Paul M Brakefield

List of Publications by Year
in descending order

101 papers	6,173 citations	71102 41 h-index	76900 74 g-index
104 all docs	104 docs citations	104 times ranked	3772 citing authors

#	Article	IF	Citations
1	Miocene Climate and Habitat Change Drove Diversification inBicyclus, Africaâ€™s Largest Radiation of Satyrine Butterflies. Systematic Biology, 2022, 71, 570-588.	5.6	12
2	Seasonal environments drive convergent evolution of a faster paceâ€ofâ€life in tropical butterflies. Ecology Letters, 2021, 24, 102-112.	6.4	9
3	Predictability of temporal variation in climate and the evolution of seasonal polyphenism in tropical butterfly communities. Journal of Evolutionary Biology, 2021, 34, 1362-1375.	1.7	8
4	A release from developmental bias accelerates morphological diversification in butterfly eyespots. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27474-27480.	7.1	8
5	Complex multi-trait responses to multivariate environmental cues in a seasonal butterfly. Evolutionary Ecology, 2020, 34, 713-734.	1.2	15
6	To mate, or not to mate: The evolution of reproductive diapause facilitates insect radiation into African savannahs in the Late Miocene. Journal of Animal Ecology, 2020, 89, 1230-1241.	2.8	14
7	Surprisingly long body length of the lungworm Parafilaroides gymnurus from common seals of the Dutch North Sea. Parasitology Research, 2020, 119, 1803-1817.	1.6	3
8	Genetics and selective breeding of variation in wing truncation in a flightless aphid control agent. Entomologia Experimentalis Et Applicata, 2019, 167, 636-645.	1.4	12
9	Adaptation of a tropical butterfly to a temperate climate. Biological Journal of the Linnean Society, 2018, 123, 279-289.	1.6	11
10	Sexual selection contributes to partial restoration of phenotypic robustness in a butterfly. Scientific Reports, 2018, 8, 14315.	3.3	12
11	Developmental Bias and Evolution: A Regulatory Network Perspective. Genetics, 2018, 209, 949-966.	2.9	146
12	Developmental plasticity for male secondary sexual traits in a group of polyphenic tropical butterflies. Oikos, 2018, 127, 1812-1821.	2.7	15
13	Growing more positive with age: The relationship between reproduction and survival in aging flies. Experimental Gerontology, 2017, 90, 34-42.	2.8	4
14	A high-coverage draft genome of the mycalesine butterfly Bicyclus anynana. GigaScience, 2017, 6, 1-7.	6.4	55
15	Pervasive gene expression responses to a fluctuating diet inDrosophila melanogaster: The importance of measuring multiple traits to decouple potential mediators of life span and reproduction. Evolution; International Journal of Organic Evolution, 2017, 71, 2572-2583.	2.3	10
16	Conserved patterns of integrated developmental plasticity in a group of polyphenic tropical butterflies. BMC Evolutionary Biology, 2017, 17, 59.	3.2	43
17	Expanded molecular phylogeny of the genusBicyclus(Lepidoptera: Nymphalidae) shows the importance of increased sampling for detecting semi-cryptic species and highlights potentials for future studies. Systematics and Biodiversity, 2017, 15, 115-130.	1.2	15
18	Molecular phylogeny and genericâ€level taxonomy of the widespread palaeotropical â€˜Heteropsis cladeâ€™ (Nymphalidae: Satyrinae: Mycalesina). Systematic Entomology, 2016, 41, 717-731.	3.9	11

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19	Revision of the Bicyclus sciathis species group (Lepidoptera: Nymphalidae) with descriptions of four new species and corrected distributional records. Systematic Entomology, 2016, 41, 207-228.	3.9	11
20	Preference for C₄ shade grasses increases hatchling performance in the butterfly, Bicyclus safitza. Ecology and Evolution, 2016, 6, 5246-5255.	1.9	13
21	The stable isotope ecology of mycalesine butterflies: implications for plantâ€“insectÂcoâ€evolution. Functional Ecology, 2016, 30, 1936-1946.	3.6	20
22	Systematics and historical biogeography of the old world butterfly subtribe Mycalesina (Lepidoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.2	40
23	On the fate of seasonally plastic traits in a rainforest butterfly under relaxed selection. Ecology and Evolution, 2014, 4, 2654-2667.	1.9	20
24	Adaptive developmental plasticity: Compartmentalized responses to environmental cues and to corresponding internal signals provide phenotypic flexibility. BMC Biology, 2014, 12, 97.	3.8	45
25	Ecdysteroid Hormones Link the Juvenile Environment to Alternative Adult Life Histories in a Seasonal Insect. American Naturalist, 2014, 184, E79-E92.	2.1	39
26	The Predictive Adaptive Response: Modeling the Life-History Evolution of the Butterfly Bicyclus anynana in Seasonal Environments. American Naturalist, 2013, 181, E28-E42.	2.1	45
27	Releases of a natural flightless strain of the ladybird beetle Adalia bipunctata reduce aphid-born honeydew beneath urban lime trees. BioControl, 2013, 58, 195-204.	2.0	15
28	Evo-devo and accounting for Darwin's endless forms. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 2069-2075.	4.0	75
29	Translating environmental gradients into discontinuous reaction norms via hormone signalling in a polyphenic butterfly. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 789-797.	2.6	79
30	Seasonal polyphenisms and environmentally induced plasticity in the Lepidoptera: The coordinated evolution of many traits on multiple levels. , 2011, , 243-252.		44
31	Radiations of Mycalesine Butterflies and Opening Up Their Exploration of Morphospace. American Naturalist, 2010, 176, S77-S87.	2.1	19
32	Predictive Adaptive Responses: ConditionâEDependent Impact of Adult Nutrition and Flight in the Tropical ButterflyBicyclus anynana. American Naturalist, 2010, 176, 686-698.	2.1	84
33	Fresh Weight, Dry Weight, and Fat Content of Adult African Butterflies Bicyclus anynana. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5212-pdb.prot5212.	0.3	2
34	Constant Volume Respirometry in the African Butterfly Bicyclus anynana. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5213.	0.3	2
35	Injection of Chemicals into Pupae of the African Butterfly Bicyclus anynana. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5215.	0.3	1
36	Surgical Manipulations on Pupal Wings from the African Butterfly Bicyclus anynana: Grafts. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5205.	0.3	1

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37	Extraction and Gas Chromatography Analysis of Adult Pheromones from the African Butterfly Bicyclus anynana. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5211-pdb.prot5211.	0.3	1
38	Surgical Manipulations on Pupal Wings from the African Butterfly Bicyclus anynana: Damage and Cauteries. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5204-pdb.prot5204.	0.3	2
39	Fixation and Dissection of Embryos from the African Butterfly Bicyclus anynana. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5206.	0.3	8
40	Hemolymph Extraction from Various Developmental Stages of the African Butterfly Bicyclus anynana. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5214-pdb.prot5214.	0.3	1
41	Dissection of Larval and Pupal Wings from the African Butterfly Bicyclus anynana. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5207-pdb.prot5207.	0.3	8
42	Culture and Propagation of Laboratory Populations of the African Butterfly Bicyclus anynana. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5203-pdb.prot5203.	0.3	17
43	Immunohistochemistry Staining of Embryos from the African Butterfly Bicyclus anynana. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5209.	0.3	6
44	Immunohistochemistry Staining of Wing Discs from the African Butterfly Bicyclus anynana. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5210-pdb.prot5210.	0.3	2
45	The African Butterfly Bicyclus anynana: A Model for Evolutionary Genetics and Evolutionary Developmental Biology. Cold Spring Harbor Protocols, 2009, 2009, pdb.emo122.	0.3	65
46	In Situ Hybridization of Embryos and Larval and Pupal Wings from the African Butterfly Bicyclus anynana. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5208.	0.3	9
47	Differences in the selection response of serially repeated color pattern characters: Standing variation, development, and evolution. BMC Evolutionary Biology, 2008, 8, 94.	3.2	110
48	Increased Life Span in a Polyphenic Butterfly Artificially Selected for Starvation Resistance. American Naturalist, 2008, 171, 81-90.	2.1	32
49	Pleiotropic effects associated with an allele enabling the flea beetle Phyllotreta nemorum to use Barbarea vulgaris as a host plant. Evolutionary Ecology, 2007, 21, 13-26.	1.2	3
50	Phenotypic plasticity of starvation resistance in the butterfly Bicyclus anynana. Evolutionary Ecology, 2007, 21, 589-600.	1.2	52
51	Developmental plasticity and acclimation both contribute to adaptive responses to alternating seasons of plenty and of stress in Bicyclus butterflies. Journal of Biosciences, 2007, 32, 465-475.	1.1	67
52	Butterfly Eyespot Patterns and How Evolutionary Tinkering Yields Diversity. Novartis Foundation Symposium, 2007, 284, 90-109.	1.1	4
53	Evo-devo and constraints on selection. Trends in Ecology and Evolution, 2006, 21, 362-368.	8.7	256
54	MULTITRAIT EVOLUTION IN LINES OFDROSOPHILA MELANOGASTERSELECTED FOR INCREASED STARVATION RESISTANCE: THE ROLE OF METABOLIC RATE AND IMPLICATIONS FOR THE EVOLUTION OF LONGEVITY. Evolution; International Journal of Organic Evolution, 2006, 60, 1435-1444.	2.3	49

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55	Vertical and Temporal Patterns of Biodiversity of Fruit-Feeding Butterflies in a Tropical Forest in Uganda. Biodiversity and Conservation, 2006, 15, 107-121.	2.6	73
56	Preferences and Food Quality of Fruit-Feeding Butterflies in Kibale Forest, Uganda1. Biotropica, 2005, 37, 657-663.	1.6	33
57	What are the effects of maternal and pre-adult environments on ageing in humans, and are there lessons from animal models?. Mechanisms of Ageing and Development, 2005, 126, 431-438.	4.6	48
58	The dynamics of evolutionary stasis. Paleobiology, 2005, 31, 133-145.	2.0	308
59	Does predation maintain eyespot plasticity in Bicyclus anynana ?. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 279-283.	2.6	188
60	The effect of male sodium diet and mating history on female reproduction in the puddling squinting bush brown Bicyclus anynana (Lepidoptera). Behavioral Ecology and Sociobiology, 2004, 56, 404.	1.4	28
61	The power of evo-devo to explore evolutionary constraints: experiments with butterfly eyespots. Zoology, 2003, 106, 283-290.	1.2	55
62	Significance of butterfly eyespots as an anti-predator device in ground-based and aerial attacks. Oikos, 2003, 100, 373-379.	2.7	101
63	Development and the Genetics of Evolutionary Change Within Insect Species. Annual Review of Ecology, Evolution, and Systematics, 2003, 34, 633-660.	8.3	48
64	PLASTICITY IN BUTTERFLY EGG SIZE: WHY LARGER OFFSPRING AT LOWER TEMPERATURES?. Ecology, 2003, 84, 3138-3147.	3.2	183
65	ARTIFICIAL SELECTION AND THE DEVELOPMENT OF ECOLOGICALLY RELEVANT PHENOTYPES. Ecology, 2003, 84, 1661-1671.	3.2	63
66	Female choice depends on size but not symmetry of dorsal eyespots in the butterfly Bicyclus anynana. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 1233-1239.	2.6	81
67	How does egg size relate to body size in butterflies?. Oecologia, 2002, 131, 375-379.	2.0	69
68	Developmental constraints versus flexibility in morphological evolution. Nature, 2002, 416, 844-847.	27.8	301
69	The genetics and evoâ€“devo of butterfly wing patterns. Nature Reviews Genetics, 2002, 3, 442-452.	16.3	281
70	Effects of bottlenecks on quantitative genetic variation in the butterfly Bicyclus anynana. Genetical Research, 2001, 77, 167-181.	0.9	36
71	Correlations between scale structure and pigmentation in butterfly wings. Evolution & Development, 2001, 3, 415-423.	2.0	53
72	Butterfly eyespot patterns: evidence for specification by a morphogen diffusion gradient. Acta Biotheoretica, 2001, 49, 77-88.	1.5	34

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73	The generation and diversification of butterfly eyespot color patterns. Current Biology, 2001, 11, 1578-1585.	3.9	280
74	INBREEDING DEPRESSION AND GENETIC LOAD IN LABORATORY METAPOPULATIONS OF THE BUTTERFLYBICYCLUS ANYNANA. Evolution; International Journal of Organic Evolution, 2000, 54, 218-225.	2.3	54
75	Title is missing!. Conservation Genetics, 2000, 1, 321-328.	1.5	8
76	The critical period for wing pattern induction in the polyphenic tropical butterfly Bicyclus anynana (Satyrinae). Journal of Insect Physiology, 1999, 45, 201-212.	2.0	69
77	Climate and change in clines for melanism in the twoâ€“spot ladybird, Adalia bipunctata (Coleoptera:) Tj ETQq1 1 0.784314 rgBT /Overl	2.6	74
78	Butterfly Eyespots: The Genetics and Development of the Color Rings. Evolution; International Journal of Organic Evolution, 1997, 51, 1207.	2.3	42
79	BUTTERFLY EYESPOTS: THE GENETICS AND DEVELOPMENT OF THE COLOR RINGS. Evolution; International Journal of Organic Evolution, 1997, 51, 1207-1216.	2.3	53
80	SEVERE INBREEDING DEPRESSION AND RAPID FITNESS REBOUND IN THE BUTTERFLYBICYCLUS ANYNANA(SATYRIDAE). Evolution; International Journal of Organic Evolution, 1996, 50, 2000-2013.	2.3	97
81	Effects of food plant on phenotypic plasticity in the tropical butterfly Bicyclus anynana. Entomologia Experimentalis Et Applicata, 1996, 80, 149-151.	1.4	27
82	Development, plasticity and evolution of butterfly eyespot patterns. Nature, 1996, 384, 236-242.	27.8	505
83	Effects of food plant on phenotypic plasticity in the tropical butterfly Bicyclus anynana. , 1996, , 149-151.		2
84	Matching field and laboratory environments: effects of neglecting daily temperature variation on insect reaction norms. Journal of Evolutionary Biology, 1995, 8, 559-573.	1.7	98
85	Artificial selection of reaction norms of wing pattern elements in Bicyclus anynana. Heredity, 1995, 74, 91-99.	2.6	21
86	Eyespot Development on Butterfly Wings: The Focal Signal. Developmental Biology, 1995, 168, 112-123.	2.0	131
87	Seasonal polyphenism in the wild: survey of wing patterns in five species of Bicyclus butterflies in Malawi. Ecological Entomology, 1994, 19, 285-298.	2.2	95
88	The Evolutionary Genetics and Developmental Basis of Wing Pattern Variation in the Butterfly Bicyclus anynana. Evolution; International Journal of Organic Evolution, 1994, 48, 1147.	2.3	41
89	THE EVOLUTIONARY GENETICS AND DEVELOPMENTAL BASIS OF WING PATTERN VARIATION IN THE BUTTERFLYBICYCLUS ANYNANA. Evolution; International Journal of Organic Evolution, 1994, 48, 1147-1157.	2.3	72
90	Sperm competition and melanic polymorphism in the 2-spot ladybird, Adalia bipunctata (Coleoptera,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.6	24

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91	The genetics of wing pattern elements in the polyphenic butterfly, Bicyclus anynana. Heredity, 1993, 70, 179-186.	2.6	41
92	Phenotypic plasticity, seasonal climate and the population biology of Bicyclus butterflies (Satyridae) in Malawi. Ecological Entomology, 1991, 16, 291-303.	2.2	273
93	The genetics of colour polymorphism in the aposematic Jersey Tiger Moth Callimorpha quadripunctaria. Heredity, 1990, 64, 87-92.	2.6	6
94	Differences between the 7â€spot and 2â€spot ladybird beetles (Coccinellidae) in their toxic effects on a bird predator. Ecological Entomology, 1989, 14, 79-84.	2.2	95
95	Geographical variability in, and temperature effects on, the phenology of Maniola jurtina and Pyronia tithonus (Lepidoptera, Satyrinae) in England and Wales. Ecological Entomology, 1987, 12, 139-148.	2.2	43
96	Melanism in Adalia ladybirds and declining air pollution in Birmingham. Heredity, 1987, 59, 273-277.	2.6	25
97	Behavioural studies on the peppered moth Biston betularia and a discussion of the role of pollution and lichens in industrial melanism. Biological Journal of the Linnean Society, 1987, 31, 129-150.	1.6	34
98	Tropical dry and wet season polyphenism in the butterfly Melanitis leda (Satyrinae): Phenotypic plasticity and climatic correlates. Biological Journal of the Linnean Society, 1987, 31, 175-191.	1.6	52
99	Studies of colour polymorphism in some marginal populations of the aposematic jersey tiger moth Callimorpha quadripunctaria. Biological Journal of the Linnean Society, 1985, 26, 225-241.	1.6	16
100	Polymorphic MÃ¼llerian mimicry and interactions with thermal melanism in ladybirds and a soldier beetle: a hypothesis. Biological Journal of the Linnean Society, 1985, 26, 243-267.	1.6	114
101	The evolutionary significance of dry and wet season forms in some tropical butterflies. Biological Journal of the Linnean Society, 1984, 22, 1-12.	1.6	143