Ian M Dworkin

List of Publications by Year
in descending order

81	4,168	159585 30	128289 60
papers	citations	h-index	g-index

95	95	95	4599
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Uncovering cryptic genetic variation. Nature Reviews Genetics, 2004, 5, 681-690.	16.3	477
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	A Mechanism of Extreme Growth and Reliable Signaling in Sexually Selected Ornaments and Weapons. Science, 2012, 337, 860-864.	12.6	394
4	Does your gene need a background check? How genetic background impacts the analysis of mutations, genes, and evolution. Trends in Genetics, 2013, 29, 358-366.	6.7	153
5	Consequences of Whole-Genome Triplication as Revealed by Comparative Genomic Analyses of the Wild RadishRaphanus raphanistrumand Three Other Brassicaceae Species Â. Plant Cell, 2014, 26, 1925-1937.	6.6	137
6	Many ways to be small: different environmental regulators of size generate distinct scaling relationships in Drosophila melanogaster. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 2625-2633.	2.6	130
7	Insulin signaling and limb-patterning: candidate pathways for the origin and evolutionary diversification of beetle â€˜hornsâ€™. Heredity, 2006, 97, 179-191.	2.6	122
8	PLASTICITY, CANALIZATION, AND DEVELOPMENTAL STABILITY OF THEDROSOPHILAWING: JOINT EFFECTS OF MUTATIONS AND DEVELOPMENTAL TEMPERATURE. Evolution; International Journal of Organic Evolution, 2009, 63, 2864-2876.	2.3	117
9	Epidermal Growth Factor Receptor and Transforming Growth Factor-Î² Signaling Contributes to Variation for Wing Shape in Drosophila melanogaster. Genetics, 2006, 173, 1417-1431.	2.9	100
10	Evidence that Egfr Contributes to Cryptic Genetic Variation for Photoreceptor Determination in Natural Populations of Drosophila melanogaster. Current Biology, 2003, 13, 1888-1893.	3.9	94
11	Genetics of microenvironmental canalization in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13717-13722.	7.1	94
12	The significance and scope of evolutionary developmental biology: a vision for the 21st century. Evolution & Development, 2015, 17, 198-219.	2.0	92
13	Genetic Changes Accompanying the Evolution of Host Specialization in Drosophila sechellia. Genetics, 2009, 181, 721-736.	2.9	91
14	A general mechanism for conditional expression of exaggerated sexuallyâ€šselected traits. BioEssays, 2013, 35, 889-899.	2.5	75
15	The Conditional Nature of Genetic Interactions: The Consequences of Wild-Type Backgrounds on Mutational Interactions in a Genome-Wide Modifier Screen. PLoS Genetics, 2013, 9, e1003661.	3.5	74
16	Exaggerated Trait Growth in Insects. Annual Review of Entomology, 2015, 60, 453-472.	11.8	73
17	ALTITUDINAL CLINAL VARIATION IN WING SIZE AND SHAPE IN AFRICANDROSOPHILA MELANOGASTER: ONE CLINE OR MANY?. Evolution; International Journal of Organic Evolution, 2013, 67, 438-452.	2.3	71
18	A STUDY OF CANALIZATION AND DEVELOPMENTAL STABILITY IN THE STERNOPLEURAL BRISTLE SYSTEM OF DROSOPHILA MELANOGASTER. Evolution; International Journal of Organic Evolution, 2005, 59, 1500-1509.	2.3	70

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19	Admixture mapping of male nuptial colour and body shape in a recently formed hybrid population of threespine stickleback. Molecular Ecology, 2012, 21, 5265-5279.	3.9	65
20	Divergent host preferences of aboveâ€•and belowâ€ground <scp>C</scp>ulex pipiens mosquitoes and their hybrid offspring. Medical and Veterinary Entomology, 2015, 29, 115-123.	1.5	65
21	Cryptic Genetic Variation in Natural Populations: A Predictive Framework. Integrative and Comparative Biology, 2014, 54, 783-793.	2.0	60
22	Causes and Consequences of Genetic Background Effects Illuminated by Integrative Genomic Analysis. Genetics, 2014, 196, 1321-1336.	2.9	59
23	Genomic Consequences of Background Effects onscallopedMutant Expressivity in the Wing ofDrosophila melanogaster. Genetics, 2009, 181, 1065-1076.	2.9	55
24	A Multivariate Genome-Wide Association Study of Wing Shape in Drosophila melanogaster. Genetics, 2019, 211, 1429-1447.	2.9	54
25	Genotypeâ€byâ€environment interactions for cuticular hydrocarbon expression in <scp>D</scp>rosophila simulans. Journal of Evolutionary Biology, 2013, 26, 94-107.	1.7	45
26	How well do you know your mutation? Complex effects of genetic background on expressivity, complementation, and ordering of allelic effects. PLoS Genetics, 2017, 13, e1007075.	3.5	45
27	Replication of an Egfr-Wing Shape Association in a Wild-Caught Cohort of Drosophila melanogaster. Genetics, 2005, 169, 2115-2125.	2.9	41
28	Canalization, Cryptic Variation, and Developmental Buffering. , 2005, , 131-158.		41
29	Tipping the scales: Evolution of the allometric slope independent of average trait size. Evolution; International Journal of Organic Evolution, 2016, 70, 433-444.	2.3	40
30	Evolutionary rates for multivariate traits: the role of selection and genetic variation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130252.	4.0	39
31	Experimental evidence for withinâ€•and crossâ€seasonal effects of fear on survival and reproduction. Journal of Animal Ecology, 2016, 85, 507-515.	2.8	38
32	Evidence for canalization of Distal-less function in the leg of Drosophila melanogaster. Evolution & Development, 2005, 7, 89-100.	2.0	33
33	EXPERIMENTAL EVOLUTION OF THEâ€‚CAENORHABDITIS ELEGANSâ€‚SEX DETERMINATION PATHWAY. Evolution; International Journal of Organic Evolution, 2012, 66, 82-93.	2.3	32
34	Sexual dimorphism and heightened conditional expression in a sexually selected weapon in the Asian rhinoceros beetle. Molecular Ecology, 2018, 27, 5049-5072.	3.9	32
35	RUNAWAY SEXUAL SELECTION LEADS TO GOOD GENES. Evolution; International Journal of Organic Evolution, 2013, 67, 110-119.	2.3	30
36	A study of canalization and developmental stability in the sternopleural bristle system of Drosophila melanogaster. Evolution; International Journal of Organic Evolution, 2005, 59, 1500-9.	2.3	29

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37	Daily blood feeding rhythms of laboratory-reared North American Culex pipiens. Journal of Circadian Rhythms, 2014, 12, 1.	1.3	28
38	Field measurements of genotype by environment interaction for fitness caused by spontaneous mutations inArabidopsis thaliana. Evolution; International Journal of Organic Evolution, 2016, 70, 1039-1050.	2.3	27
39	Identification and functional analyses of sex determination genes in the sexually dimorphic stag beetle Cyclommatus metallifer. BMC Genomics, 2016, 17, 250.	2.8	27
40	Ontogeny of sexual size dimorphism in the spotted hyena (Crocuta crocuta). Journal of Mammalogy, 2013, 94, 1298-1310.	1.3	26
41	An image database of Drosophila melanogaster wings for phenomic and biometric analysis. GigaScience, 2015, 4, 25.	6.4	26
42	Limited plasticity in the phenotypic varianceâ€covariance matrix for male advertisement calls in the black field cricket, Teleogryllus commodus. Journal of Evolutionary Biology, 2013, 26, 1060-1078.	1.7	24
43	Tests for the replication of an association between Egfr and natural variation in Drosophila melanogaster wing morphology. BMC Genetics, 2005, 6, 44.	2.7	23
44	Lifetime selection on a hypoallometric size trait in the spotted hyena. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 3277-3285.	2.6	23
45	From Cues to Signals: Evolution of Interspecific Communication via Aposematism and Mimicry in a Predator-Prey System. PLoS ONE, 2014, 9, e91783.	2.5	23
46	The sex-limited effects of mutations in the EGFR and TGF-Î² signaling pathways on shape and size sexual dimorphism and allometry in the Drosophila wing. Development Genes and Evolution, 2016, 226, 159-171.	0.9	23
47	Nucleotide Variation in the Egfr Locus of Drosophila melanogaster. Genetics, 2004, 167, 1199-1212.	2.9	21
48	CLONING AND CHARACTERIZATION OF AN mRNA ENCODING AN INSULIN RECEPTOR FROM THE HORNED SCARAB BEETLE Onthophagus nigriventris (COLEOPTERA: SCARABAEIDAE). Archives of Insect Biochemistry and Physiology, 2013, 82, 43-57.	1.5	20
49	Experimental Manipulation of Body Size to Estimate Morphological Scaling Relationships in Drosophila. Journal of Visualized Experiments, 2011, , .	0.3	19
50	Weed evolution: Genetic differentiation among wild, weedy, and crop radish. Evolutionary Applications, 2018, 11, 1964-1974.	3.1	19
51	Are entrenched characters developmentally constrained? Creating biramous limbs in an insect. Evolution & Development, 2001, 3, 424-431.	2.0	17
52	A STUDY OF CANALIZATION AND DEVELOPMENTAL STABILITY IN THE STERNOPLEURAL BRISTLE SYSTEM OF DROSOPHILA MELANOGASTER. Evolution; International Journal of Organic Evolution, 2005, 59, 1500.	2.3	17
53	Sociability in Fruit Flies: Genetic Variation, Heritability and Plasticity. Behavior Genetics, 2018, 48, 247-258.	2.1	17
54	The environmental and genetic regulation of obake expressivity: morphogenetic fields as evolvable systems. Evolution & Development, 2004, 6, 114-122.	2.0	15

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55	Insights into the Development and Evolution of Exaggerated Traits Using De Novo Transcriptomes of Two Species of Horned Scarab Beetles. PLoS ONE, 2014, 9, e88364.	2.5	15
56	Towards a genetic architecture of cryptic genetic variation and genetic assimilation: The contribution of K. G. Bateman. Journal of Genetics, 2005, 84, 223-226.	0.7	14
57	A pipeline for the de novo assembly of the Themira biloba (Sepsidae: Diptera) transcriptome using a multiple k-mer length approach. BMC Genomics, 2014, 15, 188.	2.8	14
58	The Roles of Standing Genetic Variation and Evolutionary History in Determining the Evolvability of Anti-Predator Strategies. PLoS ONE, 2014, 9, e100163.	2.5	14
59	Fly Wing Biometrics Using Modified Local Binary Pattern, SVMs and Random Forest. International Journal of Machine Learning and Computing, 2014, 4, 279-285.	0.6	12
60	Disintegrating the fly: A mutational perspective on phenotypic integration and covariation. Evolution; International Journal of Organic Evolution, 2017, 71, 66-80.	2.3	10
61	Individual Cryptic Scaling Relationships and the Evolution of Animal Form. Integrative and Comparative Biology, 2019, 59, 1411-1428.	2.0	9
62	Sex chromosome degeneration, turnover, and sex-biased expression of sex-linked transcripts in African clawed frogs (Xenopus). Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200095.	4.0	8
63	The Effects of Weak Genetic Perturbations on the Transcriptome of the Wing Imaginal Disc and Its Association With Wing Shape in Drosophila melanogaster. Genetics, 2011, 187, 1171-1184.	2.9	7
64	The potential influence of morphology on the evolutionary divergence of an acoustic signal. Journal of Evolutionary Biology, 2014, 27, 2163-2176.	1.7	7
65	Genetic and environmental canalization are not associated among altitudinally varying populations of Drosophila melanogaster. Evolution; International Journal of Organic Evolution, 2020, 74, 1755-1771.	2.3	7
66	Evolution of sociability by artificial selection [*]. Evolution; International Journal of Organic Evolution, 2022, 76, 541-553.	2.3	7
67	Chloroform and desflurane immobilization with recovery of viable Drosophila larvae for confocal imaging. Journal of Insect Physiology, 2019, 117, 103900.	2.0	6
68	Scared fitless: Context-dependent response of fear to loss of predators over evolutionary time in Drosophila melanogaster. Facets, 2017, 2, 342-354.	2.4	5
69	Fly wing biometrics. , 2013, , .		4
70	Does increased heat resistance result in higher susceptibility to predation? A test using Drosophila melanogaster selection and hardening. Journal of Evolutionary Biology, 2017, 30, 1153-1164.	1.7	4
71	The behavioral repertoire of Drosophila melanogaster in the presence of two predator species that differ in hunting mode. PLoS ONE, 2019, 14, e0216860.	2.5	4
72	Complex genetic interactions govern the temporal effects of Antennapedia on antenna-to-leg transformations in Drosophila melanogaster. Journal of Genetics, 2007, 86, 111-123.	0.7	2

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73	Speeding up scientific imaging workflows: Design of automated image annotation tool. , 2013, , .		2
74	Evolutionary Genetics: You Are What You Evolve to Eat. Current Biology, 2015, 25, R341-R344.	3.9	2
75	Behavioral Strategy Chases Promote the Evolution of Prey Intelligence*. Genetic and Evolutionary Computation, 2020, , 225-246.	1.0	2
76	Sexual Selection Does Not Increase the Rate of Compensatory Adaptation to a Mutation Influencing a Secondary Sexual Trait inDrosophila melanogaster. G3: Genes, Genomes, Genetics, 2020, 10, 1541-1551.	1.8	2
77	Spatial heterogeneity in resources alters selective dynamics in Drosophila melanogaster. Evolution; International Journal of Organic Evolution, 2021, 75, 1792-1804.	2.3	1
78	Developmental Instability: Causes and Consequences.Edited by MichalÂ Polak. Oxford and New York: Oxford University Press. $95.00. xxiii + 459 p; ill.; taxonomic and subject indexes. ISBN: 0â€“19â€“514345â€“0. 2003.. Quarterly Review of Biology, 2003, 78, 479-479.	0.1	0
79	Imaginal Discs, the Genetic and Cellular Logic of Pattern Formation. Lewis I Held, Jr. Cambridge University Press. 2005. 461 pages. ISBN 0 521 01835 8. Price Â£38. (paperback). (ISBN 0521 58445 0. Price Â£120.)	0.7	0
80	More Bang For Your Buck: Quorum-Sensing Capabilities Improve the Efficacy of Suicidal Altruism. , 0, , .		0
81	The genetic basis of variation in sexual aggression: Evolution versus social plasticity. Molecular Ecology, 2022, , .	3.9	0