

Sharon Y. Strauss

List of Publications by Year in descending order

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75
papers

10,923
citations

46918

47
h-index

74018

75
g-index

77
all docs

77
docs citations

77
times ranked

11132
citing authors

#	ARTICLE	IF	CITATIONS
1	The ecology and evolution of plant tolerance to herbivory. <i>Trends in Ecology and Evolution</i> , 1999, 14, 179-185.	4.2	1,331
2	Direct and ecological costs of resistance to herbivory. <i>Trends in Ecology and Evolution</i> , 2002, 17, 278-285.	4.2	765
3	Evolutionary responses of natives to introduced species: what do introductions tell us about natural communities?. <i>Ecology Letters</i> , 2006, 9, 357-374.	3.0	510
4	Ecological and Evolutionary Consequences of Multispecies Plant-Animal Interactions. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2004, 35, 435-466.	3.8	456
5	Exotic taxa less related to native species are more invasive. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5841-5845.	3.3	418
6	Filling key gaps in population and community ecology. <i>Frontiers in Ecology and the Environment</i> , 2007, 5, 145-152.	1.9	401
7	Indirect effects in community ecology: Their definition, study and importance. <i>Trends in Ecology and Evolution</i> , 1991, 6, 206-210.	4.2	371
8	Mutual Feedbacks Maintain Both Genetic and Species Diversity in a Plant Community. <i>Science</i> , 2007, 317, 1561-1563.	6.0	332
9	More closely related species are more ecologically similar in an experimental test. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5302-5307.	3.3	329
10	Foliar Herbivory Affects Floral Characters and Plant Attractiveness to Pollinators: Implications for Male and Female Plant Fitness. <i>American Naturalist</i> , 1996, 147, 1098-1107.	1.0	288
11	The evolution of seed dormancy: environmental cues, evolutionary hubs, and diversification of the seed plants. <i>New Phytologist</i> , 2014, 203, 300-309.	3.5	281
12	The evolutionary ecology of metacommunities. <i>Trends in Ecology and Evolution</i> , 2008, 23, 311-317.	4.2	253
13	FLORAL CHARACTERS LINK HERBIVORES, POLLINATORS, AND PLANT FITNESS. <i>Ecology</i> , 1997, 78, 1640-1645.	1.5	241
14	Evolutionary principles and their practical application. <i>Evolutionary Applications</i> , 2011, 4, 159-183.	1.5	230
15	Applying evolutionary biology to address global challenges. <i>Science</i> , 2014, 346, 1245993.	6.0	228
16	Empirical and theoretical challenges in abovegroundâ€“belowground ecology. <i>Oecologia</i> , 2009, 161, 1-14.	0.9	223
17	The geography and ecology of plant speciation: range overlap and niche divergence in sister species. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20132980.	1.2	208
18	Mutualistâ€“mediated effects on species' range limits across large geographic scales. <i>Ecology Letters</i> , 2014, 17, 1265-1273.	3.0	201

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19	Toward a more trait-centered approach to diffuse (co)evolution. <i>New Phytologist</i> , 2005, 165, 81-90.	3.5	199
20	Gene flow increases fitness at the warm edge of a species' range. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11704-11709.	3.3	180
21	Direct, Indirect, and Cumulative Effects of Three Native Herbivores on a Shared Host Plant. <i>Ecology</i> , 1991, 72, 543-558.	1.5	168
22	Optimal defence theory and flower petal colour predict variation in the secondary chemistry of wild radish. <i>Journal of Ecology</i> , 2004, 92, 132-141.	1.9	165
23	Soil microbial community variation correlates most strongly with plant species identity, followed by soil chemistry, spatial location and plant genus. <i>AoB PLANTS</i> , 2015, 7, plv030-plv030.	1.2	149
24	Frontiers of Ecology. <i>BioScience</i> , 2001, 51, 15.	2.2	145
25	Leaf damage by herbivores affects attractiveness to pollinators in wild radish, <i>Raphanus raphanistrum</i> . <i>Oecologia</i> , 1997, 111, 396-403.	0.9	137
26	Structure, persistence, and role of consumers in a tropical rocky intertidal community (Taboguilla). <i>Ecology</i> , 2007, 88, 1075-1085.	0.7	130
27	Inference of allelopathy is complicated by effects of activated carbon on plant growth. <i>New Phytologist</i> , 2008, 178, 412-423.	3.5	130
28	Levels of herbivory and parasitism in host hybrid zones. <i>Trends in Ecology and Evolution</i> , 1994, 9, 209-214.	4.2	124
29	A selection mosaic in the facultative mutualism between ants and wild cotton. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 2481-2488.	1.2	122
30	Phylogenetic conservatism in plant-soil feedback and its implications for plant abundance. <i>Ecology Letters</i> , 2014, 17, 1613-1621.	3.0	118
31	Community Complexity Drives Patterns of Natural Selection on a Chemical Defense of <i>Brassica nigra</i> . <i>American Naturalist</i> , 2008, 171, 150-161.	1.0	103
32	Flower Color Microevolution in Wild Radish: Evolutionary Response to Pollinator-Mediated Selection. <i>American Naturalist</i> , 2005, 165, 225-237.	1.0	93
33	Prescriptive Evolution to Conserve and Manage Biodiversity. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2014, 45, 1-22.	3.8	89
34	Coexistence in Close Relatives: Beyond Competition and Reproductive Isolation in Sister Taxa. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2016, 47, 359-381.	3.8	89
35	Trade-offs among anti-herbivore resistance traits: insights from <i>Gossypieae</i> (Malvaceae). <i>American Journal of Botany</i> , 2004, 91, 871-880.	0.8	87
36	Plant-soil feedbacks contribute to an intransitive competitive network that promotes both genetic and species diversity. <i>Journal of Ecology</i> , 2011, 99, 176-185.	1.9	82

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37	Ecological and evolutionary responses in complex communities: implications for invasions and eco-evolutionary feedbacks. <i>Oikos</i> , 2014, 123, 257-266.	1.2	72
38	Occupation of bare habitats, an evolutionary precursor to soil specialization in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15132-15137.	3.3	68
39	Interplay between Ecological Communities and Evolution. <i>Annals of the New York Academy of Sciences</i> , 2008, 1133, 87-125.	1.8	66
40	Evolution in ecological field experiments: implications for effect size. <i>Ecology Letters</i> , 2008, 11, 199-207.	3.0	66
41	Introduced <i>Brassica nigra</i> populations exhibit greater growth and herbivore resistance but less tolerance than native populations in the native range. <i>New Phytologist</i> , 2011, 191, 536-544.	3.5	63
42	Nowhere to Run, Nowhere to Hide: The Importance of Enemies and Apparency in Adaptation to Harsh Soil Environments. <i>American Naturalist</i> , 2013, 182, E1-E14.	1.0	59
43	The role of plant genotype, environment and gender in resistance to a specialist chrysomelid herbivore. <i>Oecologia</i> , 1990, 84, 111-116.	0.9	58
44	Effects of Foliar Herbivory by Insects on the Fitness of <i>Raphanus raphanistrum</i> : Damage Can Increase Male Fitness. <i>American Naturalist</i> , 2001, 158, 496-504.	1.0	57
45	Variation in arbuscular mycorrhizal fungi colonization modifies the expression of tolerance to above-ground defoliation. <i>Journal of Ecology</i> , 2010, 98, 43-49.	1.9	56
46	Physiological tolerance, climate change, and a northward range shift in the spittlebug, <i>Philaenus spumarius</i> . <i>Ecological Entomology</i> , 2004, 29, 251-254.	1.1	55
47	Experimental assessment of <i>Heliconia acuminata</i> growth in a fragmented Amazonian landscape. <i>Journal of Ecology</i> , 2002, 90, 639-649.	1.9	54
48	Cryptic seedling herbivory by nocturnal introduced generalists impacts survival, performance of native and exotic plants. <i>Ecology</i> , 2009, 90, 419-429.	1.5	52
49	The ecological genomic basis of salinity adaptation in Tunisian <i>Medicago truncatula</i> . <i>BMC Genomics</i> , 2014, 15, 1160.	1.2	51
50	Towards an understanding of the mechanisms of tolerance: compensating for herbivore damage by enhancing a mutualism. <i>Ecological Entomology</i> , 2004, 29, 234-239.	1.1	49
51	Population-level compensation by an invasive thistle thwarts biological control from seed predators. <i>Ecological Applications</i> , 2009, 19, 709-721.	1.8	49
52	Genetic variation within a dominant shrub species determines plant species colonization in a coastal dune ecosystem. <i>Ecology</i> , 2010, 91, 1237-1243.	1.5	49
53	Newly rare or newly common: evolutionary feedbacks through changes in population density and relative species abundance, and their management implications. <i>Evolutionary Applications</i> , 2011, 4, 338-353.	1.5	47
54	Phenotypic and transgenerational plasticity promote local adaptation to sun and shade environments. <i>Evolutionary Ecology</i> , 2014, 28, 229-246.	0.5	47

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55	Multiple mechanisms enable invasive species to suppress native species. <i>American Journal of Botany</i> , 2011, 98, 1086-1094.	0.8	46
56	Exotic vertebrate and invertebrate herbivores differ in their impacts on native and exotic plants: a meta-analysis. <i>Biological Invasions</i> , 2010, 12, 407-419.	1.2	43
57	Apparency revisited. <i>Entomologia Experimentalis Et Applicata</i> , 2015, 157, 74-85.	0.7	42
58	Climate structures genetic variation across a species' elevation range: a test of range limits hypotheses. <i>Molecular Ecology</i> , 2016, 25, 911-928.	2.0	41
59	Macroevolutionary patterns of glucosinolate defense and tests of defense-escalation and resource availability hypotheses. <i>New Phytologist</i> , 2015, 208, 915-927.	3.5	40
60	Novel nuclear markers inform the systematics and the evolution of serpentine use in <i>Streptanthus</i> and allies (Thelypodieae, Brassicaceae). <i>Molecular Phylogenetics and Evolution</i> , 2014, 72, 71-81.	1.2	39
61	Lack of evidence for local adaptation to individual plant clones or site by a mobile specialist herbivore. <i>Oecologia</i> , 1997, 110, 77.	0.9	35
62	Soil microbial communities alter conspecific and congeneric competition consistent with patterns of field coexistence in three <i>Trifolium</i> congeners. <i>Journal of Ecology</i> , 2018, 106, 1876-1891.	1.9	35
63	Phylogenetic Patterns of Colonization and Extinction in Experimentally Assembled Plant Communities. <i>PLoS ONE</i> , 2011, 6, e19363.	1.1	30
64	Two centuries of monarch butterfly collections reveal contrasting effects of range expansion and migration loss on wing traits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28887-28893.	3.3	27
65	Parental environments and interactions with conspecifics alter salinity tolerance of offspring in the annual <i>Medicago truncatula</i> . <i>Journal of Ecology</i> , 2013, 101, 1281-1287.	1.9	24
66	Salinity Adaptation and the Contribution of Parental Environmental Effects in <i>Medicago truncatula</i> . <i>PLoS ONE</i> , 2016, 11, e0150350.	1.1	22
67	No evidence for root-mediated allelopathy in <i>Centaurea solstitialis</i> , a species in a commonly allelopathic genus. <i>Biological Invasions</i> , 2007, 9, 897-907.	1.2	19
68	Movement patterns of an Australian chrysomelid beetle in a stand of two <i>Eucalyptus</i> host species. <i>Oecologia</i> , 1988, 77, 231-237.	0.9	14
69	Herbivores mediate different competitive and facilitative responses of native and invader populations of <i>Brassica nigra</i> . <i>Ecology</i> , 2013, 94, 2288-2298.	1.5	13
70	Response to soil biota by native, introduced non-pest, and pest grass species: is responsiveness a mechanism for invasion?. <i>Biological Invasions</i> , 2013, 15, 1343-1353.	1.2	13
71	Colonization of new host plant individuals by locally adapted thrips. <i>Ecography</i> , 1994, 17, 82-87.	2.1	11
72	Forest Structure, Stand Composition, and Climate-Growth Response in Montane Forests of Jiuzhaigou National Nature Reserve, China. <i>PLoS ONE</i> , 2013, 8, e71559.	1.1	11

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73	Transgenerational soil-mediated differences between plants experienced or naïve to a grass invasion. <i>Ecology and Evolution</i> , 2013, 3, 3663-3671.	0.8	10
74	Correction for Burns and Strauss, More closely related species are more ecologically similar in an experimental test. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3599-3599.	3.3	9
75	Co-occurrence patterns at four spatial scales implicate reproductive processes in shaping community assembly in clovers. <i>Journal of Ecology</i> , 2021, 109, 4056-4070.	1.9	3