

Stefan A Schnitzer

List of Publications by Year in descending order

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119
papers

10,433
citations

50566

48
h-index

42259

96
g-index

154
all docs

154
docs citations

154
times ranked

7982
citing authors

#	ARTICLE	IF	CITATIONS
1	Negative plant-soil feedback predicts tree-species relative abundance in a tropical forest. <i>Nature</i> , 2010, 466, 752-755.	13.7	942
2	The ecology of lianas and their role in forests. <i>Trends in Ecology and Evolution</i> , 2002, 17, 223-230.	4.2	778
3	Soil microbes drive the classic plant diversity-productivity pattern. <i>Ecology</i> , 2011, 92, 296-303.	1.5	517
4	Increasing liana abundance and biomass in tropical forests: emerging patterns and putative mechanisms. <i>Ecology Letters</i> , 2011, 14, 397-406.	3.0	421
5	A Mechanistic Explanation for Global Patterns of Liana Abundance and Distribution. <i>American Naturalist</i> , 2005, 166, 262-276.	1.0	390
6	The impact of lianas on tree regeneration in tropical forest canopy gaps: evidence for an alternative pathway of gap-phase regeneration. <i>Journal of Ecology</i> , 2000, 88, 655-666.	1.9	372
7	TREEFALL GAPS AND THE MAINTENANCE OF SPECIES DIVERSITY IN A TROPICAL FOREST. <i>Ecology</i> , 2001, 82, 913-919.	1.5	368
8	Density and diversity of lianas along a chronosequence in a central Panamanian lowland forest. <i>Journal of Tropical Ecology</i> , 2000, 16, 1-19.	0.5	299
9	Lianas suppress tree regeneration and diversity in treefall gaps. <i>Ecology Letters</i> , 2010, 13, 849-857.	3.0	219
10	The impact of lianas on 10 years of tree growth and mortality on Barro Colorado Island, Panama. <i>Journal of Ecology</i> , 2010, 98, 879-887.	1.9	215
11	Disentangling above- and below-ground competition between lianas and trees in a tropical forest. <i>Journal of Ecology</i> , 2005, 93, 1115-1125.	1.9	212
12	A Standard Protocol for Liana Censuses ¹ . <i>Biotropica</i> , 2006, 38, 256-261.	0.8	207
13	Liana Abundance, Diversity, and Distribution on Barro Colorado Island, Panama. <i>PLoS ONE</i> , 2012, 7, e52114.	1.1	150
14	Lianas reduce carbon accumulation and storage in tropical forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13267-13271.	3.3	147
15	Science on the Rise in Developing Countries. <i>PLoS Biology</i> , 2004, 2, e1.	2.6	143
16	Censusing and Measuring Lianas: A Quantitative Comparison of the Common Methods ¹ . <i>Biotropica</i> , 2006, 38, 581-591.	0.8	142
17	Annual Rainfall and Seasonality Predict Pan-tropical Patterns of Liana Density and Basal Area. <i>Biotropica</i> , 2010, 42, 309-317.	0.8	134
18	Spatially disjunct effects of co-occurring competition and facilitation. <i>Ecology Letters</i> , 2005, 8, 1191-1200.	3.0	131

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19	Supplemental protocol for liana censuses. <i>Forest Ecology and Management</i> , 2008, 255, 1044-1049.	1.4	131
20	Living close to your neighbors: the importance of both competition and facilitation in plant communities. <i>Ecology</i> , 2014, 95, 2213-2223.	1.5	119
21	Seasonal differences in leaf-level physiology give lianas a competitive advantage over trees in a tropical seasonal forest. <i>Oecologia</i> , 2009, 161, 25-33.	0.9	117
22	Water-use advantage for lianas over trees in tropical seasonal forests. <i>New Phytologist</i> , 2015, 205, 128-136.	3.5	115
23	Differences in leaf traits, leaf internal structure, and spectral reflectance between two communities of lianas and trees: Implications for remote sensing in tropical environments. <i>Remote Sensing of Environment</i> , 2009, 113, 2076-2088.	4.6	110
24	Establishment limitation reduces species recruitment and species richness as soil resources rise. <i>Journal of Ecology</i> , 2004, 92, 339-347.	1.9	106
25	THE DISTRIBUTION OF LIANAS AND THEIR CHANGE IN ABUNDANCE IN TEMPERATE FORESTS OVER THE PAST 45 YEARS. <i>Ecology</i> , 2006, 87, 2973-2978.	1.5	105
26	Water uptake and transport in lianas and co-occurring trees of a seasonally dry tropical forest. <i>Trees - Structure and Function</i> , 2005, 19, 282-289.	0.9	98
27	Liana Impacts on Carbon Cycling, Storage and Sequestration in Tropical Forests. <i>Biotropica</i> , 2013, 45, 682-692.	0.8	98
28	Weak Competition Among Tropical Tree Seedlings: Implications for Species Coexistence. <i>Biotropica</i> , 2008, 40, 432-440.	0.8	96
29	A multitrophic perspective on biodiversityâ€™ecosystem functioning research. <i>Advances in Ecological Research</i> , 2019, 61, 1-54.	1.4	95
30	Novel forests maintain ecosystem processes after the decline of native tree species. <i>Ecological Monographs</i> , 2012, 82, 221-228.	2.4	94
31	Disturbance and clonal reproduction determine liana distribution and maintain liana diversity in a tropical forest. <i>Ecology</i> , 2014, 95, 2169-2178.	1.5	94
32	Pervasive and strong effects of plants on soil chemistry: a meta-analysis of individual plant â€™Zinkeâ€™ effects. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151001.	1.2	93
33	Phenotypic correlates of the lianescent growth form: a review. <i>Annals of Botany</i> , 2013, 112, 1667-1681.	1.4	91
34	Limited native plant regeneration in novel, exotic-dominated forests on Hawaiâ€™i. <i>Forest Ecology and Management</i> , 2008, 256, 593-606.	1.4	88
35	Testing ecological theory with lianas. <i>New Phytologist</i> , 2018, 220, 366-380.	3.5	87
36	Resource-based habitat associations in a neotropical liana community. <i>Journal of Ecology</i> , 2012, 100, 1174-1182.	1.9	83

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37	Recruitment of lianas into logging gaps and the effects of pre-harvest climber cutting in a lowland forest in Cameroon. <i>Forest Ecology and Management</i> , 2004, 190, 87-98.	1.4	81
38	Liana diversity, abundance, and mortality in a tropical wet forest in Costa Rica. <i>Forest Ecology and Management</i> , 2004, 190, 3-14.	1.4	76
39	Lianas in gaps reduce carbon accumulation in a tropical forest. <i>Ecology</i> , 2014, 95, 3008-3017.	1.5	72
40	Increasing Liana Abundance and Basal Area in a Tropical Forest: The Contribution of Long-distance Clonal Colonization. <i>Biotropica</i> , 2013, 45, 317-324.	0.8	70
41	Minimizing Bias in Biomass Allometry: Model Selection and Log-transformation of Data. <i>Biotropica</i> , 2011, 43, 649-653.	0.8	65
42	The hydraulic efficiency-safety trade-off differs between lianas and trees. <i>Ecology</i> , 2019, 100, e02666.	1.5	65
43	Is logarithmic transformation necessary in allometry? Ten, one-hundred, one-thousand-times yes. <i>Biological Journal of the Linnean Society</i> , 2014, 111, 230-233.	0.7	63
44	Lianas have a greater competitive effect than trees of similar biomass on tropical canopy trees. <i>Ecosphere</i> , 2012, 3, 1-11.	1.0	61
45	Daily environmental conditions determine the competition-facilitation balance for plant water status. <i>Journal of Ecology</i> , 2015, 103, 648-656.	1.9	59
46	Trees as islands: canopy ant species richness increases with the size of liana-free trees in a Neotropical forest. <i>Ecography</i> , 2017, 40, 1067-1075.	2.1	56
47	Lianas suppress seedling growth and survival of 14 tree species in a Panamanian tropical forest. <i>Ecology</i> , 2016, 97, 215-224.	1.5	55
48	Tree species vary widely in their tolerance for liana infestation: A case study of differential host response to generalist parasites. <i>Journal of Ecology</i> , 2018, 106, 781-794.	1.9	53
49	Allometric scaling laws linking biomass and rooting depth vary across ontogeny and functional groups in tropical dry forest lianas and trees. <i>New Phytologist</i> , 2020, 226, 714-726.	3.5	53
50	Have we forgotten the forest because of the trees?. <i>Trends in Ecology and Evolution</i> , 2000, 15, 375-376.	4.2	51
51	Lianas reduce community-level canopy tree reproduction in a Panamanian forest. <i>Journal of Ecology</i> , 2018, 106, 737-745.	1.9	50
52	Predicting Liana Crown Location from Stem Diameter in Three Panamanian Lowland Forests1. <i>Biotropica</i> , 2006, 38, 262-266.	0.8	48
53	Are lianas more drought-tolerant than trees? A test for the role of hydraulic architecture and other stem and leaf traits. <i>Oecologia</i> , 2013, 172, 961-972.	0.9	48
54	Complex facilitation and competition in a temperate grassland: loss of plant diversity and elevated CO2 have divergent and opposite effects on oak establishment. <i>Oecologia</i> , 2013, 171, 449-458.	0.9	47

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55	A comprehensive synthesis of liana removal experiments in tropical forests. <i>Biotropica</i> , 2018, 50, 729-739.	0.8	46
56	Contribution of lianas to plant area index and canopy structure in a Panamanian forest. <i>Ecology</i> , 2016, 97, 3271-3277.	1.5	45
57	Liana competition with tropical trees varies seasonally but not with tree species identity. <i>Ecology</i> , 2015, 96, 39-45.	1.5	43
58	Lianas have a seasonal growth advantage over co-occurring trees. <i>Ecology</i> , 2019, 100, e02655.	1.5	43
59	Rapid Liana Colonization along a Secondary Forest Chronosequence. <i>Biotropica</i> , 2015, 47, 672-680.	0.8	42
60	Tropical dry forest succession and the contribution of lianas to wood area index (WAI). <i>Forest Ecology and Management</i> , 2009, 258, 941-948.	1.4	38
61	Trade-offs between water transport capacity and drought resistance in neotropical canopy liana and tree species. <i>Tree Physiology</i> , 2017, 37, 1404-1414.	1.4	38
62	Unique competitive effects of lianas and trees in a tropical forest understory. <i>Oecologia</i> , 2015, 177, 561-569.	0.9	37
63	Community and ecosystem ramifications of increasing lianas in neotropical forests. <i>Plant Signaling and Behavior</i> , 2011, 6, 598-600.	1.2	36
64	<i>Rhamnus cathartica</i> L. (Common Buckthorn) as an Ecosystem Dominant in Southern Wisconsin Forests. <i>Northeastern Naturalist</i> , 2007, 14, 387-402.	0.1	33
65	The Ranging Costs of a Fallback Food: Liana Consumption Supplements Diet but Increases Foraging Effort in Howler Monkeys. <i>Biotropica</i> , 2012, 44, 705-714.	0.8	33
66	Modeling the impact of liana infestation on the demography and carbon cycle of tropical forests. <i>Global Change Biology</i> , 2019, 25, 3767-3780.	4.2	33
67	Liana canopy cover mapped throughout a tropical forest with high-fidelity imaging spectroscopy. <i>Remote Sensing of Environment</i> , 2016, 176, 98-106.	4.6	32
68	Physiological regulation and efficient xylem water transport regulate diurnal water and carbon balances of tropical lianas. <i>Functional Ecology</i> , 2017, 31, 306-317.	1.7	32
69	Effects of lianas and Hurricane Wilma on tree damage in the Yucatan Peninsula, Mexico. <i>Journal of Tropical Ecology</i> , 2008, 24, 559-562.	0.5	29
70	Lianas and soil nutrients predict fine-scale distribution of above-ground biomass in a tropical moist forest. <i>Journal of Ecology</i> , 2016, 104, 1819-1828.	1.9	28
71	Edaphic factors and initial conditions influence successional trajectories of early regenerating tropical dry forests. <i>Journal of Ecology</i> , 2020, 108, 160-174.	1.9	28
72	Connectivity explains local ant community structure in a Neotropical forest canopy: a large-scale experimental approach. <i>Ecology</i> , 2019, 100, e02673.	1.5	25

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73	Local canopy disturbance as an explanation for long-term increases in liana abundance. <i>Ecology Letters</i> , 2021, 24, 2635-2647.	3.0	25
74	CO ₂ , nitrogen, and diversity differentially affect seed production of prairie plants. <i>Ecology</i> , 2009, 90, 1810-1820.	1.5	24
75	Unraveling the relative role of light and water competition between lianas and trees in tropical forests: A vegetation model analysis. <i>Journal of Ecology</i> , 2021, 109, 519-540.	1.9	24
76	No evidence that elevated CO ₂ gives tropical lianas an advantage over tropical trees. <i>Global Change Biology</i> , 2015, 21, 2055-2069.	4.2	23
77	A host-parasite model explains variation in liana infestation among co-occurring tree species. <i>Journal of Ecology</i> , 2018, 106, 2435-2445.	1.9	23
78	Functional Roles of Lianas for Forest Canopy Animals. , 2013, , 209-214.		22
79	Effects of dry-season irrigation on leaf physiology and biomass allocation in tropical lianas and trees. <i>Ecology</i> , 2019, 100, e02827.	1.5	22
80	Semi-automatic extraction of liana stems from terrestrial LiDAR point clouds of tropical rainforests. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 154, 114-126.	4.9	22
81	Lianas have more acquisitive traits than trees in a dry but not in a wet forest. <i>Journal of Ecology</i> , 2021, 109, 2367-2384.	1.9	22
82	Would Ecology Fail the Repeatability Test?. <i>BioScience</i> , 2016, 66, 98-99.	2.2	21
83	Functional traits of tropical trees and lianas explain spatial structure across multiple scales. <i>Journal of Ecology</i> , 2018, 106, 795-806.	1.9	21
84	Liana abundance and diversity increase with rainfall seasonality along a precipitation gradient in Panama. <i>Ecography</i> , 2020, 43, 25-33.	2.1	21
85	Herbivore and pathogen damage on grassland and woodland plants: a test of the herbivore uncertainty principle. <i>Ecology Letters</i> , 2002, 5, 531-539.	3.0	20
86	Short and Long-Term Soil Moisture Effects of Liana Removal in a Seasonally Moist Tropical Forest. <i>PLoS ONE</i> , 2015, 10, e0141891.	1.1	20
87	Blurred lines between competition and parasitism. <i>Biotropica</i> , 2017, 49, 433-438.	0.8	20
88	Effects of lightning on trees: A predictive model based on in situ electrical resistivity. <i>Ecology and Evolution</i> , 2017, 7, 8523-8534.	0.8	18
89	Effect of lianas on forest-level tree carbon accumulation does not differ between seasons: Results from a liana removal experiment in Panama. <i>Journal of Ecology</i> , 2019, 107, 1890-1900.	1.9	17
90	Soil microbes regulate ecosystem productivity and maintain species diversity. <i>Plant Signaling and Behavior</i> , 2011, 6, 1240-1243.	1.2	15

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91	Reply to Verbeeck and Kearsley: Addressing the challenges of including lianas in global vegetation models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5-6.	3.3	15
92	Can Functional Traits Explain Plant Coexistence? A Case Study with Tropical Lianas and Trees. <i>Diversity</i> , 2020, 12, 397.	0.7	15
93	Lianas reduce biomass accumulation in early successional tropical forests. <i>Ecology</i> , 2020, 101, e02989.	1.5	15
94	Lianas explore the forest canopy more effectively than trees under drier conditions. <i>Functional Ecology</i> , 2021, 35, 318-329.	1.7	15
95	Does soil moisture availability explain liana seedling distribution across a tropical rainfall gradient?. <i>Biotropica</i> , 2018, 50, 215-224.	0.8	14
96	The Tree Biodiversity Network (BIOTREE-NET): prospects for biodiversity research and conservation in the Neotropics. <i>Biodiversity and Ecology = Biodiversitat Und Okologie</i> , 2012, 4, 211-224.	0.2	14
97	Dominance by the introduced tree <i>Rhamnus cathartica</i> (common buckthorn) may limit aboveground carbon storage in Southern Wisconsin forests. <i>Forest Ecology and Management</i> , 2011, 261, 545-550.	1.4	13
98	TREEFALL GAPS AND THE MAINTENANCE OF SPECIES DIVERSITY IN A TROPICAL FOREST. , 2001, 82, 913.		13
99	Terrestrial Laser Scanning to Detect Liana Impact on Forest Structure. <i>Remote Sensing</i> , 2018, 10, 810.	1.8	12
100	The response of lianas to 20Åyr of nutrient addition in a Panamanian forest. <i>Ecology</i> , 2020, 101, e03190.	1.5	12
101	A graphical null model for scaling biodiversityâ€ecosystem functioning relationships. <i>Journal of Ecology</i> , 2021, 109, 1549-1560.	1.9	12
102	Lianas maintain insectivorous bird abundance and diversity in a neotropical forest. <i>Ecology</i> , 2020, 101, e03176.	1.5	11
103	Lianas Significantly Reduce Tree Performance and Biomass Accumulation Across Tropical Forests: A Global Meta-Analysis. <i>Frontiers in Forests and Global Change</i> , 2022, 4, .	1.0	11
104	The negative effect of lianas on tree growth varies with tree species and season. <i>Biotropica</i> , 2020, 52, 836-844.	0.8	10
105	Liana optical traits increase tropical forest albedo and reduce ecosystem productivity. <i>Global Change Biology</i> , 2022, 28, 227-244.	4.2	10
106	The Contribution of Lianas to Forest Ecology, Diversity, and Dynamics. <i>Sustainable Development and Biodiversity</i> , 2015, , 149-160.	1.4	8
107	BIOMASS AND TOXICITY RESPONSES OF POISON IVY (TOXICODENDRON RADICANS) TO ELEVATED ATMOSPHERIC CO2: COMMENT. <i>Ecology</i> , 2008, 89, 581-585.	1.5	7
108	Lianas do not reduce tree biomass accumulation in young successional tropical dry forests. <i>Oecologia</i> , 2021, 195, 1019-1029.	0.9	6

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109	Review of the Symposium Determinism and Stochasticity in Ecological Succession in <sc>ESA</sc> Louisville, 2019. Bulletin of the Ecological Society of America, 2020, 101, e01687.	0.2	5
110	Making (remote) sense of lianas. Journal of Ecology, 2022, 110, 498-513.	1.9	5
111	Vegetative phenologies of lianas and trees in two Neotropical forests with contrasting rainfall regimes. New Phytologist, 2022, 235, 457-471.	3.5	5
112	Do lianas shape ant communities in an early successional tropical forest?. Biotropica, 2019, 51, 885-893.	0.8	4
113	Lianas Significantly Reduce Aboveground and Belowground Carbon Storage: A Virtual Removal Experiment. Frontiers in Forests and Global Change, 2021, 4, .	1.0	4
114	Are we missing the forest for the trees? Conspecific negative density dependence in a temperate deciduous forest. PLoS ONE, 2021, 16, e0245639.	1.1	3
115	Lianas decelerate tropical forest thinning during succession. Ecology Letters, 2022, 25, 1432-1441.	3.0	3
116	First record of Alston's Woolly Mouse Opossum (<i>Micoureus alstoni</i>) from the canal area of Central Panama. Mammalia, 2011, 75, 107-109.	0.3	2
117	Tropical environments. , 1999, , 605-610.		1
118	Connectivity Explains Local Ant Community Structure in a Neotropical Forest Canopy: A Large-Scale Experimental Approach. Bulletin of the Ecological Society of America, 2019, 100, e01548.	0.2	0
119	Lianas Reduce Biomass Accumulation in Early-Successional Tropical Forests. Bulletin of the Ecological Society of America, 2020, 101, e01673.	0.2	0