

Eric L Charnov

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

19,856
citations

36271

51
h-index

49868

87
g-index

89
all docs

89
docs citations

89
times ranked

14716
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal foraging, the marginal value theorem. <i>Theoretical Population Biology</i> , 1976, 9, 129-136.	0.5	4,330
2	Effects of Size and Temperature on Metabolic Rate. <i>Science</i> , 2001, 293, 2248-2251.	6.0	2,927
3	Optimal Foraging: Attack Strategy of a Mantid. <i>American Naturalist</i> , 1976, 110, 141-151.	1.0	957
4	Effects of size and temperature on developmental time. <i>Nature</i> , 2002, 417, 70-73.	13.7	798
5	Effects of Body Size and Temperature on Population Growth. <i>American Naturalist</i> , 2004, 163, 429-441.	1.0	767
6	When is sex environmentally determined?. <i>Nature</i> , 1977, 266, 828-830.	13.7	652
7	Ecological Implications of Resource Depression. <i>American Naturalist</i> , 1976, 110, 247-259.	1.0	600
8	Allometric scaling of production and life-history variation in vascular plants. <i>Nature</i> , 1999, 401, 907-911.	13.7	570
9	Life-History Consequences of Natural Selection: Cole's Result Revisited. <i>American Naturalist</i> , 1973, 107, 791-793.	1.0	523
10	Hunting by expectation or optimal foraging? A study of patch use by chickadees. <i>Animal Behaviour</i> , 1974, 22, 953-963.	0.8	509
11	Optimal prey selection in the great tit (<i>Parus major</i>). <i>Animal Behaviour</i> , 1977, 25, 30-38.	0.8	504
12	Why be an hermaphrodite?. <i>Nature</i> , 1976, 263, 125-126.	13.7	441
13	ON CLUTCH SIZE AND FITNESS. <i>Ibis</i> , 1974, 116, 217-219.	1.0	427
14	Why do female primates have such long lifespans and so few babies? or Life in the slow lane. <i>Evolutionary Anthropology</i> , 2005, 1, 191-194.	1.7	347
15	Inclusive fitness theory and eusociality. <i>Nature</i> , 2011, 471, E1-E4.	13.7	339
16	The Genetical Evolution of Patterns of Sexuality: Darwinian Fitness. <i>American Naturalist</i> , 1979, 113, 465-480.	1.0	327
17	Security of infantile attachment as assessed in the "strange situation": Its study and biological interpretation. <i>Behavioral and Brain Sciences</i> , 1984, 7, 127-147.	0.4	327
18	Optimal foraging: Some simple stochastic models. <i>Behavioral Ecology and Sociobiology</i> , 1982, 10, 251-263.	0.6	314

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19	Facultative sex ratios and population dynamics. <i>Nature</i> , 1978, 272, 349-350.	13.7	228
20	Patterns of Survival, Growth, and Maturation in Snakes and Lizards. <i>American Naturalist</i> , 1992, 139, 1257-1269.	1.0	227
21	Evolution of Host Selection and Clutch Size in Parasitoid Wasps. <i>Florida Entomologist</i> , 1984, 67, 5.	0.2	225
22	Thermodynamic and metabolic effects on the scaling of production and population energy use. <i>Ecology Letters</i> , 2003, 6, 990-995.	3.0	215
23	Changes in the heterogametic mechanism of sex determination. <i>Heredity</i> , 1977, 39, 1-14.	1.2	136
24	Natural Selection and Sex Change in Pandalid Shrimp: Test of a Life-History Theory. <i>American Naturalist</i> , 1979, 113, 715-734.	1.0	135
25	Evolutionary assembly rules for fish life histories. <i>Fish and Fisheries</i> , 2013, 14, 213-224.	2.7	134
26	An elementary treatment of the genetical theory of kin-selection. <i>Journal of Theoretical Biology</i> , 1977, 66, 541-550.	0.8	118
27	Evolution of eusocial behavior: Offspring choice or parental parasitism?. <i>Journal of Theoretical Biology</i> , 1978, 75, 451-465.	0.8	110
28	On the Evolution of Host Selection in Solitary Parasitoids. <i>American Naturalist</i> , 1988, 132, 707-722.	1.0	108
29	Trade-off-invariant rules for evolutionary stable life histories. <i>Nature</i> , 1997, 387, 393-394.	13.7	108
30	Sperm competition and sex allocation in simultaneous hermaphrodites. <i>Evolutionary Ecology</i> , 1996, 10, 457-462.	0.5	104
31	Non-fisherian sex ratios with sex change and environmental sex determination. <i>Nature</i> , 1989, 338, 148-150.	13.7	103
32	The Offspringâ€šSize/Clutchâ€šSize Tradeâ€šOff in Mammals. <i>American Naturalist</i> , 2006, 167, 578-582.	1.0	96
33	Dimensionless numbers and life history evolution: Age of maturity versus the adult lifespan. <i>Evolutionary Ecology</i> , 1990, 4, 273-275.	0.5	93
34	Evolution of life history parameters in animals with indeterminate growth, particularly fish. <i>Evolutionary Ecology</i> , 1991, 5, 63-68.	0.5	92
35	Sex-Ratio Selection in Eusocial Hymenoptera. <i>American Naturalist</i> , 1978, 112, 317-326.	1.0	91
36	Paternal inheritance of a daughterless sex ratio factor. <i>Nature</i> , 1981, 293, 467-468.	13.7	91

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37	Multiple resources and the optimal balance between size and number of offspring. <i>Evolutionary Ecology</i> , 1988, 2, 77-84.	0.5	91
38	Phenotypic evolution under Fisher's Fundamental Theorem of Natural Selection. <i>Heredity</i> , 1989, 62, 113-116.	1.2	79
39	Lifetime Reproductive Effort. <i>American Naturalist</i> , 2007, 170, E129-E142.	1.0	78
40	Brood size adjustment in birds: Economical tracking in a temporally varying environment. <i>Journal of Theoretical Biology</i> , 1987, 126, 137-147.	0.8	77
41	The primary sex ratio under environmental sex determination. <i>Journal of Theoretical Biology</i> , 1989, 139, 431-436.	0.8	74
42	On evolution of age of maturity and the adult lifespan. <i>Journal of Evolutionary Biology</i> , 1990, 3, 139-144.	0.8	73
43	Size and Temperature in the Evolution of Fish Life Histories. <i>Integrative and Comparative Biology</i> , 2004, 44, 494-497.	0.9	71
44	Optimal copula duration in yellow dung flies: effects of female size and egg content. <i>Animal Behaviour</i> , 1999, 57, 795-805.	0.8	66
45	On sex allocation and selfing in higher plants. <i>Evolutionary Ecology</i> , 1987, 1, 30-36.	0.5	65
46	A trade-off-invariant life-history rule for optimal offspring size. <i>Nature</i> , 1995, 376, 418-419.	13.7	65
47	Reproductive Allometry and the Size-Number Trade-Off for Lizards. <i>American Naturalist</i> , 2008, 172, E80-E98.	1.0	61
48	Dinosaur Fossils Predict Body Temperatures. <i>PLoS Biology</i> , 2006, 4, e248.	2.6	60
49	Life History Evolution in a "Recruitment Population": Why Are Adult Mortality Rates Constant?. <i>Oikos</i> , 1986, 47, 129.	1.2	57
50	Sex allocation, pollinator attraction and fruit dispersal in cosexual plants. <i>Journal of Theoretical Biology</i> , 1986, 118, 321-325.	0.8	56
51	Fish growth: Bertalanffy k is proportional to reproductive effort. <i>Environmental Biology of Fishes</i> , 2008, 83, 185-187.	0.4	53
52	Adaptive Variation in Environmental Sex Determination in a Nematode. <i>American Naturalist</i> , 1989, 134, 817-823.	1.0	52
53	Optimal offspring sizes in small litters. <i>Evolutionary Ecology</i> , 1995, 9, 57-63.	0.5	46
54	Sex allocation in heterostylous plants. <i>Journal of Theoretical Biology</i> , 1982, 96, 143-149.	0.8	44

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55	Sexual Systems and Life History of Barnacles: A Theoretical Perspective. Integrative and Comparative Biology, 2012, 52, 356-365.	0.9	41
56	Size advantage may not always favor sex change. Journal of Theoretical Biology, 1986, 119, 283-285.	0.8	38
57	Clutch size in parasitoids: the egg production rate as a constraint. Evolutionary Ecology, 1988, 2, 167-174.	0.5	38
58	Kin selection in age-structured populations. Journal of Theoretical Biology, 1981, 88, 103-119.	0.8	36
59	Parent-Offspring Conflict Over Reproductive Effort. American Naturalist, 1982, 119, 736-737.	1.0	36
60	Sex Change and Population Fluctuations in Pandalid Shrimp. American Naturalist, 1989, 134, 824-827.	1.0	36
61	Sex allocation in hermaphrodites with partial overlap in male/female resource inputs. Journal of Theoretical Biology, 1986, 118, 33-43.	0.8	33
62	Sex Ratio Selection in an Age-Structured Population. Evolution; International Journal of Organic Evolution, 1975, 29, 366.	1.1	29
63	Sex-specific survival to maturity and the evolution of environmental sex determination. Evolution; International Journal of Organic Evolution, 2016, 70, 329-341.	1.1	28
64	Diversity–stability relationships revisited: scaling rules for biological communities near equilibrium. Ecological Modelling, 2001, 140, 247-254.	1.2	26
65	SEX RATIO SELECTION IN AN AGE-STRUCTURED POPULATION. Evolution; International Journal of Organic Evolution, 1975, 29, 366-368.	1.1	25
66	Natural selection on age of maturity in shrimp. Evolutionary Ecology, 1989, 3, 236-239.	0.5	25
67	Phylogenetic contrasts and the evolution of mammalian life histories. Evolutionary Ecology, 1993, 7, 270-278.	0.5	23
68	A Dimensionless Invariant for Relative Size at Sex Change in Animals: Explanation and Implications. American Naturalist, 2005, 165, 551-566.	1.0	23
69	Maternal Condition and Facultative Sex Ratios in Populations with Overlapping Generations. American Naturalist, 2006, 168, 521-530.	1.0	18
70	An optimisation principle for sex allocation in a temporally varying environment. Heredity, 1986, 56, 119-121.	1.2	16
71	Pure numbers, invariants and symmetry in the evolution of life histories. Evolutionary Ecology, 1991, 5, 339-342.	0.5	14
72	Comparing body-size growth curves: the Gallucci-Quinn index, and beyond. Environmental Biology of Fishes, 2010, 88, 293-294.	0.4	14

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73	Environmental Sex Determination with Overlapping Generations. <i>American Naturalist</i> , 1989, 134, 806-816.	1.0	14
74	A Note on Sex and Life Histories. <i>American Naturalist</i> , 1981, 117, 814-818.	1.0	13
75	Hermaphroditic sex allocation with overlapping generations. <i>Theoretical Population Biology</i> , 1988, 34, 38-46.	0.5	13
76	Local Mate Competition and Sex Ratio in the Diploid Worm <i>Dinophilus</i> . <i>International Journal of Invertebrate Reproduction and Development</i> , 1987, 12, 223-225.	0.8	12
77	Benevolent sisterhood. <i>Nature</i> , 1988, 331, 303-303.	13.7	8
78	Vole population cycles: Ultimate or proximate explanation?. <i>Oecologia</i> , 1981, 48, 132-132.	0.9	7
79	Alternative life histories in sex changing shrimp: a phenotype limited ESS. <i>Evolutionary Ecology</i> , 1987, 1, 107-111.	0.5	7
80	EVOLUTION OF THE BREEDING SEX RATIO UNDER PARTIAL SEX CHANGE. <i>Evolution; International Journal of Organic Evolution</i> , 1989, 43, 1559-1561.	1.1	5
81	How reliable is the biological time clock?. <i>Nature</i> , 2003, 424, 270-270.	13.7	5
82	Convergent approaches to understanding strange situation behavior. <i>Behavioral and Brain Sciences</i> , 1986, 9, 559-561.	0.4	3
83	Knowledge-independent Invariance Rules for Copula Duration in Dungflies. <i>Journal of Bioeconomics</i> , 1999, 1, 191-203.	1.5	3
84	Evolution of the Breeding Sex Ratio Under Partial Sex Change. <i>Evolution; International Journal of Organic Evolution</i> , 1989, 43, 1559.	1.1	2
85	Some comments on "Sex allocation and selfing in higher plants". <i>Evolutionary Ecology</i> , 1987, 1, 187-187.	0.5	1
86	Alternative reproductive tactics: state of the ART. <i>Environmental Biology of Fishes</i> , 2009, 85, 89-90.	0.4	1
87	A case for less selfing and more outbreeding in reviewing the literature. <i>Behavioral and Brain Sciences</i> , 1983, 6, 109-109.	0.4	0
88	Studying the security of infant-adult attachment: A reprise. <i>Behavioral and Brain Sciences</i> , 1984, 7, 163-171.	0.4	0