Ehab Abouheif

List of Publications by Year
in descending order

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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	The Evolution of Transcriptional Regulation in Eukaryotes. Molecular Biology and Evolution, 2003, 20, 1377-1419.	8.9	1,034
2	The role of developmental plasticity in evolutionary innovation. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2705-2713.	2.6	432
3	Evolution of the Gene Network Underlying Wing Polyphenism in Ants. Science, 2002, 297, 249-252.	12.6	374
4	A Comparative Analysis of Allometry for Sexual Size Dimorphism: Assessing Rensch's Rule. American Naturalist, 1997, 149, 540-562.	2.1	361
5	Draft genome of the globally widespread and invasive Argentine ant (Linepithema humile). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5673-5678.	7.1	257
6	The Genome Sequence of the Leaf-Cutter Ant Atta cephalotes Reveals Insights into Its Obligate Symbiotic Lifestyle. PLoS Genetics, 2011, 7, e1002007.	3.5	231
7	Draft genome of the red harvester ant Pogonomyrmex barbatus. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5667-5672.	7.1	222
8	Homology and developmental genes. Trends in Genetics, 1997, 13, 432-433.	6.7	169
9	Ancestral Developmental Potential Facilitates Parallel Evolution in Ants. Science, 2012, 335, 79-82.	12.6	164
10	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
11	Developmental genetics and homology: a hierarchical approach. Trends in Ecology and Evolution, 1997, 12, 405-408.	8.7	147
12	Eco-Evo-Devo: The Time Has Come. Advances in Experimental Medicine and Biology, 2014, 781, 107-125.	1.6	127
13	When is homology not homology?. Current Opinion in Genetics and Development, 1998, 8, 675-680.	3.3	99
14	Epigenetic variation in the Egfr gene generates quantitative variation in a complex trait in ants. Nature Communications, 2015, 6, 6513.	12.8	99
15	Function, Developmental Genetics, and Fitness Consequences of a Sexually Antagonistic Trait. Science, 2012, 336, 585-589.	12.6	98
16	The significance and scope of evolutionary developmental biology: a vision for the 21st century. Evolution & Development, 2015, 17, 198-219.	2.0	92
17	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
18	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

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19	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
20	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
21	Parallelism as the pattern and process of mesoevolution. Evolution & Development, 2008, 10, 3-5.	2.0	59
22	Evolution of a Novel Appendage Ground Plan in Water Striders Is Driven by Changes in the Hox Gene Ultrabithorax. PLoS Genetics, 2009, 5, e1000583.	3.5	56
23	Social regulation of a rudimentary organ generates complex worker-caste systems in ants. Nature, 2018, 562, 574-577.	27.8	53
24	Evolutionary analyses of hedgehog and Hoxd-10 genes in fish species closely related to the zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 13036-13041.	7.1	51
25	The genome of the water strider Gerris buenoi reveals expansions of gene repertoires associated with adaptations to life on the water. BMC Genomics, 2018, 19, 832.	2.8	47
26	Origin and elaboration of a major evolutionary transition in individuality. Nature, 2020, 585, 239-244.	27.8	44
27	Past climate change on Sky Islands drives novelty in a core developmental gene network and its phenotype. BMC Evolutionary Biology, 2015, 15, 183.	3.2	36
28	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
29	COMPARATIVE FUNCTIONAL ANALYSES OFULTRABITHORAXREVEAL MULTIPLE STEPS AND PATHS TO DIVERSIFICATION OF LEGS IN THE ADAPTIVE RADIATION OF SEMI-AQUATIC INSECTS. Evolution; International Journal of Organic Evolution, 2014, 68, n/a-n/a.	2.3	31
30	Gynandromorphs as indicators of modularity and evolvability in ants. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2011, 316B, 313-318.	1.3	29
31	Regulation, development, and evolution of caste ratios in the hyperdiverse ant genus Pheidole. Current Opinion in Insect Science, 2017, 19, 43-51.	4.4	29
32	Stochastic variation: From single cells to superorganisms. HFSP Journal, 2009, 3, 379-385.	2.5	26
33	RANDOM TREES AND THE COMPARATIVE METHOD: A CAUTIONARY TALE. Evolution; International Journal of Organic Evolution, 1998, 52, 1197-1204.	2.3	25
34	Establishing Homology Criteria for Regulatory Gene Networks: Prospects and Challenges. Novartis Foundation Symposium, 1999, 222, 207-225.	1.1	25
35	Correlations between spatiotemporal changes in gene expression and apoptosis underlie wing polyphenism in the ant Pheidole morrisi. Evolution & Development, 2010, 12, 580-591.	2.0	23
36	The Wingâ€Patterning Network in the Wingless Castes of Myrmicine and Formicine Ant Species Is a Mix of Evolutionarily Labile and Nonâ€Labile Genes. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2013, 320, 74-83.	1.3	23

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37	The development of viable and nutritive embryos in the direct developing gastropod Crepidula navicella. International Journal of Developmental Biology, 2014, 58, 601-611.	0.6	22
38	Growth and patterning are evolutionarily dissociated in the vestigial wing discs of workers of the red imported fire ant, Solenopsis Invicta. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2007, 308B, 769-776.	1.3	17
39	Interruption points in the wing gene regulatory network underlying wing polyphenism evolved independently in male and female morphs in Cardiocondyla ants. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2019, 332, 7-16.	1.3	17
40	Ant caste evo-devo: itâ€™s not all about size. Trends in Ecology and Evolution, 2021, 36, 668-670.	8.7	17
41	Comparative Transcriptomics of Alternative Developmental Phenotypes in a Marine Gastropod. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2016, 326, 151-167.	1.3	15
42	Internal head morphology of minor workers and soldiers in the hyperdiverse ant genus Pheidole. Canadian Journal of Zoology, 2018, 96, 383-392.	1.0	14
43	In Situ Hybridization on Ant Ovaries and Embryos. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5250.	0.3	11
44	The origin of wing polyphenism in ants: An eco-evo-devo perspective. Current Topics in Developmental Biology, 2021, 141, 279-336.	2.2	10
45	Random Trees and the Comparative Method: A Cautionary Tale. Evolution; International Journal of Organic Evolution, 1998, 52, 1197.	2.3	8
46	Lack of interruption of the gene network underlying wing polyphenism in an earlyâ€branching ant genus. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2018, 330, 109-117.	1.3	8
47	Warm and arid regions of the world are hotspots of superorganism complexity. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20211899.	2.6	8
48	Early Activation of MAPK and Apoptosis in Nutritive Embryos of Calyptraeid Gastropods. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2017, 328, 449-461.	1.3	5
49	Deep conservation and co-option of programmed cell death facilitates evolution of alternative phenotypes at multiple biological levels. Seminars in Cell and Developmental Biology, 2023, 145, 28-41.	5.0	4
50	It's time to get together: Announcing the new society for evolutionary developmental biology in the Americas. Evolution & Development, 2015, 17, 1-1.	2.0	2
51	The Coordination of Insect Imaginal Discs and the Regulation and Evolution of Complex Worker Caste Systems of Ants. , 2019, , 197-224.		2
52	Evaluating old truths: Final adult size in holometabolous insects is set by the end of larval development. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2023, 340, 270-276.	1.3	2
53	Evolution: oskar Reveals Missing Link in Co-optive Evolution. Current Biology, 2013, 23, R24-R25.	3.9	1
54	Sex combs find middle ground in evolution debate. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14011-14012.	7.1	1

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55	Nanoâ€CT imaging of larvae in the ant Pheidole hyatti reveals coordinated growth of a rudimentary organ necessary for soldier development. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2021, 336, 540-553.	1.3	1
56	Modeling evolutionary transitions in social insects. ELife, 2016, 5, e12721.	6.0	1
57	Evo-Devo Lessons from the Reproductive Division of Labor in Eusocial Hymenoptera. , 2020, , 1-14.		1
58	Synthesis Version 4.1beta: a review of Scott F. Gilbert's and David Epel's Ecological Developmental Biology: Integrating Epigenetics, Medicine, and Evolution. Evolution & Development, 2009, 11, 456-457.	2.0	0
59	JEZB and the future of developmental evolution. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2019, 332, 5-6.	1.3	0
60	Evo-Devo Lessons from the Reproductive Division of Labor in Eusocial Hymenoptera. , 2021, , 791-804.		0
61	My road to the ants: A model clade for eco-evo-devo. Current Topics in Developmental Biology, 2022, 147, 231-290.	2.2	0