Herman H Shugart

List of Publications by Year
in descending order

228 papers	16,806 citations	19608 61 h-index	19690 117 g-index
239 all docs	239 docs citations	239 times ranked	14355 citing authors

#	Article	IF	Citations
1	Predicting soil mineralized nitrogen dynamics with fine root growth and microbial processes in temperate forests. Biogeochemistry, 2022, 158, 21.	1.7	1
2	Continentalâ€scale parameterization and prediction of leaf phenology for the North American forests. Global Ecology and Biogeography, 2022, 31, 1603-1615.	2.7	3
3	Forest Greening Increases Land Surface Albedo During the Main Growing Period Between 2002 and 2019 in China. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033582.	1.2	11
4	Improving intraâ€and interâ€annual GPP predictions by using individual tree inventories and leaf growth dynamics. Journal of Applied Ecology, 2021, 58, 2315-2328.	1.9	3
5	The Significance of Aggregation Methods in Functional Group Modeling. Forests, 2021, 12, 1560.	0.9	1
6	Changes of Light Components and Impacts on Interannual Variations of Photosynthesis in China Over 2000â€“2017 by Using a Twoâ€Leaf Light Use Efficiency Model. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005735.	1.3	8
7	Using climateâ€driven leaf phenology and growth to improve predictions of gross primary productivity in North American forests. Global Change Biology, 2020, 26, 6974-6988.	4.2	24
8	Reply to â€œHeight-related changes in forest composition explain increasing tree mortality with height during an extreme droughtâ€. Nature Communications, 2020, 11, 3401.	5.8	16
9	Recent wetting trend in China from 1982 to 2016 and the impacts of extreme El NiÃ±o events. International Journal of Climatology, 2020, 40, 5485-5501.	1.5	3
10	Gap models across micro- to mega-scales of time and space: examples of Tansleyâ€™s ecosystem concept. Forest Ecosystems, 2020, 7, .	1.3	12
11	Importance of tree- and species-level interactions with wildfire, climate, and soils in interior Alaska: Implications for forest change under a warming climate. Ecological Modelling, 2019, 409, 108765.	1.2	39
12	Complexities between plants and the atmosphere. Nature Geoscience, 2019, 12, 693-694.	5.4	9
13	Tree height explains mortality risk during an intense drought. Nature Communications, 2019, 10, 4385.	5.8	191
14	Redefining temperate forest responses to climate and disturbance in the eastern United States: New insights at the mesoscale. Global Ecology and Biogeography, 2019, 28, 557-575.	2.7	28
15	Multiâ€model analysis of climate impacts on plant photosynthesis in China during 2000â€“2015. International Journal of Climatology, 2019, 39, 5539-5555.	1.5	6
16	Effects of Light Component and Water Stress on Photosynthesis of Amazon Rainforests During the 2015/2016 El NiÃ±o Drought. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1574-1590.	1.3	11
17	Building bottomâ€up aggregateâ€based models (ABMs) in soil systems with a view of aggregates as biogeochemical reactors. Global Change Biology, 2019, 25, e6-e8.	4.2	10
18	The Relevance of Forest Structure for Biomass and Productivity in Temperate Forests: New Perspectives for Remote Sensing. Surveys in Geophysics, 2019, 40, 709-734.	2.1	47

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19	Soil aggregates as biogeochemical reactors and implications for soilâ€“atmosphere exchange of greenhouse gasesâ€”A concept. Global Change Biology, 2019, 25, 373-385.	4.2	76
20	Gap models and their individual-based relatives in the assessment of the consequences of global change. Environmental Research Letters, 2018, 13, 033001.	2.2	56
21	Biodiversity matters in feedbacks between climate change and air quality: a study using an individualâ€based model. Ecological Applications, 2018, 28, 1223-1231.	1.8	16
22	Evaluating the impacts of slope aspect on forest dynamic succession in Northwest China based on FAREAST model. Environmental Research Letters, 2018, 13, 034027.	2.2	27
23	Modeling the interactive effects of spruce beetle infestation and climate on subalpine vegetation. Ecosphere, 2018, 9, e02437.	1.0	12
24	Terrestrial LiDAR-derived non-destructive woody biomass estimates for 10 hardwood species in Virginia. Data in Brief, 2018, 19, 1560-1569.	0.5	5
25	Assessing terrestrial laser scanning for developing non-destructive biomass allometry. Forest Ecology and Management, 2018, 427, 217-229.	1.4	69
26	Simulating Forest Dynamics of Lowland Rainforests in Eastern Madagascar. Forests, 2018, 9, 214.	0.9	4
27	Improved Biomass Calibration and Validation With Terrestrial LiDAR: Implications for Future LiDAR and SAR Missions. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3527-3537.	2.3	41
28	An individual-based model of forest volatile organic compound emissionsâ€”UVAFME-VOC v1.0. Ecological Modelling, 2017, 350, 69-78.	1.2	20
29	Evaluating carbon fluxes of global forest ecosystems by using an individual tree-based model FORCCHN. Science of the Total Environment, 2017, 586, 939-951.	3.9	25
30	Shifts in biomass and productivity for a subtropical dry forest in response to simulated elevated hurricane disturbances. Environmental Research Letters, 2017, 12, 025007.	2.2	18
31	Unexpected Evergreen Expansion in the Siberian Forest under Warming Hiatus. Journal of Climate, 2017, 30, 5021-5039.	1.2	18
32	Validation and application of a forest gap model to the southern Rocky Mountains. Ecological Modelling, 2017, 351, 109-128.	1.2	14
33	Model sensitivity to spatial resolution and explicit light representation for simulation of boreal forests in complex terrain. Ecological Modelling, 2017, 352, 90-107.	1.2	8
34	Sensitivity of global greenhouse gas budgets to tropospheric ozone pollution mediated by the biosphere. Environmental Research Letters, 2017, 12, 084001.	2.2	13
35	Non-destructive aboveground biomass estimation of coniferous trees using terrestrial LiDAR. Remote Sensing of Environment, 2017, 200, 31-42.	4.6	115
36	Simulation of the Unexpected Photosynthetic Seasonality in Amazonian Evergreen Forests by Using an Improved Diffuse Fractionâ€Based Light Use Efficiency Model. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 3014-3030.	1.3	14

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37	Spectral evidence of early-stage spruce beetle infestation in Engelmann spruce. Forest Ecology and Management, 2017, 384, 347-357.	1.4	37
38	A Novel Diffuse Fractionâ€Based Twoâ€Leaf Light Use Efficiency Model: An Application Quantifying Photosynthetic Seasonality across 20 AmeriFlux Flux Tower Sites. Journal of Advances in Modeling Earth Systems, 2017, 9, 2317-2332.	1.3	30
39	Fire disturbance and climate change: implications for Russian forests. Environmental Research Letters, 2017, 12, 035003.	2.2	43
40	Northern Eurasia Future Initiative (NEFI): facing the challenges and pathways of global change in the twenty-first century. Progress in Earth and Planetary Science, 2017, 4, .	1.1	69
41	Simulating Changes in Fires and Ecology of the 21st Century Eurasian Boreal Forests of Siberia. Forests, 2017, 8, 49.	0.9	11
42	Assessing spatiotemporal variation of drought in China and its impact on agriculture during 1982â€“2011 by using PDSI indices and agriculture drought survey data. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2283-2298.	1.2	63
43	Forests and ozone: productivity, carbon storage and feedbacks. Scientific Reports, 2016, 6, 22133.	1.6	35
44	Model-based Evidence for Cyclic Phenomena in a High-Elevation, Two-Species Forest. Ecosystems, 2016, 19, 437-449.	1.6	4
45	SIBBORK: A new spatially-explicit gap model for boreal forest. Ecological Modelling, 2016, 320, 182-196.	1.2	17
46	Species richness loss after nutrient addition as affected by N:C ratios and phytohormone GA₃contents in an alpine meadow community. Journal of Plant Ecology, 2016, 9, 201-211.	1.2	31
47	Computer and remoteâ€sensing infrastructure to enhance largeâ€scale testing of individualâ€based forest models. Frontiers in Ecology and the Environment, 2015, 13, 503-511.	1.9	64
48	3D simulation of boreal forests: structure and dynamics in complex terrain and in a changing climate. Environmental Research Letters, 2015, 10, 105006.	2.2	7
49	Carbon storage in oldâ€growth forests of the Midâ€Atlantic: toward better understanding the eastern forest carbon sink. Ecology, 2015, 96, 311-317.	1.5	73
50	Improved global simulations of gross primary product based on a new definition of water stress factor and a separate treatment of C3 and C4 plants. Ecological Modelling, 2015, 297, 42-59.	1.2	53
51	Forest forecasting with vegetation models across Russia. Canadian Journal of Forest Research, 2015, 45, 175-184.	0.8	60
52	Significant Theories, Principles, and Approaches that Emerged Within Landscape Ecology During the Previous Thirty Years. , 2015, , 103-123.		1
53	An analysis of structure: biomass structure relationships for characteristic species of the western <scp>K</scp>alahari, <scp>B</scp>otswana. African Journal of Ecology, 2014, 52, 20-29.	0.4	17
54	Testing individual-based models of forest dynamics: Issues and an example from the boreal forests of Russia. Ecological Modelling, 2014, 293, 102-110.	1.2	44

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55	Simulating the impacts of reduced rainfall on carbon stocks and net ecosystem exchange in a tropical forest. Environmental Modelling and Software, 2014, 52, 200-206.	1.9	39
56	Development of a remotely sensing seasonal vegetationâ€based Palmer Drought Severity Index and its application of global drought monitoring over 1982â€“2011. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9419-9440.	1.2	20
57	Coyote‹i›(Canis latrans)‹/i›mammalian prey diet shifts in response to seasonal vegetation change. Isotopes in Environmental and Health Studies, 2014, 50, 343-360.	0.5	11
58	Boreal forest sensitivity to increased temperatures at multiple successional stages. Annals of Forest Science, 2013, 70, 299-308.	0.8	11
59	Terrestrial Ecosystems and Their Change. Springer Environmental Science and Engineering, 2013, , 171-249.	0.1	22
60	Human Dimensions of Environmental Change in Siberia. Springer Environmental Science and Engineering, 2013, , 251-302.	0.1	9
61	Diagnostic analysis of interannual variation of global land evapotranspiration over 1982â€“2011: Assessing the impact of ENSO. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8969-8983.	1.2	35
62	Ecological Succession and Community Dynamics. , 2013, , 31-57.		2
63	â€˜Integronstersâ€™, integral and integrated modeling. Environmental Modelling and Software, 2013, 39, 149-158.	1.9	176
64	Sensitivity of Russian forest timber harvest and carbon storage to temperature increase. Forestry, 2013, 86, 283-293.	1.2	20
65	Assessment of carbon stores in tree biomass for two management scenarios in Russia. Environmental Research Letters, 2013, 8, 045019.	2.2	32
66	Forest biomass and the science of inventory from space. Nature Climate Change, 2012, 2, 826-827.	8.1	18
67	Reconstructing disturbance history using satellite-based assessment of the distribution of land cover in the Russian Far East. Remote Sensing of Environment, 2012, 118, 241-248.	4.6	19
68	Land-cover change and human population trends in the greater Serengeti ecosystem from 1984â€“2003. Biological Conservation, 2012, 147, 255-263.	1.9	100
69	Gap model development, validation, and application to succession of secondary subtropical dry forests of Puerto Rico. Ecological Modelling, 2012, 233, 70-82.	1.2	23
70	Measurement and Monitoring of Barrier Island Forest Sensitivity to Ecohydrological Change Using LIDAR Remote Sensing. Journal of Coastal Research, 2011, 28, 793.	0.1	3
71	Characterizing 3D vegetation structure from space: Mission requirements. Remote Sensing of Environment, 2011, 115, 2753-2775.	4.6	228
72	The BIOMASS mission: Mapping global forest biomass to better understand the terrestrial carbon cycle. Remote Sensing of Environment, 2011, 115, 2850-2860.	4.6	582

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73	Characterization of Community Composition and Forest Structure in a Madagascar Lowland Rainforest. Tropical Conservation Science, 2011, 4, 428-444.	0.6	17
74	Sensitivity of Siberian larch forests to climate change. Global Change Biology, 2011, 17, 2370-2384.	4.2	109
75	Predictive distribution modeling with enhanced remote sensing and multiple validation techniques to support mountain bongo antelope recovery. Animal Conservation, 2011, 14, 521-532.	1.5	10
76	Modeling future effects of climate change on tropical forests. , 2011, , 411-429.		1
77	Retrospective assessment of dryland soil stability in relation to grazing and climate change. Environmental Monitoring and Assessment, 2010, 160, 101-121.	1.3	12
78	Remote sensing of structural complexity indices for habitat and species distribution modeling. Remote Sensing of Environment, 2010, 114, 792-804.	4.6	53
79	Introduction to Special Feature on Catastrophic Thresholds, Perspectives, Definitions, and Applications. Ecology and Society, 2010, 15, .	1.0	8
80	An air relativeâ€humidityâ€based evapotranspiration model from eddy covariance data. Journal of Geophysical Research, 2010, 115, .	3.3	33
81	Linking models and data on vegetation structure. Journal of Geophysical Research, 2010, 115, .	3.3	61
82	Importance of structure and its measurement in quantifying function of forest ecosystems. Journal of Geophysical Research, 2010, 115, .	3.3	142
83	Nutrient limitations on aboveground grass production in four savanna types along the Kalahari Transect. Journal of Arid Environments, 2010, 74, 284-290.	1.2	26
84	Catastrophic Thresholds: A Synthesis of Concepts, Perspectives, and Applications. Ecology and Society, 2010, 15, .	1.0	46
85	Evaluating the sensitivity of Eurasian forest biomass to climate change using a dynamic vegetation model. Environmental Research Letters, 2009, 4, 045024.	2.2	29
86	Scale dependence in quantification of land-cover and biomass change over Siberian boreal forest landscapes. Landscape Ecology, 2009, 24, 1299-1313.	1.9	13
87	Simulating the effects of climate changes on Eastern Eurasia forests. Climatic Change, 2009, 95, 341-361.	1.7	21
88	The influence of rainfall, vegetation, elephants and people on fire frequency of miombo woodlands, Northern Mozambique. , 2009, , .		2
89	Forest disturbance and recovery: A general review in the context of spaceborne remote sensing of impacts on aboveground biomass and canopy structure. Journal of Geophysical Research, 2009, 114, .	3.3	281
90	The Northern Eurasia Earth Science Partnership: An Example of Science Applied to Societal Needs. Bulletin of the American Meteorological Society, 2009, 90, 671-688.	1.7	44

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91	Habitat selection by a rare forest antelope: A multi-scale approach combining field data and imagery from three sensors. Remote Sensing of Environment, 2008, 112, 2033-2050.	4.6	46
92	Aboveground biomass and leaf area index (LAI) mapping for Niassa Reserve, northern Mozambique. Journal of Geophysical Research, 2008, 113, .	3.3	42
93	Landscapeâ€scale extent, height, biomass, and carbon estimation of Mozambique's mangrove forests with Landsat ETM+ and Shuttle Radar Topography Mission elevation data. Journal of Geophysical Research, 2008, 113, .	3.3	114
94	Nutrient limitations on understory grass productivity and carbon assimilation in an African woodland savanna. Journal of Arid Environments, 2008, 72, 1423-1430.	1.2	30
95	The effects of fire and elephants on species composition and structure of the Niassa Reserve, northern Mozambique. Forest Ecology and Management, 2008, 255, 1626-1636.	1.4	51
96	Remote sensing of boreal forest biophysical and inventory parameters: a review. Canadian Journal of Remote Sensing, 2008, 34, S286-S313.	1.1	24
97	Age, and radial growth dynamics of Pterocarpus angolensis in southern Africa. Forest Ecology and Management, 2007, 244, 24-31.	1.4	54
98	Climate-induced boreal forest change: Predictions versus current observations. Global and Planetary Change, 2007, 56, 274-296.	1.6	619
99	The Multifaceted Nature of Biodiversity Conservation: Reply to Leroux and Schmiegelow. Conservation Biology, 2007, 21, 269-270.	2.4	1
100	A Temporally Explicit Production Efficiency Model for Fuel Load Allocation in Southern Africa. Ecosystems, 2007, 10, 1116-1132.	1.6	18
101	Modeling future effects of climate change on tropical forests. , 2007, , 351-366.		2
102	Global tests of biodiversity concordance and the importance of endemism. Nature, 2006, 440, 212-214.	13.7	433
103	Satellite-Derived Mean Fire Return Intervals As Indicators Of Change In Siberia (1995â€“2002). Mitigation and Adaptation Strategies for Global Change, 2006, 11, 75-96.	1.0	18
104	Tree-ring reconstructed rainfall variability in Zimbabwe. Climate Dynamics, 2006, 26, 677-685.	1.7	106
105	PATTERN AND PROCESS IN SAVANNA ECOSYSTEMS. , 2006, , 259-281.		8
106	Analysis of vegetation distribution in Interior Alaska and sensitivity to climate change using a logistic regression approach. Journal of Biogeography, 2005, 32, 863-878.	1.4	82
107	FAREAST: a forest gap model to simulate dynamics and patterns of eastern Eurasian forests. Journal of Biogeography, 2005, 32, 1641-1658.	1.4	102
108	Spatial pattern and process in forest stands within the Virginia piedmont. Journal of Vegetation Science, 2005, 16, 37-48.	1.1	56

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109	Tree Canopy Effects on Simulated Water Stress in Southern African Savannas. Ecosystems, 2005, 8, 17-32.	1.6	34
110	Using MODIS to evaluate heterogeneity of biomass burning in southern African savannahs: a case study in Etosha. International Journal of Remote Sensing, 2005, 26, 4219-4237.	1.3	26
111	Remote Sensing Detection of High Elevation Vegetation Change. Advances in Global Change Research, 2005, , 457-465.	1.6	3
112	Spatial pattern and process in forest stands within the Virginia piedmont. , 2005, 16, 37.		7
113	Forest History of James Madison's Montpelier Plantation. Journal of the Torrey Botanical Society, 2004, 131, 204.	0.1	10
114	The SAFARI 2000 - Kalahari Transect Wet Season Campaign of year 2000. Global Change Biology, 2004, 10, 273-280.	4.2	34
115	Nitrogen cycling in the soil-plant system along a precipitation gradient in the Kalahari sands. Global Change Biology, 2004, 10, 359-373.	4.2	234
116	Relationship between small-scale structural variability and simulated vegetation productivity across a regional moisture gradient in southern Africa. Global Change Biology, 2004, 10, 374-382.	4.2	24
117	Simulated productivity of heterogeneous patches in Southern African savanna landscapes using a canopy productivity model. Landscape Ecology, 2004, 19, 401-415.	1.9	24
118	Estimating fire emissions and disparities in boreal Siberia (1998â€“2002). Journal of Geophysical Research, 2004, 109, .	3.3	165
119	AVHRR-derived fire frequency, distribution and area burned in Siberia. International Journal of Remote Sensing, 2004, 25, 1939-1960.	1.3	74
120	Regional fuel load for two climatically contrasting years in southern Africa. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	32
121	Release of gaseous and particulate carbonaceous compounds from biomass burning during the SAFARI 2000 dry season field campaign. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	10
122	Tree spacing along the Kalahari transect in southern Africa. Journal of Arid Environments, 2003, 54, 281-296.	1.2	57
123	Carbon and nitrogen in the soilâ€“plant system along rainfall and land-use gradients in southern Africa. Journal of Arid Environments, 2003, 54, 327-343.	1.2	36
124	SAFARI-2000 characterization of fuels, fire behavior, combustion completeness, and emissions from experimental burns in infertile grass savannas in western Zambia. Journal of Arid Environments, 2003, 54, 381-394.	1.2	48
125	Nutrient cycling responses to fire frequency in the Kruger National Park (South Africa) as indicated by Stable Isotope analysis. Isotopes in Environmental and Health Studies, 2003, 39, 141-158.	0.5	57
126	Late-Eighteenth-Century Precipitation Reconstructions from James Madison's Montpelier Plantation. Bulletin of the American Meteorological Society, 2003, 84, 57-72.	1.7	29

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127	Increasing terrestrial carbon uptake from the 1980s to the 1990s with changes in climate and atmospheric CO2. Global Biogeochemical Cycles, 2002, 16, 17-1-17-11.	1.9	33
128	Trends in savanna structure and composition along an aridity gradient in the Kalahari. Journal of Vegetation Science, 2002, 13, 419-428.	1.1	155
129	Using Remote Sensing to Assess Russian Forest Fire Carbon Emissions. Climatic Change, 2002, 55, 235-249.	1.7	93
130	Cloud modulation of surface solar irradiance at a pasture site in southern Brazil. Agricultural and Forest Meteorology, 2001, 106, 117-129.	1.9	78
131	Dynamic responses of African ecosystem carbon cycling to climate change. Climate Research, 2001, 17, 183-193.	0.4	45
132	Detection of vegetation change using reconnaissance imagery. Global Change Biology, 2001, 7, 247-252.	4.2	30
133	Vegetation and Two Indices of Fire on the Delmarva Peninsula. Journal of the Torrey Botanical Society, 2000, 127, 44.	0.1	7
134	Importance of structure in the longer-term dynamics of landscapes. Journal of Geophysical Research, 2000, 105, 20065-20075.	3.3	19
135	Ecological Models of the Dynamics of Boreal Landscapes. Ecological Studies, 2000, , 389-405.	0.4	1
136	Ecosystem Modeling. , 2000, , 373-388.		5
137	The Holdridge life zones of the conterminous United States in relation to ecosystem mapping. Journal of Biogeography, 1999, 26, 1025-1038.	1.4	181
138	Surface Lidar Remote Sensing of Basal Area and Biomass in Deciduous Forests of Eastern Maryland, USA. Remote Sensing of Environment, 1999, 67, 83-98.	4.6	480
139	Insights into nitrogen and carbon dynamics of ectomycorrhizal and saprotrophic fungi from isotopic evidence. Oecologia, 1999, 118, 353.	0.9	291
140	Interpretation of nitrogen isotope signatures using the NIFTE model. Oecologia, 1999, 120, 405-415.	0.9	73
141	Micrometeorology, biophysical exchanges and NEE decomposition in a two-story boreal forest â€" development and test of an integrated model. Agricultural and Forest Meteorology, 1999, 94, 123-148.	1.9	78
142	Responses of net ecosystem exchanges of carbon dioxide to changes in cloudiness: Results from two North American deciduous forests. Journal of Geophysical Research, 1999, 104, 31421-31434.	3.3	222
143	Convective cloud downdrafts as the cause of large blowdowns in the Amazon rainforest. Meteorology and Atmospheric Physics, 1998, 67, 199-212.	0.9	58
144	Patterns in N dynamics and N isotopes during primary succession in Glacier Bay, Alaska. Chemical Geology, 1998, 152, 3-11.	1.4	76

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145	Soil moisture gradients and controls on a southern Appalachian hillslope from drought through recharge. Hydrology and Earth System Sciences, 1998, 2, 41-49.	1.9	74
146	Modelling the structural response of vegetation to climate change. , 1997, , 265-272.		1
147	Models of forest dynamics based on roles of tree species. Ecological Modelling, 1996, 87, 267-284.	1.2	55
148	Functional classifications of coastal barrier island vegetation. Journal of Vegetation Science, 1996, 7, 391-396.	1.1	42
149	Watershed base-cation cycle dynamics modeled over forest regrowth in a Central Appalachian ecosystem. Water, Air, and Soil Pollution, 1996, 89, 1-22.	1.1	12
150	A review of forest patch models and their application to global change research. Climatic Change, 1996, 34, 131.	1.7	91
151	A role-type model (rope) and its application in assessing climate change impacts on forest landscapes. Plant Ecology, 1995, 121, 135-146.	1.2	13
152	Simulation of transpiration sensitivity to environmental changes for shrub (Myrica cerifera) thickets on a Virginia barrier island. Ecological Modelling, 1995, 78, 235-248.	1.2	17
153	The advantage of long-distance clonal spreading in highly disturbed habitats. Evolutionary Ecology, 1994, 8, 172-187.	0.5	105
154	Forest textural properties from simulated microwave backscatter: The influence of spatial resolution. Remote Sensing of Environment, 1994, 47, 120-131.	4.6	25
155	Development of a simulation model of the forestâ€“tundra transition zone of northeastern Canada. Canadian Journal of Forest Research, 1994, 24, 697-706.	0.8	32
156	The potential response of global terrestrial carbon storage to a climate change. Water, Air, and Soil Pollution, 1993, 70, 629-642.	1.1	17
157	The transient response of terrestrial carbon storage to a perturbed climate. Nature, 1993, 361, 523-526.	13.7	240
158	Plant Functional Types. , 1993, , 272-292.		92
159	Forest ecosystem dynamics: linking forest succession, soil process and radiation models. Ecological Modelling, 1993, 65, 199-219.	1.2	52
160	Modeling vegetation structure-ecosystem process interactions across sites and ecosystems. Ecological Modelling, 1993, 67, 49-80.	1.2	66
161	A Physiology-Based Gap Model of Forest Dynamics. Ecology, 1993, 74, 792-797.	1.5	172
162	Global Change. , 1993, , 3-21.		5

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163	Multi-Level Interactions Arising from Herbivory: A Simulation Analysis of Deciduous Forests Utilizing Foret. , 1992, 2, 376-386.		12
164	The Potential for Application of Individual-Based Simulation Models for Assessing the Effects of Global Change. Annual Review of Ecology, Evolution, and Systematics, 1992, 23, 15-38.	6.7	139
165	Silvics of the circumpolar boreal forest tree species. , 1992, , 13-84.		91
166	The southern borealâ€“northern hardwood forest border. , 1992, , 216-240.		61
167	The response of terrestrial c storage to climate change: Modeling C dynamics at varying temporal and spatial scales. Water, Air, and Soil Pollution, 1992, 64, 307-326.	1.1	21
168	Sensitivity of terrestrial carbon storage to CO2-induced climate change: Comparison of four scenarios based on general circulation models. Climatic Change, 1992, 21, 367-384.	1.7	156
169	Global climatic change, hurricanes, and a tropical forest. Climatic Change, 1992, 22, 175-190.	1.7	53
170	Semivariograms from a forest transect gap model compared with remotely sensed data. Journal of Vegetation Science, 1992, 3, 521-526.	1.1	33
171	Satellite remote sensing of breeding habitat for an African weaver-bird. Landscape Ecology, 1992, 7, 87-99.	1.9	20
172	The Response of Terrestrial C Storage to Climate Change: Modeling C Dynamics at Varying Temporal and Spatial Scales. , 1992, , 307-326.		3
173	The transition between boreal forest and tundra. , 1992, , 196-215.		33
174	Individual-tree-based models of forest dynamics and their application in global change research. , 1992, , 313-333.		17
175	Population-level models of forest dynamics. , 1992, , 334-372.		6
176	A spatial model of long-term forest fire dynamics and its applications to forests in western Siberia. , 1992, , 373-403.		24
177	Computer Models of Forest Dynamics and Global Changes in the Environment. , 1992, , 91-102.		0
178	Modeling the Response of Terrestrial Vegetation to Climate Change in the Tropics. , 1992, , 253-268.		2
179	Long-Term Research at the Virginia Coast Reserve. BioScience, 1991, 41, 310-318.	2.2	112
180	Spatial applications of gap models. Forest Ecology and Management, 1991, 42, 95-110.	1.4	178

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181	State-of-the-Art of Models of Production-Decomposition Linkages in Conifer and Grassland Ecosystems. , 1991, 1, 118-138.		177
182	Evaluating performance of an Appalachian oak forest dynamics model. Plant Ecology, 1990, 86, 1-13.	1.2	20
183	The sensitivity of some high-latitude boreal forests to climatic parameters. Climatic Change, 1990, 16, 9-29.	1.7	138
184	Using ecosystem models to assess potential consequences of global climatic change. Trends in Ecology and Evolution, 1990, 5, 303-307.	4.2	50
185	OUTENIQUA â€" A computer model to simulate succession in the mixed evergreen forests of the southern Cape, South Africa. Landscape Ecology, 1989, 2, 255-267.	1.9	19
186	The Role of Ecological Models in Long-Term Ecological Studies. , 1989, , 90-109.		19
187	Environmental Factors and Ecological Processes in Boreal Forests. Annual Review of Ecology, Evolution, and Systematics, 1989, 20, 1-28.	6.7	643
188	Niche theory and community organization. Canadian Journal of Botany, 1988, 66, 2634-2639.	1.2	13
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