Elizabeth E Crone

List of Publications by Year
in descending order

82 papers	3,915 citations	136950 32 h-index	133252 59 g-index
94 all docs	94 docs citations	94 times ranked	4529 citing authors

#	Article	IF	Citations
1	Herbivory: effects on plant abundance, distribution and population growth. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 2575-2584.	2.6	430
2	EDGE-MEDIATED DISPERSAL BEHAVIOR IN A PRAIRIE BUTTERFLY. Ecology, 2001, 82, 1879-1892.	3.2	218
3	How do plant ecologists use matrix population models?. Ecology Letters, 2011, 14, 1-8.	6.4	205
4	International scientists formulate a roadmap for insect conservation and recovery. Nature Ecology and Evolution, 2020, 4, 174-176.	7.8	176
5	Climate-driven changes in northeastern US butterfly communities. Nature Climate Change, 2013, 3, 142-145.	18.8	146
6	Masting in whitebark pine (Pinus albicaulis) depletes stored nutrients. New Phytologist, 2012, 196, 189-199.	7.3	127
7	How do plants know when other plants are flowering? Resource depletion, pollen limitation and mastâ€seeding in a perennial wildflower. Ecology Letters, 2009, 12, 1119-1126.	6.4	116
8	IS SURVIVORSHIP A BETTER FITNESS SURROGATE THAN FECUNDITY?. Evolution; International Journal of Organic Evolution, 2001, 55, 2611-2614.	2.3	113
9	Citizen science monitoring demonstrates dramatic declines of monarch butterflies in western North America. Biological Conservation, 2017, 214, 343-346.	4.1	112
10	Resource depletion, pollen coupling, and the ecology of mast seeding. Annals of the New York Academy of Sciences, 2014, 1322, 21-34.	3.8	108
11	Bumble bee colony dynamics: quantifying the importance of land use and floral resources for colony growth and queen production. Ecology Letters, 2016, 19, 460-468.	6.4	108
12	Global gene flow releases invasive plants from environmental constraints on genetic diversity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4218-4227.	7.1	108
13	How do vertebrates respond to mast seeding?. Oikos, 2016, 125, 300-307.	2.7	94
14	Western Monarch Population Plummets: Status, Probable Causes, and Recommended Conservation Actions. Frontiers in Ecology and Evolution, 2019, 7, .	2.2	90
15	Applicability of landscape and island biogeography theory to restoration of riparian understorey plants. Journal of Applied Ecology, 2004, 41, 922-933.	4.0	77
16	Advantages of masting in European beech: timing of granivore satiation and benefits of seed caching support the predator dispersal hypothesis. Oecologia, 2016, 180, 749-758.	2.0	69
17	Quantifying the outcome of plantâ€“granivore interactions. Oikos, 2012, 121, 20-27.	2.7	68
18	Patch Size and Connectivity Thresholds for Butterfly Habitat Restoration. Conservation Biology, 2005, 19, 887-896.	4.7	66

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19	Designing a network for butterfly habitat restoration: where individuals, populations and landscapes interact. Journal of Applied Ecology, 2007, 44, 725-736.	4.0	65
20	Fire and mice: Seed predation moderates fire's influence on conifer recruitment. Ecology, 2010, 91, 1124-1131.	3.2	65
21	Burning Prairie to Restore Butterfly Habitat: A Modeling Approach to Management Tradeoffs for the Fender's Blue. Restoration Ecology, 1998, 6, 244-252.	2.9	64
22	Effects of nitrogen deposition on reproduction in a masting tree: benefits of higher seed production are trumped by negative biotic interactions. Journal of Ecology, 2017, 105, 310-320.	4.0	59
23	Empirical tests of lifeâ€history evolution theory using phylogenetic analysis of plant demography. Journal of Ecology, 2010, 98, 334-344.	4.0	56
24	Correlated seed failure as an environmental veto to synchronize reproduction of masting plants. New Phytologist, 2018, 219, 98-108.	7.3	56
25	ECOLOGICAL INFLUENCES ON THE DYNAMICS OF A FIELD VOLE METAPOPULATION. Ecology, 2001, 82, 831-843.	3.2	52
26	Causes and consequences of prolonged dormancy for an iteroparous geophyte, Silene spaldingii. Journal of Ecology, 2007, 95, 1360-1369.	4.0	48
27	The Scientific Foundations of Habitat Conservation Plans: a Quantitative Assessment. Conservation Biology, 2001, 15, 488-500.	4.7	45
28	What defines mast seeding? Spatioâ€temporal patterns of cone production by whitebark pine. Journal of Ecology, 2011, 99, 438-444.	4.0	45
29	Empirical Models of Pollen Limitation, Resource Acquisition, and Mast Seeding by a Beeâ€Pollinated Wildflower. American Naturalist, 2005, 166, 396-408.	2.1	40
30	Timeâ€lagged effects of weather on plant demography: drought and Astragalus scaphoides. Ecology, 2018, 99, 915-925.	3.2	39
31	Pollen and water limitation in Astragalus scaphoides, a plant that flowers in alternate years. Oecologia, 2006, 150, 40-49.	2.0	38
32	CAUSES OF SYNCHRONOUS FLOWERING IN ASTRAGALUS SCAPHOIDES, AN ITEROPAROUS PERENNIAL PLANT. Ecology, 2004, 85, 1944-1954.	3.2	37
33	Arctic and boreal plant species decline at their southern range limits in the Rocky Mountains. Ecology Letters, 2017, 20, 166-174.	6.4	35
34	Why are monarch butterflies declining in the West? Understanding the importance of multiple correlated drivers. Ecological Applications, 2019, 29, e01975.	3.8	35
35	Do benefits of seed dispersal and caching by scatterhoarders outweigh the costs of predation? An example with oaks and yellowâ€necked mice. Journal of Ecology, 2020, 108, 1009-1018.	4.0	34
36	The role of transient dynamics in stochastic population growth for nine perennial plants. Ecology, 2013, 94, 1681-1686.	3.2	32

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37	Contrasting effects of spatial heterogeneity and environmental stochasticity on population dynamics of a perennial wildflower. Journal of Ecology, 2016, 104, 281-291.	4.0	32
38	Losing a battle but winning the war: moving past preferenceâ€“performance to understand native herbivoreâ€“novel host plant interactions. Oecologia, 2017, 183, 441-453.	2.0	32
39	Faster movement in nonhabitat matrix promotes range shifts in heterogeneous landscapes. Ecology, 2019, 100, e02701.	3.2	32
40	Integrating vital rates explains optimal worker size for resource return by bumblebee workers. Functional Ecology, 2019, 33, 467-478.	3.6	32
41	Flowering synchrony drives reproductive success in a windâ€pollinated tree. Ecology Letters, 2020, 23, 1820-1826.	6.4	31
42	OLD MODELS EXPLAIN NEW OBSERVATIONS OF BUTTERFLY MOVEMENT AT PATCH EDGES. Ecology, 2008, 89, 2061-2067.	3.2	29
43	Developmental trap or demographic bonanza? Opposing consequences of earlier phenology in a changing climate for a multivoltine butterfly. Global Change Biology, 2020, 26, 2014-2027.	9.5	29
44	Demographic benefits of early season resources for bumble bee (B. vosnesenskii) colonies. Oecologia, 2019, 191, 377-388.	2.0	28
45	Does masting scale with plant size? High reproductive variability and low synchrony in small and unproductive individuals. Annals of Botany, 2020, 126, 971-979.	2.9	28
46	Using animal movement behavior to categorize land cover and predict consequences for connectivity and patch residence times. Landscape Ecology, 2017, 32, 1657-1670.	4.2	26
47	Sourceâ€sink dynamics of bumblebees in rapidly changing landscapes. Journal of Applied Ecology, 2018, 55, 2802-2811.	4.0	25
48	Minimum area requirements for an atâ€risk butterfly based on movement and demography. Conservation Biology, 2016, 30, 103-112.	4.7	24
49	Environmental Veto Synchronizes Mast Seeding in Four Contrasting Tree Species. American Naturalist, 2019, 194, 246-259.	2.1	23
50	Phenotypic plasticity masks rangeâ€wide genetic differentiation for vegetative but not reproductive traits in a shortâ€lived plant. Ecology Letters, 2021, 24, 2378-2393.	6.4	21
51	Changes in flight period predict trends in abundance of Massachusetts butterflies. Ecology Letters, 2021, 24, 249-257.	6.4	19
52	Resilience or Catastrophe? A possible state change for monarch butterflies in western North America. Ecology Letters, 2021, 24, 1533-1538.	6.4	16
53	Contrasting effects of land cover on nesting habitat use and reproductive output for bumble bees. Ecosphere, 2021, 12, e03642.	2.2	14
54	Are eastern and western monarch butterflies distinct populations? A review of evidence for ecological, phenotypic, and genetic differentiation and implications for conservation. Conservation Science and Practice, 2021, 3, e432.	2.0	13

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55	Mechanism matters: the cause of fluctuations in boomâ€“bust populations governs optimal habitat restoration strategy. Ecological Applications, 2018, 28, 356-372.	3.8	13
56	Non-target effects of grass-specific herbicides differ among species, chemicals and host plants in Euphydryas butterflies. Journal of Insect Conservation, 2016, 20, 867-877.	1.4	11
57	Using the right tool for the job: the difference between unsupervised and supervised analyses of multivariate ecological data. Oecologia, 2021, 196, 13-25.	2.0	11
58	Edge-Mediated Dispersal Behavior in a Prairie Butterfly. Ecology, 2001, 82, 1879.	3.2	11
59	By wind or wing: pollination syndromes and alternate bearing in horticultural systems. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200371.	4.0	11
60	Early resources lead to persistent benefits for bumble bee colony dynamics. Ecology, 2022, 103, e03560.	3.2	11
61	Maple syrup production declines following masting. Forest Ecology and Management, 2015, 335, 249-254.	3.2	10
62	Accounting for imperfect detection in species with sessile life cycle stages: a case study of bumble bee nests. Journal of Insect Conservation, 2019, 23, 945-955.	1.4	10
63	Population Viability of Rorippa columbiae: Multiple Models and Spatial Trend Data. Conservation Biology, 1998, 12, 1054-1065.	4.7	9
64	Estimating abundance and phenology from transect count data with GLMs. Oikos, 2021, 130, 1335-1345.	2.7	8
65	Instant death, slow death and the consequences of assumptions about prolonged dormancy for plant population dynamics. Journal of Ecology, 2017, 105, 471-483.	4.0	7
66	On the need to evaluate costs and benefits of synzoochory for plant populations. Journal of Ecology, 2020, 108, 1784-1788.	4.0	6
67	Changes in phenology and abundance of an at-risk butterfly. Journal of Insect Conservation, 2021, 25, 499-510.	1.4	6
68	The contribution of plant spatial arrangement to bumble bee flower constancy. Oecologia, 2022, 198, 471-481.	2.0	6
69	Host plant limitation of butterflies in highly fragmented landscapes. Theoretical Ecology, 2022, 15, 165-175.	1.0	6
70	Differential impacts of soil microbes on native and coâ€occurring invasive tree species. Ecosphere, 2019, 10, e02802.	2.2	5
71	Using statistics to design and estimate vital rates in matrix population models for a perennial herb. Population Ecology, 2020, 62, 53-63.	1.2	5
72	Phenology of feeding preference in postâ€diapause Baltimore checkerspot (<scp><i>Euphydryas) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.2	4

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73	DOES SCALE AFFECT ECOLOGICAL MODEL PREDICTIONS? A TEST WITH LAKE RESPONSES TO FERTILIZATION. , 2004, 14, 1178-1188.		3
74	Ecological traits explain longâ€term phenological trends in solitary bees. Journal of Animal Ecology, 2023, 92, 285-296.	2.8	3
75	Larger workers outperform smaller workers across resource environments: An evaluation of demographic data using functional linear models. Ecology and Evolution, 2021, 11, 2814-2827.	1.9	2
76	Life history tradeâ€offs are more pronounced for a noninvasive, native butterfly compared to its invasive, exotic congener. Population Ecology, 2020, 62, 119-133.	1.2	1
77	The effects of commercial propagation on bumble bee (Bombus impatiens) foraging and worker body size. Apidologie, 2021, 52, 887-898.	2.0	1
78	Ecological Influences on the Dynamics of a Field Vole Metapopulation. Ecology, 2001, 82, 831.	3.2	1
79	Movement of nestâ€searching bumblebee queens reflects nesting habitat quality. Ecological Entomology, 0, , .	2.2	1
80	Leading by Example: Response to Golet et al.. Conservation Biology, 2009, 23, 1638-1638.	4.7	0
81	Why are Monarch Butterflies Declining in the West? Understanding the Importance of Multiple Correlated Drivers. Bulletin of the Ecological Society of America, 2019, 100, e01602.	0.2	0
82	Comparing demography inferred from age vs. stage in a perennial plant. Ecology, 2021, 102, e03322.	3.2	0