

Mark D Rausher

List of Publications by Year in descending order

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76
papers

5,845
citations

76326

40
h-index

76900

74
g-index

79
all docs

79
docs citations

79
times ranked

4697
citing authors

#	ARTICLE	IF	CITATIONS
1	THE MEASUREMENT OF SELECTION ON QUANTITATIVE TRAITS: BIASES DUE TO ENVIRONMENTAL COVARIANCES BETWEEN TRAITS AND FITNESS. <i>Evolution; International Journal of Organic Evolution</i> , 1992, 46, 616-626.	2.3	573
2	EXPERIMENTAL MANIPULATION OF PUTATIVE SELECTIVE AGENTS PROVIDES EVIDENCE FOR THE ROLE OF NATURAL ENEMIES IN THE EVOLUTION OF PLANT DEFENSE. <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 1435-1444.	2.3	406
3	Co-evolution and plant resistance to natural enemies. <i>Nature</i> , 2001, 411, 857-864.	27.8	391
4	Tradeoff between resistance and tolerance to herbivore damage in a morning glory. <i>Nature</i> , 1995, 377, 517-520.	27.8	363
5	VARIATION IN THE DEFENSE STRATEGIES OF PLANTS: ARE RESISTANCE AND TOLERANCE MUTUALLY EXCLUSIVE?. <i>Ecology</i> , 1997, 78, 1301-1311.	3.2	331
6	TRADEOFFS IN PERFORMANCE ON DIFFERENT HOSTS: EVIDENCE FROM WITHIN- AND BETWEEN-SITE VARIATION IN THE BEETLE <i>DELOYALA GUTTATA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1984, 38, 582-595.	2.3	204
7	Identification of two genes causing reinforcement in the Texas wildflower <i>Phlox drummondii</i> . <i>Nature</i> , 2011, 469, 411-414.	27.8	161
8	THE EVOLUTION OF HABITAT PREFERENCE IN SUBDIVIDED POPULATIONS. <i>Evolution; International Journal of Organic Evolution</i> , 1984, 38, 596-608.	2.3	136
9	Herbivory, Plant Density, and Plant Reproductive Success: The Effect of <i>Battus philenor</i> on <i>Aristolochia reticulata</i> . <i>Ecology</i> , 1980, 61, 905-917.	3.2	135
10	POPULATION GENETICS, PLEIOTROPY, AND THE PREFERENTIAL FIXATION OF MUTATIONS DURING ADAPTIVE EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 629-642.	2.3	134
11	Reconciling Conflicting Phylogenies in the Origin of Sweet Potato and Dispersal to Polynesia. <i>Current Biology</i> , 2018, 28, 1246-1256.e12.	3.9	133
12	Lessons from flower colour evolution on targets of selection. <i>Journal of Experimental Botany</i> , 2012, 63, 5741-5749.	4.8	130
13	POPULATION DIFFERENTIATION IN <i>EUPHYDRYAS EDITHA</i> BUTTERFLIES: LARVAL ADAPTATION TO DIFFERENT HOSTS. <i>Evolution; International Journal of Organic Evolution</i> , 1982, 36, 581-590.	2.3	126
14	Gene Loss and Parallel Evolution Contribute to Species Difference in Flower Color. <i>Molecular Biology and Evolution</i> , 2011, 28, 2799-2810.	8.9	118
15	THE EVOLUTION OF RESISTANCE TO HERBIVORY IN <i>IPOMOEA PURPUREA</i> . II. NATURAL SELECTION BY INSECTS AND COSTS OF RESISTANCE. <i>Evolution; International Journal of Organic Evolution</i> , 1989, 43, 573-585.	2.3	115
16	Phylogenetic Systematics of <i>Ipomoea</i> (Convolvulaceae) Based on ITS and Waxy Sequences. <i>Systematic Botany</i> , 1999, 24, 209.	0.5	112
17	Evolutionary Rate Variation in Anthocyanin Pathway Genes. <i>Molecular Biology and Evolution</i> , 2003, 20, 1844-1853.	8.9	108
18	THE EFFECTS OF HOST-PLANT GENOTYPE ON HERBIVORE POPULATION DYNAMICS. <i>Ecology</i> , 2000, 81, 1565-1576.	3.2	93

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19	Clutch size adjustment by a swallowtail butterfly. <i>Nature</i> , 1988, 333, 361-363.	27.8	91
20	Genetic changes contributing to the parallel evolution of red floral pigmentation among <i>Ipomoea</i> species. <i>New Phytologist</i> , 2009, 183, 751-763.	7.3	81
21	ABSENCE OF POLLEN DISCOUNTING IN A GENOTYPE OF <i>IPOMOEA PURPUREA</i> EXHIBITING INCREASED SELFING. <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 1688-1695.	2.3	78
22	PARALLEL EVOLUTION AT MULTIPLE LEVELS IN THE ORIGIN OF HUMMINGBIRD POLLINATED FLOWERS IN <i>IPOMOEA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 2044-54.	2.3	78
23	THE EVOLUTION OF RESISTANCE TO HERBIVORY IN <i>IPOMOEA PURPUREA</i> . I. ATTEMPTS TO DETECT SELECTION. <i>Evolution; International Journal of Organic Evolution</i> , 1989, 43, 563-572.	2.3	77
24	Altered trans-Regulatory Control of Gene Expression in Multiple Anthocyanin Genes Contributes to Adaptive Flower Color Evolution in <i>Mimulus aurantiacus</i> . <i>Molecular Biology and Evolution</i> , 2009, 26, 433-444.	8.9	75
25	DO FLORAL PIGMENTATION GENES ALSO INFLUENCE RESISTANCE TO ENEMIES? THE W LOCUS IN <i>IPOMOEA PURPUREA</i> . <i>Ecology</i> , 1997, 78, 1646-1654.	3.2	73
26	Precise spatio-temporal regulation of the anthocyanin biosynthetic pathway leads to petal spot formation in <i>Clarkia gracilis</i> (Onagraceae). <i>New Phytologist</i> , 2013, 197, 958-969.	7.3	72
27	The Effect of Native Vegetation on the Susceptibility of <i>Aristolochia Reticulata</i> (Aristolochiaceae) to Herbivore Attack. <i>Ecology</i> , 1981, 62, 1187-1195.	3.2	71
28	Variation in Constraint Versus Positive Selection as an Explanation for Evolutionary Rate Variation Among Anthocyanin Genes. <i>Journal of Molecular Evolution</i> , 2008, 67, 137-144.	1.8	69
29	PREDICTABILITY AND IRREVERSIBILITY OF GENETIC CHANGES ASSOCIATED WITH FLOWER COLOR EVOLUTION IN <i>PENSTEMON BARBATUS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 1058-1070.	2.3	69
30	Identification of major quantitative trait loci underlying floral pollination syndrome divergence in <i>Penstemon</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130349.	4.0	67
31	A taxonomic monograph of <i>Ipomoea</i> integrated across phylogenetic scales. <i>Nature Plants</i> , 2019, 5, 1136-1144.	9.3	67
32	BALANCING SELECTION ON A FLORAL POLYMORPHISM. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 691-695.	2.3	65
33	Evolution of the selfing syndrome in <i>Ipomoea</i> . <i>Frontiers in Plant Science</i> , 2013, 4, 301.	3.6	62
34	Commentary: When does understanding phenotypic evolution require identification of the underlying genes?. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 1655-1664.	2.3	62
35	THE ROLE OF INBREEDING DEPRESSION IN MAINTAINING THE MIXED MATING SYSTEM OF THE COMMON MORNING GLORY, <i>IPOMOEA PURPUREA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1999, 53, 1366-1376.	2.3	57
36	SELECTION ON A FLORAL COLOR POLYMORPHISM IN THE TALL MORNING GLORY (<i>IPOMOEA PURPUREA</i>): TRANSMISSION SUCCESS OF THE ALLELES THROUGH POLLEN. <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 66-78.	2.3	54

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37	Ecological Transition Predictably Associated with Gene Degeneration. <i>Molecular Biology and Evolution</i> , 2015, 32, 347-354.	8.9	53
38	How petals change their spots: cis-regulatory rewiring in <i>Clarkia</i> (Onagraceae). <i>New Phytologist</i> , 2017, 216, 510-518.	7.3	50
39	PATTERNS OF SELECTION ON PHYTOPHAGE RESISTANCE IN <i>IPOMOEA PURPUREA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1993, 47, 970-976.	2.3	48
40	THE EVOLUTION OF GENES IN BRANCHED METABOLIC PATHWAYS. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 34-48.	2.3	42
41	Multiplexed shotgun genotyping resolves species relationships within the North American genus <i>Penstemon</i> . <i>American Journal of Botany</i> , 2016, 103, 912-922.	1.7	42
42	Neutral Evolution of the Nonbinding Region of the Anthocyanin Regulatory Gene <i>Ipmyb1</i> in <i>Ipomoea</i> . Sequence data from this article have been deposited with the EMBL/GenBank Data Libraries under accession nos. AY986823, AY986824, AY986825, AY986826, AY986827, AY986828, AY986829, AY986830, AY986831, AY986832, AY986833, AY986834, AY986835, AY986836, AY986837, AY986838, AY986839, AY986840, AY986841, AY986842, AY986843, AY986844, AY986845, AY986846, AY986847, AY986848, AY986849, AY986850, AY986851, AY986852, AY986853, AY986854, AY986855. <i>Genetics</i> , 2005, 170, 1967-1978.	2.9	41
43	Bioassay versus chemical assay: measuring the impact of induced and constitutive resistance on herbivores in the field. <i>Oecologia</i> , 2002, 131, 211-219.	2.0	38
44	QUANTIFYING PATTERNS IN THE EVOLUTION OF REPRODUCTIVE ISOLATION. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 1424-1433.	2.3	34
45	The genome of a cave plant, <i>Primulina huaijiensis</i> , provides insights into adaptation to limestone karst habitats. <i>New Phytologist</i> , 2020, 227, 1249-1263.	7.3	32
46	Close clustering of anthers and stigma in <i>Ipomoea hederacea</i> enhances prezygotic isolation from <i>Ipomoea purpurea</i> . <i>New Phytologist</i> , 2007, 173, 641-647.	7.3	31
47	Gene flow, divergent selection and resistance to introgression in two species of morning glories (<i>Ipomoea</i>). <i>Molecular Ecology</i> , 2019, 28, 1709-1729.	3.9	31
48	Relationship of phenotypic and genetic variation in <i>Plantago lanceolata</i> to disease caused by <i>Fusarium moniliforme</i> var. <i>subglutinans</i> . <i>Oecologia</i> , 1984, 65, 89-93.	2.0	29
49	Strong Reinforcing Selection in a Texas Wildflower. <i>Current Biology</i> , 2014, 24, 1995-1999.	3.9	29
50	Two genetic changes in cis-regulatory elements caused evolution of petal spot position in <i>Clarkia</i> . <i>Nature Plants</i> , 2018, 4, 14-22.	9.3	29
51	<i>R2R3-MYB</i> genes control petal pigmentation patterning in <i>Clarkia gracilis</i> ssp. <i>sonomensis</i> (Onagraceae). <i>New Phytologist</i> , 2021, 229, 1147-1162.	7.3	29
52	Control of expression patterns of anthocyanin structural genes by two loci in the common morning glory. <i>Genes and Genetic Systems</i> , 1998, 73, 105-110.	0.7	28
53	Evolution of host range in <i>Coleosporium ipomoeae</i> , a plant pathogen with multiple hosts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5346-5351.	7.1	24
54	Predictable patterns of constraint among anthocyanin-regulating transcription factors in <i>Ipomoea</i> . <i>New Phytologist</i> , 2011, 191, 264-274.	7.3	20

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55	Plant evolutionary ecology. <i>New Phytologist</i> , 2005, 165, 2-5.	7.3	19
56	A Balanced Data Archiving Policy for Long-Term Studies. <i>Trends in Ecology and Evolution</i> , 2016, 31, 84-85.	8.7	17
57	Genetic architecture of quantitative flower and leaf traits in a pair of sympatric sister species of <i>Primulina</i> . <i>Heredity</i> , 2019, 122, 864-876.	2.6	17
58	Morphological and genetic differentiation and reproductive isolation among closely related taxa in the <i>pomoea</i> series <i>Batatas</i> . <i>American Journal of Botany</i> , 2013, 100, 2183-2193.	1.7	16
59	Multiple aspects of the selfing syndrome of the morning glory <i>Ipomoea lacunosa</i> evolved in response to selection: A Qst-Fst comparison. <i>Ecology and Evolution</i> , 2019, 9, 7712-7725.	1.9	16
60	SELECTION ON A FLORAL COLOR POLYMORPHISM IN THE COMMON MORNING GLORY (<i>IPOMOEA</i>) Organic Evolution, 1997, 51, 608-614.	2.3	13
61	Effects of variation at the flower-colour A locus on mating system parameters in <i>Ipomoea purpurea</i> . <i>Molecular Ecology</i> , 2004, 13, 1839-1847.	3.9	13
62	SNP π -skimming: A fast approach to map loci generating quantitative variation in natural populations. <i>Molecular Ecology Resources</i> , 2018, 18, 1402-1414.	4.8	10
63	Costs of resistance and correlational selection in the multiple herbivore community of <i>Solanum carolinense</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 2411-2420.	2.3	9
64	Clumped distribution patterns in goldenrod aphids: genetic and ecological mechanisms. <i>Ecological Entomology</i> , 1995, 20, 75-83.	2.2	8
65	Modularity and selection of nectar traits in the evolution of the selfing syndrome in <i>Ipomoea lacunosa</i> (Convolvulaceae). <i>New Phytologist</i> , 2022, 233, 1505-1519.	7.3	8
66	Prolonged Adaptive Evolution of a Defensive Gene in the Solanaceae. <i>Molecular Biology and Evolution</i> , 2016, 33, 143-151.	8.9	5
67	Genetic architecture of divergence: the selfing syndrome in <i>Ipomoea lacunosa</i> . <i>American Journal of Botany</i> , 2021, 108, 2038-2054.	1.7	5
68	Molecular analysis of structural genes involved in flavonoids biosynthesis in naturally colored cotton. <i>Crop Science</i> , 2021, 61, 1117-1126.	1.8	4
69	Ancient Gene Duplications, Rather Than Polyploidization, Facilitate Diversification of Petal Pigmentation Patterns in <i>Clarkia gracilis</i> (Onagraceae). <i>Molecular Biology and Evolution</i> , 2021, 38, 5528-5538.	8.9	4
70	Selection favors loss of floral pigmentation in a highly selfing morning glory. <i>PLoS ONE</i> , 2020, 15, e0231263.	2.5	3
71	Differences of flavonoid structural genes preferentially expressed in brown and green natural colored cotton. <i>Türk Tarım Ve Ormancılık Dergisi/Turkish Journal of Agriculture and Forestry</i> , 2021, 45, 266-272.	2.1	3
72	The Effects of Host-Plant Genotype on Herbivore Population Dynamics. <i>Ecology</i> , 2000, 81, 1565.	3.2	3

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73	Comment on "Evolutionary Paths Underlying Flower Color Variation in <i>Antirrhinum</i> ". <i>Science</i> , 2007, 315, 461a-461a.	12.6	1
74	Plant evolutionary developmental biology. Introduction to a special issue. <i>New Phytologist</i> , 2017, 216, 335-336.	7.3	1
75	VARIATION IN THE DEFENSE STRATEGIES OF PLANTS: ARE RESISTANCE AND TOLERANCE MUTUALLY EXCLUSIVE?., 1997, 78, 1301.		1
76	Morphological and molecular characterization of variation in common bean (<i>Phaseolus vulgaris</i> L.) germplasm from Azad Jammu and Kashmir, Pakistan. <i>PLoS ONE</i> , 2022, 17, e0265817.	2.5	1