J Morgan Varner

List of Publications by Year
in descending order

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Version: 2024-02-01

90 papers	4,141 citations	126907 33 h-index	123424 61 g-index
92 all docs	92 docs citations	92 times ranked	3220 citing authors

#	Article	IF	Citations
1	Prescribed fire in North American forests and woodlands: history, current practice, and challenges. Frontiers in Ecology and the Environment, 2013, 11, e15.	4.0	442
2	Fire as a fundamental ecological process: Research advances and frontiers. Journal of Ecology, 2020, 108, 2047-2069.	4.0	281
3	Restoring Fire to Long-Unburned Pinus palustris Ecosystems: Novel Fire Effects and Consequences for Long-Unburned Ecosystems. Restoration Ecology, 2005, 13, 536-544.	2.9	190
4	Comment on â€œThe global tree restoration potentialâ€• Science, 2019, 366, .	12.6	185
5	Fire and tree death: understanding and improving modeling of fire-induced tree mortality. Environmental Research Letters, 2018, 13, 113004.	5.2	145
6	The burning characteristics of southeastern oaks: Discriminating fire facilitators from fire impeders. Forest Ecology and Management, 2008, 256, 2039-2045.	3.2	135
7	Post-fire regeneration across a fire severity gradient in the southern Cascades. Forest Ecology and Management, 2013, 287, 103-112.	3.2	118
8	The Flammability of Forest and Woodland Litter: a Synthesis. Current Forestry Reports, 2015, 1, 91-99.	7.4	116
9	Toward a mechanism for eastern North American forest mesophication: differential litter drying across 17 species. Ecological Applications, 2013, 23, 1976-1986.	3.8	110
10	Prescribed fire science: the case for a refined research agenda. Fire Ecology, 2020, 16, .	3.0	104
11	Post-fire tree stress and growth following smoldering duff fires. Forest Ecology and Management, 2009, 258, 2467-2474.	3.2	99
12	Overstory tree mortality resulting from reintroducing fire to long-unburned longleaf pine forests: the importance of duff moisture. Canadian Journal of Forest Research, 2007, 37, 1349-1358.	1.7	93
13	Biogeography of fire regimes in western U.S. conifer forests: A traitâ€based approach. Global Ecology and Biogeography, 2020, 29, 944-955.	5.8	82
14	Patterns of flammability of the California oaks: the role of leaf traits. Canadian Journal of Forest Research, 2012, 42, 1965-1975.	1.7	81
15	Ecological value of retaining pyrophytic oaks in longleaf pine ecosystems. Journal of Wildlife Management, 2014, 78, 383-393.	1.8	76
16	Fire behavior in masticated fuels: A review. Forest Ecology and Management, 2014, 314, 193-207.	3.2	74
17	Novel fuelbed characteristics associated with mechanical mastication treatments in northern California and south-western Oregon, USA. International Journal of Wildland Fire, 2009, 18, 686.	2.4	68
18	Acute Physiological Stress and Mortality Following Fire in a Long-Unburned Longleaf Pine Ecosystem. Fire Ecology, 2010, 6, 1-12.	3.0	65

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19	Characterizing interactions between fire and other disturbances and their impacts on tree mortality in western U.S. Forests. Forest Ecology and Management, 2017, 405, 188-199.	3.2	65
20	The Effects of Conifer Encroachment and Overstory Structure on Fuels and Fire in an Oak Woodland Landscape. Fire Ecology, 2011, 7, 32-50.	3.0	60
21	Mesophytic litter dampens flammability in fireâ€excluded pyrophytic oakâ€“hickory woodlands. Ecosphere, 2018, 9, e02078.	2.2	60
22	Mesophication of Oak Landscapes: Evidence, Knowledge Gaps, and Future Research. BioScience, 2021, 71, 531-542.	4.9	59
23	Unexpected redwood mortality from synergies between wildfire and an emerging infectious disease. Ecology, 2013, 94, 2152-2159.	3.2	57
24	Behaviour and effects of prescribed fire in masticated fuelbeds. International Journal of Wildland Fire, 2011, 20, 932.	2.4	56
25	An analysis of Southeastern US prescribed burn weather windows: seasonal variability and El NiÃ±o associations. International Journal of Wildland Fire, 2018, 27, 176.	2.4	55
26	Clarifying the role of fire in the deciduous forests of eastern North America: reply to Matlack. Conservation Biology, 2015, 29, 942-946.	4.7	51
27	Longâ€term effects of fire severity on oakâ€“conifer dynamics in the southern Cascades. Ecological Applications, 2014, 24, 94-107.	3.8	49
28	Canopy disturbance and tree recruitment over two centuries in a managed longleaf pine landscape. Forest Ecology and Management, 2008, 254, 85-95.	3.2	46
29	Understory vegetation response to mechanical mastication and other fuels treatments in a ponderosa pine forest. Applied Vegetation Science, 2010, 13, 207-220.	1.9	46
30	Effects of particle fracturing and moisture content on fire behaviour in masticated fuelbeds burned in a laboratory. International Journal of Wildland Fire, 2011, 20, 308.	2.4	43
31	California black oak responses to fire severity and native conifer encroachment in the Klamath Mountains. Forest Ecology and Management, 2012, 270, 25-34.	3.2	41
32	Contrasting sapling bark allocation of five southeastern USA hardwood tree species in a fire prone ecosystem. Ecosphere, 2015, 6, 1-13.	2.2	41
33	Decadal changes in fire frequencies shift tree communities and functional traits. Nature Ecology and Evolution, 2021, 5, 504-512.	7.8	41
34	Suites of Fire-Adapted traits of Oaks in the Southeastern USA: Multiple Strategies for Persistence. Fire Ecology, 2016, 12, 48-64.	3.0	37
35	Tree crown injury from wildland fires: causes, measurement and ecological and physiological consequences. New Phytologist, 2021, 231, 1676-1685.	7.3	35
36	Sudden oak death-caused changes to surface fuel loading and potential fire behavior in Douglas-fir-tanoak forests. Forest Ecology and Management, 2011, 261, 1973-1986.	3.2	34

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37	Flammability of the keystone savanna bunchgrass Aristida stricta. Plant Ecology, 2016, 217, 331-342.	1.6	34
38	The effects of sudden oak death on foliar moisture content and crown fire potential in tanoak. Forest Ecology and Management, 2010, 259, 2103-2110.	3.2	32
39	Reviewing Fire, Climate, Deer, and Foundation Species as Drivers of Historically Open Oak and Pine Forests and Transition to Closed Forests. Frontiers in Forests and Global Change, 2020, 3, .	2.3	32
40	Spatial, seasonal, and diel forest floor moisture dynamics in Jeffrey pine-white fir forests of the Lake Tahoe Basin, USA. Forest Ecology and Management, 2013, 305, 11-20.	3.2	29
41	Modelling post-fire tree mortality: Can random forest improve discrimination of imbalanced data?. Ecological Modelling, 2019, 414, 108855.	2.5	29
42	Robust projections of future fire probability for the conterminous United States. Science of the Total Environment, 2021, 789, 147872.	8.0	29
43	Moisture desorption in mechanically masticated fuels: effects of particle fracturing and fuelbed compaction. International Journal of Wildland Fire, 2012, 21, 894.	2.4	27
44	Effects of solar heating on the moisture dynamics of forest floor litter in humid environments: composition, structure, and position matter. Canadian Journal of Forest Research, 2018, 48, 1331-1342.	1.7	27
45	Predicting Douglasâ€fir Sapling Mortality Following Prescribed Fire in an Encroached Grassland. Restoration Ecology, 2012, 20, 665-668.	2.9	25
46	Impact of human factors on wildfire occurrence in Mississippi, United States. Forest Policy and Economics, 2017, 81, 38-47.	3.4	24
47	A Mixed-Effects Heterogeneous Negative Binomial Model for Postfire Conifer Regeneration in Northeastern California, USA. Forest Science, 2014, 60, 275-287.	1.0	23
48	Fire in Eastern north American Oak Ecosystems: Filling the Gaps. Fire Ecology, 2016, 12, 1-6.	3.0	23
49	A large database supports the use of simple models of post-fire tree mortality for thick-barked conifers, with less support for other species. Fire Ecology, 2020, 16, .	3.0	23
50	Altered Community Flammability in Floridaâ€™s Apalachicola Ravines and Implications for the Persistence of the Endangered Conifer Torreya taxifolia. PLoS ONE, 2014, 9, e103933.	2.5	22
51	Do repeated wildfires promote restoration of oak woodlands in mixed-conifer landscapes?. Forest Ecology and Management, 2018, 427, 143-151.	3.2	21
52	Spatial and temporal variability of forest floor duff characteristics in long-unburnedPinus palustrisforests. Canadian Journal of Forest Research, 2014, 44, 1477-1486.	1.7	20
53	Age and stand structure of oak woodlands along a gradient of conifer encroachment in northwestern California. Ecosphere, 2018, 9, e02446.	2.2	19
54	Prescribed fire and conifer removal promote positive understorey vegetation responses in oak woodlands. Journal of Applied Ecology, 2016, 53, 1604-1612.	4.0	18

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55	Contingent resistance in longleaf pine (Pinus palustris) growth and defense 10 years following smoldering fires. Forest Ecology and Management, 2016, 364, 130-138.	3.2	18
56	Resurrecting the Lost Flames of American Chestnut. Ecosystems, 2019, 22, 995-1006.	3.4	17
57	Structure and composition of forest floor fuels in long-unburned Jeffrey pineâ€“white fir forests of the Lake Tahoe Basin, USA. International Journal of Wildland Fire, 2014, 23, 363.	2.4	15
58	Embracing Complexity to Advance the Science of Wildland Fire Behavior. Fire, 2018, 1, 20.	2.8	14
59	Litter trait driven dampening of flammability following deciduous forest community shifts in eastern North America. Forest Ecology and Management, 2021, 489, 119100.	3.2	14
60	Pine cones facilitate ignition of forest floor duff. Canadian Journal of Forest Research, 2013, 43, 512-516.	1.7	13
61	Fuel Moisture Differences in a Mixed Native and Non-Native Grassland: Implications for Fire Regimes. Fire Ecology, 2016, 12, 73-87.	3.0	13
62	Long-term stand dynamics of old-growth mountain longleaf pine (Pinus palustris) woodlands. Forest Ecology and Management, 2016, 364, 154-164.	3.2	13
63	Finding balance between fire hazard reduction and erosion control in the Lake Tahoe Basin, Californiaâ€“Nevada. Forest Ecology and Management, 2016, 360, 40-51.	3.2	13
64	Fires without tanoak: the effects of a non-native disease on future community flammability. Biological Invasions, 2017, 19, 2307-2317.	2.4	13
65	Long-Duration Soil Heating Resulting from Forest Floor Duff Smoldering in Longleaf Pine Ecosystems. Forest Science, 2020, 66, 291-303.	1.0	13
66	The Fire and Tree Mortality Database, for empirical modeling of individual tree mortality after fire. Scientific Data, 2020, 7, 194.	5.3	13
67	COVID-19 lockdowns drive decline in active fires in southeastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	13
68	Seed Viability and Fire-Related Temperature Treatments in Serotinous California Native Hesperocyparis Species. Fire Ecology, 2012, 8, 107-124.	3.0	12
69	Litter Flammability of 50 Southeastern North American Tree Species: Evidence for Mesophication Gradients Across Multiple Ecosystems. Frontiers in Forests and Global Change, 2021, 4, .	2.3	12
70	Short- and long-term hydrologic controls on smouldering fire in wetland soils. International Journal of Wildland Fire, 2019, 28, 177.	2.4	11
71	Characteristics of Sap Trees Used by Overwintering Sphyrapicus varius (Yellow-bellied Sapsuckers) in an Old-growth Pine Forest. Southeastern Naturalist, 2006, 5, 127-134.	0.4	10
72	Patterns of Duff Ignition and Smoldering beneath Old Pinus palustris: Influence of Tree Proximity, Moisture Content, and Ignition Vectors. Forest Science, 2017, 63, 165-172.	1.0	9

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73	Differential relative bark thickness and aboveground growth discriminates fire resistance among hardwood sprouts in the southern Cascades, California. Trees - Structure and Function, 2019, 33, 267-277.	1.9	9
74	Fire Ecology and Management in Eastern Broadleaf and Appalachian Forests. Managing Forest Ecosystems, 2021, , 105-147.	0.9	9
75	Implications of sudden oak death for wildland fire management. Forest Phytophthoras, 2017, 7, .	1.0	9
76	Foliar Consumption across a Sudden Oak Death Chronosequence in Laboratory Fires. Fire Ecology, 2013, 9, 33-44.	3.0	8
77	Pyrogenic flowering of Aristida beyrichiana following 50Âyears of fire exclusion. Ecosphere, 2019, 10, e02541.	2.2	8
78	Reconsidering the fire ecology of the iconic American chestnut. Ecosphere, 2020, 11, e03267.	2.2	8
79	Utility of an Instantaneous Moisture Meter for Duff Moisture Prediction in Long-Unburned Longleaf Pine Forests. Southern Journal of Applied Forestry, 2013, 37, 13-17.	0.3	7
80	Variation in Bark Allocation and Rugosity Across Seven Co-occurring Southeastern US Tree Species. Frontiers in Forests and Global Change, 2021, 4, .	2.3	7
81	Allometry of the pyrophytic Aristida in fireâ€maintained longleaf pineâ€“wiregrass ecosystems. American Journal of Botany, 2019, 106, 18-28.	1.7	6
82	Early-Stage Thinning for the Restoration of Young Redwoodâ€”Douglas-Fir Forests in Northern Coastal California, USA. ISRN Ecology, 2012, 2012, 1-9.	1.0	4
83	Understanding flammability and bark thickness in the genus Pinus using a phylogenetic approach. Scientific Reports, 2022, 12, 7384.	3.3	4
84	Resilience of Oregon white oak to reintroduction of fire. Fire Ecology, 2019, 15, .	3.0	3
85	Invigorating Prescribed Fire Science Through Improved Reporting Practices. Frontiers in Forests and Global Change, 2021, 4, .	2.3	3
86	Evidence of local adaptation in litter flammability of a widespread fireâ€adaptive pine. Journal of Ecology, 2022, 110, 1138-1148.	4.0	3
87	Post-fire Tree Mortality. , 2019, , 1-10.		1
88	Fire Ecology and Fire Management of Southeastern Coastal Plain Pine Ecosystems. Managing Forest Ecosystems, 2021, , 63-104.	0.9	0
89	Post-Fire Tree Mortality. , 2020, , 836-844.		0
90	Hidden Costs of Fire Exclusion in Longleaf Pine Forests Linked to Duff And Carbon Management. Journal of Forestry, 2022, 120, 504-512.	1.0	0