Sally Archibald

List of Publications by Year
in descending order

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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	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
2	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
3	Historic changes in the fire-rainfall relationship at a woodland-savanna transition zone in southern Africa. African Journal of Range and Forage Science, 2022, 39, 70-81.	1.4	5
4	Fire ecology for the 21st century: Conserving biodiversity in the age of megafire. Diversity and Distributions, 2022, 28, 350-356.	4.1	6
5	Reduced global fire activity due to human demography slows global warming by enhanced land carbon uptake. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2101186119.	7.1	12
6	Savanna fire regimes depend on grass trait diversity. Trends in Ecology and Evolution, 2022, 37, 749-758.	8.7	8
7	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
8	Quantifying the environmental limits to fire spread in grassy ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	7
9	Drought and fire determine juvenile and adult woody diversity and dominance in a semiâ€arid African savanna. Biotropica, 2022, 54, 1015-1029.	1.6	7
10	Resprouting grasses are associated with less frequent fire than seeders. New Phytologist, 2021, 230, 832-844.	7.3	24
11	The role of browsers in maintaining the openness of savanna grazing lawns. Journal of Ecology, 2021, 109, 913-926.	4.0	20
12	Browsing is a strong filter for savanna tree seedlings in their first growing season. Journal of Ecology, 2021, 109, 3685-3698.	4.0	9
13	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
14	Plant height and lifespan predict range size in southern African grasses. Journal of Biogeography, 2021, 48, 3047-3059.	3.0	10
15	Droughts Decouple African Savanna Grazers from Their Preferred Forage with Consequences for Grassland Productivity. Ecosystems, 2020, 23, 689-701.	3.4	6
16	Thresholds of fire response to moisture and fuel load differ between tropical savannas and grasslands across continents. Global Ecology and Biogeography, 2020, 29, 331-344.	5.8	28
17	What drives grasslandâ€forest boundaries? Assessing fire and frost effects on tree seedling survival and architecture. Ecology and Evolution, 2020, 10, 10719-10734.	1.9	12
18	Fire and biodiversity in the Anthropocene. Science, 2020, 370, .	12.6	240

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19	A handbook for the standardised sampling of plant functional traits in disturbance-prone ecosystems, with a focus on open ecosystems. Australian Journal of Botany, 2020, 68, 473.	0.6	38
20	Ten years to restore a planet. One Earth, 2020, 3, 647-652.	6.8	3
21	Global ecosystems and fire: Multiâ€model assessment of fireâ€induced treeâ€cover and carbon storage reduction. Global Change Biology, 2020, 26, 5027-5041.	9.5	55
22	Quantitative assessment of fire and vegetation properties in simulations with fire-enabled vegetation models from the Fire Model Intercomparison Project. Geoscientific Model Development, 2020, 13, 3299-3318.	3.6	63
23	Anthropogenic modifications to fire regimes in the wider Serengetiâ€Mara ecosystem. Global Change Biology, 2019, 25, 3406-3423.	9.5	38
24	Comment on â€œThe global tree restoration potentialâ€• Science, 2019, 366, .	12.6	185
25	A unified framework for plant lifeâ€history strategies shaped by fire and herbivory. New Phytologist, 2019, 224, 1490-1503.	7.3	70
26	Alternate Grassy Ecosystem States Are Determined by Palatabilityâ€“Flammability Trade-Offs. Trends in Ecology and Evolution, 2019, 34, 286-290.	8.7	43
27	Herbivore culling influences spatioâ€temporal patterns of fire in a semiarid savanna. Journal of Applied Ecology, 2019, 56, 711-721.	4.0	26
28	Introducing bud bank and below-ground plant organ research to South Africa: Report on a workshop and the way forward. South African Journal of Science, 2019, 115, .	0.7	6
29	Pyrodiversity interacts with rainfall to increase bird and mammal richness in African savannas. Ecology Letters, 2018, 21, 557-567.	6.4	55
30	Management impacts on fire occurrence: A comparison of fire regimes of African and South American tropical savannas in different protected areas. Journal of Environmental Management, 2018, 218, 79-87.	7.8	48
31	A native C3 grass alters fuels and fire spread in montane grassland of South Africa. Plant Ecology, 2018, 219, 621-632.	1.6	8
32	Ecological engineering through fireâ€herbivory feedbacks drives the formation of savanna grazing lawns. Journal of Applied Ecology, 2018, 55, 225-235.	4.0	47
33	Continentâ€level drivers of African pyrodiversity. Ecography, 2018, 41, 889-899.	4.5	21
34	Global grass (<scp>P</scp>oaceae) success underpinned by traits facilitating colonization, persistence and habitat transformation. Biological Reviews, 2018, 93, 1125-1144.	10.4	178
35	Biological and geophysical feedbacks with fire in the Earth system. Environmental Research Letters, 2018, 13, 033003.	5.2	198
36	Can trophic rewilding reduce the impact of fire in a more flammable world?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170443.	4.0	45

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37	Identifying phenological functional types in savanna trees. African Journal of Range and Forage Science, 2018, 35, 81-88.	1.4	5
38	The Abiotic Template for the Hluhluwe-iMfolozi Park's Landscape Heterogeneity. , 2017, , 33-55.		12
39	The Functional Ecology of Grazing Lawns: How Grazers, Termites, People, and Fire Shape HiP's Savanna Grassland Mosaic. , 2017, , 135-160.		10
40	Demographic Bottlenecks and Savanna Tree Abundance. , 2017, , 161-188.		5
41	Woody Plant Traits and Life-History Strategies across Disturbance Gradients and Biome Boundaries in the Hluhluwe-iMfolozi Park. , 2017, , 189-210.		6
42	Interactions between Fire and Ecosystem Processes. , 2017, , 233-262.		14
43	The consequences of replacing wildlife with livestock in Africa. Scientific Reports, 2017, 7, 17196.	3.3	102
44	Comment on â€œThe extent of forest in dryland biomesâ€. Science, 2017, 358, .	12.6	57
45	Assessing the frequency and drivers of earlyâ€greening in broadâ€leaved woodlands along a latitudinal gradient in southern Africa. Austral Ecology, 2017, 42, 341-353.	1.5	10
46	Savanna tree-grass interactions: A phenological investigation of green-up in relation to water availability over three seasons. South African Journal of Botany, 2017, 108, 29-40.	2.5	18
47	Demographics of <i>Eucalyptus grandis</i> and implications for invasion. Koedoe, 2017, 59, .	0.9	6
48	The status and challenge of global fire modelling. Biogeosciences, 2016, 13, 3359-3375.	3.3	274
49	Managing the human component of fire regimes: lessons from Africa. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150346.	4.0	130
50	Global combustion: the connection between fossil fuel and biomass burning emissions (1997â€“2010). Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150177.	4.0	12
51	No two are the same: Assessing variability in broad-leaved savanna tree phenology, with watering, from 2012 to 2014 at Nylsvley, South Africa. South African Journal of Botany, 2016, 105, 123-132.	2.5	11
52	Competing consumers: contrasting the patterns and impacts of fire and mammalian herbivory in Africa. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150309.	4.0	116
53	Woody encroachment over 70 years in South African savannahs: overgrazing, global change or extinction aftershock?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150437.	4.0	150
54	Ecology of grazing lawns in Africa. Biological Reviews, 2015, 90, 979-994.	10.4	149

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55	Strategies for managing complex social-ecological systems in the face of uncertainty: examples from South Africa and beyond. Ecology and Society, 2015, 20, .	2.3	64
56	Fire ecology of C₃ and C₄ grasses depends on evolutionary history and frequency of burning but not photosynthetic type. Ecology, 2015, 96, 2679-2691.	3.2	65
57	A continent-wide assessment of the form and intensity of large mammal herbivory in Africa. Science, 2015, 350, 1056-1061.	12.6	194
58	Natural Hazards in a Changing World: A Case for Ecosystem-Based Management. PLoS ONE, 2014, 9, e95942.	2.5	64
59	Biomass burning fuel consumption rates: a field measurement database. Biogeosciences, 2014, 11, 7305-7329.	3.3	119
60	Validation of the Two Standard MODIS Satellite Burned-Area Products and an Empirically-Derived Merged Product in South Africa. Remote Sensing, 2014, 6, 1275-1293.	4.0	54
61	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. Geoscientific Model Development, 2014, 7, 2747-2767.	3.6	109
62	Savanna Vegetation-Fire-Climate Relationships Differ Among Continents. Science, 2014, 343, 548-552.	12.6	500
63	Increasing temperatures can improve seedling establishment in arid-adapted savanna trees. Oecologia, 2014, 175, 1029-1040.	2.0	30
64	The fire-vegetation-climate system - how ecology can contribute to earth system science. South African Journal of Botany, 2013, 86, 139.	2.5	1
65	Evaluation of MODIS gross primary productivity for Africa using eddy covariance data. Remote Sensing of Environment, 2013, 131, 275-286.	11.0	125
66	Retrieval of Savanna Vegetation Canopy Height from ICESat-GLAS Spaceborne LiDAR With Terrain Correction. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1439-1443.	3.1	24
67	Defining pyromes and global syndromes of fire regimes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6442-6447.	7.1	519
68	Evolution of human-driven fire regimes in Africa. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 847-852.	7.1	293
69	Do freeze events create a demographic bottleneck for Colophospermum mopane?. South African Journal of Botany, 2012, 83, 9-18.	2.5	34
70	The Global Extent and Determinants of Savanna and Forest as Alternative Biome States. Science, 2011, 334, 230-232.	12.6	1,039
71	Tree cover in sub-Saharan Africa: Rainfall and fire constrain forest and savanna as alternative stable states. Ecology, 2011, 92, 1063-1072.	3.2	342
72	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. Atmospheric Chemistry and Physics, 2011, 11, 11591-11615.	4.9	64

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73	When is a â€˜forestâ€™ a savanna, and why does it matter?. Global Ecology and Biogeography, 2011, 20, 653-660.	5.8	348
74	Deciphering the distribution of the savanna biome. New Phytologist, 2011, 191, 197-209.	7.3	410
75	Remotely sensed vegetation phenology for describing and predicting the biomes of South Africa. Applied Vegetation Science, 2011, 14, 49-66.	1.9	61
76	A method for calculating the variance and confidence intervals for tree biomass estimates obtained from allometric equations. South African Journal of Science, 2011, 107, .	0.7	36
77	Tree cover in sub-Saharan Africa: Rainfall and fire constrain forest and savanna as alternative stable states. Ecology, 2011, 92, 1063-1072.	3.2	60
78	Methods to determine the impact of rainfall on fuels and burned area in southern African savannas. International Journal of Wildland Fire, 2010, 19, 774.	2.4	22
79	Functional Convergence in Ecosystem Carbon Exchange in Adjacent Savanna Vegetation Types of the Kruger National Park, South Africa. , 2010, , 77-95.		2
80	Climate and the interâ€annual variability of fire in southern Africa: a metaâ€analysis using longâ€term field data and satelliteâ€derived burnt area data. Global Ecology and Biogeography, 2010, 19, 794-809.	5.8	116
81	Validation of the MODIS burned-area products across different biomes in South Africa. , 2010, , .		60
82	Southern African fire regimes as revealed by remote sensing. International Journal of Wildland Fire, 2010, 19, 861.	2.4	188
83	Precipitation as driver of carbon fluxes in 11 African ecosystems. Biogeosciences, 2009, 6, 1027-1041.	3.3	106
84	Remotely sensed phenology for mapping biomes and vegetation functional types. , 2009, , .		1
85	Detailed structural characterisation of the savanna flux site at Skukuza, South Africa. , 2009, , .		3
86	Identifying individual fires from satellite-derived burned area data. , 2009, , .		23
87	What limits fire? An examination of drivers of burnt area in Southern Africa. Global Change Biology, 2009, 15, 613-630.	9.5	590
88	African Grazing Lawnsâ€"How Fire, Rainfall, and Grazer Numbers Interact to Affect Grass Community States. Journal of Wildlife Management, 2008, 72, 492-501.	1.8	86
89	Long-Term Phenology and Variability of Southern African Vegetation. , 2008, , .		1
90	Influence of Using Date-Specific Values when Extracting Phenological Metrics from 8-day Composite NDVI Data. , 2007, , .		12

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91	Leaf greenâ€up in a semiâ€arid African savanna â€separating tree and grass responses to environmental cues. Journal of Vegetation Science, 2007, 18, 583-594.	2.2	168
92	Leaf green-up in a semi-arid African savanna â€“separating tree and grass responses to environmental cues. Journal of Vegetation Science, 2007, 18, 583.	2.2	128
93	SHAPING THE LANDSCAPE: FIREâ€“GRAZER INTERACTIONS IN AN AFRICAN SAVANNA. , 2005, 15, 96-109.		353
94	Grazer movements: spatial and temporal responses to burning in a tall-grass African savanna. International Journal of Wildland Fire, 2004, 13, 377.	2.4	69
95	Growing tall vs growing wide: tree architecture and allometry of Acacia karroo in forest, savanna, and arid environments. Oikos, 2003, 102, 3-14.	2.7	206
96	Confronting complexity: fire policy choices in South African savanna parks. International Journal of Wildland Fire, 2003, 12, 381.	2.4	111
97	Long-Term Vegetation Dynamics within the Hluhluwe iMfolozi Park. , 0, , 56-79.		3
98	Conserving Africa's Mega-Diversity in the Anthropocene: The Hluhluwe-iMfolozi Park Story. , 0, , 383-396.		1
99	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