

Thomas O Crist

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

12,257
citations

57758

44
h-index

58581

82
g-index

88
all docs

88
docs citations

88
times ranked

13093
citing authors

#	ARTICLE	IF	CITATIONS
1	Navigating the multiple meanings of \hat{I}^2 diversity: a roadmap for the practicing ecologist. <i>Ecology Letters</i> , 2011, 14, 19-28.	6.4	1,899
2	Landscape moderation of biodiversity patterns and processes – eight hypotheses. <i>Biological Reviews</i> , 2012, 87, 661-685.	10.4	1,443
3	Functional landscape heterogeneity and animal biodiversity in agricultural landscapes. <i>Ecology Letters</i> , 2011, 14, 101-112.	6.4	1,279
4	Disentangling the Drivers of \hat{I}^2 Diversity Along Latitudinal and Elevational Gradients. <i>Science</i> , 2011, 333, 1755-1758.	12.6	617
5	Critical Thresholds in Species' Responses to Landscape Structure. <i>Ecology</i> , 1995, 76, 2446-2459.	3.2	591
6	Conservation biological control and enemy diversity on a landscape scale. <i>Biological Control</i> , 2007, 43, 294-309.	3.0	531
7	Partitioning Species Diversity across Landscapes and Regions: A Hierarchical Analysis of \hat{I}^{\pm} , \hat{I}^2 , and \hat{I}^3 Diversity. <i>American Naturalist</i> , 2003, 162, 734-743.	2.1	528
8	The spread of invasive species and infectious disease as drivers of ecosystem change. <i>Frontiers in Ecology and the Environment</i> , 2008, 6, 238-246.	4.0	457
9	The additive partitioning of species diversity: recent revival of an old idea. <i>Oikos</i> , 2002, 99, 3-9.	2.7	404
10	Life-history traits predict species responses to habitat area and isolation: a cross-continental synthesis. <i>Ecology Letters</i> , 2010, 13, 969-979.	6.4	336
11	Additive Partitioning of Species Diversity across Multiple Spatial Scales: Implications for Regional Conservation of Biodiversity. <i>Conservation Biology</i> , 2003, 17, 488-499.	4.7	318
12	Harvester Ants (<i>Pogonomyrmex</i> spp.): Their Community and Ecosystem Influences. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2000, 31, 265-291.	6.7	244
13	Additive partitioning of rarefaction curves and species-area relationships: unifying \hat{I}^{\pm} , \hat{I}^2 - and \hat{I}^3 -diversity with sample size and habitat area. <i>Ecology Letters</i> , 2006, 9, 923-932.	6.4	215
14	The alpha-beta-regional relationship: providing new insights into local-regional patterns of species richness and scale dependence of diversity components. <i>Ecology Letters</i> , 2002, 5, 433-444.	6.4	149
15	Habitat and climate heterogeneity maintain beta-diversity of birds among landscapes within ecoregions. <i>Global Ecology and Biogeography</i> , 2007, 16, 650-656.	5.8	144
16	The Impact of Fungi on Soil Seeds: Implications for Plants and Granivores in a Semiarid Shrub-Steppe. <i>Ecology</i> , 1993, 74, 2231-2239.	3.2	139
17	Fractal Patterns of Insect Movement in Microlandscape Mosaics. <i>Ecology</i> , 1995, 76, 663-666.	3.2	136
18	Harvester Ant Foraging and Shrub-Steppe Seeds: Interactions of Seed Resources and Seed Use. <i>Ecology</i> , 1992, 73, 1768-1779.	3.2	130

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19	Stochastic and deterministic drivers of spatial and temporal turnover in breeding bird communities. <i>Global Ecology and Biogeography</i> , 2013, 22, 202-212.	5.8	121
20	EFFECTS OF TIMBER HARVEST ON FOREST LEPIDOPTERA: COMMUNITY, GUILD, AND SPECIES RESPONSES. , 2002, 12, 820-835.		110
21	Spatial Variation in Species Diversity and Composition of Forest Lepidoptera in Eastern Deciduous Forests of North America. <i>Conservation Biology</i> , 2003, 17, 1045-1057.	4.7	108
22	Determinants of lepidopteran community composition and species diversity in eastern deciduous forests: roles of season, eco-region and patch size. <i>Oikos</i> , 2003, 100, 134-148.	2.7	105
23	Contrasting effects of habitat quantity and quality on moth communities in fragmented landscapes. <i>Ecography</i> , 2004, 27, 3-12.	4.5	104
24	Experimental effects of habitat fragmentation on old-field canopy insects: community, guild and species responses. <i>Oecologia</i> , 1999, 118, 371-380.	2.0	95
25	Forest moth taxa as indicators of lepidopteran richness and habitat disturbance: a preliminary assessment. <i>Biological Conservation</i> , 2004, 116, 9-18.	4.1	91
26	Scale Effects of Vegetation on Forager Movement and Seed Harvesting by Ants. <i>Oikos</i> , 1994, 69, 37.	2.7	86
27	Effects of landscape connectivity on the spatial distribution of insect diversity in agricultural mosaic landscapes. <i>Basic and Applied Ecology</i> , 2008, 9, 298-307.	2.7	84
28	EFFECTS OF EXPERIMENTAL HABITAT FRAGMENTATION ON PATCH USE BY BUTTERFLIES AND SKIPPERS (LEPIDOPTERA). <i>Ecology</i> , 2001, 82, 1360-1370.	3.2	83
29	On Quantifying Insect Movements. <i>Environmental Entomology</i> , 1993, 22, 709-715.	1.4	82
30	Habitat specialization, body size, and family identity explain lepidopteran density-area relationships in a cross-continental comparison. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8368-8373.	7.1	74
31	Effects of the Exxon Valdez Oil Spill on Marine Bird Communities in Prince William Sound, Alaska. , 1996, 6, 828-841.		69
32	The Distribution of Ant Colonies in a Semiarid Landscape: Implications for Community and Ecosystem Processes. <i>Oikos</i> , 1996, 76, 301.	2.7	66
33	Experimental effects of habitat fragmentation on rove beetles and ants: patch area or edge?. <i>Oikos</i> , 2000, 90, 525-538.	2.7	66
34	Reprint of "Conservation biological control and enemy diversity on a landscape scale" [Biol. Control 43 (2007) 294-309]. <i>Biological Control</i> , 2008, 45, 238-253.	3.0	64
35	Diversity partitioning without statistical independence of alpha and beta. <i>Ecology</i> , 2010, 91, 1964-1969.	3.2	64
36	Intraspecific variability in the social and genetic mating systems of prairie voles, <i>Microtus ochrogaster</i> . <i>Animal Behaviour</i> , 2011, 82, 1387-1398.	1.9	62

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37	Structure and conservation of lepidopteran communities in managed forests of northeastern North America: a review. <i>Canadian Entomologist</i> , 2008, 140, 475-494.	0.8	61
38	Foraging Patterns of <i>Pogonomyrmex occidentalis</i> (Hymenoptera: Formicidae) in a Shrubâ€“Steppe Ecosystem: The Roles of Temperature, Trunk Trails, and Seed Resources. <i>Environmental Entomology</i> , 1991, 20, 265-275.	1.4	60
39	Spatial variation in insect community and species responses to habitat loss and plant community composition. <i>Oecologia</i> , 2006, 147, 510-521.	2.0	55
40	Toward a unified view of diversity partitioning. <i>Ecology</i> , 2010, 91, 1988-1992.	3.2	55
41	The spatial distribution of termites in shortgrass steppe: a geostatistical approach. <i>Oecologia</i> , 1998, 114, 410.	2.0	51
42	Community structure of arboreal caterpillars within and among four tree species of the eastern deciduous forest. <i>Ecological Entomology</i> , 2003, 28, 747-757.	2.2	51
43	Temporal Patterns of Species Accumulation in a Survey of Lepidoptera in a Beech-Maple Forest. <i>Biodiversity and Conservation</i> , 2005, 14, 3393-3406.	2.6	49
44	Individual Movements and Estimation of Population Size in Darkling Beetles (Coleoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (2.8	47
45	Direct and indirect effects of habitat area and matrix composition on species interactions among flowerâ€“visiting insects. <i>Oikos</i> , 2007, 116, 1588-1598.	2.7	47
46	Does habitat heterogeneity increase farmland biodiversity?. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 152-153.	4.0	47
47	Diversity of Lepidoptera in Ohio Forests at Local and Regional Scales - How Heterogeneous is the Fauna?. <i>Annals of the Entomological Society of America</i> , 2001, 94, 583-591.	2.5	43
48	Does variation in patch use among butterfly species contribute to nestedness at fine spatial scales?. <i>Oikos</i> , 2002, 97, 195-204.	2.7	37
49	Translating across scales: Simulating species distributions as the aggregate response of individuals to heterogeneity. <i>Ecological Modelling</i> , 1996, 93, 125-137.	2.5	36
50	Resource complementation and the response of an insect herbivore to habitat area and fragmentation. <i>Oecologia</i> , 2007, 153, 511-520.	2.0	36
51	INTRASPECIFIC AGGREGATION DECREASES LOCAL SPECIES DIVERSITY OF ARTHROPODS. <i>Ecology</i> , 2003, 84, 3376-3383.	3.2	33
52	From dispersal to predation: A global synthesis of antâ€“seed interactions. <i>Ecology and Evolution</i> , 2018, 8, 9122-9138.	1.9	29
53	Quantifying habitatâ€“specific contributions to insect diversity in agricultural mosaic landscapes. <i>Insect Conservation and Diversity</i> , 2013, 6, 607-618.	3.0	28
54	Do body size and diet breadth affect partitioning of species diversity? A test with forest Lepidoptera. <i>Diversity and Distributions</i> , 2006, 12, 91-99.	4.1	27

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55	Butterfly Abundance and Movements Among Prairie Patches: The Roles of Habitat Quality, Edge, and Forest Matrix Permeability. <i>Environmental Entomology</i> , 2008, 37, 897-906.	1.4	26
56	Rhizosphere disturbance influences fungal colonization and community development on dead fine roots. <i>Plant and Soil</i> , 2011, 341, 279-293.	3.7	23
57	Nesting habitat enhancement for wild bees within soybean fields increases crop production. <i>Apidologie</i> , 2019, 50, 833-844.	2.0	22
58	Effects of Habitat Patch Size and Temperature on the Distribution and Abundance of Ground Beetles (Coleoptera: Carabidae) in an Old Field. <i>Environmental Entomology</i> , 1999, 28, 681-689.	1.4	21
59	Ants and plants as indicators of biodiversity, ecosystem services, and conservation value in constructed grasslands. <i>Biodiversity and Conservation</i> , 2016, 25, 1481-1501.	2.6	21
60	Effects of an invasive shrub, <i>Lonicera maackii</i> , and a generalist herbivore, white-tailed deer, on forest floor plant community composition. <i>Forest Ecology and Management</i> , 2017, 402, 204-212.	3.2	21
61	Insect herbivory in an experimental agroecosystem: the relative importance of habitat area, fragmentation, and the matrix. <i>Oikos</i> , 2009, 118, 1477-1486.	2.7	19
62	Variability in soil chemistry and arbuscular mycorrhizal fungi in harvester ant nests: the influence of topography, grazing and region. <i>Biology and Fertility of Soils</i> , 2002, 35, 406-413.	4.3	17
63	Simulation of Topographic and Daily Variation in Colony Activity of <i>Pogonomyrmex occidentalis</i> (Hymenoptera: Formicidae) Using a Soil Temperature Model. <i>Environmental Entomology</i> , 1999, 28, 659-668.	1.4	16
64	Invasive earthworm and soil litter response to the experimental removal of white-tailed deer and an invasive shrub. <i>Ecology</i> , 2019, 100, e02688.	3.2	15
65	Scale dependence of effective specialization: its analysis and implications for estimates of global insect species richness. <i>Diversity and Distributions</i> , 2007, 13, 115-125.	4.1	14
66	Lepidoptera-specific insecticide used to suppress gypsy moth outbreaks may benefit non-target forest Lepidoptera. <i>Agricultural and Forest Entomology</i> , 2014, 16, 359-368.	1.3	14
67	A CANONICAL CORRESPONDENCE ANALYSIS OF THE EFFECTS OF THE EXXON VALDEZ OIL SPILL ON MARINE BIRDS. , 2001, 11, 828-839.		13
68	Ant species assembly in constructed grasslands is structured at patch and landscape levels. <i>Insect Conservation and Diversity</i> , 2017, 10, 180-191.	3.0	13
69	Effectiveness of Winkler Litter Extraction and Pitfall Traps in Sampling Ant Communities and Functional Groups in a Temperate Forest. <i>Environmental Entomology</i> , 2017, 46, 470-479.	1.4	11
70	The spatial distribution of termite activity in grazed and ungrazed Chihuahuan Desert grassland. <i>Journal of Arid Environments</i> , 1998, 40, 77-89.	2.4	10
71	Butterfly Abundance and Movements Among Prairie Patches: The Roles of Habitat Quality, Edge, and Forest Matrix Permeability. <i>Environmental Entomology</i> , 2008, 37, 897-906.	1.4	10
72	Effects of Experimental Habitat Fragmentation on Patch Use by Butterflies and Skippers (Lepidoptera). <i>Ecology</i> , 2001, 82, 1360.	3.2	9

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73	Response to Comments on "Disentangling the Drivers of β^2 Diversity Along Latitudinal and Elevational Gradients". <i>Science</i> , 2012, 335, 1573-1573.	12.6	8
74	Landscape and Local Controls of Insect Biodiversity in Conservation Grasslands: Implications for the Conservation of Ecosystem Service Providers in Agricultural Environments. <i>Land</i> , 2014, 3, 693-718.	2.9	8
75	Partitioning of α and β^2 diversity using hierarchical Bayesian modeling of species distribution and abundance. <i>Environmental and Ecological Statistics</i> , 2014, 21, 611-625.	3.5	8
76	The functional response and prey preference of generalist Nabid (Hemiptera: Nabidae) predators to leafhopper prey (Hemiptera: Cicadellidae). <i>Canadian Entomologist</i> , 2018, 150, 190-200.	0.8	7
77	The Use of Ant Nests by Subterranean Termites in Two Semiarid Ecosystems. <i>American Midland Naturalist</i> , 1994, 131, 370.	0.4	6
78	Fine-scale spatial patterns of genetic relatedness among resident adult prairie voles. <i>Journal of Mammalogy</i> , 2015, 96, 1194-1202.	1.3	6
79	Effects of <i>avpr1a</i> length polymorphism on male social behavior and reproduction in semi-natural populations of prairie voles (<i>Microtus ochrogaster</i>). <i>Ethology</i> , 2017, 123, 675-688.	1.1	6
80	Experimental effects of white-tailed deer and an invasive shrub on forest ant communities. <i>Oecologia</i> , 2019, 191, 633-644.	2.0	6
81	Interactive Effects of White-Tailed Deer, an Invasive Shrub, and Exotic Earthworms on Leaf Litter Decomposition. <i>Ecosystems</i> , 2020, 23, 1523-1535.	3.4	6
82	Bee communities and pollination services in adjacent crop fields following flower removal in an invasive forest shrub. <i>Ecological Applications</i> , 2020, 30, e02078.	3.8	6
83	Ant Biodiversity and Functional Roles in Fragmented Forest and Grassland Ecosystems of the Agricultural Midwest, North America. , 0, , 3-25.		4
84	Guild Designations and Testing for Effects of Gypsy Moth (Lepidoptera: Lymantriidae) Outbreaks on Native Lepidopteran Communities: A Comment on Work and McCullough (2000): Table 1.. <i>Environmental Entomology</i> , 2002, 31, 581-584.	1.4	2
85	Invasive shrub cover and tree species composition influence exotic earthworms. <i>Forest Ecology and Management</i> , 2019, 447, 53-59.	3.2	2
86	Shifts in dragonfly community structure across aquatic ecotones. <i>International Journal of Odonatology</i> , 2019, 22, 121-133.	0.5	1
87	The Effects of Dispersal and Predator Density on Prey Survival in an Insect-Red Clover Metacommunity. <i>Journal of Insect Science</i> , 2018, 18, .	1.5	0