

David Augustine

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

7,362
citations

81900

39
h-index

62596

80
g-index

125
all docs

125
docs citations

125
times ranked

6449
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	Ungulate Effects on the Functional Species Composition of Plant Communities: Herbivore Selectivity and Plant Tolerance. <i>Journal of Wildlife Management</i> , 1998, 62, 1165.	1.8	831
3	Regulation of shrub dynamics by native browsing ungulates on East African rangeland. <i>Journal of Applied Ecology</i> , 2004, 41, 45-58.	4.0	250
4	Effects of White-Tailed Deer on Populations of an Understory Forb in Fragmented Deciduous Forests. <i>Conservation Biology</i> , 1998, 12, 995-1004.	4.7	216
5	FEEDBACKS BETWEEN SOIL NUTRIENTS AND LARGE HERBIVORES IN A MANAGED SAVANNA ECOSYSTEM. , 2003, 13, 1325-1337.		204
6	EFFECTS OF MIGRATORY GRAZERS ON SPATIAL HETEROGENEITY OF SOIL NITROGEN PROPERTIES IN A GRASSLAND ECOSYSTEM. <i>Ecology</i> , 2001, 82, 3149-3162.	3.2	197
7	Long-term, livestock-mediated redistribution of nitrogen and phosphorus in an East African savanna. <i>Journal of Applied Ecology</i> , 2003, 40, 137-149.	4.0	176
8	Livestock as Ecosystem Engineers for Grassland Bird Habitat in the Western Great Plains of North America. <i>Rangeland Ecology and Management</i> , 2009, 62, 111-118.	2.3	172
9	Interactive Effects of Ungulate Herbivores, Soil Fertility, and Variable Rainfall on Ecosystem Processes in a Semi-arid Savanna. <i>Ecosystems</i> , 2006, 9, 1242-1256.	3.4	166
10	EVIDENCE FOR TWO ALTERNATE STABLE STATES IN AN UNGULATE GRAZING SYSTEM. , 1998, 8, 1260-1269.		125
11	LARGE HERBIVORES SUPPRESS DECOMPOSER ABUNDANCE IN A SEMIARID GRAZING ECOSYSTEM. <i>Ecology</i> , 2004, 85, 1052-1061.	3.2	119
12	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
13	Defining deer overabundance and threats to forest communities: From individual plants to landscape structure. <i>Ecoscience</i> , 2003, 10, 472-486.	1.4	95
14	Spatial heterogeneity in the herbaceous layer of a semi-arid savanna ecosystem. <i>Plant Ecology</i> , 2003, 167, 319-332.	1.6	92
15	Strategic management of livestock to improve biodiversity conservation in African savannahs: a conceptual basis for wildlife-livestock coexistence. <i>Journal of Applied Ecology</i> , 2016, 53, 388-397.	4.0	91
16	Nitrogen cycling and water pulses in semiarid grasslands: are microbial and plant processes temporally asynchronous?. <i>Oecologia</i> , 2012, 170, 799-808.	2.0	90
17	Local versus landscape-scale effects of savanna trees on grasses. <i>Journal of Ecology</i> , 2009, 97, 1337-1345.	4.0	88
18	Grazing intensity differentially regulates ANPP response to precipitation in North American semiarid grasslands. <i>Ecological Applications</i> , 2016, 26, 1370-1380.	3.8	81

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19	Functional response of U.S. grasslands to the early 21st-century drought. <i>Ecology</i> , 2014, 95, 2121-2133.	3.2	75
20	Evaluating strategies for sustainable intensification of US agriculture through the Long-Term Agroecosystem Research network. <i>Environmental Research Letters</i> , 2018, 13, 034031.	5.2	75
21	Plant Community Composition After 75 Yr of Sustained Grazing Intensity Treatments in Shortgrass Steppe. <i>Rangeland Ecology and Management</i> , 2017, 70, 456-464.	2.3	72
22	Predictors of White-Tailed Deer Grazing Intensity in Fragmented Deciduous Forests. <i>Journal of Wildlife Management</i> , 1998, 62, 1076.	1.8	71
23	Assessing Herbivore Foraging Behavior with GPS Collars in a Semiarid Grassland. <i>Sensors</i> , 2013, 13, 3711-3723.	3.8	70
24	Elevated CO ₂ induces substantial and persistent declines in forage quality irrespective of warming in mixedgrass prairie. <i>Ecological Applications</i> , 2018, 28, 721-735.	3.8	67
25	Thresholds and gradients in a semi-arid grassland: long-term grazing treatments induce slow, continuous and reversible vegetation change. <i>Journal of Applied Ecology</i> , 2016, 53, 1013-1022.	4.0	65
26	Controls over the strength and timing of fire-grazer interactions in a semi-arid rangeland. <i>Journal of Applied Ecology</i> , 2014, 51, 242-250.	4.0	63
27	Collaborative Adaptive Rangeland Management Fosters Management-Science Partnerships. <i>Rangeland Ecology and Management</i> , 2018, 71, 646-657.	2.3	63
28	Complexity fosters learning in collaborative adaptive management. <i>Ecology and Society</i> , 2019, 24, .	2.3	58
29	Adaptive Management for Drought on Rangelands. <i>Rangelands</i> , 2016, 38, 211-215.	1.9	57
30	Response of native ungulates to drought in semi-arid Kenyan rangeland. <i>African Journal of Ecology</i> , 2010, 48, 1009-1020.	0.9	56
31	Temporal Asynchrony in Soil Nutrient Dynamics and Plant Production in a Semiarid Ecosystem. <i>Ecosystems</i> , 2004, 7, 829-840.	3.4	53
32	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
33	Vulnerability of grazing and confined livestock in the Northern Great Plains to projected mid- and late-twenty-first century climate. <i>Climatic Change</i> , 2018, 146, 19-32.	3.6	52
34	Traits link drought resistance with herbivore defence and plant economics in semi-arid grasslands: The central roles of phenology and leaf dry matter content. <i>Journal of Ecology</i> , 2020, 108, 2336-2351.	4.0	49
35	Prescribed Fire, Grazing, and Herbaceous Plant Production in Shortgrass Steppe. <i>Rangeland Ecology and Management</i> , 2010, 63, 317-323.	2.3	48
36	Adaptive, Multipaddock Rotational Grazing Management: A Ranch-Scale Assessment of Effects on Vegetation and Livestock Performance in Semiarid Rangeland. <i>Rangeland Ecology and Management</i> , 2020, 73, 796-810.	2.3	48

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37	Spatial versus temporal variation in precipitation in a semiarid ecosystem. <i>Landscape Ecology</i> , 2010, 25, 913-925.	4.2	47
38	Recovery of African wild dogs suppresses prey but does not trigger a trophic cascade. <i>Ecology</i> , 2015, 96, 2705-2714.	3.2	47
39	INFLUENCE OF CATTLE MANAGEMENT ON HABITAT SELECTION BY IMPALA ON CENTRAL KENYAN RANGELAND. <i>Journal of Wildlife Management</i> , 2004, 68, 916-923.	1.8	46
40	Managing for Biodiversity and Livestock. <i>Rangelands</i> , 2010, 32, 10-15.	1.9	46
41	Prescribed fire, soil inorganic nitrogen dynamics, and plant responses in a semiarid grassland. <i>Journal of Arid Environments</i> , 2014, 104, 59-66.	2.4	44
42	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
43	Diverse Management Strategies Produce Similar Ecological Outcomes on Ranches in Western Great Plains: Social-Ecological Assessment. <i>Rangeland Ecology and Management</i> , 2018, 71, 626-636.	2.3	41
44	Pathways for Positive Cattle-Wildlife Interactions in Semiarid Rangelands. <i>Smithsonian Contributions To Zoology</i> , 2011, , 55-71.	1.5	41
45	Grazing moderates increases in C_{3} grass abundance over seven decades across a soil texture gradient in shortgrass steppe. <i>Journal of Vegetation Science</i> , 2017, 28, 562-572.	2.2	40
46	Interactions between frequency-dependent and vertical transmission in host-parasite systems. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1997, 264, 807-814.	2.6	39
47	Competition and facilitation between a native and a domestic herbivore: trade-offs between forage quantity and quality. , 2013, 23, 850-863.		39
48	Quantifying characteristic growth dynamics in a semi-arid grassland ecosystem by predicting short-term NDVI phenology from daily rainfall: a simple four parameter coupled-reservoir model. <i>International Journal of Remote Sensing</i> , 2015, 36, 5637-5663.	2.9	38
49	Spatiotemporal dynamics of black-tailed prairie dog colonies affected by plague. <i>Landscape Ecology</i> , 2008, 23, 255-267.	4.2	37
50	Swift Fox Response to Prescribed Fire in Shortgrass Steppe. <i>Western North American Naturalist</i> , 2008, 68, 251-256.	0.4	36
51	Patch-burn grazing management, vegetation heterogeneity, and avian responses in a semi-arid grassland. <i>Journal of Wildlife Management</i> , 2015, 79, 927-936.	1.8	36
52	Grazing Intensity and Spatial Heterogeneity in Bare Soil in a Grazing-Resistant Grassland. <i>Rangeland Ecology and Management</i> , 2012, 65, 39-46.	2.3	35
53	Thinking Like a Grassland: Challenges and Opportunities for Biodiversity Conservation in the Great Plains of North America. <i>Rangeland Ecology and Management</i> , 2021, 78, 281-295.	2.3	35
54	Effects of Migratory Grazers on Spatial Heterogeneity of Soil Nitrogen Properties in a Grassland Ecosystem. <i>Ecology</i> , 2001, 82, 3149.	3.2	32

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55	Opportunities for Increasing Utility of Models for Rangeland Management. <i>Rangeland Ecology and Management</i> , 2012, 65, 623-631.	2.3	31
56	Disturbance regimes and mountain plover habitat in shortgrass steppe: Large herbivore grazing does not substitute for prairie dog grazing or fire. <i>Journal of Wildlife Management</i> , 2012, 76, 721-728.	1.8	31
57	Vegetation Responses to Prescribed Burning of Grazed Shortgrass Steppe. <i>Rangeland Ecology and Management</i> , 2009, 62, 89-97.	2.3	30
58	Associations of Grassland Bird Communities with Black-tailed Prairie Dogs in the North American Great Plains. <i>Conservation Biology</i> , 2013, 27, 324-334.	4.7	29
59	Does Grazing Matter for Soil Organic Carbon Sequestration in the Western North American Great Plains?. <i>Ecosystems</i> , 2019, 22, 1088-1094.	3.4	28
60	Adaptive rangeland management benefits grassland birds utilizing opposing vegetation structure in the shortgrass steppe. <i>Ecological Applications</i> , 2020, 30, e02020.	3.8	28
61	Rhizosphere interactions, carbon allocation, and nitrogen acquisition of two perennial North American grasses in response to defoliation and elevated atmospheric CO ₂ . <i>Oecologia</i> , 2011, 165, 755-770.	2.0	27
62	Semi-arid grassland bird responses to patch-burn grazing and drought. <i>Journal of Wildlife Management</i> , 2018, 82, 445-456.	1.8	27
63	Response of mountain plovers to plague-driven dynamics of black-tailed prairie dog colonies. <i>Landscape Ecology</i> , 2008, 23, 689-697.	4.2	26
64	Disturbance shapes avian communities on a grassland-sagebrush ecotone. <i>Ecosphere</i> , 2018, 9, e02483.	2.2	23
65	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
66	Modelling <i>Chlamydia</i> koala interactions: coexistence, population dynamics and conservation implications. <i>Journal of Applied Ecology</i> , 1998, 35, 261-272.	4.0	22
67	Interspecific Variation in the Reproductive Response of Acacia Species to Protection from Large Mammalian Herbivores. <i>Biotropica</i> , 2007, 39, 559-561.	1.6	21
68	Using APAR to Predict Aboveground Plant Productivity in Semi-Arid Rangelands: Spatial and Temporal Relationships Differ. <i>Remote Sensing</i> , 2018, 10, 1474.	4.0	21
69	Can Collaborative Adaptive Management Improve Cattle Production in Multipaddock Grazing Systems?. <i>Rangeland Ecology and Management</i> , 2021, 75, 1-8.	2.3	21
70	Ecosystem engineering varies spatially: a test of the vegetation modification paradigm for prairie dogs. <i>Ecography</i> , 2013, 36, 230-239.	4.5	20
71	Spatial vegetation patterns and neighborhood competition among woody plants in an East African savanna. <i>Ecology</i> , 2017, 98, 478-488.	3.2	20
72	Application of grazing land models in ecosystem management: Current status and next frontiers. <i>Advances in Agronomy</i> , 2019, 158, 173-215.	5.2	20

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73	Spatial Redistribution of Nitrogen by Cattle in Semiarid Rangeland. <i>Rangeland Ecology and Management</i> , 2013, 66, 56-62.	2.3	18
74	Sensitivity of productivity to precipitation amount and pattern varies by topographic position in a semiarid grassland. <i>Ecosphere</i> , 2021, 12, e03376.	2.2	18
75	Patch Burn Grazing Management in a Semiarid Grassland: Consequences for Pronghorn, Plains Pricklypear, and Wind Erosion. <i>Rangeland Ecology and Management</i> , 2015, 68, 40-47.	2.3	17
76	Disproportionate effects of noncolonial small herbivores on structure and diversity of grassland dominated by large herbivores. <i>Oikos</i> , 2013, 122, 1757-1767.	2.7	16
77	Testing for Thresholds in a Semiarid Grassland: The Influence of Prairie Dogs and Plague. <i>Rangeland Ecology and Management</i> , 2014, 67, 701-709.	2.3	15
78	Community-Engaged Research Builds a Nature-Culture of Hope on North American Great Plains Rangelands. <i>Social Sciences</i> , 2019, 8, 22.	1.4	15
79	Influence of Fire on Black-tailed Prairie Dog Colony Expansion in Shortgrass Steppe. <i>Rangeland Ecology and Management</i> , 2007, 60, 538-542.	2.3	14
80	Composted manure application promotes long-term invasion of semiarid rangeland by <i>Bromus tectorum</i> . <i>Ecosphere</i> , 2017, 8, e01960.	2.2	14
81	Large-scale and local climatic controls on large herbivore productivity: implications for adaptive rangeland management. <i>Ecological Applications</i> , 2020, 30, e02053.	3.8	14
82	Monitoring standing herbaceous biomass and thresholds in semiarid rangelands from harmonized Landsat 8 and Sentinel-2 imagery to support within-season adaptive management. <i>Remote Sensing of Environment</i> , 2022, 271, 112907.	11.0	14
83	Weather radar data correlate to hail-induced mortality in grassland birds. <i>Remote Sensing in Ecology and Conservation</i> , 2017, 3, 90-101.	4.3	13
84	Cattle Grazing Distribution in Shortgrass Steppe: Influences of Topography and Saline Soils. <i>Rangeland Ecology and Management</i> , 2019, 72, 602-614.	2.3	13
85	Threshold responses of grassland and sagebrush birds to patterns of disturbance created by an ecosystem engineer. <i>Landscape Ecology</i> , 2019, 34, 895-909.	4.2	13
86	Collaborative Adaptive Rangeland Management, Multipaddock Rotational Grazing, and the Story of the Regrazed Grass Plant. <i>Rangeland Ecology and Management</i> , 2021, 78, 127-141.	2.3	13
87	Mountain plover nest survival in relation to prairie dog and fire dynamics in shortgrass steppe. <i>Journal of Wildlife Management</i> , 2014, 78, 595-602.	1.8	12
88	Noseband sensor validation and behavioural indicators for assessing beef cattle grazing on extensive pastures. <i>Applied Animal Behaviour Science</i> , 2021, 242, 105402.	1.9	12
89	Characteristics of Burns Conducted under Modified Prescriptions to Mitigate Limited Fuels in a Semi-Arid Grassland. <i>Fire Ecology</i> , 2014, 10, 36-47.	3.0	11
90	Large herbivores maintain a two-phase herbaceous vegetation mosaic in a semiarid savanna. <i>Ecology and Evolution</i> , 2019, 9, 12779-12788.	1.9	11

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91	Climatic and management determinants of large herbivore production in semiarid grassland. <i>Agriculture, Ecosystems and Environment</i> , 2020, 290, 106761.	5.3	11
92	Multidecadal directional shift in shortgrass stocking rates. <i>Rangeland Ecology and Management</i> , 2021, 74, 72-80.	2.3	10
93	Social learning lessons from Collaborative Adaptive Rangeland Management. <i>Rangelands</i> , 2022, 44, 316-326.	1.9	10
94	Long-term Effects of Black-tailed Prairie Dogs on Livestock Grazing Distribution and Mass Gain. <i>Journal of Wildlife Management</i> , 2021, 85, 1332-1343.	1.8	10
95	Large herbivores suppress liana infestation in an African savanna. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	10
96	Dormant-Season Fire Inhibits Sixweeks Fescue and Enhances Forage Production in Shortgrass Steppe. <i>Fire Ecology</i> , 2018, 14, 33-49.	3.0	9
97	Strong but opposing effects of associational resistance and susceptibility on defense phenotype in an African savanna plant. <i>Oikos</i> , 2019, 128, 1772-1782.	2.7	9
98	Mountain Plover habitat selection and nest survival in relation to weather variability and spatial attributes of black-tailed prairie dog disturbance. <i>Condor</i> , 2020, 122, .	1.6	9
99	Habitat selection and group foraging of the springhare, <i>Pedetes capensis larvalis</i> Hollister, in East Africa. <i>African Journal of Ecology</i> , 1995, 33, 347-357.	0.9	8
100	Predicting spatial-temporal patterns of diet quality and large herbivore performance using satellite time series. <i>Ecological Applications</i> , 2022, 32, e2503.	3.8	8
101	Habitat selection by mountain plovers in shortgrass steppe. <i>Journal of Wildlife Management</i> , 2011, 75, 297-304.	1.8	7
102	Aerial surveys adjusted by ground surveys to estimate area occupied by black-tailed prairie dog colonies. <i>Wildlife Society Bulletin</i> , 2012, 36, 248-256.	1.6	7
103	Searching for cover: soil enrichment and herbivore exclusion, not fire, enhance African savanna small-mammal abundance. <i>Ecosphere</i> , 2018, 9, e02519.	2.2	7
104	Ecological Sites: Can they be Managed to Promote Livestock Production?. <i>Rangelands</i> , 2019, 41, 239-243.	1.9	7
105	Assessing the rate and reversibility of large-herbivore effects on community composition in a semi-arid grassland ecosystem. <i>Journal of Vegetation Science</i> , 2021, 32, .	2.2	7
106	Vegetation characteristics and precipitation jointly influence grassland bird abundance beyond the effects of grazing management. <i>Condor</i> , 2021, 123, .	1.6	7
107	Adaptive grazing management in semiarid rangelands: An outcome-driven focus. <i>Rangelands</i> , 2022, 44, 111-118.	1.9	6
108	Managing Browsing and Grazing Ungulates. <i>Ecological Studies</i> , 2019, , 321-338.	1.2	6

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109	Boom and bust cycles of black-tailed prairie dog populations in the Thunder Basin grassland ecosystem. <i>Journal of Mammalogy</i> , 2022, 103, 1112-1126.	1.3	5
110	Can measurements of foraging behaviour predict variation in weight gains of free-ranging cattle?. <i>Animal Production Science</i> , 2022, 62, 926-936.	1.3	5
111	Distribution and nesting success of ferruginous hawks and Swainson's hawks on an agricultural landscape in the Great Plains. <i>Southwestern Naturalist</i> , 2014, 59, 356-363.	0.1	4
112	UAVâ€­Enabled Quantification of Grazing-Induced Changes in Uniformity of Green Cover on Semiarid and Mesic Grasslands. <i>Rangeland Ecology and Management</i> , 2022, 80, 68-77.	2.3	4
113	Evaluation of the APEX cattle weight gain component for grazing decision-support in the Western Great Plains. <i>Rangeland Ecology and Management</i> , 2022, 82, 1-11.	2.3	4
114	Stocking rate and marketing dates for yearling steers grazing rangelands: Can producers do things differently to increase economic net benefits?. <i>Rangelands</i> , 2022, 44, 251-257.	1.9	4
115	Using Hyperspectral Imagery to Characterize Rangeland Vegetation Composition at Process-Relevant Scales. <i>Remote Sensing</i> , 2021, 13, 4603.	4.0	3
116	Can grazing by elk and bison stimulate herbaceous plant productivity in semiarid ecosystems?. <i>Ecosphere</i> , 2022, 13, .	2.2	3
117	COMPETITION AND FACILITATION BETWEEN PRAIRIE DOGS AND LIVESTOCK. <i>Bulletin of the Ecological Society of America</i> , 2013, 94, 177-179.	0.2	2
118	Anthropogenic and Natural Disturbance Differentially Affect Sagebrush Bird Habitat Use. <i>Journal of Wildlife Management</i> , 2020, 84, 1361-1372.	1.8	2
119	Integrating Wildlife Count Models With State-and-Transition Models to Enhance Rangeland Management for Multiple Objectives. <i>Rangeland Ecology and Management</i> , 2021, 78, 15-25.	2.3	2
120	Remotely Sensed Spatiotemporal Variation in Crude Protein of Shortgrass Steppe Forage. <i>Remote Sensing</i> , 2022, 14, 854.	4.0	2
121	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
122	Largeâ€­scale and Local Climatic Controls on Large Herbivore Productivity: Implications for Adaptive Rangeland Management. <i>Bulletin of the Ecological Society of America</i> , 2020, 101, e01665.	0.2	0