Stephen C Stearns

List of Publications by Year
in descending order

106 papers	13,389 citations	44069 48 h-index	38395 95 g-index
111 all docs	111 docs citations	111 times ranked	9478 citing authors

#	Article	IF	Citations
1	Life-History Tactics: A Review of the Ideas. Quarterly Review of Biology, 1976, 51, 3-47.	0.1	3,078
2	The Evolutionary Significance of Phenotypic Plasticity. BioScience, 1989, 39, 436-445.	4.9	1,068
3	THE EVOLUTION OF PHENOTYPIC PLASTICITY IN LIFEâ€HISTORY TRAITS: PREDICTIONS OF REACTION NORMS FOR AGE AND SIZE AT MATURITY. Evolution; International Journal of Organic Evolution, 1986, 40, 893-913.	2.3	1,013
4	Life history evolution: successes, limitations, and prospects. Die Naturwissenschaften, 2000, 87, 476-486.	1.6	606
5	Genome-Wide Transcript Profiles in Aging and Calorically Restricted Drosophila melanogaster. Current Biology, 2002, 12, 712-723.	3.9	528
6	The Influence of Size and Phylogeny on Patterns of Covariation among Life-History Traits in the Mammals. Oikos, 1983, 41, 173.	2.7	456
7	The Evolution of Phenotypic Plasticity in Life-History Traits: Predictions of Reaction Norms for Age and Size at Maturity. Evolution; International Journal of Organic Evolution, 1986, 40, 893.	2.3	405
8	Selection against inbred song sparrows during a natural population bottleneck. Nature, 1994, 372, 356-357.	27.8	387
9	A New View of Life-History Evolution. Oikos, 1980, 35, 266.	2.7	328
10	Senescence in a Bacterium with Asymmetric Division. Science, 2003, 300, 1920-1920.	12.6	296
11	On inference in ecology and evolutionary biology: the problem of multiple causes. Acta Biotheoretica, 1982, 31, 145-164.	1.5	207
12	Making evolutionary biology a basic science for medicine. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1800-1807.	7.1	189
13	Measuring selection in contemporary human populations. Nature Reviews Genetics, 2010, 11, 611-622.	16.3	179
14	The great opportunity: Evolutionary applications to medicine and public health. Evolutionary Applications, 2008, 1, 28-48.	3.1	176
15	Experimental evolution of aging, growth, and reproduction in fruitflies. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 3309-3313.	7.1	176
16	The evolution of life histories in spatially heterogeneous environments: Optimal reaction norms revisited. Evolutionary Ecology, 1993, 7, 155-174.	1.2	175
17	The differential genetic and environmental canalization of fitness components in Drosophila melanogaster. Journal of Evolutionary Biology, 1995, 8, 539-557.	1.7	159
18	The Evolution of Life-History Traits in Mosquitofish Since Their Introduction to Hawaii in 1905: Rates of Evolution, Heritabilities, and Developmental Plasticity. American Zoologist, 1983, 23, 65-75.	0.7	158

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19	FITNESS SENSITIVITY AND THE CANALIZATION OF LIFE-HISTORY TRAITS. Evolution; International Journal of Organic Evolution, 1994, 48, 1438-1450.	2.3	156
20	Evolutionary public health: introducing the concept. Lancet, The, 2017, 390, 500-509.	13.7	145
21	Natural selection in a contemporary human population. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1787-1792.	7.1	136
22	THE GENETIC BASIS OF DIFFERENCES IN LIFEâ€HISTORY TRAITS AMONG SIX POPULATIONS OF MOSQUITOFISH () Tj ETQq0 0 0 rgBT /O Organic Evolution, 1983, 37, 618-627.	2.3	134
23	The Effects of Size and Phylogeny on Patterns of Covariation in the Life History Traits of Lizards and Snakes. American Naturalist, 1984, 123, 56-72.	2.1	121
24	Reaction norms for developmental time and weight at eclosion in Drosophila mercatorum. Journal of Evolutionary Biology, 1988, 1, 335-354.	1.7	120
25	QUANTITATIVE PREDICTIONS OF DELAYED MATURITY. Evolution; International Journal of Organic Evolution, 1981, 35, 455-463.	2.3	119
26	A NATURAL EXPERIMENT IN LIFEâ€HISTORY EVOLUTION: FIELD DATA ON THE INTRODUCTION OF MOSQUITOFISH (GAMBUSIA AFFINIS) TO HAWAII. Evolution; International Journal of Organic Evolution, 1983, 37, 601-617.	2.3	118
27	HYPOTHESES FOR THE PRODUCTION OF EXCESS ZYGOTES: MODELS OF BET-HEDGING AND SELECTIVE ABORTION. Evolution; International Journal of Organic Evolution, 1989, 43, 1369-1377.	2.3	118
28	Evolutionary medicine: its scope, interest and potential. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4305-4321.	2.6	113
29	Evolutionary perspectives on health and medicine. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1691-1695.	7.1	110
30	Phylogenetic Approaches in Ecology. Oikos, 1990, 57, 119.	2.7	109
31	Fitness Sensitivity and the Canalization of Life-History Traits. Evolution; International Journal of Organic Evolution, 1994, 48, 1438.	2.3	103
32	Evolution in Health and Disease: Work in Progress. Quarterly Review of Biology, 2001, 76, 417-432.	0.1	101
33	The transition to modernity and chronic disease: mismatch and natural selection. Nature Reviews Genetics, 2018, 19, 419-430.	16.3	91
34	DECLINE IN OFFSPRING VIABILITY AS A MANIFESTATION OF AGING IN DROSOPHILA MELANOGASTER. Evolution; International Journal of Organic Evolution, 2001, 55, 1822-1831.	2.3	86
35	Daniel Bernoulli (1738): evolution and economics under risk. Journal of Biosciences, 2000, 25, 221-228.	1.1	85
36	Medicine Needs Evolution. Science, 2006, 311, 1071-1071.	12.6	85

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37	The Naturalist in a World of Genomics. American Naturalist, 2003, 161, 171-180.	2.1	84
38	MALADAPTATION IN A MARGINAL POPULATION OF THE MOSQUITO FISH, GAMBUSIA AFFINIS. Evolution; International Journal of Organic Evolution, 1980, 34, 65-75.	2.3	80
39	Association of Long-Term Risk of Respiratory, Allergic, and Infectious Diseases With Removal of Adenoids and Tonsils in Childhood. JAMA Otolaryngology - Head and Neck Surgery, 2018, 144, 594.	2.2	75
40	Evolutionary Insights Should Not Be Wasted. Oikos, 1987, 49, 118.	2.7	73
41	On the use of â€œlife history theoryâ€•in evolutionary psychology. Evolution and Human Behavior, 2020, 41, 474-485.	2.2	71
42	P-element inserts in transgenic flies: a cautionary tale. Heredity, 1997, 78, 1-11.	2.6	70
43	Hypotheses for the Production of Excess Zygotes: Models of Bet-Hedging and Selective Abortion. Evolution; International Journal of Organic Evolution, 1989, 43, 1369.	2.3	64
44	Genetics of life history in Daphnia magna. I. Heritabilities at two food levels. Heredity, 1993, 70, 335-343.	2.6	64
45	Constraints on the coevolution of contemporary human males and females. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4836-4844.	2.6	64
46	Genetic loci associated with coronary artery disease harbor evidence of selection and antagonistic pleiotropy. PLoS Genetics, 2017, 13, e1006328.	3.5	58
47	CORRELATED RESPONSES IN LIFE-HISTORY TRAITS TO ARTIFICIAL SELECTION FOR BODY WEIGHT INDROSOPHILA MELANOGASTER. Evolution; International Journal of Organic Evolution, 1992, 46, 745-752.	2.3	54
48	The effects of enhanced expression of elongation factor EF-1? on lifespan inDrosophila melanogaster. Genetica, 1993, 91, 167-182.	1.1	52
49	Environmentally Contingent Variation. , 2005, , 303-332.		48
50	Experimental evolution of aging in a bacterium. BMC Evolutionary Biology, 2007, 7, 126.	3.2	48
51	Progress on canalization. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10229-10230.	7.1	44
52	On Measuring Fluctuating Environments: Predictability, Constancy, and Contingency. Ecology, 1981, 62, 185-199.	3.2	43
53	A Natural Experiment in Life-History Evolution: Field Data on the Introduction of Mosquitofish (Gambusia affinis) to Hawaii. Evolution; International Journal of Organic Evolution, 1983, 37, 601.	2.3	42
54	Quantitative Predictions of Delayed Maturity. Evolution; International Journal of Organic Evolution, 1981, 35, 455.	2.3	41

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55	Maladaptation in a Marginal Population of the Mosquito Fish, Gambusia affinis. Evolution; International Journal of Organic Evolution, 1980, 34, 65.	2.3	39
56	The Genetic Basis of Differences in Life-History Traits Among Six Populations of Mosquitofish (Gambusia affinis) that Shared Ancestors in 1905. Evolution; International Journal of Organic Evolution, 1983, 37, 618.	2.3	36
57	HERITABILITY ESTIMATES FOR AGE AND LENGTH AT MATURITY IN TWO POPULATIONS OF MOSQUITOFISH THAT SHARED ANCESTORS IN 1905. Evolution; International Journal of Organic Evolution, 1984, 38, 368-375.	2.3	36
58	The Responses of Drosophila melanogaster to Artificial Selection on Body Weight and its Phenotypic Plasticity in Two Larval Food Environments. Evolution; International Journal of Organic Evolution, 1991, 45, 1909.	2.3	35
59	Correlated Responses in Life-History Traits to Artificial Selection for Body Weight in Drosophila melanogaster. Evolution; International Journal of Organic Evolution, 1992, 46, 745.	2.3	34
60	Genetic links between post-reproductive lifespan and family size in Framingham. Evolution, Medicine and Public Health, 2013, 2013, 241-253.	2.5	34
61	Light responses of Daphnia pulex. Limnology and Oceanography, 1975, 20, 564-570.	3.1	33
62	Issues in evolutionary medicine. American Journal of Human Biology, 2005, 17, 131-140.	1.6	32
63	Effects on Fitness Components of P-Element Inserts in Drosophila melanogaster: Analysis of Trade-Offs. Evolution; International Journal of Organic Evolution, 1996, 50, 795.	2.3	31
64	ARE WE STALLED PART WAY THROUGH A MAJOR EVOLUTIONARY TRANSITION FROM INDIVIDUAL TO GROUP?. Evolution; International Journal of Organic Evolution, 2007, 61, 2275-2280.	2.3	31
65	Opposite risk patterns for autism and schizophrenia are associated with normal variation in birth size: phenotypic support for hypothesized diametric gene-dosage effects. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140604.	2.6	31
66	EVOLUTION AND MEDICINE IN UNDERGRADUATE EDUCATION: A PRESCRIPTION FOR ALL BIOLOGY STUDENTS. Evolution; International Journal of Organic Evolution, 2012, 66, 1991-2006.	2.3	29
67	The Emergence of Evolutionary and Community Ecology as Experimental Sciences. Perspectives in Biology and Medicine, 1982, 25, 621-648.	0.5	27
68	The Demographic Transition Influences Variance in Fitness and Selection on Height and BMI in Rural Gambia. Current Biology, 2013, 23, 884-889.	3.9	25
69	The evolutionary maintenance of sexual reproduction: The solutions proposed for a longstanding problem. Journal of Genetics, 1990, 69, 1-10.	0.7	20
70	Effects on Fitness Components of Enhanced Expression of Elongation Factor EF-1Î± in Drosophila melanogaster. I. The Contrasting Approaches of Molecular and Population Biologists. American Naturalist, 1993, 142, 961-993.	2.1	20
71	Frontiers in Molecular Evolutionary Medicine. Journal of Molecular Evolution, 2020, 88, 3-11.	1.8	18
72	The Structure of Food Webs. American Naturalist, 1982, 120, 478-499.	2.1	18

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73	The importance of the timescale of the fitness metric for estimates of selection on phenotypic traits during a period of demographic change. Ecology Letters, 2016, 19, 854-861.	6.4	17
74	Safeguards and spurs. Nature, 2003, 424, 501-503.	27.8	14
75	How elephants beat cancer. ELife, 2016, 5, .	6.0	14
76	Variational models of life-histories: When do solutions exist?. Theoretical Population Biology, 1982, 21, 11-23.	1.1	9
77	EFFECTS ON FITNESS COMPONENTS OF P-ELEMENT INSERTS INDROSOPHILA MELANOGASTER: ANALYSIS OF TRADE-OFFS. Evolution; International Journal of Organic Evolution, 1996, 50, 795-806.	2.3	9
78	Heritability Estimates for Age and Length at Maturity in Two Populations of Mosquitofish that Shared Ancestors in 1905. Evolution; International Journal of Organic Evolution, 1984, 38, 368.	2.3	8
79	Gene expression regulates metabolite homeostasis during the Crabtree effect: Implications for the adaptation and evolution of Metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	8
80	Introduction to the Symposium: The Inter-face of Life-History Evolution, Whole-Organism Ontogeny, and Quantitative Genetics. American Zoologist, 1983, 23, 3-4.	0.7	7
81	The effects of enhanced expression of elongation factor EF-1Î± on lifespan in Drosophila melanogaster. Contemporary Issues in Genetics and Evolution, 1994, , 183-198.	0.9	7
82	LESS WOULD HAVE BEEN MORE. Evolution; International Journal of Organic Evolution, 2002, 56, 2339-2345.	2.3	6
83	Introducing Evolutionary Thinking For Medicine. , 2007, , 3-16.		6
84	A Case Study in Experimental Evolution: Reproductive Effort and Induced Responses in Drosophila melanogaster. Plant Species Biology, 1996, 11, 97-105.	1.0	5
85	On Designing Courses in Evolutionary Medicine. Evolution: Education and Outreach, 2011, 4, 589-594.	0.8	5
86	EDITORIAL: Editorial: evolutionary medicine special issue. Evolutionary Applications, 2009, 2, 7-10.	3.1	4
87	P-element inserts in transgenic flies: a cautionary tale. Heredity, 1997, 78, 1-11.	2.6	3
88	Comparative and experimental approachesto the evolutionary ecology of development. Geobios, 1989, 22, 349-355.	1.4	2
89	Theory and Data in the Evolutionary Approach to Human Behavior. Biological Theory, 2006, 1, 38-40.	1.5	2
90	How the European Society for Evolutionary Biology and the Journal of Evolutionary Biology were founded. Journal of Evolutionary Biology, 2008, 21, 1449-1451.	1.7	2

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91	George Christopher Williams 1926-2010. Evolution; International Journal of Organic Evolution, 2010, 64, 3339-3343.	2.3	2
92	Evolutionary Biology.. Evolution; International Journal of Organic Evolution, 1979, 33, 1007.	2.3	1
93	A tractable model system in which social deprivation early in life leads to behaviour-mediated functional sterility: The mosquitofish, Gambusia affinis. Animal Behaviour, 1983, 31, 950-951.	1.9	1
94	Demonstrating unselfishness: They haven't done it yet. Behavioral and Brain Sciences, 1989, 12, 722-722.	0.7	1
95	III.10. Evolution of Reaction Norms. , 2013, , 261-267.		1
96	Murphy. Limnology and Oceanography, 1971, 16, 1000-1002.	3.1	0
97	Rapid Evolution in Ecological Time. BioScience, 1983, 33, 460-460.	4.9	0
98	Selection misconstrued. Behavioral and Brain Sciences, 1984, 7, 499-499.	0.7	0
99	Life History Deja Vu. Systematic Biology, 1994, 43, 139.	5.6	0
100	Editorial. Evolution, Medicine and Public Health, 2012, 2013, 1-2.	2.5	0
101	Editorial. Evolution, Medicine and Public Health, 2013, 2013, 208-208.	2.5	0
102	The Path to Life History Evolution. Bulletin of the Ecological Society of America, 2014, 95, 121.	0.2	0
103	Editorial: What we aim for. Evolution, Medicine and Public Health, 2015, 2015, 122-122.	2.5	0
104	Epigenetic reaction norms: possible but not inevitable. Evolution, Medicine and Public Health, 2017, 2017, 176-177.	2.5	0
105	Outstanding research opportunities at the interface of evolution and medicine. Nature Ecology and Evolution, 2018, 2, 3-4.	7.8	0
106	Limitations to the Association of Risk of Airway Disease With Removal of Adenoids and Tonsils in Childrenâ€"Reply. JAMA Otolaryngology - Head and Neck Surgery, 2018, 144, 1188.	2.2	0