

# Paul M Brakefield

## List of Publications by Year in descending order

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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	Development, plasticity and evolution of butterfly eyespot patterns. <i>Nature</i> , 1996, 384, 236-242.	27.8	505
2	The dynamics of evolutionary stasis. <i>Paleobiology</i> , 2005, 31, 133-145.	2.0	308
3	Developmental constraints versus flexibility in morphological evolution. <i>Nature</i> , 2002, 416, 844-847.	27.8	301
4	The genetics and evo-devo of butterfly wing patterns. <i>Nature Reviews Genetics</i> , 2002, 3, 442-452.	16.3	281
5	The generation and diversification of butterfly eyespot color patterns. <i>Current Biology</i> , 2001, 11, 1578-1585.	3.9	280
6	Phenotypic plasticity, seasonal climate and the population biology of <i>Bicyclus</i> butterflies (Satyridae) in Malawi. <i>Ecological Entomology</i> , 1991, 16, 291-303.	2.2	273
7	Evo-devo and constraints on selection. <i>Trends in Ecology and Evolution</i> , 2006, 21, 362-368.	8.7	256
8	Does predation maintain eyespot plasticity in <i>Bicyclus anynana</i> ?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 279-283.	2.6	188
9	PLASTICITY IN BUTTERFLY EGG SIZE: WHY LARGER OFFSPRING AT LOWER TEMPERATURES?. <i>Ecology</i> , 2003, 84, 3138-3147.	3.2	183
10	Developmental Bias and Evolution: A Regulatory Network Perspective. <i>Genetics</i> , 2018, 209, 949-966.	2.9	146
11	The evolutionary significance of dry and wet season forms in some tropical butterflies. <i>Biological Journal of the Linnean Society</i> , 1984, 22, 1-12.	1.6	143
12	Eyespot Development on Butterfly Wings: The Focal Signal. <i>Developmental Biology</i> , 1995, 168, 112-123.	2.0	131
13	Polymorphic Müllerian mimicry and interactions with thermal melanism in ladybirds and a soldier beetle: a hypothesis. <i>Biological Journal of the Linnean Society</i> , 1985, 26, 243-267.	1.6	114
14	Differences in the selection response of serially repeated color pattern characters: Standing variation, development, and evolution. <i>BMC Evolutionary Biology</i> , 2008, 8, 94.	3.2	110
15	Significance of butterfly eyespots as an anti-predator device in ground-based and aerial attacks. <i>Oikos</i> , 2003, 100, 373-379.	2.7	101
16	Matching field and laboratory environments: effects of neglecting daily temperature variation on insect reaction norms. <i>Journal of Evolutionary Biology</i> , 1995, 8, 559-573.	1.7	98
17	SEVERE INBREEDING DEPRESSION AND RAPID FITNESS REBOUND IN THE BUTTERFLY <i>BICYCLUS ANYNANA</i> (SATYRIDAE). <i>Evolution; International Journal of Organic Evolution</i> , 1996, 50, 2000-2013.	2.3	97
18	Differences between the 7-spot and 2-spot ladybird beetles (Coccinellidae) in their toxic effects on a bird predator. <i>Ecological Entomology</i> , 1989, 14, 79-84.	2.2	95

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19	Seasonal polyphenism in the wild: survey of wing patterns in five species of <i>Bicyclus</i> butterflies in Malawi. <i>Ecological Entomology</i> , 1994, 19, 285-298.	2.2	95
20	Predictive Adaptive Responses: Condition-Dependent Impact of Adult Nutrition and Flight in the Tropical Butterfly <i>Bicyclus anynana</i> . <i>American Naturalist</i> , 2010, 176, 686-698.	2.1	84
21	Female choice depends on size but not symmetry of dorsal eyespots in the butterfly <i>Bicyclus anynana</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 1233-1239.	2.6	81
22	Translating environmental gradients into discontinuous reaction norms via hormone signalling in a polyphenic butterfly. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 789-797.	2.6	79
23	Evo-devo and accounting for Darwin's endless forms. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 2069-2075.	4.0	75
24	Climate and change in clines for melanism in the two-spot ladybird, <i>Adalia bipunctata</i> (Coleoptera: Tj ETQq0 0 0 rgBT /Overlock 10 T	2.6	74
25	Vertical and Temporal Patterns of Biodiversity of Fruit-Feeding Butterflies in a Tropical Forest in Uganda. <i>Biodiversity and Conservation</i> , 2006, 15, 107-121.	2.6	73
26	THE EVOLUTIONARY GENETICS AND DEVELOPMENTAL BASIS OF WING PATTERN VARIATION IN THE BUTTERFLY <i>BICYCLUS ANYNANA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1994, 48, 1147-1157.	2.3	72
27	The critical period for wing pattern induction in the polyphenic tropical butterfly <i>Bicyclus anynana</i> (Satyrinae). <i>Journal of Insect Physiology</i> , 1999, 45, 201-212.	2.0	69
28	How does egg size relate to body size in butterflies?. <i>Oecologia</i> , 2002, 131, 375-379.	2.0	69
29	Developmental plasticity and acclimation both contribute to adaptive responses to alternating seasons of plenty and of stress in <i>Bicyclus</i> butterflies. <i>Journal of Biosciences</i> , 2007, 32, 465-475.	1.1	67
30	The African Butterfly <i>Bicyclus anynana</i> : A Model for Evolutionary Genetics and Evolutionary Developmental Biology. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.emo122.	0.3	65
31	ARTIFICIAL SELECTION AND THE DEVELOPMENT OF ECOLOGICALLY RELEVANT PHENOTYPES. <i>Ecology</i> , 2003, 84, 1661-1671.	3.2	63
32	The power of evo-devo to explore evolutionary constraints: experiments with butterfly eyespots. <i>Zoology</i> , 2003, 106, 283-290.	1.2	55
33	A high-coverage draft genome of the mycalesine butterfly <i>Bicyclus anynana</i> . <i>GigaScience</i> , 2017, 6, 1-7.	6.4	55
34	INBREEDING DEPRESSION AND GENETIC LOAD IN LABORATORY METAPOPOPULATIONS OF THE BUTTERFLY <i>BICYCLUS ANYNANA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 218-225.	2.3	54
35	BUTTERFLY EYESPOTS: THE GENETICS AND DEVELOPMENT OF THE COLOR RINGS. <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 1207-1216.	2.3	53
36	Correlations between scale structure and pigmentation in butterfly wings. <i>Evolution &amp; Development</i> , 2001, 3, 415-423.	2.0	53

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37	Tropical dry and wet season polyphenism in the butterfly <i>Melanitis leda</i> (Satyrinae): Phenotypic plasticity and climatic correlates. <i>Biological Journal of the Linnean Society</i> , 1987, 31, 175-191.	1.6	52
38	Phenotypic plasticity of starvation resistance in the butterfly <i>Bicyclus anynana</i> . <i>Evolutionary Ecology</i> , 2007, 21, 589-600.	1.2	52
39	MULTITRAIT EVOLUTION IN LINES OF <i>DROSOPHILA MELANOGASTER</i> SELECTED FOR INCREASED STARVATION RESISTANCE: THE ROLE OF METABOLIC RATE AND IMPLICATIONS FOR THE EVOLUTION OF LONGEVITY. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1435-1444.	2.3	49
40	Development and the Genetics of Evolutionary Change Within Insect Species. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2003, 34, 633-660.	8.3	48
41	What are the effects of maternal and pre-adult environments on ageing in humans, and are there lessons from animal models?. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 431-438.	4.6	48
42	The Predictive Adaptive Response: Modeling the Life-History Evolution of the Butterfly <i>Bicyclus anynana</i> in Seasonal Environments. <i>American Naturalist</i> , 2013, 181, E28-E42.	2.1	45
43	Adaptive developmental plasticity: Compartmentalized responses to environmental cues and to corresponding internal signals provide phenotypic flexibility. <i>BMC Biology</i> , 2014, 12, 97.	3.8	45
44	Seasonal polyphenisms and environmentally induced plasticity in the Lepidoptera: The coordinated evolution of many traits on multiple levels. , 2011, , 243-252.		44
45	Geographical variability in, and temperature effects on, the phenology of <i>Maniola jurtina</i> and <i>Pyronia tithonus</i> (Lepidoptera, Satyrinae) in England and Wales. <i>Ecological Entomology</i> , 1987, 12, 139-148.	2.2	43
46	Conserved patterns of integrated developmental plasticity in a group of polyphenic tropical butterflies. <i>BMC Evolutionary Biology</i> , 2017, 17, 59.	3.2	43
47	Butterfly Eyespots: The Genetics and Development of the Color Rings. <i>Evolution; International Journal of Organic Evolution</i> , 1997, 51, 1207.	2.3	42
48	The genetics of wing pattern elements in the polyphenic butterfly, <i>Bicyclus anynana</i> . <i>Heredity</i> , 1993, 70, 179-186.	2.6	41
49	The Evolutionary Genetics and Developmental Basis of Wing Pattern Variation in the Butterfly <i>Bicyclus anynana</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1994, 48, 1147.	2.3	41
50	Systematics and historical biogeography of the old world butterfly subtribe <i>Mycalesina</i> (Lepidoptera:). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	3.2	40
51	Ecdysteroid Hormones Link the Juvenile Environment to Alternative Adult Life Histories in a Seasonal Insect. <i>American Naturalist</i> , 2014, 184, E79-E92.	2.1	39
52	Effects of bottlenecks on quantitative genetic variation in the butterfly <i>Bicyclus anynana</i> . <i>Genetical Research</i> , 2001, 77, 167-181.	0.9	36
53	Behavioural studies on the peppered moth <i>Biston betularia</i> and a discussion of the role of pollution and lichens in industrial melanism. <i>Biological Journal of the Linnean Society</i> , 1987, 31, 129-150.	1.6	34
54	Butterfly eyespot patterns: evidence for specification by a morphogen diffusion gradient. <i>Acta Biotheoretica</i> , 2001, 49, 77-88.	1.5	34

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55	Preferences and Food Quality of Fruit-Feeding Butterflies in Kibale Forest, Uganda. <i>Biotropica</i> , 2005, 37, 657-663.	1.6	33
56	Increased Life Span in a Polyphenic Butterfly Artificially Selected for Starvation Resistance. <i>American Naturalist</i> , 2008, 171, 81-90.	2.1	32
57	The effect of male sodium diet and mating history on female reproduction in the puddling squinting bush brown <i>Bicyclus anynana</i> (Lepidoptera). <i>Behavioral Ecology and Sociobiology</i> , 2004, 56, 404.	1.4	28
58	Effects of food plant on phenotypic plasticity in the tropical butterfly <i>Bicyclus anynana</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1996, 80, 149-151.	1.4	27
59	Melanism in <i>Adalia</i> ladybirds and declining air pollution in Birmingham. <i>Heredity</i> , 1987, 59, 273-277.	2.6	25
60	Sperm competition and melanic polymorphism in the 2-spot ladybird, <i>Adalia bipunctata</i> (Coleoptera). <i>Trends in Ecology and Evolution</i> , 2007, 22, 256-261.	2.6	24
61	Artificial selection of reaction norms of wing pattern elements in <i>Bicyclus anynana</i> . <i>Heredity</i> , 1995, 74, 91-99.	2.6	21
62	On the fate of seasonally plastic traits in a rainforest butterfly under relaxed selection. <i>Ecology and Evolution</i> , 2014, 4, 2654-2667.	1.9	20
63	The stable isotope ecology of mycalesine butterflies: implications for plant-insect evolution. <i>Functional Ecology</i> , 2016, 30, 1936-1946.	3.6	20
64	Radiations of Mycalesine Butterflies and Opening Up Their Exploration of Morphospace. <i>American Naturalist</i> , 2010, 176, S77-S87.	2.1	19
65	Culture and Propagation of Laboratory Populations of the African Butterfly <i>Bicyclus anynana</i> . <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5203-pdb.prot5203.	0.3	17
66	Studies of colour polymorphism in some marginal populations of the aposematic jersey tiger moth <i>Callimorpha quadripunctaria</i> . <i>Biological Journal of the Linnean Society</i> , 1985, 26, 225-241.	1.6	16
67	Releases of a natural flightless strain of the ladybird beetle <i>Adalia bipunctata</i> reduce aphid-born honeydew beneath urban lime trees. <i>BioControl</i> , 2013, 58, 195-204.	2.0	15
68	Expanded molecular phylogeny of the genus <i>Bicyclus</i> (Lepidoptera: Nymphalidae) shows the importance of increased sampling for detecting semi-cryptic species and highlights potentials for future studies. <i>Systematics and Biodiversity</i> , 2017, 15, 115-130.	1.2	15
69	Developmental plasticity for male secondary sexual traits in a group of polyphenic tropical butterflies. <i>Oikos</i> , 2018, 127, 1812-1821.	2.7	15
70	Complex multi-trait responses to multivariate environmental cues in a seasonal butterfly. <i>Evolutionary Ecology</i> , 2020, 34, 713-734.	1.2	15
71	To mate, or not to mate: The evolution of reproductive diapause facilitates insect radiation into African savannahs in the Late Miocene. <i>Journal of Animal Ecology</i> , 2020, 89, 1230-1241.	2.8	14
72	Preference for C <sub>4</sub> shade grasses increases hatching performance in the butterfly, <i>Bicyclus safitza</i> . <i>Ecology and Evolution</i> , 2016, 6, 5246-5255.	1.9	13

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73	Sexual selection contributes to partial restoration of phenotypic robustness in a butterfly. <i>Scientific Reports</i> , 2018, 8, 14315.	3.3	12
74	Genetics and selective breeding of variation in wing truncation in a flightless aphid control agent. <i>Entomologia Experimentalis Et Applicata</i> , 2019, 167, 636-645.	1.4	12
75	Miocene Climate and Habitat Change Drove Diversification in <i>Bicyclus</i> , Africa's Largest Radiation of Satyrine Butterflies. <i>Systematic Biology</i> , 2022, 71, 570-588.	5.6	12
76	Molecular phylogeny and generic-level taxonomy of the widespread palaeotropical <i>Heteropsis</i> clade (Nymphalidae: Satyrinae: Mycalesina). <i>Systematic Entomology</i> , 2016, 41, 717-731.	3.9	11
77	Revision of the <i>Bicyclus sciathis</i> species group (Lepidoptera: Nymphalidae) with descriptions of four new species and corrected distributional records. <i>Systematic Entomology</i> , 2016, 41, 207-228.	3.9	11
78	Adaptation of a tropical butterfly to a temperate climate. <i>Biological Journal of the Linnean Society</i> , 2018, 123, 279-289.	1.6	11
79	Pervasive gene expression responses to a fluctuating diet in <i>Drosophila melanogaster</i> : The importance of measuring multiple traits to decouple potential mediators of life span and reproduction. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 2572-2583.	2.3	10
80	In Situ Hybridization of Embryos and Larval and Pupal Wings from the African Butterfly <i>Bicyclus anynana</i> . <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5208.	0.3	9
81	Seasonal environments drive convergent evolution of a faster pace of life in tropical butterflies. <i>Ecology Letters</i> , 2021, 24, 102-112.	6.4	9
82	Title is missing!. <i>Conservation Genetics</i> , 2000, 1, 321-328.	1.5	8
83	Fixation and Dissection of Embryos from the African Butterfly <i>Bicyclus anynana</i> . <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5206.	0.3	8
84	Dissection of Larval and Pupal Wings from the African Butterfly <i>Bicyclus anynana</i> . <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5207-pdb.prot5207.	0.3	8
85	A release from developmental bias accelerates morphological diversification in butterfly eyespots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27474-27480.	7.1	8
86	Predictability of temporal variation in climate and the evolution of seasonal polyphenism in tropical butterfly communities. <i>Journal of Evolutionary Biology</i> , 2021, 34, 1362-1375.	1.7	8
87	The genetics of colour polymorphism in the aposematic Jersey Tiger Moth <i>Callimorpha quadripunctaria</i> . <i>Heredity</i> , 1990, 64, 87-92.	2.6	6
88	Immunohistochemistry Staining of Embryos from the African Butterfly <i>Bicyclus anynana</i> . <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5209.	0.3	6
89	Growing more positive with age: The relationship between reproduction and survival in aging flies. <i>Experimental Gerontology</i> , 2017, 90, 34-42.	2.8	4
90	Butterfly Eyespot Patterns and How Evolutionary Tinkering Yields Diversity. <i>Novartis Foundation Symposium</i> , 2007, 284, 90-109.	1.1	4

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91	Pleiotropic effects associated with an allele enabling the flea beetle <i>Phyllotreta nemorum</i> to use <i>Barbarea vulgaris</i> as a host plant. <i>Evolutionary Ecology</i> , 2007, 21, 13-26.	1.2	3
92	Surprisingly long body length of the lungworm <i>Parafilaroides gymnurum</i> from common seals of the Dutch North Sea. <i>Parasitology Research</i> , 2020, 119, 1803-1817.	1.6	3
93	Fresh Weight, Dry Weight, and Fat Content of Adult African Butterflies <i>Bicyclus anynana</i> . <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5212-pdb.prot5212.	0.3	2
94	Constant Volume Respirometry in the African Butterfly <i>Bicyclus anynana</i> . <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5213.	0.3	2
95	Surgical Manipulations on Pupal Wings from the African Butterfly <i>Bicyclus anynana</i> : Damage and Cauteries. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5204-pdb.prot5204.	0.3	2
96	Immunohistochemistry Staining of Wing Discs from the African Butterfly <i>Bicyclus anynana</i> . <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5210-pdb.prot5210.	0.3	2
97	Effects of food plant on phenotypic plasticity in the tropical butterfly <i>Bicyclus anynana</i> . , 1996, , 149-151.		2
98	Injection of Chemicals into Pupae of the African Butterfly <i>Bicyclus anynana</i> . <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5215.	0.3	1
99	Surgical Manipulations on Pupal Wings from the African Butterfly <i>Bicyclus anynana</i> : Grafts. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5205.	0.3	1
100	Extraction and Gas Chromatography Analysis of Adult Pheromones from the African Butterfly <i>Bicyclus anynana</i> . <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5211-pdb.prot5211.	0.3	1
101	Hemolymph Extraction from Various Developmental Stages of the African Butterfly <i>Bicyclus anynana</i> . <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5214-pdb.prot5214.	0.3	1