Fredric J Janzen

List of Publications by Year
in descending order

135	6,935	66336	66906
papers	citations	42 h-index	78 g-index

136	136	136	4764
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Visualizing and quantifying natural selection. Trends in Ecology and Evolution, 1995, 10, 313-318.	8.7	615
2	Environmental Sex Determination in Reptiles: Ecology, Evolution, and Experimental Design. Quarterly Review of Biology, 1991, 66, 149-179.	0.1	418
3	LOGISTIC REGRESSION FOR EMPIRICAL STUDIES OF MULTIVARIATE SELECTION. Evolution; International Journal of Organic Evolution, 1998, 52, 1564-1571.	2.3	328
4	Adaptive responses of animals to climate change are most likely insufficient. Nature Communications, 2019, 10, 3109.	12.8	285
5	Putting Eggs in One Basket: Ecological and Evolutionary Hypotheses for Variation in Oviposition-Site Choice. Annual Review of Ecology, Evolution, and Systematics, 2010, 41, 39-57.	8.3	284
6	An Experimental Analysis of Natural Selection on Body Size of Hatchling Turtles. Ecology, 1993, 74, 332-341.	3.2	215
7	IMPACT OF NEST-SITE SELECTION ON NEST SUCCESS AND NEST TEMPERATURE IN NATURAL AND DISTURBED HABITATS. Ecology, 2002, 83, 269-281.	3.2	187
8	Pattern Does Not Equal Process: Exactly When Is Sex Environmentally Determined?. American Naturalist, 2003, 161, 676-683.	2.1	164
9	EXPERIMENTAL ANALYSIS OF AN EARLY LIFE-HISTORY STAGE: SELECTION ON SIZE OF HATCHLING TURTLES. Ecology, 2000, 81, 2290-2304.	3.2	162
10	Vegetational Cover Predicts the Sex Ratio of Hatchling Turtles in Natural Nests. Ecology, 1994, 75, 1593-1599.	3.2	158
11	Genetic Effects of a Persistent Bottleneck on a Natural Population of Ornate Box Turtles (Terrapene) Tj ETQq1 1 0.784314 rgBT /Over	1.5	133
12	Repeatability of microenvironment-specific nesting behaviour in a turtle with environmental sex determination. Animal Behaviour, 2001, 62, 73-82.	1.9	130
13	Molecular phylogenetics and evolution of turtles. Molecular Phylogenetics and Evolution, 2005, 37, 178-191.	2.7	128
14	Climate Change and Temperatureâ€Dependent Sex Determination: Can Individual Plasticity in Nesting Phenology Prevent Extreme Sex Ratios?. Physiological and Biochemical Zoology, 2008, 81, 826-834.	1.5	124
15	Phenotypic variation in smooth softshell turtles (Apalone mutica) from eggs incubated in constant versus fluctuating temperatures. Oecologia, 2003, 134, 182-188.	2.0	116
16	Climate and predation dominate juvenile and adult recruitment in a turtle with temperatureâ€dependent sex determination. Ecology, 2010, 91, 3016-3026.	3.2	110
17	MOLECULAR SYSTEMATICS, PHYLOGEOGRAPHY, AND THE EFFECTS OF PLEISTOCENE GLACIATION IN THE PAINTED TURTLE (CHRYSEMYS PICTA) COMPLEX. Evolution; International Journal of Organic Evolution, 2003, 57, 119-128.	2.3	106
18	Genetic markers substantiate long-term storage and utilization of sperm by female painted turtles. Heredity, 2001, 86, 378-384.	2.6	95

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19	Behavioural plasticity may compensate for climate change in a long-lived reptile with temperature-dependent sex determination. Biological Conservation, 2012, 152, 90-95.	4.1	91
20	The Influence of Incubation Temperature and Family on Eggs, Embryos, and Hatchlings of the Smooth Softshell Turtle (Apalone mutica). Physiological Zoology, 1993, 66, 349-373.	1.5	89
21	Molecular phylogeography of common garter snakes (Thamnophis sirtalis) in western North America: implications for regional historical forces. Molecular Ecology, 2002, 11, 1739-1751.	3.9	89
22	ON THE ASSIGNMENT OF FITNESS VALUES IN STATISTICAL ANALYSES OF SELECTION. Evolution; International Journal of Organic Evolution, 1996, 50, 437-442.	2.3	79
23	Decades of field data reveal that turtles senesce in the wild. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6502-6507.	7.1	79
24	Modeling the Effects of Climate Changeâ€“Induced Shifts in Reproductive Phenology on Temperature-Dependent Traits. American Naturalist, 2013, 181, 637-648.	2.1	71
25	Spatial and temporal dynamics of turtle nest predation: edge effects. Oikos, 2002, 99, 538-544.	2.7	69
26	Comparative Molecular Phylogeography of North American Softshell Turtles (Apalone): Implications for Regional and Wide-Scale Historical Evolutionary Forces. Molecular Phylogenetics and Evolution, 2000, 14, 152-164.	2.7	67
27	Mechanism and cost of synchronous hatching. Functional Ecology, 2010, 24, 112-121.	3.6	63
28	Rapid molecular evolution across amniotes of the IIS/TOR network. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7055-7060.	7.1	59
29	The anti-predator role of within-nest emergence synchrony in sea turtle hatchlings. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160697.	2.6	58
30	Extreme developmental temperatures result in morphological abnormalities in painted turtles (Chrysemys picta): a climate change perspective. Integrative Zoology, 2013, 8, 197-208.	2.6	57
31	Experience pays: offspring survival increases with female age. Biology Letters, 2007, 3, 44-46.	2.3	54
32	Experimental analysis of an early life-history stage: direct or indirect selection on body size of hatchling turtles?. Functional Ecology, 2007, 21, 162.	3.6	54
33	Inheritance of nesting behaviour across natural environmental variation in a turtle with temperature-dependent sex determination. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 1219-1226.	2.6	54
34	Size-biased Mortality Due to Predation in a Nesting Freshwater Turtle, Trachemys scripta. American Midland Naturalist, 1999, 141, 198-203.	0.4	53
35	Temperature-Dependent Sex Determination under Rapid Anthropogenic Environmental Change: Evolution at a Turtleâ€™s Pace?. Journal of Heredity, 2016, 107, 61-70.	2.4	53
36	Phenotypic and fitness consequences of maternal nestâ€site choice across multiple early life stages. Ecology, 2013, 94, 336-345.	3.2	52

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37	Maternal and abiotic effects on egg mortality and hatchling size of turtles: temporal variation in selection over seven years. Functional Ecology, 2010, 24, 857-866.	3.6	49
38	Population sex ratios under differing local climates in a reptile with environmental sex determination. Evolutionary Ecology, 2014, 28, 977-989.	1.2	48
39	Does predator swamping promote synchronous emergence of turtle hatchlings among nests?. Behavioral Ecology, 2007, 19, 35-40.	2.2	46
40	Experimental Analysis of Effects of Markers and Habitat Structure on Predation of Turtle Nests. Journal of Herpetology, 2010, 44, 467-470.	0.5	45
41	Does sex-ratio selection influence nest-site choice in a reptile with temperature-dependent sex determination?. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20132460.	2.6	45
42	Hydric conditions during incubation influence phenotypes of neonatal reptiles in the field. Functional Ecology, 2015, 29, 710-717.	3.6	45
43	QUANTITATIVE GENETICS OF PLASTRON SHAPE IN SLIDER TURTLES (TRACHEMYS SCRIPTA). Evolution; International Journal of Organic Evolution, 2006, 60, 563-572.	2.3	44
44	Hatching Behavior in Turtles. Integrative and Comparative Biology, 2011, 51, 100-110.	2.0	44
45	The impact of behavioral and physiological maternal effects on offspring sex ratio in the common snapping turtle, Chelydra serpentina. Behavioral Ecology and Sociobiology, 2004, 56, 270.	1.4	43
46	Age and Season Impact Resource Allocation to Eggs and Nesting Behavior in the Painted Turtle. Physiological and Biochemical Zoology, 2005, 78, 996-1004.	1.5	42
47	A Brief Review of Non-Avian Reptile Environmental DNA (eDNA), with a Case Study of Painted Turtle (Chrysemys picta) eDNA Under Field Conditions. Diversity, 2019, 11, 50.	1.7	42
48	Egg Size, Incubation Temperature, and Posthatching Growth in Painted Turtles (Chrysemys picta). Journal of Herpetology, 2002, 36, 308-311.	0.5	41
49	Effects of Intraspecific Crowding on Water Uptake, Water Storage, Apical Growth, and Reproductive Potential in the Sahuaro Cactus, Carnegiea gigantea. Botanical Gazette, 1986, 147, 334-341.	0.6	40
50	Rainfall and Depredation of Nests of the Painted Turtle, Chrysemys picta. Journal of Herpetology, 2005, 39, 649-652.	0.5	37
51	Reptile Embryos Lack the Opportunity to Thermoregulate by Moving within the Egg. American Naturalist, 2016, 188, E13-E27.	2.1	37
52	A comparative study of environmental factors that affect nesting in Australian and North American freshwater turtles. Journal of Zoology, 2005, 267, 397.	1.7	34
53	PHENOTYPIC EFFECTS OF THERMAL MEANS AND VARIANCES ON SMOOTH SOFTSHELL TURTLE (APALONE) Tj ETQq1 1 0.784314 rgB	0.4	34
54	Demographic consequences of adaptive growth and the ramifications for conservation of long-lived organisms. Biological Conservation, 2010, 143, 1951-1959.	4.1	34

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55	Diverse aging rates in ectothermic tetrapods provide insights for the evolution of aging and longevity. Science, 2022, 376, 1459-1466.	12.6	34
56	Linking climate and physiology at the population level for a key life-history stage of turtles. Canadian Journal of Zoology, 2005, 83, 845-850.	1.0	33
57	Maternal effects influence phenotypes and survival during early life stages in an aquatic turtle. Functional Ecology, 2015, 29, 268-276.	3.6	33
58	What Have Long-Term Field Studies Taught Us About Population Dynamics?. Annual Review of Ecology, Evolution, and Systematics, 2019, 50, 261-278.	8.3	31
59	AN EXPERIMENTAL STUDY OF THE INFLUENCE OF EMBRYONIC WATER AVAILABILITY, BODY SIZE, AND CLUTCH ON SURVIVORSHIP OF NEONATAL RED-EARED SLIDERS, TRACHEMYS SCRIPTA ELEGANS. Herpetologica, 2002, 58, 67-74.	0.4	30
60	An enhanced developmental staging table for the painted turtle,Chrysemys picta(Testudines:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.2	30
61	Response of Red-Eared Slider, Trachemys scripta elegans, Eggs to Slightly Differing Water Potentials. Journal of Herpetology, 1998, 32, 124.	0.5	29
62	Experimental Analysis of an Early Life-History Stage: Water Loss and Migrating Hatchling Turtles. Copeia, 2002, 2002, 220-226.	1.3	29
63	COUNTERINTUITIVE DENSITY-DEPENDENT GROWTH IN A LONG-LIVED VERTEBRATE AFTER REMOVAL OF NEST PREDATORS. Ecology, 2006, 87, 3109-3118.	3.2	29
64	Altered spring phenology of North American freshwater turtles and the importance of representative populations. Ecology and Evolution, 2018, 8, 5815-5827.	1.9	29
65	Survival and Recruitment in a Human-Impacted Population of Ornate Box Turtles, Terrapene ornata, with Recommendations for Conservation and Management. Journal of Herpetology, 2004, 38, 562-568.	0.5	28
66	Sex-specific survival to maturity and the evolution of environmental sex determination. Evolution; International Journal of Organic Evolution, 2016, 70, 329-341.	2.3	28
67	A generalized method to determine detectability of rare and cryptic species using the ornate box turtle as a model. Wildlife Society Bulletin, 2011, 35, 93-100.	1.6	27
68	Phenotypic plasticity of nest timing in a postâ€glacial landscape: how do reptiles adapt to seasonal time constraints?. Ecology, 2017, 98, 512-524.	3.2	27
69	Female lizards choose warm, moist nests that improve embryonic survivorship and offspring fitness. Functional Ecology, 2018, 32, 416-423.	3.6	27
70	Quantifying the effects of embryonic phenotypic plasticity on adult phenotypes in reptiles: A review of current knowledge and major gaps. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2018, 329, 203-214.	1.9	27
71	Supercooling and freeze tolerance in hatchling painted turtles (Chrysemys picta). Canadian Journal of Zoology, 1989, 67, 1082-1084.	1.0	26
72	Residual Yolk in Captive and Wild-Caught Hatchlings of the Red-Eared Slider Turtle (Trachemys scripta) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.3	26

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73	Experimental manipulation of steroid concentrations in circulation and in egg yolks of turtles. The Journal of Experimental Zoology, 2002, 293, 58-66.	1.4	25
74	Human Recreation and the Nesting Ecology of a Freshwater Turtle (Chrysemys picta). Chelonian Conservation and Biology, 2008, 7, 95-100.	0.6	25
75	Tall Tails and Sexy Males: Sexual Behavior of Rough-Skinned Newts (Taricha granulosa) in a Natural Breeding Pond. Copeia, 1989, 1989, 1068.	1.3	24
76	SEX ALLOCATION BASED ON RELATIVE AND ABSOLUTE CONDITION. Evolution; International Journal of Organic Evolution, 2010, 64, 1331-45.	2.3	24
77	Breadth of the thermal response captures individual and geographic variation in temperatureâ€dependent sex determination. Functional Ecology, 2019, 33, 1928-1939.	3.6	23
78	Sensitivity to aerial exposure: potential of system-wide drawdowns to manage zebra mussels in the Mississippi River. River Research and Applications, 1997, 13, 479-487.	0.8	21
79	Molecular phylogeography of Apalone spinifera (Reptilia, Trionychidae). Zoologica Scripta, 2008, 37, 289-304.	1.7	20
80	Atrazine Exposure Impacts Behavior and Survivorship of Neonatal Turtles. Herpetologica, 2011, 67, 23-31.	0.4	20
81	Does shade cover availability limit nest-site choice in two populations of a turtle with temperature-dependent sex determination?. Journal of Thermal Biology, 2013, 38, 152-158.	2.5	20
82	Joint estimation of growth and survival from markâ€“recapture data to improve estimates of senescence in wild populations. Ecology, 2020, 101, e02877.	3.2	20
83	Survivorship of Aerially-Exposed Zebra Mussels (Dreissena polymorpha) under Laboratory Conditions. Journal of Freshwater Ecology, 1999, 14, 511-517.	1.2	19
84	Climate warming and environmental sex determination in tuatara: the Last of the Sphenodontians?. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 2181-2183.	2.6	19
85	Home Range and Site Fidelity of Imperiled Ornate Box Turtles (Terrapene ornata) in Northwestern Illinois. Chelonian Conservation and Biology, 2012, 11, 78-83.	0.6	19
86	Do trade-offs between predation pressures on females versus nests drive nest-site choice in painted turtles?. Biological Journal of the Linnean Society, 2015, 116, 847-855.	1.6	19
87	Population genetics of the predatory lady beetle Hippodamia convergens. Biological Control, 2015, 84, 1-10.	3.0	19
88	Insights from Population Genomics to Enhance and Sustain Biological Control of Insect Pests. Insects, 2020, 11, 462.	2.2	19
89	Interpopulational variation in the cold-tolerance of hatchling painted turtles. Journal of Thermal Biology, 1996, 21, 183-190.	2.5	18
90	Physiology at nearâ€critical temperatures, but not critical limits, varies between two lizard species that partition the thermal environment. Journal of Animal Ecology, 2017, 86, 1510-1522.	2.8	18

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91	Variation in Carapace Morphology and Reproduction in the Red-Eared Slider Trachemys scripta elegans. Journal of Herpetology, 1998, 32, 294.	0.5	17
92	Nesting ecology and offspring recruitment in a long-lived turtle. Ecology, 2009, 90, 1709-1710.	3.2	17
93	Exogenous application of estradiol to eggs unexpectedly induces male development in two turtle species with temperature-dependent sex determination. General and Comparative Endocrinology, 2014, 206, 16-23.	1.8	17
94	Geographic variation in thermal sensitivity of early life traits in a widespread reptile. Ecology and Evolution, 2019, 9, 2791-2802.	1.9	16
95	Substrate Influences Turtle Nest Temperature, Incubation Period, and Offspring Sex Ratio in the Field. Herpetologica, 2019, 75, 57.	0.4	16
96	Observations on Basking Behavior of Hatchling Turtles in the Wild. Journal of Herpetology, 1992, 26, 217.	0.5	15
97	Swimming against the tide: resilience of a riverine turtle to recurrent extreme environmental events. Biology Letters, 2014, 10, 20130782.	2.3	15
98	The Ontogeny of Postmaturation Resource Allocation in Turtles. Physiological and Biochemical Zoology, 2011, 84, 204-211.	1.5	14
99	Population genetics of Blandingâ€™s turtle (Emys blandingii) in the midwestern United States. Conservation Genetics, 2014, 15, 61-73.	1.5	14
100	Delayed trait development and the convergent evolution of shell kinesis in turtles. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181585.	2.6	12
101	Leaf size in three generations of a dioecious tropical tree,Ocotea tenera(Lauraceae): Sexual dimorphism and changes with age. American Journal of Botany, 2012, 99, 1350-1355.	1.7	11
102	Impacts of Anthropogenic Structures on Predation of Painted Turtle (Chrysemys picta) Nests. Chelonian Conservation and Biology, 2010, 9, 131-135.	0.6	10
103	Sex and Incubation Temperature Independently Affect Embryonic Development and Offspring Size in a Turtle with Temperature-Dependent Sex Determination. Physiological and Biochemical Zoology, 2020, 93, 62-74.	1.5	10
104	Demographic histories of three predatory lady beetles reveal complex patterns of diversity and population size change in the United States. Insect Science, 2018, 25, 1065-1079.	3.0	9
105	Development-specific transcriptomic profiling suggests new mechanisms for anoxic survival in the ventricle of overwintering turtles. Journal of Experimental Biology, 2020, 223, .	1.7	9
106	Does Natural Visual Camouflage Reduce Turtle Nest Predation?. American Midland Naturalist, 2016, 176, 166-172.	0.4	8
107	The effect of hormone manipulations on sex ratios varies with environmental conditions in a turtle with temperatureâ€dependent sex determination. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2017, 327, 172-181.	1.9	8
108	Offspring dispersal ability covaries with nest-site choice. Behavioral Ecology, 2019, 30, 125-133.	2.2	8

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109	Risk-sensitive maternal investment: an evaluation of parentâ€“offspring conflict over nest site choice in the wild. Animal Behaviour, 2020, 163, 105-113.	1.9	8
110	Visually-Oriented Foraging in a Natural Population of Herbivorous Lizards (Ctenosaura similis). Journal of Herpetology, 1995, 29, 132.	0.5	7
111	Response of Aerially-Exposed Zebra Mussels (Dreissena polymorpha) to Subfreezing Temperatures. Journal of Freshwater Ecology, 1996, 11, 513-519.	1.2	7
112	Effects of augmented corticosterone in painted turtle eggs on offspring development and behavior. Physiology and Behavior, 2018, 183, 1-9.	2.1	7
113	Environmentally induced phenotypic plasticity explains hatching synchrony in the freshwater turtle Chrysemys picta. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2018, 329, 362-372.	1.9	7
114	Gene network variation and alternative paths to convergent evolution in turtles. Evolution & Development, 2018, 20, 172-185.	2.0	7
115	Sex-specific growth, shape, and their impacts on the life history of a long-lived vertebrate. Evolutionary Ecology Research, 2018, 19, 639-657.	2.0	7
116	Becoming creatures of habit: Amongâ€•and withinâ€individual variation in nesting behaviour shift with age. Journal of Evolutionary Biology, 2020, 33, 1614-1624.	1.7	6
117	Impact of Nest-Site Selection on Nest Success and Nest Temperature in Natural and Disturbed Habitats. Ecology, 2002, 83, 269.	3.2	6
118	Do Covariances Between Maternal Behavior and Embryonic Physiology Drive Sex-Ratio Evolution Under Environmental Sex Determination?. Journal of Heredity, 2019, 110, 411-421.	2.4	5
119	The postembryonic transformation of the shell in emydine box turtles. Evolution & Development, 2019, 21, 297-310.	2.0	5
120	Predicting the effects of climate change on incubation in reptiles: methodological advances and new directions. Journal of Experimental Biology, 2021, 224, .	1.7	5
121	Order of oviposition and egg size in the red-eared slider turtle (Trachemys scripta elegans). Canadian Journal of Zoology, 1998, 76, 377-380.	1.0	5
122	Cold-Tolerance of Hatchling Painted Turtles (Chrysemys picta bellii) from the Southern Limit of Distribution. Journal of Herpetology, 2002, 36, 300-304.	0.5	4
123	The Status of Apalone atra Populations in Cuatro CiÃ©negas, Coahuila, MÃ©xico: Preliminary Data. Chelonian Conservation and Biology, 2008, 7, 88-95.	0.6	4
124	Nesting stage and distance to refuge influence terrestrial nesting behavior of Painted Turtles (Chrysemys picta). Canadian Journal of Zoology, 2017, 95, 837-841.	1.0	4
125	Range-wide phylogeography of Blandingâ€™s Turtle [Emys (=ÂEmydoidea) blandingii]. Conservation Genetics, 2019, 20, 419-430.	1.5	4
126	Using Mitochondrial DNA to Determine the Identity and Origin of a Gartersnake Found in Alaska. Journal of Herpetology, 2011, 45, 63-65.	0.5	3

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127	Habitat alteration and survival rates of the ornate box turtle. Journal of Wildlife Management, 2016, 80, 1503-1508.	1.8	3
128	ROSIE, a database of reptilian offspring sex ratios and sex-determining mechanisms, beginning with Testudines. Scientific Data, 2022, 9, 22.	5.3	3
129	Substrate Influences Turtle Nest Temperature, Incubation Period, and Offspring Sex Ratio in the Field. Herpetologica, 2019, 75, 57.	0.4	2
130	Nest Temperatures Predict Nest Emergence of Painted Turtle (Chrysemys picta) Offspring. Chelonian Conservation and Biology, 2020, 19, 72.	0.6	2
131	Joint estimation of growth and survival from markâ€“recapture data to improve estimates of senescence in wild populations: Reply. Ecology, 2022, 103, e03571.	3.2	2
132	Modeling Onset of Hourly Nesting Activity in a Freshwater Turtle Using Abiotic Variables and Physiological Capacity. Journal of Herpetology, 2021, 55, .	0.5	1
133	Age Predicts Risky Investment Better Than Residual Reproductive Value. American Naturalist, 2021, 197, 461-472.	2.1	1
134	Molecular Conservation Genetics and Adaptation. Frontiers in Ecology and the Environment, 2004, 2, 234.	4.0	0
135	Evoâ€Devo of Specialized Bone Joints Formed During Preâ€Natal and Postâ€Natal Ontogeny in Turtles With Shellâ€Closing Systems. FASEB Journal, 2013, 27, 520.1.	0.5	0