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	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
2	Frontiers in Molecular Evolutionary Medicine. Journal of Molecular Evolution, 2020, 88, 3-11.	1.8	18
3	On the use of â€œlife history theoryâ€•in evolutionary psychology. Evolution and Human Behavior, 2020, 41, 474-485.	2.2	71
4	Outstanding research opportunities at the interface of evolution and medicine. Nature Ecology and Evolution, 2018, 2, 3-4.	7.8	0
5	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
6	The transition to modernity and chronic disease: mismatch and natural selection. Nature Reviews Genetics, 2018, 19, 419-430.	16.3	91
7	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
8	Evolutionary public health: introducing the concept. Lancet, The, 2017, 390, 500-509.	13.7	145
9	Epigenetic reaction norms: possible but not inevitable. Evolution, Medicine and Public Health, 2017, 2017, 176-177.	2.5	0
10	Genetic loci associated with coronary artery disease harbor evidence of selection and antagonistic pleiotropy. PLoS Genetics, 2017, 13, e1006328.	3.5	58
11	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
12	How elephants beat cancer. ELife, 2016, 5, .	6.0	14
13	Editorial: What we aim for. Evolution, Medicine and Public Health, 2015, 2015, 122-122.	2.5	0
14	The Path to Life History Evolution. Bulletin of the Ecological Society of America, 2014, 95, 121.	0.2	0
15	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
16	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
17	Editorial. Evolution, Medicine and Public Health, 2013, 2013, 208-208.	2.5	0
18	Genetic links between post-reproductive lifespan and family size in Framingham. Evolution, Medicine and Public Health, 2013, 2013, 241-253.	2.5	34

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19	III.10. Evolution of Reaction Norms. , 2013, , 261-267.		1
20	Editorial. Evolution, Medicine and Public Health, 2012, 2013, 1-2.	2.5	0
21	Evolutionary medicine: its scope, interest and potential. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4305-4321.	2.6	113
22	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
23	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
24	On Designing Courses in Evolutionary Medicine. Evolution: Education and Outreach, 2011, 4, 589-594.	0.8	5
25	George Christopher Williams 1926-2010. Evolution; International Journal of Organic Evolution, 2010, 64, 3339-3343.	2.3	2
26	Measuring selection in contemporary human populations. Nature Reviews Genetics, 2010, 11, 611-622.	16.3	179
27	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
28	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
29	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
30	EDITORIAL: Editorial: evolutionary medicine special issue. Evolutionary Applications, 2009, 2, 7-10.	3.1	4
31	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
32	The great opportunity: Evolutionary applications to medicine and public health. Evolutionary Applications, 2008, 1, 28-48.	3.1	176
33	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
34	Experimental evolution of aging in a bacterium. BMC Evolutionary Biology, 2007, 7, 126.	3.2	48
35	Introducing Evolutionary Thinking For Medicine. , 2007, , 3-16.		6
36	Theory and Data in the Evolutionary Approach to Human Behavior. Biological Theory, 2006, 1, 38-40.	1.5	2

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37	Medicine Needs Evolution. Science, 2006, 311, 1071-1071.	12.6	85
38	Issues in evolutionary medicine. American Journal of Human Biology, 2005, 17, 131-140.	1.6	32
39	Environmentally Contingent Variation. , 2005, , 303-332.		48
40	Safeguards and spurs. Nature, 2003, 424, 501-503.	27.8	14
41	Senescence in a Bacterium with Asymmetric Division. Science, 2003, 300, 1920-1920.	12.6	296
42	The Naturalist in a World of Genomics. American Naturalist, 2003, 161, 171-180.	2.1	84
43	Progress on canalization. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10229-10230.	7.1	44
44	Genome-Wide Transcript Profiles in Aging and Calorically Restricted Drosophila melanogaster. Current Biology, 2002, 12, 712-723.	3.9	528
45	LESS WOULD HAVE BEEN MORE. Evolution; International Journal of Organic Evolution, 2002, 56, 2339-2345.	2.3	6
46	Evolution in Health and Disease: Work in Progress. Quarterly Review of Biology, 2001, 76, 417-432.	0.1	101
47	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
48	Life history evolution: successes, limitations, and prospects. Die Naturwissenschaften, 2000, 87, 476-486.	1.6	606
49	Daniel Bernoulli (1738): evolution and economics under risk. Journal of Biosciences, 2000, 25, 221-228.	1.1	85
50	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
51	P-element inserts in transgenic flies: a cautionary tale. Heredity, 1997, 78, 1-11.	2.6	70
52	P-element inserts in transgenic flies: a cautionary tale. Heredity, 1997, 78, 1-11.	2.6	3
53	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
54	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

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55	A Case Study in Experimental Evolution: Reproductive Effort and Induced Responses in Drosophila melanogaster. Plant Species Biology, 1996, 11, 97-105.	1.0	5
56	The differential genetic and environmental canalization of fitness components in Drosophila melanogaster. Journal of Evolutionary Biology, 1995, 8, 539-557.	1.7	159
57	Selection against inbred song sparrows during a natural population bottleneck. Nature, 1994, 372, 356-357.	27.8	387
58	Fitness Sensitivity and the Canalization of Life-History Traits. Evolution; International Journal of Organic Evolution, 1994, 48, 1438.	2.3	103
59	FITNESS SENSITIVITY AND THE CANALIZATION OF LIFE-HISTORY TRAITS. Evolution; International Journal of Organic Evolution, 1994, 48, 1438-1450.	2.3	156
60	Life History Deja Vu. Systematic Biology, 1994, 43, 139.	5.6	0
61	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
62	The evolution of life histories in spatially heterogeneous environments: Optimal reaction norms revisited. Evolutionary Ecology, 1993, 7, 155-174.	1.2	175
63	Genetics of life history in Daphnia magna. I. Heritabilities at two food levels. Heredity, 1993, 70, 335-343.	2.6	64
64	The effects of enhanced expression of elongation factor EF-1? on lifespan inDrosophila melanogaster. Genetica, 1993, 91, 167-182.	1.1	52
65	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
66	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
67	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
68	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
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	Phylogenetic Approaches in Ecology. Oikos, 1990, 57, 119.	2.7	109
71	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
72	The Evolutionary Significance of Phenotypic Plasticity. BioScience, 1989, 39, 436-445.	4.9	1,068

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73	Comparative and experimental approachesto the evolutionary ecology of development. Geobios, 1989, 22, 349-355.	1.4	2
74	Demonstrating unselfishness: They haven't done it yet. Behavioral and Brain Sciences, 1989, 12, 722-722.	0.7	1
75	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
76	Reaction norms for developmental time and weight at eclosion in Drosophila mercatorum. Journal of Evolutionary Biology, 1988, 1, 335-354.	1.7	120
77	Evolutionary Insights Should Not Be Wasted. Oikos, 1987, 49, 118.	2.7	73
78	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
79	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
80	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
81	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
82	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
83	Selection misconstrued. Behavioral and Brain Sciences, 1984, 7, 499-499.	0.7	0
84	Rapid Evolution in Ecological Time. BioScience, 1983, 33, 460-460.	4.9	0
85	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
86	The Influence of Size and Phylogeny on Patterns of Covariation among Life-History Traits in the Mammals. Oikos, 1983, 41, 173.	2.7	456
87	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
88	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
89	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
90	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

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91	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
92	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
93	Variational models of life-histories: When do solutions exist?. Theoretical Population Biology, 1982, 21, 11-23.	1.1	9
94	The Emergence of Evolutionary and Community Ecology as Experimental Sciences. Perspectives in Biology and Medicine, 1982, 25, 621-648.	0.5	27
95	On inference in ecology and evolutionary biology: the problem of multiple causes. Acta Biotheoretica, 1982, 31, 145-164.	1.5	207
96	The Structure of Food Webs. American Naturalist, 1982, 120, 478-499.	2.1	18
97	Quantitative Predictions of Delayed Maturity. Evolution; International Journal of Organic Evolution, 1981, 35, 455.	2.3	41
98	QUANTITATIVE PREDICTIONS OF DELAYED MATURITY. Evolution; International Journal of Organic Evolution, 1981, 35, 455-463.	2.3	119
99	On Measuring Fluctuating Environments: Predictability, Constancy, and Contingency. Ecology, 1981, 62, 185-199.	3.2	43
100	MALADAPTATION IN A MARGINAL POPULATION OF THE MOSQUITO FISH, GAMBUSIA AFFINIS. Evolution; International Journal of Organic Evolution, 1980, 34, 65-75.	2.3	80
101	A New View of Life-History Evolution. Oikos, 1980, 35, 266.	2.7	328
102	Maladaptation in a Marginal Population of the Mosquito Fish, Gambusia affinis. Evolution; International Journal of Organic Evolution, 1980, 34, 65.	2.3	39
103	Evolutionary Biology.. Evolution; International Journal of Organic Evolution, 1979, 33, 1007.	2.3	1
104	Life-History Tactics: A Review of the Ideas. Quarterly Review of Biology, 1976, 51, 3-47.	0.1	3,078
105	Light responses of Daphnia pulex. Limnology and Oceanography, 1975, 20, 564-570.	3.1	33
106	Murphy. Limnology and Oceanography, 1971, 16, 1000-1002.	3.1	0