13, 432-433.	6.7	169
61	Evolutionary analyses of hedgehog and Hoxd-10 genes in fish species closely related to the zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 13036-13041.	7.1	51