

Mark W Blows

List of Publications by Year in descending order

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113
papers

8,386
citations

50244

46
h-index

51562

86
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119
all docs

119
docs citations

119
times ranked

4980
citing authors

#	ARTICLE	IF	CITATIONS
1	A REASSESSMENT OF GENETIC LIMITS TO EVOLUTIONARY CHANGE. <i>Ecology</i> , 2005, 86, 1371-1384.	1.5	532
2	Abundant Genetic Variation + Strong Selection = Multivariate Genetic Constraints: A Geometric View of Adaptation. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2009, 40, 41-59.	3.8	521
3	Species borders: ecological and evolutionary perspectives. <i>Trends in Ecology and Evolution</i> , 1994, 9, 223-227.	4.2	468
4	ESTIMATING NONLINEAR SELECTION GRADIENTS USING QUADRATIC REGRESSION COEFFICIENTS: DOUBLE OR NOTHING?. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 2435-2440.	1.1	425
5	A tale of two matrices: multivariate approaches in evolutionary biology. <i>Journal of Evolutionary Biology</i> , 2007, 20, 1-8.	0.8	302
6	Natural Selection and the Reinforcement of Mate Recognition. <i>Science</i> , 2000, 290, 519-521.	6.0	285
7	Measuring Nonlinear Selection. <i>American Naturalist</i> , 2003, 162, 815-820.	1.0	268
8	Orientation of the Genetic Variance-Covariance Matrix and the Fitness Surface for Multiple Male Sexually Selected Traits. <i>American Naturalist</i> , 2004, 163, 329-340.	1.0	237
9	Contrasting Mutual Sexual Selection on Homologous Signal Traits in <i>Drosophila serrata</i> . <i>American Naturalist</i> , 2005, 165, 281-289.	1.0	235
10	EXPERIMENTAL EVIDENCE FOR MULTIVARIATE STABILIZING SEXUAL SELECTION. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 871-880.	1.1	186
11	Divergent Selection and the Evolution of Signal Traits and Mating Preferences. <i>PLoS Biology</i> , 2005, 3, e368.	2.6	167
12	EXPLORING COMPLEX FITNESS SURFACES: MULTIPLE ORNAMENTATION AND POLYMORPHISM IN MALE GUPPIES. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 1622-1630.	1.1	146
13	Phenotypic Divergence along Lines of Genetic Variance. <i>American Naturalist</i> , 2005, 165, 32-43.	1.0	140
14	Genetic variance in female condition predicts indirect genetic variance in male sexual display traits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6045-6050.	3.3	135
15	Determining the Effective Dimensionality of the Genetic Variance-Covariance Matrix. <i>Genetics</i> , 2006, 173, 1135-1144.	1.2	129
16	The Contribution of Selection and Genetic Constraints to Phenotypic Divergence. <i>American Naturalist</i> , 2010, 175, 186-196.	1.0	121
17	Genetic Constraints and the Evolution of Display Trait Sexual Dimorphism by Natural and Sexual Selection. <i>American Naturalist</i> , 2008, 171, 22-34.	1.0	111
18	ADAPTATION OF RAINBOW FISH TO LAKE AND STREAM HABITATS. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 104-118.	1.1	110

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19	Comparing G: multivariate analysis of genetic variation in multiple populations. <i>Heredity</i> , 2014, 112, 21-29.	1.2	107
20	SIGNAL TRAIT SEXUAL DIMORPHISM AND MUTUAL SEXUAL SELECTION IN <i>DROSOPHILA SERRATA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 2326-2334.	1.1	104
21	THE ROLES OF NATURAL AND SEXUAL SELECTION DURING ADAPTATION TO A NOVEL ENVIRONMENT. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 2218-2225.	1.1	104
22	Cuticular hydrocarbons of <i>Drosophila birchii</i> and <i>D. serrata</i> : identification and role in mate choice in <i>D. serrata</i> . <i>Journal of Chemical Ecology</i> , 2003, 29, 961-976.	0.9	101
23	MULTIVARIATE QUANTITATIVE GENETICS AND THE LEK PARADOX: GENETIC VARIANCE IN MALE SEXUALLY SELECTED TRAITS OF <i>DROSOPHILA SERRATA</i> UNDER FIELD CONDITIONS. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 2754-2762.	1.1	101
24	The use of transcriptional profiles to predict adult mosquito age under field conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18060-18065.	3.3	99
25	Interaction between natural and sexual selection during the evolution of mate recognition. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 1113-1118.	1.2	97
26	The Depletion of Genetic Variance by Sexual Selection. <i>Current Biology</i> , 2007, 17, 528-532.	1.8	95
27	Positive genetic correlation between female preference and offspring fitness. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 2215-2219.	1.2	94
28	Dissecting the complex genetic basis of mate choice. <i>Nature Reviews Genetics</i> , 2006, 7, 681-692.	7.7	90
29	Characterizing the evolution of genetic variance using genetic covariance tensors. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 1567-1578.	1.8	88
30	Genetic Constraints on the Evolution of Mate Recognition under Natural Selection. <i>American Naturalist</i> , 2003, 161, 240-253.	1.0	85
31	Natural selection stops the evolution of male attractiveness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3659-3664.	3.3	82
32	Pedigree-free animal models: the relatedness matrix reloaded. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 639-647.	1.2	76
33	THE GENETICS OF CENTRAL AND MARGINAL POPULATIONS OF <i>DROSOPHILA SERRATA</i> . GENETIC VARIATION FOR STRESS RESISTANCE AND SPECIES BORDERS. <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 1255-1270.	1.1	75
34	Natural Genetic Variation in Cuticular Hydrocarbon Expression in Male and Female <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2007, 175, 1465-1477.	1.2	74
35	THE EVOLUTION OF REPRODUCTIVE CHARACTER DISPLACEMENT CONFLICTS WITH HOW SEXUAL SELECTION OPERATES WITHIN A SPECIES. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 1192-1203.	1.1	73
36	THE PHENOTYPIC AND GENETIC COVARIANCE STRUCTURE OF <i>DROSOPHILID</i> WINGS. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 902-911.	1.1	72

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37	Reconciling Strong Stabilizing Selection with the Maintenance of Genetic Variation in a Natural Population of Black Field Crickets (<i>Teleogryllus commodus</i>). <i>Genetics</i> , 2007, 177, 875-880.	1.2	68
38	Sexually antagonistic genetic variance for fitness in an ancestral and a novel environment. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 2009-2014.	1.2	68
39	Are Traits That Experience Reinforcement Also Under Sexual Selection?. <i>American Naturalist</i> , 2007, 170, 409-420.	1.0	67
40	QST MEETS THE G MATRIX: THE DIMENSIONALITY OF ADAPTIVE DIVERGENCE IN MULTIPLE CORRELATED QUANTITATIVE TRAITS. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 1437-1449.	1.1	62
41	Life-History Consequences of Divergent Selection on Egg Size in <i>Drosophila melanogaster</i> . <i>American Naturalist</i> , 1999, 154, 333-340.	1.0	61
42	Are wing size, wing shape and asymmetry related to field fitness of <i>Trichogramma</i> egg parasitoids?. <i>Oikos</i> , 2003, 100, 563-573.	1.2	60
43	REDUCING MUTATION LOAD THROUGH SEXUAL SELECTION ON MALES. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 2816-2829.	1.1	59
44	Evolution of Genetic Variance during Adaptive Radiation. <i>American Naturalist</i> , 2018, 191, E108-E128.	1.0	59
45	Experimental evidence for multivariate stabilizing sexual selection. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 871-80.	1.1	59
46	EXPERIMENTAL EVIDENCE FOR THE EVOLUTION OF INDIRECT GENETIC EFFECTS: CHANGES IN THE INTERACTION EFFECT COEFFICIENT, Ψ ($\hat{\rho}$), DUE TO SEXUAL SELECTION. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 1849-1856.	1.1	58
47	The distribution of genetic variance across phenotypic space and the response to selection. <i>Molecular Ecology</i> , 2015, 24, 2056-2072.	2.0	58
48	Evolutionary Constraints in High-Dimensional Trait Sets. <i>American Naturalist</i> , 2014, 184, 119-131.	1.0	55
49	Pleiotropy, apparent stabilizing selection and uncovering fitness optima. <i>Trends in Ecology and Evolution</i> , 2011, 26, 22-29.	4.2	51
50	Comparing Complex Fitness Surfaces: Among-Population Variation in Mutual Sexual Selection in <i>Drosophila serrata</i> . <i>American Naturalist</i> , 2008, 171, 443-454.	1.0	49
51	The Nature and Extent of Mutational Pleiotropy in Gene Expression of Male <i>Drosophila serrata</i> . <i>Genetics</i> , 2014, 196, 911-921.	1.2	46
52	The Genetics of Central and Marginal Populations of <i>Drosophila serrata</i> . I. Genetic Variation for Stress Resistance and Species Borders. <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 1255.	1.1	45
53	The diversification of mate preferences by natural and sexual selection. <i>Journal of Evolutionary Biology</i> , 2009, 22, 1608-1615.	0.8	45
54	The genetic covariance between life cycle stages separated by metamorphosis. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141091.	1.2	44

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55	ESTIMATING UNCERTAINTY IN MULTIVARIATE RESPONSES TO SELECTION. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 1188-1196.	1.1	44
56	Male choice generates stabilizing sexual selection on a female fecundity correlate. <i>Journal of Evolutionary Biology</i> , 2007, 20, 1745-1750.	0.8	43
57	Evolution of the genetic covariance between male and female components of mate recognition: an experimental test. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999, 266, 2169-2174.	1.2	42
58	GENETIC MECHANISMS OF POLLUTION RESISTANCE IN A MARINE INVERTEBRATE. <i>Ecological Applications</i> , 2007, 17, 2290-2297.	1.8	39
59	Genetic Analysis of Female Preference Functions as Function-Valued Traits. <i>American Naturalist</i> , 2008, 172, 194-202.	1.0	39
60	Spherical Cows Grazing in Flatland: Constraints to Selection and Adaptation. , 2009, , 83-101.		39
61	Predicting the age of mosquitoes using transcriptional profiles. <i>Nature Protocols</i> , 2007, 2, 2796-2806.	5.5	38
62	Pleiotropic Mutations Are Subject to Strong Stabilizing Selection. <i>Genetics</i> , 2014, 197, 1051-1062.	1.2	38
63	The roles of natural and sexual selection during adaptation to a novel environment. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 2218-25.	1.1	34
64	EVOLUTION OF ADDITIVE AND NONADDITIVE GENETIC VARIANCE IN DEVELOPMENT TIME ALONG A CLINE IN <i>DROSOPHILA SERRATA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 1846-1851.	1.1	31
65	SEXUAL CONFLICT AND THE MAINTENANCE OF MULTIVARIATE GENETIC VARIATION. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 1697-1703.	1.1	31
66	MULTIVARIATE QUANTITATIVE GENETICS AND THE LEK PARADOX: GENETIC VARIANCE IN MALE SEXUALLY SELECTED TRAITS OF <i>DROSOPHILA SERRATA</i> UNDER FIELD CONDITIONS. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 2754.	1.1	30
67	Genetic covariance between indices of body condition and immunocompetence in a passerine bird. <i>BMC Evolutionary Biology</i> , 2005, 5, 61.	3.2	30
68	QUANTITATIVE GENETICS OF FEMALE MATE PREFERENCES IN AN ANCESTRAL AND A NOVEL ENVIRONMENT. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 2758-2766.	1.1	30
69	The Genetic Covariance Among Clinal Environments After Adaptation to an Environmental Gradient in <i>Drosophila serrata</i> . <i>Genetics</i> , 2004, 167, 1281-1291.	1.2	29
70	AN EVOLUTIONARY LIMIT TO MALE MATING SUCCESS. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 1528-1537.	1.1	28
71	Evolutionary optimum for male sexual traits characterized using the multivariate Robertson-Price Identity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10414-10419.	3.3	27
72	Age determination in individual wild-caught <i>Drosophila serrata</i> using pteridine concentration. <i>Journal of Experimental Biology</i> , 2006, 209, 3155-3163.	0.8	26

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73	THE ROLES OF NATURAL AND SEXUAL SELECTION DURING ADAPTATION TO A NOVEL ENVIRONMENT. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 2218.	1.1	26
74	An expressed sequence tag (EST) library for <i>Drosophila serrata</i> , a model system for sexual selection and climatic adaptation studies. <i>BMC Genomics</i> , 2009, 10, 40.	1.2	26
75	EVOLVABILITY OF INDIVIDUAL TRAITS IN A MULTIVARIATE CONTEXT: PARTITIONING THE ADDITIVE GENETIC VARIANCE INTO COMMON AND SPECIFIC COMPONENTS. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 1899-911.	1.1	26
76	The Phenome-Wide Distribution of Genetic Variance. <i>American Naturalist</i> , 2015, 186, 15-30.	1.0	26
77	Ontogenetic Change in Genetic Variance in Size Depends on Growth Environment. <i>American Naturalist</i> , 2010, 175, 640-649.	1.0	24
78	Predator-induced phenotypic plasticity in tadpoles: extension or innovation?. <i>Journal of Evolutionary Biology</i> , 2006, 19, 450-458.	0.8	23
79	Substantial changes in the genetic basis of tadpole morphology of <i>Rana lessonae</i> in the presence of predators. <i>Journal of Evolutionary Biology</i> , 2006, 19, 1813-1818.	0.8	23
80	ASYMMETRY OF GENETIC VARIATION IN FITNESS-RELATED TRAITS: APPARENT STABILIZING SELECTION ON g_{max} . <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 2838-2847.	1.1	23
81	EXPERIMENTAL EVIDENCE FOR MULTIVARIATE STABILIZING SEXUAL SELECTION. <i>Evolution; International Journal of Organic Evolution</i> , 2005, 59, 871.	1.1	22
82	Complexity for complexity's sake?. <i>Journal of Evolutionary Biology</i> , 2007, 20, 39-44.	0.8	22
83	Accounting for Sampling Error in Genetic Eigenvalues Using Random Matrix Theory. <i>Genetics</i> , 2017, 206, 1271-1284.	1.2	22
84	Dominance Genetic Variance for Traits Under Directional Selection in <i>Drosophila serrata</i> . <i>Genetics</i> , 2015, 200, 371-384.	1.2	21
85	Environmentally induced development costs underlie fitness tradeoffs. <i>Ecology</i> , 2018, 99, 1391-1401.	1.5	20
86	THE CONTRIBUTION OF SPONTANEOUS MUTATIONS TO THERMAL SENSITIVITY CURVE VARIATION IN <i>DROSOPHILA SERRATA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 1824-1837.	1.1	19
87	EXPLORING COMPLEX FITNESS SURFACES: MULTIPLE ORNAMENTATION AND POLYMORPHISM IN MALE GUPPIES. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 1622.	1.1	17
88	Measuring natural and sexual selection on breeding values of male display traits in <i>Drosophila serrata</i> . <i>Journal of Evolutionary Biology</i> , 2006, 19, 35-41.	0.8	17
89	Large body size in an island-dwelling bird: a microevolutionary analysis. <i>Journal of Evolutionary Biology</i> , 2007, 20, 639-649.	0.8	17
90	Uneven Distribution of Mutational Variance Across the Transcriptome of <i>Drosophila serrata</i> Revealed by High-Dimensional Analysis of Gene Expression. <i>Genetics</i> , 2018, 209, 1319-1328.	1.2	16

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91	Loss of ecologically important genetic variation in late generation hybrids reveals links between adaptation and speciation. <i>Evolution Letters</i> , 2020, 4, 302-316.	1.6	16
92	The contribution of mutation and selection to multivariate quantitative genetic variance in an outbred population of <i>Drosophila serrata</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	16
93	HIGH-DIMENSIONAL VARIANCE PARTITIONING REVEALS THE MODULAR GENETIC BASIS OF ADAPTIVE DIVERGENCE IN GENE EXPRESSION DURING REPRODUCTIVE CHARACTER DISPLACEMENT. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 3126-3137.	1.1	15
94	JOINT ALLELIC EFFECTS ON FITNESS AND METRIC TRAITS. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 1131-1142.	1.1	15
95	Artificial Selection to Increase the Phenotypic Variance in g_{max} Fails. <i>American Naturalist</i> , 2017, 190, 707-723.	1.0	15
96	The Genetics of Central and Marginal Populations of <i>Drosophila serrata</i> . II. Hybrid Breakdown in Fitness Components as a Correlated Response to Selection for Desiccation Resistance. <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 1271.	1.1	14
97	THE GENETICS OF CENTRAL AND MARGINAL POPULATIONS OF <i>DROSOPHILA SERRATA</i> . II. HYBRID BREAKDOWN IN FITNESS COMPONENTS AS A CORRELATED RESPONSE TO SELECTION FOR DESICCATION RESISTANCE. <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 1271-1285.	1.1	14
98	Mutational Pleiotropy and the Strength of Stabilizing Selection Within and Between Functional Modules of Gene Expression. <i>Genetics</i> , 2018, 208, 1601-1616.	1.2	14
99	SIGNAL TRAIT SEXUAL DIMORPHISM AND MUTUAL SEXUAL SELECTION IN <i>DROSOPHILA SERRATA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 2326.	1.1	13
100	Simultaneous Estimation of Additive and Mutational Genetic Variance in an Outbred Population of <i>Drosophila serrata</i> . <i>Genetics</i> , 2015, 201, 1239-1251.	1.2	13
101	Heritable Micro-environmental Variance Covaries with Fitness in an Outbred Population of <i>Drosophila serrata</i> . <i>Genetics</i> , 2017, 206, 2185-2198.	1.2	13
102	Evidence for an Association between Nonadditive Genetic Variation and Extreme Expression of a Trait. <i>American Naturalist</i> , 1996, 148, 576-587.	1.0	13
103	Genetic Compatibility Underlies Benefits of Mate Choice in an External Fertilizer. <i>American Naturalist</i> , 2016, 187, 647-657.	1.0	12
104	Evolutionary Experiments on Mate Recognition in the <i>Drosophila Serrata</i> Species Complex. <i>Genetica</i> , 2002, 116, 239-250.	0.5	11
105	Sexual selection on spontaneous mutations strengthens the between-sex genetic correlation for fitness. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 2398-2409.	1.1	8
106	Relative influence of resident species and environmental variation on community assembly. <i>Marine Ecology - Progress Series</i> , 2014, 499, 103-113.	0.9	5
107	ADAPTATION OF RAINBOW FISH TO LAKE AND STREAM HABITATS. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 104.	1.1	4
108	Female mate choice predicts paternity success in the absence of additive genetic variance for other female paternity bias mechanisms in <i>Drosophila serrata</i> . <i>Journal of Evolutionary Biology</i> , 2014, 27, 2568-2572.	0.8	3

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109	Transcriptome-wide effects of sexual selection on the fate of new mutations. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 2905-2916.	1.1	2
110	Genotypic covariance between the performance of a resident species and community assembly in the field. <i>Functional Ecology</i> , 2018, 32, 533-544.	1.7	2
111	Evolutionary experiments on mate recognition in the <i>Drosophila serrata</i> species complex. <i>Contemporary Issues in Genetics and Evolution</i> , 2002, , 239-250.	0.9	2
112	Evolutionary experiments on mate recognition in the <i>Drosophila serrata</i> species complex. <i>Genetica</i> , 2002, 116, 239-50.	0.5	2
113	Causes of variability in estimates of mutational variance from mutation accumulation experiments. <i>Genetics</i> , 2022, 221, .	1.2	2