

Sally Archibald

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

9,496
citations

57758

44
h-index

54911

84
g-index

113
all docs

113
docs citations

113
times ranked

8714
citing authors

#	ARTICLE	IF	CITATIONS
1	The Global Extent and Determinants of Savanna and Forest as Alternative Biome States. <i>Science</i> , 2011, 334, 230-232.	12.6	1,039
2	What limits fire? An examination of drivers of burnt area in Southern Africa. <i>Global Change Biology</i> , 2009, 15, 613-630.	9.5	590
3	Defining pyromes and global syndromes of fire regimes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6442-6447.	7.1	519
4	Savanna Vegetation-Fire-Climate Relationships Differ Among Continents. <i>Science</i> , 2014, 343, 548-552.	12.6	500
5	Deciphering the distribution of the savanna biome. <i>New Phytologist</i> , 2011, 191, 197-209.	7.3	410
6	SHAPING THE LANDSCAPE: FIRE-GRAZER INTERACTIONS IN AN AFRICAN SAVANNA. , 2005, 15, 96-109.		353
7	When is a "forest" a savanna, and why does it matter?. <i>Global Ecology and Biogeography</i> , 2011, 20, 653-660.	5.8	348
8	Tree cover in sub-Saharan Africa: Rainfall and fire constrain forest and savanna as alternative stable states. <i>Ecology</i> , 2011, 92, 1063-1072.	3.2	342
9	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.	7.1	293
10	The status and challenge of global fire modelling. <i>Biogeosciences</i> , 2016, 13, 3359-3375.	3.3	274
11	Fire and biodiversity in the Anthropocene. <i>Science</i> , 2020, 370, .	12.6	240
12	Growing tall vs growing wide: tree architecture and allometry of <i>Acacia karroo</i> in forest, savanna, and arid environments. <i>Oikos</i> , 2003, 102, 3-14.	2.7	206
13	Biological and geophysical feedbacks with fire in the Earth system. <i>Environmental Research Letters</i> , 2018, 13, 033003.	5.2	198
14	A continent-wide assessment of the form and intensity of large mammal herbivory in Africa. <i>Science</i> , 2015, 350, 1056-1061.	12.6	194
15	Southern African fire regimes as revealed by remote sensing. <i>International Journal of Wildland Fire</i> , 2010, 19, 861.	2.4	188
16	Comment on "The global tree restoration potential". <i>Science</i> , 2019, 366, .	12.6	185
17	Global grass (<sc>P</sc>oaceae) success underpinned by traits facilitating colonization, persistence and habitat transformation. <i>Biological Reviews</i> , 2018, 93, 1125-1144.	10.4	178
18	Leaf green-up in a semi-arid African savanna - separating tree and grass responses to environmental cues. <i>Journal of Vegetation Science</i> , 2007, 18, 583-594.	2.2	168

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19	Woody encroachment over 70 years in South African savannahs: overgrazing, global change or extinction aftershock?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150437.	4.0	150
20	Ecology of grazing lawns in Africa. <i>Biological Reviews</i> , 2015, 90, 979-994.	10.4	149
21	Managing the human component of fire regimes: lessons from Africa. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150346.	4.0	130
22	Leaf green-up in a semi-arid African savanna â€“ separating tree and grass responses to environmental cues. <i>Journal of Vegetation Science</i> , 2007, 18, 583.	2.2	128
23	Evaluation of MODIS gross primary productivity for Africa using eddy covariance data. <i>Remote Sensing of Environment</i> , 2013, 131, 275-286.	11.0	125
24	Biomass burning fuel consumption rates: a field measurement database. <i>Biogeosciences</i> , 2014, 11, 7305-7329.	3.3	119
25	Climate and the inter-annual variability of fire in southern Africa: a meta-analysis using long-term field data and satellite-derived burnt area data. <i>Global Ecology and Biogeography</i> , 2010, 19, 794-809.	5.8	116
26	Competing consumers: contrasting the patterns and impacts of fire and mammalian herbivory in Africa. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150309.	4.0	116
27	Confronting complexity: fire policy choices in South African savanna parks. <i>International Journal of Wildland Fire</i> , 2003, 12, 381.	2.4	111
28	Modelling the role of fires in the terrestrial carbon balance by incorporating SPITFIRE into the global vegetation model ORCHIDEE â€“ Part 1: simulating historical global burned area and fire regimes. <i>Geoscientific Model Development</i> , 2014, 7, 2747-2767.	3.6	109
29	Precipitation as driver of carbon fluxes in 11 African ecosystems. <i>Biogeosciences</i> , 2009, 6, 1027-1041.	3.3	106
30	The consequences of replacing wildlife with livestock in Africa. <i>Scientific Reports</i> , 2017, 7, 17196.	3.3	102
31	African Grazing Lawnsâ€”How Fire, Rainfall, and Grazer Numbers Interact to Affect Grass Community States. <i>Journal of Wildlife Management</i> , 2008, 72, 492-501.	1.8	86
32	A unified framework for plant life-history strategies shaped by fire and herbivory. <i>New Phytologist</i> , 2019, 224, 1490-1503.	7.3	70
33	Grazer movements: spatial and temporal responses to burning in a tall-grass African savanna. <i>International Journal of Wildland Fire</i> , 2004, 13, 377.	2.4	69
34	Fire ecology of C ₃ and C ₄ grasses depends on evolutionary history and frequency of burning but not photosynthetic type. <i>Ecology</i> , 2015, 96, 2679-2691.	3.2	65
35	Field determination of biomass burning emission ratios and factors via open-path FTIR spectroscopy and fire radiative power assessment: headfire, backfire and residual smouldering combustion in African savannahs. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11591-11615.	4.9	64
36	Natural Hazards in a Changing World: A Case for Ecosystem-Based Management. <i>PLoS ONE</i> , 2014, 9, e95942.	2.5	64

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37	Strategies for managing complex social-ecological systems in the face of uncertainty: examples from South Africa and beyond. <i>Ecology and Society</i> , 2015, 20, .	2.3	64
38	Quantitative assessment of fire and vegetation properties in simulations with fire-enabled vegetation models from the Fire Model Intercomparison Project. <i>Geoscientific Model Development</i> , 2020, 13, 3299-3318.	3.6	63
39	Remotely sensed vegetation phenology for describing and predicting the biomes of South Africa. <i>Applied Vegetation Science</i> , 2011, 14, 49-66.	1.9	61
40	Validation of the MODIS burned-area products across different biomes in South Africa. , 2010, , .		60
41	Tree cover in sub-Saharan Africa: Rainfall and fire constrain forest and savanna as alternative stable states. <i>Ecology</i> , 2011, 92, 1063-1072.	3.2	60
42	Comment on "The extent of forest in dryland biomes". <i>Science</i> , 2017, 358, .	12.6	57
43	Pyrodiversity interacts with rainfall to increase bird and mammal richness in African savannas. <i>Ecology Letters</i> , 2018, 21, 557-567.	6.4	55
44	Global ecosystems and fire: Multi-model assessment of fire-induced tree cover and carbon storage reduction. <i>Global Change Biology</i> , 2020, 26, 5027-5041.	9.5	55
45	Validation of the Two Standard MODIS Satellite Burned-Area Products and an Empirically-Derived Merged Product in South Africa. <i>Remote Sensing</i> , 2014, 6, 1275-1293.	4.0	54
46	Management impacts on fire occurrence: A comparison of fire regimes of African and South American tropical savannas in different protected areas. <i>Journal of Environmental Management</i> , 2018, 218, 79-87.	7.8	48
47	Ecological engineering through fire-herbivory feedbacks drives the formation of savanna grazing lawns. <i>Journal of Applied Ecology</i> , 2018, 55, 225-235.	4.0	47
48	Can trophic rewilding reduce the impact of fire in a more flammable world?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170443.	4.0	45
49	Alternate Grassy Ecosystem States Are Determined by Palatability-Flammability Trade-Offs. <i>Trends in Ecology and Evolution</i> , 2019, 34, 286-290.	8.7	43
50	Anthropogenic modifications to fire regimes in the wider Serengeti-Mara ecosystem. <i>Global Change Biology</i> , 2019, 25, 3406-3423.	9.5	38
51	A handbook for the standardised sampling of plant functional traits in disturbance-prone ecosystems, with a focus on open ecosystems. <i>Australian Journal of Botany</i> , 2020, 68, 473.	0.6	38
52	A method for calculating the variance and confidence intervals for tree biomass estimates obtained from allometric equations. <i>South African Journal of Science</i> , 2011, 107, .	0.7	36
53	Do freeze events create a demographic bottleneck for <i>Colophospermum mopane</i> ?. <i>South African Journal of Botany</i> , 2012, 83, 9-18.	2.5	34
54	Increasing temperatures can improve seedling establishment in arid-adapted savanna trees. <i>Oecologia</i> , 2014, 175, 1029-1040.	2.0	30

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55	Thresholds of fire response to moisture and fuel load differ between tropical savannas and grasslands across continents. <i>Global Ecology and Biogeography</i> , 2020, 29, 331-344.	5.8	28
56	Herbivore culling influences spatio-temporal patterns of fire in a semiarid savanna. <i>Journal of Applied Ecology</i> , 2019, 56, 711-721.	4.0	26
57	Retrieval of Savanna Vegetation Canopy Height from ICESat-GLAS Spaceborne LiDAR With Terrain Correction. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 1439-1443.	3.1	24
58	Resprouting grasses are associated with less frequent fire than seeders. <i>New Phytologist</i> , 2021, 230, 832-844.	7.3	24
59	Identifying individual fires from satellite-derived burned area data. , 2009, , .		23
60	Methods to determine the impact of rainfall on fuels and burned area in southern African savannas. <i>International Journal of Wildland Fire</i> , 2010, 19, 774.	2.4	22
61	Continent-level drivers of African pyrodiversity. <i>Ecography</i> , 2018, 41, 889-899.	4.5	21
62	The role of browsers in maintaining the openness of savanna grazing lawns. <i>Journal of Ecology</i> , 2021, 109, 913-926.	4.0	20
63	Savanna tree-grass interactions: A phenological investigation of green-up in relation to water availability over three seasons. <i>South African Journal of Botany</i> , 2017, 108, 29-40.	2.5	18
64	Interactions between Fire and Ecosystem Processes. , 2017, , 233-262.		14
65	Influence of Using Date-Specific Values when Extracting Phenological Metrics from 8-day Composite NDVI Data. , 2007, , .		12
66	Global combustion: the connection between fossil fuel and biomass burning emissions (1997-2010). <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150177.	4.0	12
67	The Abiotic Template for the Hluhluwe-iMfolozi Park's Landscape Heterogeneity. , 2017, , 33-55.		12
68	What drives grassland-forest boundaries? Assessing fire and frost effects on tree seedling survival and architecture. <i>Ecology and Evolution</i> , 2020, 10, 10719-10734.	1.9	12
69	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.	7.1	12
70	No two are the same: Assessing variability in broad-leaved savanna tree phenology, with watering, from 2012 to 2014 at Nylsvley, South Africa. <i>South African Journal of Botany</i> , 2016, 105, 123-132.	2.5	11
71	The Functional Ecology of Grazing Lawns: How Grazers, Termites, People, and Fire Shape HiP's Savanna Grassland Mosaic. , 2017, , 135-160.		10
72	Assessing the frequency and drivers of early-greening in broad-leaved woodlands along a latitudinal gradient in southern Africa. <i>Austral Ecology</i> , 2017, 42, 341-353.	1.5	10

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73	Plant height and lifespan predict range size in southern African grasses. <i>Journal of Biogeography</i> , 2021, 48, 3047-3059.	3.0	10
74	Browsing is a strong filter for savanna tree seedlings in their first growing season. <i>Journal of Ecology</i> , 2021, 109, 3685-3698.	4.0	9
75	A native C3 grass alters fuels and fire spread in montane grassland of South Africa. <i>Plant Ecology</i> , 2018, 219, 621-632.	1.6	8
76	Savanna fire regimes depend on grass trait diversity. <i>Trends in Ecology and Evolution</i> , 2022, 37, 749-758.	8.7	8
77	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, .	7.1	7
78	Drought and fire determine juvenile and adult woody diversity and dominance in a semi-arid African savanna. <i>Biotropica</i> , 2022, 54, 1015-1029.	1.6	7
79	Woody Plant Traits and Life-History Strategies across Disturbance Gradients and Biome Boundaries in the Hluhluwe-iMfolozi Park. , 2017, , 189-210.		6
80	Demographics of <i>Eucalyptus grandis</i> and implications for invasion. <i>Koedoe</i> , 2017, 59, .	0.9	6
81	Droughts Decouple African Savanna Grazers from Their Preferred Forage with Consequences for Grassland Productivity. <i>Ecosystems</i> , 2020, 23, 689-701.	3.4	6
82	Introducing bud bank and below-ground plant organ research to South Africa: Report on a workshop and the way forward. <i>South African Journal of Science</i> , 2019, 115, .	0.7	6
83	Fire ecology for the 21st century: Conserving biodiversity in the age of megafire. <i>Diversity and Distributions</i> , 2022, 28, 350-356.	4.1	6
84	Demographic Bottlenecks and Savanna Tree Abundance. , 2017, , 161-188.		5
85	Identifying phenological functional types in savanna trees. <i>African Journal of Range and Forage Science</i> , 2018, 35, 81-88.	1.4	5
86	Historic changes in the fire-rainfall relationship at a woodland-savanna transition zone in southern Africa. <i>African Journal of Range and Forage Science</i> , 2022, 39, 70-81.	1.4	5
87	Detailed structural characterisation of the savanna flux site at Skukuza, South Africa. , 2009, , .		3
88	Long-Term Vegetation Dynamics within the Hluhluwe iMfolozi Park. , 0, , 56-79.		3
89	Ten years to restore a planet. <i>One Earth</i> , 2020, 3, 647-652.	6.8	3
90	Functional Convergence in Ecosystem Carbon Exchange in Adjacent Savanna Vegetation Types of the Kruger National Park, South Africa. , 2010, , 77-95.		2

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91	Long-Term Phenology and Variability of Southern African Vegetation. , 2008, , .		1
92	Remotely sensed phenology for mapping biomes and vegetation functional types. , 2009, , .		1
93	The fire-vegetation-climate system - how ecology can contribute to earth system science. South African Journal of Botany, 2013, 86, 139.	2.5	1
94	Conserving Africa's Mega-Diversity in the Anthropocene: The Hluhluwe-iMfolozi Park Story. , 0, , 383-396.		1
95	Sedimentary charcoal studies from southern Africaâ€™s grassy biomes: a potential resource for informing the management of fires and ecosystems. African Journal of Range and Forage Science, 2022, 39, 27-43.	1.4	1
96	Natureâ€™reliant, lowâ€™income households face the highest rates of woodyâ€™plant encroachment in South Africa. People and Nature, 2022, 4, 1020-1031.	3.7	1
97	Bob Scholes: Multifaceted scientist with a genius for synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2113299118.	7.1	0
98	A tribute to Winston Smuts Watts Trollope â€™ a firebrand and visionary in fire research. African Journal of Range and Forage Science, 0, , 1-3.	1.4	0
99	Lessons from a century of evidence-based fire management in grassy ecosystems. African Journal of Range and Forage Science, 2022, 39, v-vii.	1.4	0