

Mahesh Sankaran

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3190846/publications.pdf>

Version: 2024-02-01

66
papers

6,801
citations

159585

30
h-index

110387

64
g-index

95
all docs

95
docs citations

95
times ranked

7543
citing authors

#	ARTICLE	IF	CITATIONS
1	Determinants of woody cover in African savannas. <i>Nature</i> , 2005, 438, 846-849.	27.8	1,543
2	Tree-grass coexistence in savannas revisited - insights from an examination of assumptions and mechanisms invoked in existing models. <i>Ecology Letters</i> , 2004, 7, 480-490.	6.4	543
3	Savanna Vegetation-Fire-Climate Relationships Differ Among Continents. <i>Science</i> , 2014, 343, 548-552.	12.6	500
4	Woody cover in African savannas: the role of resources, fire and herbivory. <i>Global Ecology and Biogeography</i> , 2008, 17, 236-245.	5.8	444
5	Eutrophication weakens stabilizing effects of diversity in natural grasslands. <i>Nature</i> , 2014, 508, 521-525.	27.8	409
6	Species Loss and Aboveground Carbon Storage in a Tropical Forest. <i>Science</i> , 2005, 310, 1029-1031.	12.6	390
7	Combating global grassland degradation. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 720-735.	29.7	377
8	When is a "forest" a savanna, and why does it matter?. <i>Global Ecology and Biogeography</i> , 2011, 20, 653-660.	5.8	348
9	Comment on "The global tree restoration potential". <i>Science</i> , 2019, 366, .	12.6	185
10	Local loss and spatial homogenization of plant diversity reduce ecosystem multifunctionality. <i>Nature Ecology and Evolution</i> , 2018, 2, 50-56.	7.8	172
11	Change in dominance determines herbivore effects on plant biodiversity. <i>Nature Ecology and Evolution</i> , 2018, 2, 1925-1932.	7.8	140
12	Savannahs of Asia: antiquity, biogeography, and an uncertain future. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150305.	4.0	126
13	Native ungulates of diverse body sizes collectively regulate long-term woody plant demography and structure of a semi-arid savanna. <i>Journal of Ecology</i> , 2013, 101, 1389-1399.	4.0	115
14	Non-stationary and non-linear influence of ENSO and Indian Ocean Dipole on the variability of Indian monsoon rainfall and extreme rain events. <i>Climate Dynamics</i> , 2015, 45, 175-184.	3.8	114
15	Contrasting effects of defaunation on aboveground carbon storage across the global tropics. <i>Nature Communications</i> , 2016, 7, 11351.	12.8	80
16	Nutrient resorption patterns of plant functional groups in a tropical savanna: variation and functional significance. <i>Oecologia</i> , 2008, 157, 141-151.	2.0	75
17	General destabilizing effects of eutrophication on grassland productivity at multiple spatial scales. <i>Nature Communications</i> , 2020, 11, 5375.	12.8	75
18	Predicting invasion in grassland ecosystems: is exotic dominance the real embarrassment of richness?. <i>Global Change Biology</i> , 2013, 19, 3677-3687.	9.5	70

#	ARTICLE	IF	CITATIONS
19	Droughts and the ecological future of tropical savanna vegetation. <i>Journal of Ecology</i> , 2019, 107, 1531-1549.	4.0	65
20	Comment on "The extent of forest in dryland biomes". <i>Science</i> , 2017, 358, .	12.6	57
21	Soil net nitrogen mineralisation across global grasslands. <i>Nature Communications</i> , 2019, 10, 4981.	12.8	57
22	Conservation lessons from large mammal manipulations in East African savannas: the KLEE, UHURU, and GLADE experiments. <i>Annals of the New York Academy of Sciences</i> , 2018, 1429, 31-49.	3.8	53
23	"Foresting" the grassland: Historical management legacies in forest-grassland mosaics in southern India, and lessons for the conservation of tropical grassy biomes. <i>Biological Conservation</i> , 2018, 224, 144-152.	4.1	52
24	Grasses continue to trump trees at soil carbon sequestration following herbivore exclusion in a semiarid African savanna. <i>Ecology</i> , 2020, 101, e03008.	3.2	43
25	Herbivory and eutrophication mediate grassland plant nutrient responses across a global climatic gradient. <i>Ecology</i> , 2018, 99, 822-831.	3.2	42
26	Bats in the Ghats: Agricultural intensification reduces functional diversity and increases trait filtering in a biodiversity hotspot in India. <i>Biological Conservation</i> , 2017, 210, 48-55.	4.1	41
27	Frost maintains forests and grasslands as alternate states in a montane tropical forest-grassland mosaic; but alien tree invasion and warming can disrupt this balance. <i>Journal of Ecology</i> , 2020, 108, 122-132.	4.0	38
28	How to halt the global decline of lands. <i>Nature Sustainability</i> , 2020, 3, 164-166.	23.7	38
29	Effects of biodiversity on the functioning of ecosystems: a summary of 164 experimental manipulations of species richness. <i>Ecology</i> , 2009, 90, 854-854.	3.2	36
30	Nutrients cause grassland biomass to outpace herbivory. <i>Nature Communications</i> , 2020, 11, 6036.	12.8	35
31	Diversity patterns in savanna grassland communities: implications for conservation strategies in a biodiversity hotspot. <i>Biodiversity and Conservation</i> , 2009, 18, 1099-1115.	2.6	32
32	Altered stand structure and tree allometry reduce carbon storage in evergreen forest fragments in India's Western Ghats. <i>Forest Ecology and Management</i> , 2014, 329, 375-383.	3.2	31
33	Nutrient enrichment increases invertebrate herbivory and pathogen damage in grasslands. <i>Journal of Ecology</i> , 2022, 110, 327-339.	4.0	25
34	Seed size predicts community composition and carbon storage potential of tree communities in rain forest fragments in India's Western Ghats. <i>Journal of Applied Ecology</i> , 2016, 53, 837-845.	4.0	24
35	A thorny issue: Woody plant defence and growth in an East African savanna. <i>Journal of Ecology</i> , 2019, 107, 1839-1851.	4.0	23
36	Functional Traits of Trees From Dry Deciduous "Forests" of Southern India Suggest Seasonal Drought and Fire Are Important Drivers. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.2	23

#	ARTICLE	IF	CITATIONS
37	African and Asian Savannas. , 2013, , 58-74.		22
38	Tree diversity and carbon storage cobenefits in tropical human-dominated landscapes. Conservation Letters, 2020, 13, e12699.	5.7	21
39	Spatial vegetation patterns and neighborhood competition among woody plants in an East African savanna. Ecology, 2017, 98, 478-488.	3.2	20
40	Multi-proxy evidence for an arid shift in the climate and vegetation of the Banni grasslands of western India during the mid- to late-Holocene. Holocene, 2018, 28, 1057-1070.	1.7	18
41	Heard but not seen: Comparing bat assemblages and study methods in a mosaic landscape in the Western Ghats of India. Ecology and Evolution, 2018, 8, 3883-3894.	1.9	16
42	Effects of increased N and P availability on biomass allocation and root carbohydrate reserves differ between N-fixing and non-N-fixing savanna tree seedlings. Ecology and Evolution, 2018, 8, 8467-8476.	1.9	16
43	Grazing and climate change have site-dependent interactive effects on vegetation in Asian montane rangelands. Journal of Applied Ecology, 2021, 58, 539-549.	4.0	15
44	Monsoon forced evolution of savanna and the spread of agro-pastoralism in peninsular India. Scientific Reports, 2021, 11, 9032.	3.3	15
45	Effects of nutrient addition and soil drainage on germination of N-fixing and non-N-fixing tropical dry forest tree species. Plant Ecology, 2016, 217, 1043-1054.	1.6	12
46	A dominant dwarf shrub increases diversity of herbaceous plant communities in a Trans-Himalayan rangeland. Plant Ecology, 2017, 218, 843-854.	1.6	12
47	Ants, fire, and bark traits affect how African savanna trees recover following damage. Biotropica, 2019, 51, 682-691.	1.6	11
48	Large herbivores maintain a two-phase herbaceous vegetation mosaic in a semi-arid savanna. Ecology and Evolution, 2019, 9, 12779-12788.	1.9	11
49	Large herbivores suppress liana infestation in an African savanna. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
50	Strong but opposing effects of associational resistance and susceptibility on defense phenotype in an African savanna plant. Oikos, 2019, 128, 1772-1782.	2.7	9
51	Responses of aerial insectivorous bats to local and landscape-level features of coffee agroforestry systems in Western Ghats, India. PLoS ONE, 2018, 13, e0201648.	2.5	8
52	Seasonal drought regulates species distributions and assembly of tree communities across a tropical wet forest region. Global Ecology and Biogeography, 2021, 30, 1847-1862.	5.8	8
53	Modelling Biome Shifts in the Indian Subcontinent under Scenarios of Future Climate Change. Current Science, 2016, 111, 147.	0.8	8
54	Opposing community assembly patterns for dominant and nondominant plant species in herbaceous ecosystems globally. Ecology and Evolution, 2021, 11, 17744-17761.	1.9	8

#	ARTICLE	IF	CITATIONS
55	Dry-forest tree species with large seeds and low stem specific density show greater survival under drought. <i>Journal of Tropical Ecology</i> , 2019, 35, 26-33.	1.1	6
56	The Ecology of Large Herbivores of South and Southeast Asia: Synthesis and Future Directions. <i>Ecological Studies</i> , 2016, , 237-249.	1.2	5
57	Invasive nitrogen-fixing plants increase nitrogen availability and cycling rates in a montane tropical grassland. <i>Plant Ecology</i> , 0, , 1.	1.6	5
58	Nitrogen fixation ability explains leaf chemistry and arbuscular mycorrhizal responses to fertilization. <i>Plant Ecology</i> , 2018, 219, 391-401.	1.6	4
59	Fire differentially affects mortality and seedling regeneration of three woody invaders in forest-grassland mosaics of the southern Western Ghats, India. <i>Biological Invasions</i> , 2020, 22, 1623-1634.	2.4	4
60	Grasslands half-full: investigating drivers of spatial heterogeneity in ungulate occurrence in Indian Terai. <i>Journal of Zoology</i> , 2022, 316, 139-153.	1.7	4
61	Grazing and Fire Effects on Community and Ecosystem Processes in a Tall-Grass Mesic Savanna Ecosystem in Southern India. <i>Ecological Studies</i> , 2016, , 187-205.	1.2	3
62	Range extension of the endangered Salim Ali's Fruit Bat <i>Latidens salimalii</i> (Chiroptera: Pteropodidae) in the Anamalai Hills, Tamil Nadu, India. <i>Journal of Threatened Taxa</i> , 2016, 8, 9486.	0.3	3
63	Restoring tropical forest-grassland mosaics invaded by woody exotics. <i>Restoration Ecology</i> , 2021, 29, e13491.	2.9	2
64	Contrasting Effects of Grazing vs Browsing Herbivores Determine Changes in Soil Fertility in an East African Savanna. <i>Ecosystems</i> , 2023, 26, 161-173.	3.4	2
65	Functional traits predict tree-level phenological strategies in a mesic Indian savanna. <i>Biotropica</i> , 2021, 53, 1432-1441.	1.6	1
66	Nutrient deposition enhances post-fire survival in non-N-fixing savanna tree seedlings. <i>Journal of Vegetation Science</i> , 2021, 32, e13020.	2.2	0