

Stith T Gower

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108
papers

12,504
citations

56
h-index

108
g-index

108
ext. papers

13,465
ext. citations

6.9
avg, IF

6.11
L-index

#	Paper	IF	Citations
108	Direct and Indirect Estimation of Leaf Area Index, fAPAR, and Net Primary Production of Terrestrial Ecosystems. <i>Remote Sensing of Environment</i> , 1999 , 70, 29-51	13.2	865
107	Leaf area index of boreal forests: Theory, techniques, and measurements. <i>Journal of Geophysical Research</i> , 1997 , 102, 29429-29443		593
106	FOREST-BGC, A general model of forest ecosystem processes for regional applications. II. Dynamic carbon allocation and nitrogen budgets. <i>Tree Physiology</i> , 1991 , 9, 147-160	4.2	545
105	Testing the performance of a dynamic global ecosystem model: Water balance, carbon balance, and vegetation structure. <i>Global Biogeochemical Cycles</i> , 2000 , 14, 795-825	5.9	533
104	Evaluation of MODIS NPP and GPP products across multiple biomes. <i>Remote Sensing of Environment</i> , 2006 , 102, 282-292	13.2	431
103	Aboveground net primary production decline with stand age: potential causes. <i>Trends in Ecology and Evolution</i> , 1996 , 11, 378-82	10.9	413
102	A global relationship between the heterotrophic and autotrophic components of soil respiration?. <i>Global Change Biology</i> , 2004 , 10, 1756-1766	11.4	396
101	Fire as the dominant driver of central Canadian boreal forest carbon balance. <i>Nature</i> , 2007 , 450, 89-92	50.4	376
100	BOREAS in 1997: Experiment overview, scientific results, and future directions. <i>Journal of Geophysical Research</i> , 1997 , 102, 28731-28769		367
99	NITROGEN MINERALIZATION AND PRODUCTIVITY IN 50 HARDWOOD AND CONIFER STANDS ON DIVERSE SOILS. <i>Ecology</i> , 1997 , 78, 335-347	4.6	352
98	An improved strategy for regression of biophysical variables and Landsat ETM+ data. <i>Remote Sensing of Environment</i> , 2003 , 84, 561-571	13.2	317
97	Root mass, net primary production and turnover in aspen, jack pine and black spruce forests in Saskatchewan and Manitoba, Canada. <i>Tree Physiology</i> , 1997 , 17, 577-587	4.2	311
96	Annual carbon cost of autotrophic respiration in boreal forest ecosystems in relation to species and climate. <i>Journal of Geophysical Research</i> , 1997 , 102, 28871-28883		265
95	Site-level evaluation of satellite-based global terrestrial gross primary production and net primary production monitoring. <i>Global Change Biology</i> , 2005 , 11, 666-684	11.4	264
94	Rapid Estimation of Leaf Area Index in Conifer and Broad-Leaf Plantations. <i>Ecology</i> , 1991 , 72, 1896-1900	4.6	259
93	A cross-biome comparison of daily light use efficiency for gross primary production. <i>Global Change Biology</i> , 2003 , 9, 383-395	11.4	258
92	Carbon Dynamics of Rocky Mountain Douglas-Fir: Influence of Water and Nutrient Availability. <i>Ecological Monographs</i> , 1992 , 62, 43-65	9	258

91	Scaling Gross Primary Production (GPP) over boreal and deciduous forest landscapes in support of MODIS GPP product validation. <i>Remote Sensing of Environment</i> , 2003 , 88, 256-270	13.2	245
90	Net primary production and net ecosystem production of a boreal black spruce wildfire chronosequence. <i>Global Change Biology</i> , 2004 , 10, 473-487	11.4	221
89	Monitoring spring canopy phenology of a deciduous broadleaf forest using MODIS. <i>Remote Sensing of Environment</i> , 2006 , 104, 88-95	13.2	213
88	Woody tissue maintenance respiration of four conifers in contrasting climates. <i>Oecologia</i> , 1995 , 101, 133-140	2.9	204
87	Larches: Deciduous Conifers in an Evergreen World. <i>BioScience</i> , 1990 , 40, 818-826	5.7	203
86	Estimating the leaf area index of North Central Wisconsin forests using the landsat thematic mapper. <i>Remote Sensing of Environment</i> , 1997 , 61, 229-245	13.2	196
85	Comparisons of land cover and LAI estimates derived from ETM+ and MODIS for four sites in North America: a quality assessment of 2000/2001 provisional MODIS products. <i>Remote Sensing of Environment</i> , 2003 , 88, 233-255	13.2	183
84	Characterization of radiation regimes in nonrandom forest canopies: theory, measurements, and a simplified modeling approach. <i>Tree Physiology</i> , 1999 , 19, 695-706	4.2	167
83	Hyperspectral versus multispectral data for estimating leaf area index in four different biomes. <i>Remote Sensing of Environment</i> , 2004 , 91, 508-520	13.2	155
82	Measurements of branch area and adjusting leaf area index indirect measurements. <i>Agricultural and Forest Meteorology</i> , 1998 , 91, 69-88	5.8	147
81	Environmental controls on ground cover species composition and productivity in a boreal black spruce forest. <i>Oecologia</i> , 2001 , 129, 261-270	2.9	139
80	PATTERNS AND MECHANISMS OF THE FOREST CARBON CYCLE. <i>Annual Review of Environment and Resources</i> , 2003 , 28, 169-204	17.2	137
79	Contribution of root respiration to soil surface CO ₂ flux in a boreal black spruce chronosequence. <i>Tree Physiology</i> , 2004 , 24, 1387-95	4.2	121
78	Effects of logging on carbon dynamics of a jack pine forest in Saskatchewan, Canada. <i>Global Change Biology</i> , 2004 , 10, 1267-1284	11.4	109
77	Response of soil surface CO ₂ flux in a boreal forest to ecosystem warming. <i>Global Change Biology</i> , 2008 , 14, 856-867	11.4	106
76	Carbon distribution of a well- and poorly-drained black spruce fire chronosequence. <i>Global Change Biology</i> , 2003 , 9, 1066-1079	11.4	103
75	The influence of fire on carbon distribution and net primary production of boreal <i>Larix gmelinii</i> forests in north-eastern China. <i>Global Change Biology</i> , 2001 , 7, 719-730	11.4	99
74	Spatial and temporal validation of the MODIS LAI and FPAR products across a boreal forest wildfire chronosequence. <i>Remote Sensing of Environment</i> , 2013 , 133, 71-84	13.2	97

73	Heterogeneity of light use efficiency in a northern Wisconsin forest: implications for modeling net primary production with remote sensing. <i>Remote Sensing of Environment</i> , 2004 , 93, 168-178	13.2	91
72	Effects of spatial variability in light use efficiency on satellite-based NPP monitoring. <i>Remote Sensing of Environment</i> , 2002 , 80, 397-405	13.2	89
71	Differences in Soil and Leaf Litterfall Nitrogen Dynamics for Five Forest Plantations. <i>Soil Science Society of America Journal</i> , 1992 , 56, 1959-1966	2.5	88
70	Environmental controls on carbon dioxide flux from black spruce coarse woody debris. <i>Oecologia</i> , 2002 , 132, 374-381	2.9	84
69	Land use and environmental factors influencing soil surface CO ₂ flux and microbial biomass in natural and managed ecosystems in southern Wisconsin. <i>Soil Biology and Biochemistry</i> , 1998 , 30, 1501-1509	7.5	81
68	Foliar carbon isotope discrimination in <i>Larix</i> species and sympatric evergreen conifers: a global comparison. <i>Oecologia</i> , 1998 , 114, 153-159	2.9	80
67	Relations Between Mineral Nutrient Availability and Fine Root Biomass in Two Costa Rican Tropical Wet Forests: A Hypothesis. <i>Biotropica</i> , 1987 , 19, 171	2.3	80
66	Effect of ecosystem warming on boreal black spruce bud burst and shoot growth. <i>Global Change Biology</i> , 2009 , 15, 1534-1543	11.4	77
65	Measurements and Modeling of Carbon and Nitrogen Cycling in Agroecosystems of Southern Wisconsin: Potential for SOC Sequestration during the Next 50 Years. <i>Ecosystems</i> , 2001 , 4, 237-258	3.9	76
64	A Global Trend in Belowground Carbon Allocation: Can We Use the Relationship at Smaller Scales?. <i>Ecology</i> , 1996 , 77, 1750-1755	4.6	75
63	Carbon and Nitrogen Dynamics of Boreal Jack Pine Stands With and Without a Green Alder Understory. <i>Ecosystems</i> , 1998 , 1, 386-400	3.9	75
62	Comparison of regression and geostatistical methods for mapping Leaf Area Index (LAI) with Landsat ETM+ data over a boreal forest. <i>Remote Sensing of Environment</i> , 2005 , 96, 49-61	13.2	74
61	Effects of fire on regional evapotranspiration in the central Canadian boreal forest. <i>Global Change Biology</i> , 2009 , 15, 1242-1254	11.4	71
60	CARBON BUDGETS FOR A PRAIRIE AND AGROECOSYSTEMS: EFFECTS OF LAND USE AND INTERANNUAL VARIABILITY 2002 , 12, 962-979		71
59	Overestimation of Net Root Production: A Real or Imaginary Problem?. <i>Ecology</i> , 1986 , 67, 577-579	4.6	68
58	Interactions of temperature and moisture with respiration from coarse woody debris in experimental forest canopy gaps. <i>Forest Ecology and Management</i> , 2012 , 265, 124-132	3.9	67
57	Estimation of leaf area index in fourteen southern Wisconsin forest stands using a portable radiometer. <i>Tree Physiology</i> , 1990 , 7, 115-124	4.2	62
56	Reimplementation of the Biome-BGC model to simulate successional change. <i>Tree Physiology</i> , 2005 , 25, 413-24	4.2	60

55	Soil surface CO ₂ flux in a boreal black spruce fire chronosequence. <i>Journal of Geophysical Research</i> , 2003 , 108, WFX 5-1		58
54	A comparison of trenched plot techniques for partitioning soil respiration. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 2108-2114	7.5	57
53	Carbon allocation in boreal black spruce forests across regions varying in soil temperature and precipitation. <i>Global Change Biology</i> , 2008 , 14, 1503-1516	11.4	57
52	Decomposition and Fragmentation of Coarse Woody Debris: Re-visiting a Boreal Black Spruce Chronosequence. <i>Ecosystems</i> , 2008 , 11, 831-840	3.9	54
51	Life cycle inventories of roundwood production in northern Wisconsin: Inputs into an industrial forest carbon budget. <i>Forest Ecology and Management</i> , 2005 , 219, 13-28	3.9	52
50	Estimation of stand-level leaf area for boreal bryophytes. <i>Oecologia</i> , 2007 , 151, 584-92	2.9	51
49	Net Ecosystem Production of Two Contrasting Boreal Black Spruce Forest Communities. <i>Ecosystems</i> , 2003 , 6, 248-260	3.9	50
48	Spatiotemporal measurement and modeling of stand-level boreal forest soil temperatures. <i>Agricultural and Forest Meteorology</i> , 2005 , 131, 27-40	5.8	47
47	Effects of nutrient amendments on fine root biomass in a primary successional forest in Hawaii. <i>Oecologia</i> , 1989 , 81, 566-568	2.9	46
46	Measurements of leaf orientation, light distribution and sunlit leaf area in a boreal aspen forest. <i>Agricultural and Forest Meteorology</i> , 1998 , 91, 127-148	5.8	43
45	Improved simulation of poorly drained forests using Biome-BGC. <i>Tree Physiology</i> , 2007 , 27, 703-15	4.2	43
44	Aboveground nitrogen and phosphorus use by five plantation-grown trees with different leaf longevities. <i>Biogeochemistry</i> , 1991 , 14, 167-191	3.8	43
43	Response of tree regeneration to experimental gap creation and deer herbivory in north temperate forests. <i>Forest Ecology and Management</i> , 2014 , 329, 137-147	3.9	42
42	Nitrogen dynamics of a boreal black spruce wildfire chronosequence. <i>Biogeochemistry</i> , 2006 , 81, 1-16	3.8	42
41	Nitrogen and phosphorus distribution for five plantation species in southwestern Wisconsin. <i>Forest Ecology and Management</i> , 1992 , 53, 175-193	3.9	42
40	Ecosystem warming does not affect photosynthesis or aboveground autotrophic respiration for boreal black spruce. <i>Tree Physiology</i> , 2010 , 30, 441-9	4.2	41
39	Causes and Consequences of Variation in Conifer Leaf Life-Span 1995 , 225-254		41
38	Carbon Allocation and Accumulation in Conifers 1995 , 217-254		39

37	The effects of aggregated land cover data on estimating NPP in northern Wisconsin. <i>Remote Sensing of Environment</i> , 2005 , 97, 1-14	13.2	35
36	Allometric relations of deciduous (<i>Larix occidentalis</i>) and evergreen conifers (<i>Pinus contorta</i> and <i>Pseudotsugamenziesii</i>) of the Cascade Mountains in central Washington. <i>Canadian Journal of Forest Research</i> , 1987 , 17, 630-634	1.9	35
35	Influence of fertilization on the allometric relations for two pines in contrasting environments. <i>Canadian Journal of Forest Research</i> , 1993 , 23, 1704-1711	1.9	31
34	Soil microbial community response and recovery following group selection harvest: Temporal patterns from an experimental harvest in a US northern hardwood forest. <i>Forest Ecology and Management</i> , 2015 , 340, 82-94	3.9	29
33	Effects of nutrient and paper mill biosolids amendments on the growth and nutrient status of hardwood forests. <i>Forest Ecology and Management</i> , 2003 , 177, 95-116	3.9	29
32	Fire-induced changes in green-up and leaf maturity of the Canadian boreal forest. <i>Remote Sensing of Environment</i> , 2008 , 112, 3594-3603	13.2	28
31	Detritus Production and Soil N Transformations in Old-Growth Eastern Hemlock and Sugar Maple Stands. <i>Ecosystems</i> , 2000 , 3, 185-192	3.9	28
30	Effects of winter selective tree harvest on soil microclimate and surface CO ₂ flux of a northern hardwood forest. <i>Forest Ecology and Management</i> , 2010 , 259, 257-265	3.9	27
29	Effects of selective tree harvests on aboveground biomass and net primary productivity of a second-growth northern hardwood forest. <i>Canadian Journal of Forest Research</i> , 2010 , 40, 2360-2369	1.9	27
28	Measurement and modelling of bryophyte evaporation in a boreal forest chronosequence. <i>Ecohydrology</i> , 2011 , 4, 26-35	2.5	23
27	Comparison of Net Primary Production and Light-use Dynamics of Two Boreal Black Spruce Forest Communities. <i>Ecosystems</i> , 2003 , 6, 236-247	3.9	23
26	Aboveground biomass and net primary production of pine, oak and mixed pine-oak forests on the Vila Real district, Portugal. <i>Forest Ecology and Management</i> , 2013 , 305, 38-47	3.9	22
25	Multimodel simulations of forest harvesting effects on long-term productivity and CN cycling in aspen forests 2014 , 24, 1374-89		22
24	Aboveground production and canopy dynamics in sugar maple and red oak trees in southwestern Wisconsin. <i>Canadian Journal of Forest Research</i> , 1991 , 21, 1533-1543	1.9	22
23	Experimental Manipulation of Forest Structure: Near-Term Effects on Gap and Stand Scale C Dynamics. <i>Ecosystems</i> , 2013 , 16, 1455-1472	3.9	20
22	The response of root and microbial respiration to the experimental warming of a boreal black spruce forest. <i>Canadian Journal of Forest Research</i> , 2014 , 44, 986-993	1.9	20
21	Effects of climate warming on canopy water dynamics of a boreal black spruce plantation. <i>Canadian Journal of Forest Research</i> , 2011 , 41, 217-227	1.9	19
20	Are horses responsible for introducing non-native plants along forest trails in the eastern United States?. <i>Forest Ecology and Management</i> , 2008 , 256, 997-1003	3.9	19

19	Simulated long-term effects of harvest and biomass residue removal on soil carbon and nitrogen content and productivity for two Upper Great Lakes forest ecosystems. <i>GCB Bioenergy</i> , 2011 , 3, 135-147	5.6	18
18	Simulation of boreal black spruce chronosequences: Comparison to field measurements and model evaluation. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		18
17	Estimating the carbon budget and maximizing future carbon uptake for a temperate forest region in the U.S. <i>Carbon Balance and Management</i> , 2012 , 7, 6	3.6	17
16	Canopy dynamics and phenology of a boreal black spruce wildfire chronosequence. <i>Agricultural and Forest Meteorology</i> , 2009 , 149, 187-204	5.8	17
15	Boreal mixedwood tree growth on contrasting soils and disturbance types. <i>Canadian Journal of Forest Research</i> , 2006 , 36, 986-995	1.9	16
14	Carbon pools in a boreal mixedwood logging chronosequence. <i>Global Change Biology</i> , 2005 , 11, 050922094351003-???	4.5	14
13	Bryophyte cover estimation in a boreal black spruce forest using airborne lidar and multispectral sensors. <i>Remote Sensing of Environment</i> , 2009 , 113, 1127-1132	13.2	13
12	Comparison of the litterfall and forest floor organic matter and nitrogen dynamics of upland forest ecosystems in north central Wisconsin. <i>Biogeochemistry</i> , 1999 , 45, 265-284	3.8	12
11	Modeling harvest and biomass removal effects on the forest carbon balance of the Midwest, USA. <i>Environmental Science and Policy</i> , 2013 , 25, 22-35	6.2	10
10	Spatial dynamics of soil moisture and temperature in a black spruce boreal chronosequence. <i>Canadian Journal of Forest Research</i> , 2006 , 36, 2794-2802	1.9	9
9	Aboveground organic matter and production of a montane forest on the eastern slopes of the Washington Cascade Range. <i>Canadian Journal of Forest Research</i> , 1989 , 19, 515-518	1.9	9
8	Simulating the effects of harvest and biofuel production on the forest system carbon balance of the Midwest, USA. <i>GCB Bioenergy</i> , 2013 , 5, 431-444	5.6	8
7	Construction and Installation of Acrylic Minirhizotron Tubes in Forest Ecosystems. <i>Soil Science Society of America Journal</i> , 1995 , 59, 241-243	2.5	6
6	Comparison of Soil and Vegetation Characteristics of Six Upland Forest Habitat Types in North Central Wisconsin. <i>Northern Journal of Applied Forestry</i> , 1998 , 15, 69-76		5
5	Stem Biomass Growth of Four Plantation-Grown Conifer Species in Southwestern Wisconsin. <i>Northern Journal of Applied Forestry</i> , 1991 , 8, 26-28		5
4	Effects of amendments of paper mill sludge and nutrients on soil surface CO ₂ flux in northern hardwood forests. <i>Journal of Forestry Research</i> , 2005 , 16, 265-269	2	2
3	Validation of an agroecosystem process model (AGRO-BGC) on annual and perennial bioenergy feedstocks. <i>Ecological Modelling</i> , 2016 , 321, 23-34	3	1
2	Scaling Gross Primary Production (GPP) over boreal and deciduous forest landscapes in support of MODIS GPP product validation. <i>Remote Sensing of Environment</i> , 2003 , 88, 256-256	13.2	

- 1 Linking deadwood and soil GHG fluxes in a second growth north temperate deciduous forest (Upper Midwest USA). *Biogeochemistry*, **2021**, 156, 177 3.8