Virginia H Dale

List of Publications by Year
in descending order

159 papers	12,028 citations	50276 46 h-index	30087 103 g-index
162 all docs	162 docs citations	162 times ranked	12532 citing authors

#	Article	IF	Citations
1	Climate Change and Forest Disturbances. BioScience, 2001, 51, 723.	4.9	1,682
2	Indices of landscape pattern. Landscape Ecology, 1988, 1, 153-162.	4.2	1,293
3	Challenges in the development and use of ecological indicators. Ecological Indicators, 2001, 1, 3-10.	6.3	994
4	THE RELATIONSHIP BETWEEN LAND-USE CHANGE AND CLIMATE CHANGE. , 1997, 7, 753-769.		438
5	Measures of the effects of agricultural practices on ecosystem services. Ecological Economics, 2007, 64, 286-296.	5.7	379
6	Sustainable Biofuels Redux. Science, 2008, 322, 49-50.	12.6	379
7	Global Change in Forests: Responses of Species, Communities, and Biomes. BioScience, 2001, 51, 765.	4.9	371
8	Predicting across scales: Theory development and testing. Landscape Ecology, 1989, 3, 245-252.	4.2	313
9	Predicting the Spread of Disturbance across Heterogeneous Landscapes. Oikos, 1989, 55, 121.	2.7	278
10	Large, Infrequent Disturbances: Comparing Large, Infrequent Disturbances: What Have We Learned?. Ecosystems, 1998, 1, 493-496.	3.4	222
11	Relating Patterns of Land-Use Change to Faunal Biodiversity in the Central Amazon. Conservation Biology, 1994, 8, 1027-1036.	4.7	205
12	Indicators to support environmental sustainability of bioenergy systems. Ecological Indicators, 2011, 11, 1277-1289.	6.3	186
13	Evaluating agricultural trade-offs in the age of sustainable development. Agricultural Systems, 2018, 163, 73-88.	6.1	184
14	The interplay between climate change, forests, and disturbances. Science of the Total Environment, 2000, 262, 201-204.	8.0	181
15	Fires, Hurricanes, and Volcanoes: Comparing Large Disturbances. BioScience, 1997, 47, 758-768.	4.9	169
16	Indicators for assessing socioeconomic sustainability of bioenergy systems: A short list of practical measures. Ecological Indicators, 2013, 26, 87-102.	6.3	166
17	The land useâ€“climate changeâ€“energy nexus. Landscape Ecology, 2011, 26, 755-773.	4.2	161
18	Quantifying scale-dependent effects of animal movement with simple percolation models. Landscape Ecology, 1989, 3, 217-227.	4.2	147

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19	Take a Closer Look: Biofuels Can Support Environmental, Economic and Social Goals. Environmental Science & Technology, 2014, 48, 7200-7203.	10.0	120
20	The role of bioenergy in a climate-changing world. Environmental Development, 2017, 23, 57-64.	4.1	120
21	Normalization in sustainability assessment: Methods and implications. Ecological Economics, 2016, 130, 195-208.	5.7	118
22	Ecosystem Management in the Context of Large, Infrequent Disturbances. Ecosystems, 1998, 1, 546-557.	3.4	115
23	Environmental Indicators of Biofuel Sustainability: What About Context?. Environmental Management, 2013, 51, 291-306.	2.7	112
24	Reconciling food security and bioenergy: priorities for action. GCB Bioenergy, 2017, 9, 557-576.	5.6	112
25	Modeling Effects of Land Management in the Brazilian Amazonian Settlement of Rondonia. Conservation Biology, 1994, 8, 196-206.	4.7	111
26	Interactions among bioenergy feedstock choices, landscape dynamics, and land use. , 2011, 21, 1039-1054.		110
27	Successional changes in nitrogen availability as a potential factor contributing to spruce declines in boreal North America. Canadian Journal of Forest Research, 1987, 17, 1394-1400.	1.7	108
28	A comparison of tree growth models. Ecological Modelling, 1985, 29, 145-169.	2.5	96
29	How Increasing CO2and Climate Change Affect Forests. BioScience, 1990, 40, 575-587.	4.9	96
30	Communicating Ecological Indicators to Decision Makers and the Public. Ecology and Society, 2001, 5, .	0.9	95
31	ECOLOGICAL SUPPORT FOR RURAL LAND-USE PLANNING. , 2005, 15, 1906-1914.		79
32	Applications of aggregation theory to sustainability assessment. Ecological Economics, 2015, 114, 117-127.	5.7	71
33	Wind dispersed seeds and plant recovery on the Mount St. Helens debris avalanche. Canadian Journal of Botany, 1989, 67, 1434-1441.	1.1	64
34	Effects of forest fragmentation on neotropical fauna: current research and data availability. Environmental Reviews, 1995, 3, 191-211.	4.5	63
35	Multimetric spatial optimization of switchgrass plantings across a watershed. Biofuels, Bioproducts and Biorefining, 2012, 6, 58-72.	3.7	63
36	Incorporating bioenergy into sustainable landscape designs. Renewable and Sustainable Energy Reviews, 2016, 56, 1158-1171.	16.4	63

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37	Understory vegetation indicators of anthropogenic disturbance in longleaf pine forests at Fort Benning, Georgia, USA. Ecological Indicators, 2002, 1, 155-170.	6.3	62
38	Biomass equations for shrub species of Tamaulipan thornscrub of North-eastern Mexico. Journal of Arid Environments, 2004, 59, 657-674.	2.4	62
39	Issues in using landscape indicators to assess land changes. Ecological Indicators, 2013, 28, 91-99.	6.3	60
40	Patterns and impacts of deforestation in RondÃ´nia, Brazil. Landscape and Urban Planning, 1997, 38, 149-157.	7.5	59
41	Enhancing the ecological risk assessment process. Integrated Environmental Assessment and Management, 2008, 4, 306-313.	2.9	59
42	ECOLOGICAL IMPACTS AND MITIGATION STRATEGIES FOR RURAL LAND MANAGEMENT. , 2005, 15, 1879-1892.		57
43	ECOLOGY: 25 Years of Ecological Change at Mount St. Helens. Science, 2005, 308, 961-962.	12.6	57
44	Hypoxia in the Northern Gulf of Mexico. Springer Series on Environmental Management, 2010, , .	0.3	57
45	Plant reestablishment 15 years after the debris avalanche at Mount St. Helens, Washington. Science of the Total Environment, 2003, 313, 101-113.	8.0	56
46	A landscape perspective on sustainability of agricultural systems. Landscape Ecology, 2013, 28, 1111-1123.	4.2	56
47	Landscape patterns as indicators of ecological change at Fort Benning, Georgia, USA. Landscape and Urban Planning, 2007, 79, 137-149.	7.5	55
48	Status and prospects for renewable energy using wood pellets from the southeastern United States. GCB Bioenergy, 2017, 9, 1296-1305.	5.6	52
49	Farming in RondÃ´nia. Resources and Energy Economics, 1995, 17, 155-188.	2.5	50
50	Simulation games that integrate research, entertainment, and learning around ecosystem services. Ecosystem Services, 2014, 10, 195-201.	5.4	50
51	Biofuels: Effects on Land and Fire. Science, 2008, 321, 199-201.	12.6	48
52	A framework for selecting indicators of bioenergy sustainability. Biofuels, Bioproducts and Biorefining, 2015, 9, 435-446.	3.7	47
53	Assessing Land-Use Impacts on Natural Resources. Environmental Management, 1998, 22, 203-211.	2.7	46
54	Potential effects of climate change on stand development in the Pacific Northwest. Canadian Journal of Forest Research, 1989, 19, 1581-1590.	1.7	45

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55	Assessing impacts of climate change on forests: The state of biological modeling. Climatic Change, 1994, 28, 65-90.	3.6	45
56	Using satellite remote sensing analysis to evaluate a socio-economic and ecological model of deforestation in RondÃ´nia, Brazil. International Journal of Remote Sensing, 1996, 17, 3233-3255.	2.9	45
57	Effect of military training on indicators of soil quality at Fort Benning, Georgia. Ecological Indicators, 2003, 3, 171-179.	6.3	42
58	Engaging stakeholders to assess landscape sustainability. Landscape Ecology, 2019, 34, 1199-1218.	4.2	41
59	Opportunities and attitudes of private forest landowners in supplying woody biomass for renewable energy. Renewable and Sustainable Energy Reviews, 2019, 113, 109205.	16.4	40
60	Modeling the impacts of wood pellet demand on forest dynamics in southeastern United States. Biofuels, Bioproducts and Biorefining, 2017, 11, 1007-1029.	3.7	39
61	State of apps targeting management for sustainability of agricultural landscapes. A review. Agronomy for Sustainable Development, 2019, 39, 1.	5.3	39
62	Bioenergy Sustainability at the Regional Scale. Ecology and Society, 2010, 15, .	2.3	38
63	How is wood-based pellet production affecting forest conditions in the southeastern United States?. Forest Ecology and Management, 2017, 396, 143-149.	3.2	38
64	Modeling transient response of forests to climate change. Science of the Total Environment, 2010, 408, 1888-1901.	8.0	37
65	Socioeconomic indicators for sustainable design and commercial development of algal biofuel systems. GCB Bioenergy, 2017, 9, 1005-1023.	5.6	37
66	Modeling the long-term effects of disturbances on forest succession, Olympic Peninsula, Washington. Canadian Journal of Forest Research, 1986, 16, 56-67.	1.7	36
67	A causal analysis framework for land-use change and the potential role of bioenergy policy. Land Use Policy, 2016, 59, 516-527.	5.6	36
68	Ecological Principles and Guidelines for Managing the Use of Land. , 2000, 10, 639.		35
69	Environmental indicators for sustainable production of algal biofuels. Ecological Indicators, 2015, 49, 1-13.	6.3	35
70	Wood pellets, what else? Greenhouse gas parity times of European electricity from wood pellets produced in the southâ€eastern United States using different softwood feedstocks. GCB Bioenergy, 2017, 9, 1406-1422.	5.6	33
71	Modeling Landscape Disturbance. Ecological Studies, 1991, , 323-351.	1.2	32
72	Scientific analysis is essential to assess biofuel policy effects: In response to the paper by Kim and Dale on â€œIndirect land-use change for biofuels: Testing predictions and improving analytical methodologiesâ€. Biomass and Bioenergy, 2011, 35, 4488-4491.	5.7	31

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73	Thinking Big and Thinking Small: A Conceptual Framework for Best Practices in Community and Stakeholder Engagement in Food, Energy, and Water Systems. Sustainability, 2021, 13, 2160.	3.2	31
74	Using sensitivity and uncertainty analyses to improve predictions of broad-scale forest development. Ecological Modelling, 1988, 42, 165-178.	2.5	29
75	Effects of modern volcanic eruptions on vegetation. , 2005, , 227-249.		28
76	Assessing sustainability in agricultural landscapes: a review of approaches^{1,2}. Environmental Reviews, 2018, 26, 299-315.	4.5	28
77	Multifunctional perennial production systems for bioenergy: performance and progress. Wiley Interdisciplinary Reviews: Energy and Environment, 2020, 9, e375.	4.1	26
78	Selecting indicators of soil, microbial, and plant conditions to understand ecological changes in Georgia pine forests. Ecological Indicators, 2008, 8, 818-827.	6.3	25
79	Comparing Scales of Environmental Effects from Gasoline and Ethanol Production. Environmental Management, 2013, 51, 307-338.	2.7	25
80	Cultivated hay and fallow/idle cropland confound analysis of grassland conversion in the Western Corn Belt. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2863.	7.1	25
81	Transatlantic wood pellet trade demonstrates telecoupled benefits. Ecology and Society, 2018, 23, .	2.3	25
82	The Role of Soil Classification in Geographic Information System Modeling of Habitat Pattern: Threatened Calcareous Ecosystems. Ecosystems, 1999, 2, 524-538.	3.4	24
83	Good policy follows good science: using criteria and indicators for assessing sustainable biofuel production. Ecotoxicology, 2009, 18, 1-4.	2.4	24
84	Estimating stand biomass in the Tamaulipan thornscrub of northeastern Mexico. Annals of Forest Science, 2002, 59, 813-821.	2.0	23
85	Habitat Modeling Within a Regional Context: An Example Using Gopher Tortoise. American Midland Naturalist, 2006, 155, 335-351.	0.4	22
86	A Percolation Model of Ecological Flows. Ecological Studies, 1992, , 259-269.	1.2	22
87	Estimating baseline carbon emissions for the Eastern Panama Canal watershed. Mitigation and Adaptation Strategies for Global Change, 2003, 8, 323-348.	2.1	21
88	Bridging biofuel sustainability indicators and ecosystem services through stakeholder engagement. Biomass and Bioenergy, 2018, 114, 143-156.	5.7	21
89	Experimenting with multi-attribute utility survey methods in a multi-dimensional valuation problem. Ecological Economics, 2001, 36, 87-108.	5.7	20
90	Predicting across scales comments of the guest editors of Landscape Ecology. Landscape Ecology, 1989, 3, 147-151.	4.2	19

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91	Assessing multimetric aspects of sustainability: Application to a bioenergy crop production system in East Tennessee. Ecosphere, 2016, 7, e01206.	2.2	19
92	Communicating About Bioenergy Sustainability. Environmental Management, 2013, 51, 279-290.	2.7	18
93	Effects of Production of Woody Pellets in the Southeastern United States on the Sustainable Development Goals. Sustainability, 2021, 13, 821.	3.2	18
94	Applying Ecological Guidelines for Land Management to Farming in the Brazilian Amazon. , 2001, , 213-225.		18
95	Elevation-mediated effects of balsam woolly adelgid on southern Appalachian spruceâ€“fir forests. Canadian Journal of Forest Research, 1991, 21, 1639-1648.	1.7	17
96	Vehicle impacts on the environment at different spatial scales: observations in west central Georgia, USA. Journal of Terramechanics, 2005, 42, 383-402.	3.1	17
97	Time-Series Analysis of Land Cover Using Landscape Metrics. GIScience and Remote Sensing, 2005, 42, 200-223.	5.9	16
98	The long-term influence of past land use on the Walker Branch forest. Landscape Ecology, 1990, 4, 211-224.	4.2	15
99	Estimating the effects of land-use change on global atmospheric CO2 concentrations. Canadian Journal of Forest Research, 1991, 21, 84-90.	1.7	15
100	Effects of climate change, land-use change, and invasive species on the ecology of the Cumberland forests. Canadian Journal of Forest Research, 2009, 39, 467-480.	1.7	15
101	Ecological objectives can be achieved with wood-derived bioenergy. Frontiers in Ecology and the Environment, 2015, 13, 297-299.	4.0	14
102	Biodiversity in US Forests under Global Climate Change. Ecosystems, 2001, 4, 161-163.	3.4	13
103	Risks to global biodiversity fromâ€‰fossilâ€fuel production exceed those from biofuel production. Biofuels, Bioproducts and Biorefining, 2015, 9, 177-189.	3.7	13
104	Foodâ€“Energyâ€“Water Crises in the United States and China: Commonalities and Asynchronous Experiences Support Integration of Global Efforts. Environmental Science & Technology, 2021, 55, 1446-1455.	10.0	13
105	Assessing Impacts of Climate Change on Forests: The State of Biological Modeling. , 1994, , 65-90.		13
106	Temporal patterning of blooming phenology in Pedicularis on Mount Rainier. Canadian Journal of Botany, 1983, 61, 786-791.	1.1	12
107	A Framework for Developing Management Goals for Species at Risk with Examples from Military Installations in the United States. Environmental Management, 2009, 44, 1163-1179.	2.7	12
108	Reference scenarios for evaluating wood pellet production in the Southeastern United States. Wiley Interdisciplinary Reviews: Energy and Environment, 2017, 6, e259.	4.1	12

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109	Enhance indigenous agricultural systems to reduce migration. Nature Sustainability, 2020, 3, 74-76.	23.7	12
110	Stability analysis of the time delay in a host-parasitoid model. Journal of Theoretical Biology, 1980, 83, 43-62.	1.7	10
111	Rapid appraisal using landscape sustainability indicators for Yaqui Valley, Mexico. Environmental and Sustainability Indicators, 2020, 6, 100029.	3.3	9
112	Climate Change and the Future of Natural Disturbances in the Central Hardwood Region. Managing Forest Ecosystems, 2016, , 355-369.	0.9	9
113	Sampling ecological information: Choice of sample size. Ecological Modelling, 1991, 57, 1-10.	2.5	8
114	Opportunities for Using Ecological Models for Resource Management. , 2003, , 3-19.		8
115	Bioregional planning in central Georgia, USA. Futures, 2006, 38, 471-489.	2.5	8
116	A landscape-transition matrix approach for land management. , 2002, , 265-293.		7
117	Interactive posters: A valuable means of enhancing communication and learning about productive paths toward sustainable bioenergy. Biofuels, Bioproducts and Biorefining, 2017, 11, 243-246.	3.7	7
118	Unnatural hypoxic regimes. Ecosphere, 2018, 9, e02408.	2.2	7
119	Broad-Scale Ecological Science and Its Application. , 2002, , 34-52.		7
120	Enacting boundaries or building bridges? Language and engagement in food-energy-water systems science. Socio-Ecological Practice Research, 0, , .	1.9	7
121	Planning Transboundary Ecological Risk Assessments at Military Installations. Human and Ecological Risk Assessment (HERA), 2005, 11, 1193-1215.	3.4	6
122	Resilience Lessons From the Southeast United States Woody Pellet Supply Chain Response to the COVID-19 Pandemicâ€. Frontiers in Forests and Global Change, 2021, 4, .	2.3	6
123	Tools to Characterize the Environmental Setting. , 1999, , 62-93.		6
124	The role of stand history in assessing forest impacts. Environmental Management, 1987, 11, 351-357.	2.7	5
125	Comparing current and desired ecological conditions at a landscape scale in the Cumberland Plateau and Mountains, USA. Journal of Land Use Science, 2006, 1, 169-189.	2.2	5
126	Experimental response of understory plants to mechanized disturbance in an oak-pine forest. Ecological Indicators, 2012, 15, 181-187.	6.3	5

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127	Environmental and Socioeconomic Indicators for Bioenergy Sustainability as Applied toEucalyptus. International Journal of Forestry Research, 2013, 2013, 1-10.	0.8	5
128	Risk and resilience in an uncertain world. Frontiers in Ecology and the Environment, 2018, 16, 3-3.	4.0	5
129	Towards more sustainable agricultural landscapes: Lessons from Northwestern Mexico and the Western Highlands of Guatemala. Futures, 2020, 124, 102647.	2.5	5
130	Managing Forests as Ecosystems: A Success Story or a Challenge Ahead?. , 1998, , 50-68.		5
131	Ecological Guidelines for Land Use and Management. , 2001, , 3-33.		4
132	Evolving Approaches and Technologies to Enhance the Role of Ecological Modeling in Decision Making. , 2003, , 135-164.		3
133	The promise and the challenge of cooperative conservation. Frontiers in Ecology and the Environment, 2007, 5, 97-103.	4.0	3
134	Modeling the Effects of Land Use on the Quality of Water, Air, Noise, and Habitat for a Five-County Region in Georgia. Ecology and Society, 2008, 13, .	2.3	3
135	Modeling for Integrating Science and Management. , 2013, , 209-238.		3
136	Environmental Management: Past and Future Communications. Environmental Management, 2014, 54, 1-2.	2.7	3
137	Dataset of timberland variables used to assess forest conditions in two Southeastern United States×³ fuelsheds. Data in Brief, 2017, 13, 278-290.	1.0	3
138	Ecological Responses to the 1980 Eruption of Mount St. Helens: Key Lessons and Remaining Questions. , 2018, , 1-18.		3
139	Dataset of forest landowner survey to assess interest in supplying woody biomass in two Southeastern United States fuelsheds. Data in Brief, 2019, 27, 104674.	1.0	3
140	Science and Decisionmaking. , 2002, , 139-152.		2
141	Studying the Past for the Future: Managing Modern Biodiversity from Historic and Prehistoric Data. Human Organization, 2010, 69, 149-157.	0.3	2
142	Environmental Management Welcomes a New Face and Reinforces Its Focus on Science-Based Stewardship. Environmental Management, 2010, 45, 1243-1243.	2.7	2
143	Framework for assessing landâ€management effects on atâ€risk species: Example of SE USA wood pellet production and gopher tortoise (Gopherus polyphemus). Wiley Interdisciplinary Reviews: Energy and Environment, 2021, 10, e385.	4.1	2
144	Selecting a Suite of Ecological Indicators for Resource Management. , 2004, , 3-17.		2

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145	Environmental Management Fosters Enhanced Communication Through Cross-Disciplinary Studies. Environmental Management, 2002, 29, 1-2.	2.7	1
146	New Directions in Ecological Modeling for Resource Management. , 2003, , 310-320.		1
147	Plant Succession on the Mount St. Helens Debris-Avalanche Deposit and the Role of Non-native Species. , 2018, , 149-164.		1
148	Ecological careers at Federally Funded Research and Development Centers. Frontiers in Ecology and the Environment, 2018, 16, 605-606.	4.0	1
149	Perspectives on Land Use1. , 2000, 10, 671-672.		0
150	Barriers to the Use of Ecological Models in Decision Making. , 2003, , 109-122.		0
151	What in the World Is Worth Fighting for? Using Models for Environmental Security. , 2003, , 289-309.		0
152	Ensuring that Ecological Science Contributes to Natural Resource Management Using a Delphi-Derived Approach. , 2017, , 103-124.		0
153	<i>Emergent Properties of Sustainability: Using Agroecosystem Indicators within Spatial and Temporal Frameworks</i>. , 2018, , .		0
154	An indicator-based approach to sustainable management of natural resources. , 2021, , 255-280.		0
155	Resolution of Respect: Jerry S. Olson (1928â€“2021). Bulletin of the Ecological Society of America, 2021, 102, e01879.	0.2	0
156	Nutrient Fate, Transport, and Sources. Springer Series on Environmental Management, 2010, , 51-109.	0.3	0
157	Characterization of Hypoxia. Springer Series on Environmental Management, 2010, , 9-50.	0.3	0
158	Scientific Basis for Goals and Management Options. Springer Series on Environmental Management, 2010, , 111-204.	0.3	0
159	Integrated Forest Biorefineries: Sustainability Considerations for Forest Biomass Feedstocks. RSC Green Chemistry, 2012, , 80-97.	0.1	0