

Ann Carla Staver

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

4,407
citations

196777

29
h-index

156644

58
g-index

67
all docs

67
docs citations

67
times ranked

5785
citing authors

#	ARTICLE	IF	CITATIONS
1	Seasonal strategies differ between tropical and extratropical herbivores. <i>Journal of Animal Ecology</i> , 2022, 91, 681-692.	1.3	10
2	Pathways of savannization in a mesic African savanna—forest mosaic following an extreme fire. <i>Journal of Ecology</i> , 2022, 110, 902-915.	1.9	15
3	Lessons from a century of evidence-based fire management in grassy ecosystems. <i>African Journal of Range and Forage Science</i> , 2022, 39, v-vii.	0.6	0
4	Limited increases in savanna carbon stocks over decades of fire suppression. <i>Nature</i> , 2022, 603, 445-449.	13.7	36
5	Reduced global fire activity due to human demography slows global warming by enhanced land carbon uptake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2101186119.	3.3	12
6	The environmental drivers of tree cover and forest—savanna mosaics in Southeast Asia. <i>Ecography</i> , 2022, 2022, .	2.1	9
7	Quantifying the environmental limits to fire spread in grassy ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	7
8	The role of browsers in maintaining the openness of savanna grazing lawns. <i>Journal of Ecology</i> , 2021, 109, 913-926.	1.9	20
9	Decadal changes in fire frequencies shift tree communities and functional traits. <i>Nature Ecology and Evolution</i> , 2021, 5, 504-512.	3.4	41
10	Disease and fire interact to influence transitions between savanna—forest ecosystems over a multi-decadal experiment. <i>Ecology Letters</i> , 2021, 24, 1007-1017.	3.0	11
11	Historical and future global burned area with changing climate and human demography. <i>One Earth</i> , 2021, 4, 517-530.	3.6	43
12	Heterogeneity in African savanna elephant distributions and their impacts on trees in Kruger National Park, South Africa. <i>Ecology and Evolution</i> , 2021, 11, 5624-5634.	0.8	11
13	Unifying deterministic and stochastic ecological dynamics via a landscape-flux approach. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	10
14	The past, present, and future of herbivore impacts on savanna vegetation. <i>Journal of Ecology</i> , 2021, 109, 2804-2822.	1.9	36
15	Woody encroachment happens via intensification, not extensification, of species ranges in an African savanna. <i>Ecological Applications</i> , 2021, 31, e02437.	1.8	9
16	Global response of fire activity to late Quaternary grazer extinctions. <i>Science</i> , 2021, 374, 1145-1148.	6.0	32
17	Thinner bark increases sensitivity of wetter Amazonian tropical forests to fire. <i>Ecology Letters</i> , 2020, 23, 99-106.	3.0	40
18	Forecasting semi-arid biome shifts in the Anthropocene. <i>New Phytologist</i> , 2020, 226, 351-361.	3.5	5

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19	Seasonal dietary changes increase the abundances of savanna herbivore species. <i>Science Advances</i> , 2020, 6, .	4.7	16
20	Rootâ€niche separation between savanna trees and grasses is greater on sandier soils. <i>Journal of Ecology</i> , 2020, 108, 2298-2308.	1.9	31
21	Dispersal limitation and fire feedbacks maintain mesic savannas in Madagascar. <i>Ecology</i> , 2020, 101, e03177.	1.5	10
22	Probabilistic Foundations of Spatial Mean-Field Models in Ecology and Applications. <i>SIAM Journal on Applied Dynamical Systems</i> , 2020, 19, 2682-2719.	0.7	10
23	Could drought constrain woody encroachers in savannas?. <i>African Journal of Range and Forage Science</i> , 2020, 37, 19-29.	0.6	18
24	Dispersal Increases the Resilience of Tropical Savanna and Forest Distributions. <i>American Naturalist</i> , 2020, 195, 833-850.	1.0	13
25	Rooting depth as a key woody functional trait in savannas. <i>New Phytologist</i> , 2020, 227, 1350-1361.	3.5	47
26	Enhanced activity of soil nutrientâ€releasing enzymes after plant invasion: a metaâ€analysis. <i>Ecology</i> , 2019, 100, e02830.	1.5	89
27	Severe drought limits trees in a semiâ€rid savanna. <i>Ecology</i> , 2019, 100, e02842.	1.5	37
28	Comment on â€œThe global tree restoration potentialâ€ Science, 2019, 366, .	6.0	185
29	Determinants of tree cover in tropical floodplains. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191755.	1.2	10
30	Palaeo-trajectories of forest savannization in the southern Congo. <i>Biology Letters</i> , 2019, 15, 20190284.	1.0	11
31	Droughtâ€response strategies of savanna herbivores. <i>Ecology and Evolution</i> , 2019, 9, 7047-7056.	0.8	57
32	Root trait variation in African savannas. <i>Plant and Soil</i> , 2019, 441, 555-565.	1.8	15
33	Spatial patterning among savanna trees in high-resolution, spatially extensive data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10681-10685.	3.3	30
34	Spatial feedbacks and the dynamics of savanna and forest. <i>Theoretical Ecology</i> , 2019, 12, 237-262.	0.4	20
35	Tree clusters in savannas result from islands of soil moisture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6679-6683.	3.3	15
36	A 2000-year sediment record reveals rapidly changing sedimentation and land use since the 1960s in the Upper Mara-Serengeti Ecosystem. <i>Science of the Total Environment</i> , 2019, 664, 148-160.	3.9	19

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37	Crazer movements exacerbate grass declines during drought in an African savanna. <i>Journal of Ecology</i> , 2019, 107, 1482-1491.	1.9	37
38	Spatial patterns in the global distributions of savanna and forest. <i>Global Ecology and Biogeography</i> , 2018, 27, 792-803.	2.7	33
39	On the complex dynamics of savanna landscapes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1336-E1345.	3.3	54
40	Prediction and scale in savanna ecosystems. <i>New Phytologist</i> , 2018, 219, 52-57.	3.5	49
41	Fire frequency drives decadal changes in soil carbon and nitrogen and ecosystem productivity. <i>Nature</i> , 2018, 553, 194-198.	13.7	325
42	Forest extent and deforestation in tropical Africa since 1900. <i>Nature Ecology and Evolution</i> , 2018, 2, 26-33.	3.4	97
43	Fire spread and the issue of community-level selection in the evolution of flammability. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180444.	1.5	9
44	Soil texture mediates tree responses to rainfall intensity in African savannas. <i>New Phytologist</i> , 2018, 219, 1363-1372.	3.5	42
45	Demographic Bottlenecks and Savanna Tree Abundance. , 2017, , 161-188.		5
46	Interactions between Fire and Ecosystem Processes. , 2017, , 233-262.		14
47	Soils and fire jointly determine vegetation structure in an African savanna. <i>New Phytologist</i> , 2017, 216, 1151-1160.	3.5	62
48	Fire prevents woody encroachment only at higher than historical frequencies in a South African savanna. <i>Journal of Applied Ecology</i> , 2017, 54, 955-962.	1.9	68
49	Aridity, not fire, favors nitrogen-fixing plants across tropical savanna and forest biomes. <i>Ecology</i> , 2016, 97, 2177-2183.	1.5	55
50	Analysis of stable states in global savannas: is the <scp>CART</scp> pulling the horse? â€“ a comment. <i>Global Ecology and Biogeography</i> , 2015, 24, 985-987.	2.7	51
51	Fire alters ecosystem carbon and nutrients but not plant nutrient stoichiometry or composition in tropical savanna. <i>Ecology</i> , 2015, 96, 1275-1285.	1.5	83
52	Is there a â€“browse trapâ€™? Dynamics of herbivore impacts on trees and grasses in an African savanna. <i>Journal of Ecology</i> , 2014, 102, 595-602.	1.9	139
53	Evolution of human-driven fire regimes in Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 847-852.	3.3	293
54	Integrating Theoretical Climate and Fire Effects on Savanna and Forest Systems. <i>American Naturalist</i> , 2012, 180, 211-224.	1.0	126

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55	Top-down determinants of niche structure and adaptation among African Acacias. Ecology Letters, 2012, 15, 673-679.	3.0	80
56	The Global Extent and Determinants of Savanna and Forest as Alternative Biome States. Science, 2011, 334, 230-232.	6.0	1,039
57	Tree cover in sub-Saharan Africa: Rainfall and fire constrain forest and savanna as alternative stable states. Ecology, 2011, 92, 1063-1072.	1.5	342
58	History matters: tree establishment variability and species turnover in an African savanna. Ecosphere, 2011, 2, art49.	1.0	25
59	Simply the best: the transition of savanna saplings to trees. Oikos, 2011, 120, 1448-1451.	1.2	79
60	Tree cover in sub-Saharan Africa: Rainfall and fire constrain forest and savanna as alternative stable states. Ecology, 2011, 92, 1063-1072.	1.5	60
61	Browsing and fire interact to suppress tree density in an African savanna. Ecological Applications, 2009, 19, 1909-1919.	1.8	234
62	Long-Term Vegetation Dynamics within the Hluhluwe iMfolozi Park. , 0, , 56-79.		3