

Ian M Dworkin

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

4,168
citations

159585

30
h-index

128289

60
g-index

95
all docs

95
docs citations

95
times ranked

4599
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of sociability by artificial selection [*] . Evolution; International Journal of Organic Evolution, 2022, 76, 541-553.	2.3	7
2	The genetic basis of variation in sexual aggression: Evolution versus social plasticity. Molecular Ecology, 2022, , .	3.9	0
3	Spatial heterogeneity in resources alters selective dynamics in <i>Drosophila melanogaster</i> . Evolution; International Journal of Organic Evolution, 2021, 75, 1792-1804.	2.3	1
4	Sex chromosome degeneration, turnover, and sex-biased expression of sex-linked transcripts in African clawed frogs (<i>Xenopus</i>). Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200095.	4.0	8
5	Behavioral Strategy Chases Promote the Evolution of Prey Intelligence*. Genetic and Evolutionary Computation, 2020, , 225-246.	1.0	2
6	Sexual Selection Does Not Increase the Rate of Compensatory Adaptation to a Mutation Influencing a Secondary Sexual Trait in <i>Drosophila melanogaster</i> . G3: Genes, Genomes, Genetics, 2020, 10, 1541-1551.	1.8	2
7	Genetic and environmental canalization are not associated among altitudinally varying populations of <i>Drosophila melanogaster</i> . Evolution; International Journal of Organic Evolution, 2020, 74, 1755-1771.	2.3	7
8	Individual Cryptic Scaling Relationships and the Evolution of Animal Form. Integrative and Comparative Biology, 2019, 59, 1411-1428.	2.0	9
9	Chloroform and desflurane immobilization with recovery of viable <i>Drosophila</i> larvae for confocal imaging. Journal of Insect Physiology, 2019, 117, 103900.	2.0	6
10	The behavioral repertoire of <i>Drosophila melanogaster</i> in the presence of two predator species that differ in hunting mode. PLoS ONE, 2019, 14, e0216860.	2.5	4
11	A Multivariate Genome-Wide Association Study of Wing Shape in <i>Drosophila melanogaster</i> . Genetics, 2019, 211, 1429-1447.	2.9	54
12	Sociability in Fruit Flies: Genetic Variation, Heritability and Plasticity. Behavior Genetics, 2018, 48, 247-258.	2.1	17
13	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
14	Weed evolution: Genetic differentiation among wild, weedy, and crop radish. Evolutionary Applications, 2018, 11, 1964-1974.	3.1	19
15	Does increased heat resistance result in higher susceptibility to predation? A test using <i>Drosophila melanogaster</i> selection and hardening. Journal of Evolutionary Biology, 2017, 30, 1153-1164.	1.7	4
16	Disintegrating the fly: A mutational perspective on phenotypic integration and covariation. Evolution; International Journal of Organic Evolution, 2017, 71, 66-80.	2.3	10
17	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
18	Scared fitless: Context-dependent response of fear to loss of predators over evolutionary time in <i>Drosophila melanogaster</i> . Facets, 2017, 2, 342-354.	2.4	5

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19	Experimental evidence for within- and cross-seasonal effects of fear on survival and reproduction. <i>Journal of Animal Ecology</i> , 2016, 85, 507-515.	2.8	38
20	Field measurements of genotype by environment interaction for fitness caused by spontaneous mutations in <i>Arabidopsis thaliana</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 1039-1050.	2.3	27
21	Tipping the scales: Evolution of the allometric slope independent of average trait size. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 433-444.	2.3	40
22	The sex-limited effects of mutations in the EGFR and TGF- β^2 signaling pathways on shape and size sexual dimorphism and allometry in the <i>Drosophila</i> wing. <i>Development Genes and Evolution</i> , 2016, 226, 159-171.	0.9	23
23	Identification and functional analyses of sex determination genes in the sexually dimorphic stag beetle <i>Cyclommatus metallifer</i> . <i>BMC Genomics</i> , 2016, 17, 250.	2.8	27
24	Divergent host preferences of above- and below-ground <i>Culex pipiens</i> mosquitoes and their hybrid offspring. <i>Medical and Veterinary Entomology</i> , 2015, 29, 115-123.	1.5	65
25	Evolutionary Genetics: You Are What You Evolve to Eat. <i>Current Biology</i> , 2015, 25, R341-R344.	3.9	2
26	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
27	An image database of <i>Drosophila melanogaster</i> wings for phenomic and biometric analysis. <i>GigaScience</i> , 2015, 4, 25.	6.4	26
28	Exaggerated Trait Growth in Insects. <i>Annual Review of Entomology</i> , 2015, 60, 453-472.	11.8	73
29	Insights into the Development and Evolution of Exaggerated Traits Using De Novo Transcriptomes of Two Species of Horned Scarab Beetles. <i>PLoS ONE</i> , 2014, 9, e88364.	2.5	15
30	From Cues to Signals: Evolution of Interspecific Communication via Aposematism and Mimicry in a Predator-Prey System. <i>PLoS ONE</i> , 2014, 9, e91783.	2.5	23
31	Consequences of Whole-Genome Triplication as Revealed by Comparative Genomic Analyses of the Wild Radish <i>Raphanus raphanistrum</i> and Three Other Brassicaceae Species. <i>Plant Cell</i> , 2014, 26, 1925-1937.	6.6	137
32	A pipeline for the de novo assembly of the <i>Themira biloba</i> (Sepsidae: Diptera) transcriptome using a multiple k-mer length approach. <i>BMC Genomics</i> , 2014, 15, 188.	2.8	14
33	Cryptic Genetic Variation in Natural Populations: A Predictive Framework. <i>Integrative and Comparative Biology</i> , 2014, 54, 783-793.	2.0	60
34	Daily blood feeding rhythms of laboratory-reared North American <i>Culex pipiens</i> . <i>Journal of Circadian Rhythms</i> , 2014, 12, 1.	1.3	28
35	Causes and Consequences of Genetic Background Effects Illuminated by Integrative Genomic Analysis. <i>Genetics</i> , 2014, 196, 1321-1336.	2.9	59
36	The potential influence of morphology on the evolutionary divergence of an acoustic signal. <i>Journal of Evolutionary Biology</i> , 2014, 27, 2163-2176.	1.7	7

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37	Evolutionary rates for multivariate traits: the role of selection and genetic variation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130252.	4.0	39
38	The Roles of Standing Genetic Variation and Evolutionary History in Determining the Evolvability of Anti-Predator Strategies. <i>PLoS ONE</i> , 2014, 9, e100163.	2.5	14
39	Fly Wing Biometrics Using Modified Local Binary Pattern, SVMs and Random Forest. <i>International Journal of Machine Learning and Computing</i> , 2014, 4, 279-285.	0.6	12
40	A general mechanism for conditional expression of exaggerated sexually-selected traits. <i>BioEssays</i> , 2013, 35, 889-899.	2.5	75
41	Speeding up scientific imaging workflows: Design of automated image annotation tool. , 2013, , .		2
42	Ontogeny of sexual size dimorphism in the spotted hyena (<i>Crocuta crocuta</i>). <i>Journal of Mammalogy</i> , 2013, 94, 1298-1310.	1.3	26
43	Fly wing biometrics. , 2013, , .		4
44	RUNAWAY SEXUAL SELECTION LEADS TO GOOD GENES. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 110-119.	2.3	30
45	ALTITUDINAL CLINAL VARIATION IN WING SIZE AND SHAPE IN AFRICAN <i>DROSOPHILA MELANOGASTER</i> : ONE CLINE OR MANY?. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 438-452.	2.3	71
46	CLONING AND CHARACTERIZATION OF AN mRNA ENCODING AN INSULIN RECEPTOR FROM THE HORNED SCARAB BEETLE <i>Onthophagus nigriventris</i> (COLEOPTERA: SCARABAEIDAE). <i>Archives of Insect Biochemistry and Physiology</i> , 2013, 82, 43-57.	1.5	20
47	Genotype-environment interactions for cuticular hydrocarbon expression in <i>Drosophila simulans</i> . <i>Journal of Evolutionary Biology</i> , 2013, 26, 94-107.	1.7	45
48	Limited plasticity in the phenotypic variance-covariance matrix for male advertisement calls in the black field cricket, <i>Teleogryllus commodus</i> . <i>Journal of Evolutionary Biology</i> , 2013, 26, 1060-1078.	1.7	24
49	Does your gene need a background check? How genetic background impacts the analysis of mutations, genes, and evolution. <i>Trends in Genetics</i> , 2013, 29, 358-366.	6.7	153
50	The Conditional Nature of Genetic Interactions: The Consequences of Wild-Type Backgrounds on Mutational Interactions in a Genome-Wide Modifier Screen. <i>PLoS Genetics</i> , 2013, 9, e1003661.	3.5	74
51	A Mechanism of Extreme Growth and Reliable Signaling in Sexually Selected Ornaments and Weapons. <i>Science</i> , 2012, 337, 860-864.	12.6	394
52	EXPERIMENTAL EVOLUTION OF THE CAENORHABDITIS ELEGANS SEX DETERMINATION PATHWAY. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 82-93.	2.3	32
53	Admixture mapping of male nuptial colour and body shape in a recently formed hybrid population of threespine stickleback. <i>Molecular Ecology</i> , 2012, 21, 5265-5279.	3.9	65
54	Experimental Manipulation of Body Size to Estimate Morphological Scaling Relationships in <i>Drosophila</i> . <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	19

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55	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
56	Lifetime selection on a hypoallometric size trait in the spotted hyena. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 3277-3285.	2.6	23
57	The Effects of Weak Genetic Perturbations on the Transcriptome of the Wing Imaginal Disc and Its Association With Wing Shape in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2011, 187, 1171-1184.	2.9	7
58	Genomic Consequences of Background Effects on <i>scalloped</i> Mutant Expressivity in the Wing of <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2009, 181, 1065-1076.	2.9	55
59	Genetic Changes Accompanying the Evolution of Host Specialization in <i>Drosophila sechellia</i> . <i>Genetics</i> , 2009, 181, 721-736.	2.9	91
60	Many ways to be small: different environmental regulators of size generate distinct scaling relationships in <i>Drosophila melanogaster</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 2625-2633.	2.6	130
61	PLASTICITY, CANALIZATION, AND DEVELOPMENTAL STABILITY OF THE <i>DROSOPHILA</i> WING: JOINT EFFECTS OF MUTATIONS AND DEVELOPMENTAL TEMPERATURE. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 2864-2876.	2.3	117
62	Genetics of microenvironmental canalization in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13717-13722.	7.1	94
63	Complex genetic interactions govern the temporal effects of Antennapedia on antenna-to-leg transformations in <i>Drosophila melanogaster</i> . <i>Journal of Genetics</i> , 2007, 86, 111-123.	0.7	2
64	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 £38. (paperback). (ISBN 0521 58445 0. Price £120.00) http://www.cambridge.org/9780521018358		
65	Insulin signaling and limb-patterning: candidate pathways for the origin and evolutionary diversification of beetle "horns". <i>Heredity</i> , 2006, 97, 179-191.	2.6	122
66	Epidermal Growth Factor Receptor and Transforming Growth Factor- β^2 Signaling Contributes to Variation for Wing Shape in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2006, 173, 1417-1431.	2.9	100
67	Evidence for canalization of Distal-less function in the leg of <i>Drosophila melanogaster</i> . <i>Evolution & Development</i> , 2005, 7, 89-100.	2.0	33
68	A STUDY OF CANALIZATION AND DEVELOPMENTAL STABILITY IN THE STERNOLEURAL BRISTLE SYSTEM OF <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 1500-1509.	2.3	70
69	Towards a genetic architecture of cryptic genetic variation and genetic assimilation: The contribution of K. G. Bateman. <i>Journal of Genetics</i> , 2005, 84, 223-226.	0.7	14
70	Tests for the replication of an association between Egfr and natural variation in <i>Drosophila melanogaster</i> wing morphology. <i>BMC Genetics</i> , 2005, 6, 44.	2.7	23
71	Replication of an Egfr-Wing Shape Association in a Wild-Caught Cohort of <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2005, 169, 2115-2125.	2.9	41
72	A STUDY OF CANALIZATION AND DEVELOPMENTAL STABILITY IN THE STERNOLEURAL BRISTLE SYSTEM OF <i>DROSOPHILA MELANOGASTER</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 1500.	2.3	17

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73	Canalization, Cryptic Variation, and Developmental Buffering. , 2005, , 131-158.		41
74	A study of canalization and developmental stability in the sternopleural bristle system of <i>Drosophila melanogaster</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 1500-9.	2.3	29
75	Nucleotide Variation in the <i>Egfr</i> Locus of <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2004, 167, 1199-1212.	2.9	21
76	The environmental and genetic regulation of <i>obake</i> expressivity: morphogenetic fields as evolvable systems. <i>Evolution & Development</i> , 2004, 6, 114-122.	2.0	15
77	Uncovering cryptic genetic variation. <i>Nature Reviews Genetics</i> , 2004, 5, 681-690.	16.3	477
78	Evidence that <i>Egfr</i> Contributes to Cryptic Genetic Variation for Photoreceptor Determination in Natural Populations of <i>Drosophila melanogaster</i> . <i>Current Biology</i> , 2003, 13, 1888-1893.	3.9	94
79	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.. <i>Quarterly Review of Biology</i> , 2003, 78, 479-479.	0.1	0
80	Are entrenched characters developmentally constrained? Creating biramous limbs in an insect. <i>Evolution & Development</i> , 2001, 3, 424-431.	2.0	17
81	More Bang For Your Buck: Quorum-Sensing Capabilities Improve the Efficacy of Suicidal Altruism. , 0, , .		0