RESEARCH & PUBLICATIONS

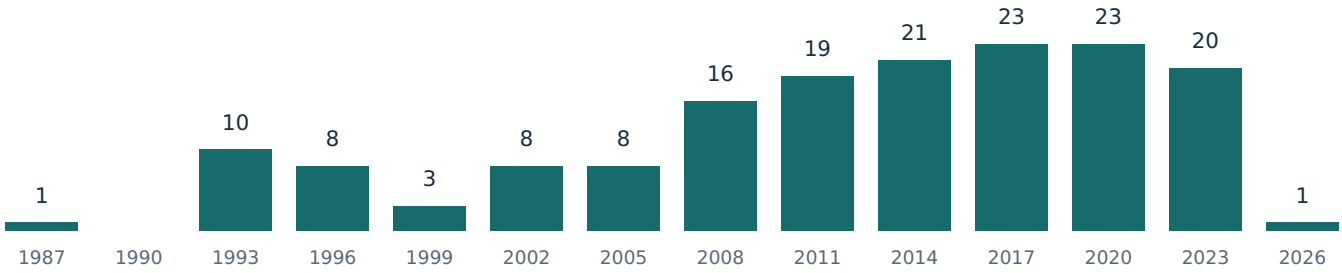
Werner A. Kurz

A publication record at a glance

161	18,203	54
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 3-year periods



MOST CITED IN THIS LIST

A Large and Persistent Carbon Sink in the World’s Forests — 7,394
2011 Science

Mountain Pine Beetle and Forest Carbon Feedback to Climate Change — 1,721
2008 Nature

Forest Carbon Sinks in the Northern Hemisphere — 715
2002 Ecological Applications

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2026

01 Three-Fourths of Carbon Emissions From 2023 Record-Breaking Wildfires in Canada Traced to Soil and Peat Combustion

1 citations

Geophysical Research Letters · 53, e2026GL123393

https://exaly.com/article/216513915

2025

02 Improving Carbon Storage and Greenhouse Gas Emissions Avoidance Through Harvested Wood Products Use

6 citations

Trees, Forests and People · 19, 100757

https://exaly.com/article/195718485

03 The North American Greenhouse Gas Budget: Emissions, Removals, and Integration for CO2, CH4, and N2O (2010–2019): Results From the Second REgional Carbon Cycle Assessment and Processes Study (RECCAP2)

17 citations

Global Biogeochemical Cycles · 39, e2024GB008310

https://exaly.com/article/199837939

04 Permafrost, Peatland, and Cropland Regions Are Key to Reconciling North American Carbon Sink Estimates

6 citations

Global Biogeochemical Cycles · 39, e2024GB008460

https://exaly.com/article/201859362

2024

05 Using the Canadian Model for Peatlands (CaMP) to Examine Greenhouse Gas Emissions and Carbon Sink Strength in Canada's Boreal and Temperate Peatlands

9 citations

Ecological Modelling · 490, 110633

https://exaly.com/article/176374589

06 The Distribution and Establishment of Non-Native Earthworm Populations and Their Impact on Organic Layer Thickness in the Acadian Forest

5 citations

Applied Soil Ecology · 198, 105353

https://exaly.com/article/176993568

07 Developing Aboveground Biomass Yield Curves for Dominant Boreal Tree Species From Time Series Remote Sensing Data

18 citations

Forest Ecology and Management · 561, 121894

https://exaly.com/article/184925363

08 Generic Carbon Budget Model for Assessing National Carbon Dynamics Toward Carbon Neutrality: A Case Study of Republic of Korea

4 citations

Forests · 15, 877

https://exaly.com/article/185648604

Ordered by publication year, newest first

2024 / continued

09 **Forest Products Circular Economy in an Export-Focused Jurisdiction: Can It Fill the Emission Reduction Gap?**
Cleaner and Circular Bioeconomy · 8, 100096
https://exaly.com/article/187629189
5 citations

2023

10 **Future Fire Risk and the Greenhouse Gas Mitigation Potential of Forest Rehabilitation in British Columbia, Canada**
Forest Ecology and Management · 529, 120729
https://exaly.com/article/157356153
17 citations

11 **Carbon Sequestration and Emission Mitigation Potential of Afforestation and Reforestation of Unproductive Territories**
New Forests · 54, 1013-1035
https://exaly.com/article/157845447
36 citations

12 **Development of a Prototype Modeling System to Estimate the GHG Mitigation Potential of Forest and Wildfire Management**
MethodsX · 10, 101985
https://exaly.com/article/158117068
5 citations

13 **Comment on Essd-2022-245**
Journal unavailable
https://exaly.com/article/158487951
0 citations

14 **Comment on Essd-2022-245**
Journal unavailable
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0 citations

15 **Comment on Essd-2022-245**
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https://exaly.com/article/158560869
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16 **Comment on Essd-2022-245**
Journal unavailable
https://exaly.com/article/158574846
0 citations

17 **Harmonising the Land-Use Flux Estimates of Global Models and National Inventories for 2000–2020**
Earth System Science Data · 15, 1093-1114
https://exaly.com/article/161416559
91 citations

Ordered by publication year, newest first

2023 / continued

18 **Substitution Benefits of British Columbia's Mitigation Strategies in the Bioeconomy**
Mitigation and Adaptation Strategies for Global Change · 28, 1-27
https://exaly.com/article/161702724
11 citations

19 **Fire-Killed Forest Biomass for Mills and Communities and Bioenergy GHG Impacts**
Biomass and Bioenergy · 175, 106877
https://exaly.com/article/164959438
6 citations

20 **Under What Circumstances Can the Forest Sector Contribute to 2050 Climate Change Mitigation Targets? A Study From Forest Ecosystems to Landfill Methane Emissions for the Province of Quebec, Canada**
GCB Bioenergy · 15, 1119-1139
https://exaly.com/article/166325324
20 citations

21 **Modeling Climate-Smart Forest Management and Wood Use for Climate Mitigation Potential in Maryland and Pennsylvania**
Frontiers in Forests and Global Change · 6, 1259010
https://exaly.com/article/171566603
20 citations

2022

22 **Implications of Future Disturbance Regimes on the Carbon Balance of Canada's Managed Forest (2010–2100)**
Tellus, Series B: Chemical and Physical Meteorology · 62, 719
https://exaly.com/article/48469578
59 citations

23 **Large Soil Carbon Storage in Terrestrial Ecosystems of Canada**
Global Biogeochemical Cycles · 36, e2021GB007213
https://exaly.com/article/125349847
85 citations

24 **Comment on Bg-2022-35**
Journal unavailable
https://exaly.com/article/134543497
0 citations

25 **Comment on Bg-2022-35**
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0 citations

26 **Bottom-Up Approaches for Estimating Terrestrial GHG Budgets: Bookkeeping, Process-Based Modeling, and Data-Driven Methods**
Journal unavailable
https://exaly.com/article/145972335
3 citations

Ordered by publication year, newest first

2022 / continued

27 The European Forest Carbon Budget Under Future Climate Conditions and Current Management Practices
57 citations
Biogeosciences · 19, 3263-3284
https://exaly.com/article/148961867

28 Comment on Essd-2022-245
1 citations
Journal unavailable
https://exaly.com/article/150078037

29 A Process-Model Perspective on Recent Changes in the Carbon Cycle of North America
14 citations
Journal of Geophysical Research G: Biogeosciences · 127, e2022JG006904
https://exaly.com/article/155024512

30 Comment on Essd-2022-245
0 citations
Journal unavailable
https://exaly.com/article/155137631

31 Comment on Essd-2022-245
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32 Spatially Continuous Mapping of Forest Canopy Height in Canada by Combining GEDI and ICESat-2 With PALSAR and Sentinel
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Remote Sensing · 14, 5158
https://exaly.com/article/155781430

33 Comment on Essd-2022-245
0 citations
Journal unavailable
https://exaly.com/article/155864795

34 Differences in Land-Based Mitigation Estimates Reconciled by Separating Natural and Land-Use CO2 Fluxes at the Country Level
29 citations
One Earth · 5, 1367-1376
https://exaly.com/article/157907817

2021

35 Cumulative Effects of Natural and Anthropogenic Disturbances on the Forest Carbon Balance in the Oil Sands Region of Alberta, Canada; A Pilot Study (1985–2012)
10 citations
Carbon Balance and Management · 16, 1-18
https://exaly.com/article/78181037

Ordered by publication year, newest first

2021 / continued

36 **Land-Based Emissions** — 8 citations
Nature Climate Change · 11, 382-383
https://exaly.com/article/80219152

37 **Natural Climate Solutions for Canada** — 200 citations
Science Advances
https://exaly.com/article/80906186

38 **Growing Our Future: Assessing the Outcome of Afforestation Programs in Ontario, Canada** — 11 citations
Forestry Chronicle · 97, 179-190
https://exaly.com/article/80983950

39 **Restoring Degraded Lands** — 99 citations
Annual Review of Environment and Resources · 46, 569-599
https://exaly.com/article/81973379

40 **Inward- Versus Outward-Focused Bioeconomy Strategies for British Columbia's Forest Products Industry: A Harvested Wood Products Carbon Storage and Emission Perspective** — 18 citations
Carbon Balance and Management · 16, 1-22
https://exaly.com/article/82158338

41 **Temporally-Differentiated Biogenic Carbon Accounting of Wood Building Product Life Cycles** — 50 citations
SN Applied Sciences · 3, 1-17
https://exaly.com/article/82936817

2020

42 **Climate Change Mitigation in British Columbia's Forest Sector: GHG Reductions, Costs, and Environmental Impacts** — 56 citations
Carbon Balance and Management · 15, 1-22
https://exaly.com/article/75406686

43 **The Canadian Model for Peatlands (CaMP): A Peatland Carbon Model for National Greenhouse Gas Reporting** — 42 citations
Ecological Modelling · 431, 109164
https://exaly.com/article/75522228

44 **Dynamics of Dead Wood Decay in Swiss Forests** — 64 citations
Forest Ecosystems · 7, 36
https://exaly.com/article/86512114

Ordered by publication year, newest first

2019

45 **Tree Ring Reconstructions of Stemwood Biomass Indicate Increases in the Growth Rate of Black Spruce Trees Across Boreal Forests of Canada** — 26 citations

Journal of Geophysical Research G: Biogeosciences · 124, 2460-2480

https://exaly.com/article/72170034

46 **Empirical and Predicted Boreal Forest Carbon Pools Following Stem-Only Harvesting in Quebec, Canada** — 12 citations

Soil Science Society of America Journal · 83, S59-S81

https://exaly.com/article/72246409

2018

47 **Applying a Systems Approach to Assess Carbon Emission Reductions From Climate Change Mitigation in Mexico's Forest Sector** — 22 citations

Environmental Research Letters · 13, 035003

https://exaly.com/article/69375780

48 **Climate Change Mitigation Strategies in the Forest Sector: Biophysical Impacts and Economic Implications in British Columbia, Canada** — 75 citations

Mitigation and Adaptation Strategies for Global Change · 23, 257-290

https://exaly.com/article/69484468

49 **Statistical Performance and Behaviour of Environmentally-Sensitive Composite Models of Lodgepole Pine Growth** — 9 citations

Forest Ecology and Management · 408, 157-173

https://exaly.com/article/69714075

50 **Climate, Economic, and Environmental Impacts of Producing Wood for Bioenergy** — 75 citations

Environmental Research Letters · 13, 050201

https://exaly.com/article/69796925

51 **Spatially-Integrated Estimates of Net Ecosystem Exchange and Methane Fluxes From Canadian Peatlands** — 58 citations

Carbon Balance and Management · 13, 1-21

https://exaly.com/article/70017542

52 **Climate Change Mitigation in Canada's Forest Sector: A Spatially Explicit Case Study for Two Regions** — 29 citations

Carbon Balance and Management · 13, 1-12

https://exaly.com/article/70457284

53 **Reconciling Global-Model Estimates and Country Reporting of Anthropogenic Forest CO_2 Sinks** — 160 citations

Nature Climate Change · 8, 914-920

https://exaly.com/article/70696529

Ordered by publication year, newest first

2018 / continued

54 A Systems Approach to Assess Climate Change Mitigation Options in Landscapes of the United States Forest Sector
52 citations
Carbon Balance and Management · 13, 1-14
https://exaly.com/article/70726522

55 Delineating Managed Land for Reporting National Greenhouse Gas Emissions and Removals to the United Nations Framework Convention on Climate Change
54 citations
Carbon Balance and Management · 13, 1-13
https://exaly.com/article/71286590

56 Science-Based Approach for Credible Accounting of Mitigation in Managed Forests
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Carbon Balance and Management · 13, 1-16
https://exaly.com/article/71286591

57 Low Tree-Growth Elasticity of Forest Biomass Indicated by an Individual-Based Model
12 citations
Forests · 9, 21
https://exaly.com/article/71391082

2017

58 Cost of Climate Change Mitigation in Canada's Forest Sector
14 citations
Canadian Journal of Forest Research · 47, 604-614
https://exaly.com/article/65890985

59 Carbon Dynamics on Agricultural Land Reverting to Woody Land in Ontario, Canada
20 citations
Journal of Environmental Management · 193, 318-325
https://exaly.com/article/66021850

60 Climate Change Mitigation Potential of Local Use of Harvest Residues for Bioenergy in Canada
54 citations
GCB Bioenergy · 9, 817-832
https://exaly.com/article/66476957

61 Estimating Product and Energy Substitution Benefits in National-Scale Mitigation Analyses for Canada
110 citations
GCB Bioenergy · 9, 1071-1084
https://exaly.com/article/66766026

62 Constraining the Organic Matter Decay Parameters in the CBM-CFS3 Using Canadian National Forest Inventory Data and a Bayesian Inversion Technique
36 citations
Ecological Modelling · 364, 1-12
https://exaly.com/article/66814534

Ordered by publication year, newest first

2017 / continued

63 Relationships Between Individual-Tree Mortality and Water-Balance Variables Indicate Positive Trends in Water Stress-Induced Tree Mortality Across North America
127 citations
Global Change Biology · 23, 1691-1710
https://exaly.com/article/67792005

64 Increasing Net Ecosystem Biomass Production of Canada's Boreal and Temperate Forests Despite Decline in Dry Climates
51 citations
Global Biogeochemical Cycles · 31, 134-158
https://exaly.com/article/68048236

65 The European Forest Sector: Past and Future Carbon Budget and Fluxes Under Different Management Scenarios
50 citations
Biogeosciences · 14, 2387-2405
https://exaly.com/article/68563882

66 Estimating Carbon Stocks and Stock Changes in Forests: Linking Models and Data Across Scales
2 citations
Managing Forest Ecosystems
https://exaly.com/article/110532984

67 Canada
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Managing Forest Ecosystems
https://exaly.com/article/110698662

2016

68 Negative Impacts of High Temperatures on Growth of Black Spruce Forests Intensify With the Anticipated Climate Warming
185 citations
Global Change Biology · 22, 627-643
https://exaly.com/article/63476619

69 Modelling Forest Carbon Stock Changes as Affected by Harvest and Natural Disturbances. II. EU-Level Analysis
34 citations
Carbon Balance and Management · 11, 1-19
https://exaly.com/article/63673700

70 Improving Carbon Monitoring and Reporting in Forests Using Spatially-Explicit Information
20 citations
Carbon Balance and Management · 11, 1-16
https://exaly.com/article/63673703

Ordered by publication year, newest first

2016 / continued

71 No Growth Stimulation of Canada's Boreal Forest Under Half-Century of Combined Warming and CO_2 Fertilization — 287 citations

Proceedings of the National Academy of Sciences of the United States of America · 113, E8406-E8414

https://exaly.com/article/63717794

72 Modelling Moss-Derived Carbon in Upland Black Spruce Forests — 15 citations

Canadian Journal of Forest Research · 46, 520-534

https://exaly.com/article/64376347

73 Potential Near-Future Carbon Uptake Overcomes Losses From a Large Insect Outbreak in British Columbia, Canada — 28 citations

Geophysical Research Letters · 43, 2590-2598

https://exaly.com/article/64840516

74 Integration of Landsat Time Series and Field Plots for Forest Productivity Estimates in Decision Support Models — 41 citations

Forest Ecology and Management · 376, 284-297

https://exaly.com/article/65109930

75 Modelling Forest Carbon Stock Changes as Affected by Harvest and Natural Disturbances. I. Comparison With Countries' Estimates for Forest Management — 23 citations

Carbon Balance and Management · 11, 1-18

https://exaly.com/article/65298319

76 Attributing Changes in Land Cover Using Independent Disturbance Datasets: A Case Study of the Yucatan Peninsula, Mexico — 24 citations

Regional Environmental Change · 16, 213-228

https://exaly.com/article/65311342

77 Evaluating the Impacts of Climate Variability and Cutting and Insect Defoliation on the Historical Carbon Dynamics of a Boreal Black Spruce Forest Landscape in Eastern Canada — 4 citations

Ecological Modelling · 321, 98-109

https://exaly.com/article/65476421

78 Carbon Sequestration by White Spruce Shelterbelts in Saskatchewan, Canada: 3PG And CBM-CFS3 Model Simulations — 33 citations

Ecological Modelling · 325, 35-46

https://exaly.com/article/65497694

Ordered by publication year, newest first

2015

79 **Choice of Satellite Imagery and Attribution of Changes to Disturbance Type Strongly Affects Forest Carbon Balance Estimates**
22 citations
Carbon Balance and Management · 10, 1-15
https://exaly.com/article/60608905

80 **North America's Net Terrestrial CO_2 Exchange With the Atmosphere 1990–2009**
65 citations
Biogeosciences · 12, 399-414
https://exaly.com/article/61157437

81 **Boreal Forests at Risk: From Boreal Science to Public Policy**
0 citations
Canadian Journal of Forest Research · 45, v-vi
https://exaly.com/article/62080084

82 **If Forest Dynamics in Canada's West Are Driven Mainly by Competition, Why Did They Change? Half-Century Evidence Says: Climate Change**
20 citations
Proceedings of the National Academy of Sciences of the United States of America · 112, E4340-E4340
https://exaly.com/article/62530148

83 **Deforestation Mapping Sampling Designs for Canadian Landscapes**
2 citations
Canadian Journal of Forest Research · 45, 1564-1576
https://exaly.com/article/62631841

2014

84 **Quantifying the Biophysical Climate Change Mitigation Potential of Canada's Forest Sector**
177 citations
Biogeosciences · 11, 3515-3529
https://exaly.com/article/57492560

85 **Climate and Atmospheric Drivers of Historical Terrestrial Carbon Uptake in the Province of British Columbia, Canada**
22 citations
Biogeosciences · 11, 635-649
https://exaly.com/article/57493327

86 **Animating the Carbon Cycle**
204 citations
Ecosystems · 17, 344-359
https://exaly.com/article/58842794

87 **Simulating Impacts of Water Stress on Woody Biomass in the Southern Boreal Region of Western Canada Using a Dynamic Vegetation Model**
15 citations
Agricultural and Forest Meteorology · 198, 142-154
https://exaly.com/article/59244439

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2014 / continued

88 **Accelerating Forest Growth Enhancement Due to Climate and Atmospheric Changes in British Colombia, Canada Over 1956-2001**
28 citations
Scientific Reports · 4, 1-5
https://exaly.com/article/60410394

2013

89 **A 100-Year Conservation Experiment: Impacts on Forest Carbon Stocks and Fluxes**
35 citations
Forest Ecology and Management · 310, 242-255
https://exaly.com/article/55006505

90 **Approaches to Monitoring Changes in Carbon Stocks for REDD+**
56 citations
Carbon Management · 4, 519-537
https://exaly.com/article/55092632

91 **Application of the CBM-CFS3 Model to Estimate Italy's Forest Carbon Budget, 1995–2020**
58 citations
Ecological Modelling · 266, 144-171
https://exaly.com/article/55123750

92 **Carbon Budget of Managed Forests in the Russian Federation in 1990–2050: Post-Evaluation and Forecasting**
18 citations
Russian Meteorology and Hydrology · 38, 701-714
https://exaly.com/article/55157733

93 **Are Mosses Required to Accurately Predict Upland Black Spruce Forest Soil Carbon in National-Scale Forest C Accounting Models?**
34 citations
Ecosystems · 16, 1071-1086
https://exaly.com/article/55215757

94 **The Impact of Tropospheric Ozone on Landscape-Level Merchantable Biomass and Ecosystem Carbon in Canadian Forests**
13 citations
European Journal of Forest Research · 132, 71-81
https://exaly.com/article/55460551

95 **Interannual Variability of Net Ecosystem Productivity in Forests Is Explained by Carbon Flux Phenology in Autumn**
183 citations
Global Ecology and Biogeography · 22, 994-1006
https://exaly.com/article/55939618

96 **National-Scale Estimates of Forest Root Biomass Carbon Stocks and Associated Carbon Fluxes in Canada**
29 citations
Global Biogeochemical Cycles · 27, 1262-1273
https://exaly.com/article/56104909

Ordered by publication year, newest first

2013 / continued

97 Improved Assessment of Gross and Net Primary Productivity of Canada's Landmass
48 citations
Journal of Geophysical Research G: Biogeosciences · 118, 1546-1560
https://exaly.com/article/57084943

2012

98 Assessment of Boreal Forest Historical C Dynamics in the Yukon River Basin: Relative Roles of Warming and Fire Regime Change
39 citations
Ecological Applications · 22, 2091-2109
https://exaly.com/article/52427581

99 The Carbon Implications of Large-Scale Afforestation of Agriculturally Marginal Land With Short-Rotation Willow in Saskatchewan
45 citations
GCB Bioenergy · 4, 70-87
https://exaly.com/article/53158010

100 Interannual Variability of Net Carbon Exchange Is Related to the Lag Between the End-Dates of Net Carbon Uptake and Photosynthesis: Evidence From Long Records at Two Contrasting Forest Stands
72 citations
Agricultural and Forest Meteorology · 164, 29-38
https://exaly.com/article/53589930

101 Interannual and Spatial Impacts of Phenological Transitions, Growing Season Length, and Spring and Autumn Temperatures on Carbon Sequestration: A North America Flux Data Synthesis
78 citations
Global and Planetary Change · 92, 179-190
https://exaly.com/article/53668795

102 Reconciling Estimates of the Contemporary North American Carbon Balance Among Terrestrial Biosphere Models, Atmospheric Inversions, and a New Approach for Estimating Net Ecosystem Exchange From Inventory-Based Data
121 citations
Global Change Biology · 18, 1282-1299
https://exaly.com/article/53720331

103 Land Surface Phenology From Optical Satellite Measurement and CO2 Eddy Covariance Technique
129 citations
Journal of Geophysical Research G: Biogeosciences
https://exaly.com/article/53793604

104 Accelerating Regrowth of Temperate-Maritime Forests Due to Environmental Change
71 citations
Global Change Biology · 18, 2026-2040
https://exaly.com/article/54469932

Ordered by publication year, newest first

2011

105 A Large and Persistent Carbon Sink in the World's Forests — 7,394 citations
Science · 333, 988-93
https://exaly.com/article/49968467

106 Uncertainty of 21st Century Growing Stocks and GHG Balance of Forests in British Columbia, Canada Resulting From Potential Climate Change Impacts on Ecosystem Processes — 40 citations
Forest Ecology and Management · 262, 827-837
https://exaly.com/article/50441632

107 An Inventory-Based Analysis of Canada's Managed Forest Carbon Dynamics, 1990 to 2008 — 265 citations
Global Change Biology · 17, 2227-2244
https://exaly.com/article/50976911

2010

108 Future Spruce Budworm Outbreak May Create a Carbon Source in Eastern Canadian Forests — 121 citations
Ecosystems · 13, 917-931
https://exaly.com/article/47866408

109 Implications of Differing Input Data Sources and Approaches Upon Forest Carbon Stock Estimation — 29 citations
Environmental Monitoring and Assessment · 166, 543-561
https://exaly.com/article/47973101

110 Comparing Measured and Modelled Forest Carbon Stocks in High-Boreal Forests of Harvest and Natural-Disturbance Origin in Labrador, Canada — 21 citations
Ecological Modelling · 221, 825-839
https://exaly.com/article/48062722

111 An Ecosystem Context for Global Gross Forest Cover Loss Estimates — 28 citations
Proceedings of the National Academy of Sciences of the United States of America · 107, 9025-9026
https://exaly.com/article/48859748

112 Reconstructing and Modelling 71 Years of Forest Growth in a Canadian Boreal Landscape: A Test of the CBM-CFS3 Carbon Accounting Model — 23 citations
Canadian Journal of Forest Research · 40, 109-118
https://exaly.com/article/48910670

113 Forest Carbon Stocks in Newfoundland Boreal Forests of Harvest and Natural Disturbance Origin II: Model Evaluation — 6 citations
Canadian Journal of Forest Research · 40, 2146-2163
https://exaly.com/article/49809032

Ordered by publication year, newest first

2009

114 **Wood Energy: Protect Local Ecosystems**

Science · 324, 1389-90; author reply 1390-1

https://exaly.com/article/45650668

15 citations

115 **Projected Forest Carbon Sinks Highly Vulnerable to Increases in Natural Disturbances**

IOP Conference Series: Earth and Environmental Science · 6, 042020

https://exaly.com/article/47342112

0 citations

2008

116 **Accounting of Forest Carbon Sinks and Sources Under a Future Climate Protocol—Factoring Out Past Disturbance and Management Effects on Age–Class Structure**

Environmental Science and Policy · 11, 669-686

https://exaly.com/article/43549366

65 citations

117 **Mountain Pine Beetle and Forest Carbon Feedback to Climate Change**

Nature · 452, 987-990

https://exaly.com/article/43645148

1,721 citations

118 **A Practical Approach for Assessing the Sensitivity of the Carbon Budget Model of the Canadian Forest Sector (CBM-CFS3)**

Ecological Modelling · 219, 373-382

https://exaly.com/article/43789864

27 citations

119 **Effects of Harvesting Intensity on Carbon Stocks in Eastern Canadian Red Spruce (Picea rubens) Forests: An Exploratory Analysis Using the CBM-CFS3 Simulation Model**

Forest Ecology and Management · 255, 3632-3641

https://exaly.com/article/44096232

45 citations

120 **Could Increased Boreal Forest Ecosystem Productivity Offset Carbon Losses From Increased Disturbances?**

Philosophical Transactions of the Royal Society B: Biological Sciences · 363, 2261-9

https://exaly.com/article/44666346

101 citations

121 **Risk of Natural Disturbances Makes Future Contribution of Canada's Forests to the Global Carbon Cycle Highly Uncertain**

Proceedings of the National Academy of Sciences of the United States of America · 105, 1551-1555

https://exaly.com/article/44757352

479 citations

Ordered by publication year, newest first

2008 / continued

122 **Stratifying Soils Into Pedogenically Similar Categories for Modeling Forest Soil Carbon**
23 citations
Canadian Journal of Soil Science · 88, 501-516
https://exaly.com/article/44936155

123 **Estimating Carbon Stocks and Stock Changes in Forests: Linking Models and Data Across Scales**
5 citations
Managing Forest Ecosystems
https://exaly.com/article/83314851

2007

124 **Mapping the Environmental Limitations to Growth of Coastal Douglas-Fir Stands on Vancouver Island, British Columbia.**
28 citations
Tree Physiology · 27, 805-15
https://exaly.com/article/41733781

125 **Estimating Direct Carbon Emissions From Canadian Wildland fires1**
101 citations
International Journal of Wildland Fire · 16, 593-606
https://exaly.com/article/41763957

126 **Approximating Natural Landscape Pattern Using Aggregated Harvest**
14 citations
Canadian Journal of Forest Research · 37, 1846-1853
https://exaly.com/article/42205226

127 **Factoring Out Natural and Indirect Human Effects on Terrestrial Carbon Sources and Sinks**
136 citations
Environmental Science and Policy · 10, 370-384
https://exaly.com/article/42672012

2006

128 **Developing Canada's National Forest Carbon Monitoring, Accounting and Reporting System to Meet the Reporting Requirements of the Kyoto Protocol**
87 citations
Mitigation and Adaptation Strategies for Global Change · 11, 33-43
https://exaly.com/article/40645715

2005

129 **Characterization of the Diminishing Accuracy in Detecting Forest Insect Damage Over Time**
23 citations
Canadian Journal of Remote Sensing · 31, 421-431
https://exaly.com/article/37921065

Ordered by publication year, newest first

2005 / continued

130 **Adaptive Cluster Sampling for Estimation of Deforestation Rates**
26 citations
European Journal of Forest Research · 124, 207-220
https://exaly.com/article/38464929

131 **Afforestation on Private Land in Canada From 1990 to 2002 Estimated From Historical Records**
18 citations
Forestry Chronicle · 81, 491-497
https://exaly.com/article/38576628

2004

132 **National Level Forest Monitoring and Modeling in Canada**
71 citations
Progress in Planning · 61, 365-381
https://exaly.com/article/36849305

2003

133 **Belowground Biomass Dynamics in the Carbon Budget Model of the Canadian Forest Sector: Recent Improvements and Implications for the Estimation of NPP and NEP**
220 citations
Canadian Journal of Forest Research · 33, 126-136
https://exaly.com/article/35359600

134 **Temporal Changes of Forest Net Primary Production and Net Ecosystem Production in West Central Canada Associated With Natural and Anthropogenic Disturbances**
31 citations
Canadian Journal of Forest Research · 33, 2340-2351
https://exaly.com/article/35765172

135 **Applying TELSA to Assess Alternative Management Scenarios**
7 citations
Managing Forest Ecosystems
https://exaly.com/article/84116025

2002

136 **Forest Carbon Sinks in the Northern Hemisphere**
715 citations
Ecological Applications · 12, 891-899
https://exaly.com/article/33658926

137 **Forest Carbon Accounting at the Operational Scale**
73 citations
Forestry Chronicle · 78, 672-679
https://exaly.com/article/33785555

Ordered by publication year, newest first

2002 / continued

138 **Estimating Net Primary Production of Forests in the Canadian Prairie Provinces Using an Inventory-Based Carbon Budget Model**
25 citations
Canadian Journal of Forest Research · 32, 161-169
https://exaly.com/article/34178161

139 **Historic Carbon Budgets of Ontario's Forest Ecosystems**
29 citations
Forest Ecology and Management · 169, 103-114
https://exaly.com/article/34290335

2000

140 **Habitat Patterns in Forested Landscapes: Management Practices and the Uncertainty Associated With Natural Disturbances**
48 citations
Computers and Electronics in Agriculture · 27, 243-262
https://exaly.com/article/31514422

1999

141 **A 70-Year Retrospective Analysis of Carbon Fluxes in the Canadian Forest Sector**
559 citations
Ecological Applications · 9, 526-547
https://exaly.com/article/30967732

142 **A 70-Year Retrospective Analysis of Carbon Fluxes in the Canadian Forest Sector**
11 citations
Ecological Applications · 9, 526
https://exaly.com/article/88399345

1998

143 **Carbon Budget Implications of the Transition From Natural to Managed Disturbance Regimes in Forest Landscapes**
10 citations
Mitigation and Adaptation Strategies for Global Change · 2, 405-421
https://exaly.com/article/27171558

144 **Past and Possible Future Carbon Dynamics of Canada's Boreal Forest Ecosystems**
3 citations
Journal unavailable
https://exaly.com/article/83946558

1997

145 **Comprehensive Assessment of Carbon Stocks and Fluxes in a Boreal-Cordilleran Forest Management Unit**
36 citations
Canadian Journal of Forest Research · 27, 2005-2016
https://exaly.com/article/28155268

Ordered by publication year, newest first

1997 / continued

146 **Carbon Budget Implications of the Transition From Natural to Manged Disturbance Regimes in Forest Landscapes** — 55 citations

Mitigation and Adaptation Strategies for Global Change · 2, 405-421

https://exaly.com/article/28636330

1996

147 **Estimation of Root Biomass and Dynamics for the Carbon Budget Model of the Canadian Forest Sector** — 184 citations

Canadian Journal of Forest Research · 26, 1973-1979

https://exaly.com/article/26713962

148 **Retrospective Assessment of Carbon Flows in Canadian Boreal Forests** — 35 citations

Journal unavailable

https://exaly.com/article/83863230

149 **WG2 Summary: Forests and the Global Carbon Cycle: Past, Present, and Future Role** — 1 citations

Journal unavailable

https://exaly.com/article/83863231

150 **Effects of Forest Management, Harvesting and Wood Processing on Ecosystem Carbon Dynamics: A Boreal Case Study** — 13 citations

Journal unavailable

https://exaly.com/article/83863238

1995

151 **An Analysis of Future Carbon Budgets of Canadian Boreal Forests** — 62 citations

Water, Air, and Soil Pollution · 82, 321-331

https://exaly.com/article/25911524

152 **Tellus B: Chemical and Physical Meteorology** — 60 citations

Tellus, Series B: Chemical and Physical Meteorology · 47, 170-177

https://exaly.com/article/25944761

153 **20th Century Carbon Budget of Canadian Forests** — 61 citations

Tellus, Series B: Chemical and Physical Meteorology · 47, 170

https://exaly.com/article/26152668

154 **An Analysis of Future Carbon Budgets of Canadian Boreal Forests** — 9 citations

Journal unavailable

https://exaly.com/article/84117832

Ordered by publication year, newest first

1995 / continued

155 **Global Climate Change: Disturbance Regimes and Biospheric Feedbacks of Temperate and Boreal Forests**

Journal unavailable

https://exaly.com/article/172342858

28 citations

1994

156 **The Carbon Budget of Canadian Forests: A Sensitivity Analysis of Changes in Disturbance Regimes, Growth Rates, and Decomposition Rates**

Environmental Pollution · 83, 55-61

https://exaly.com/article/25354540

57 citations

1993

157 **Boreal Forests and Tundra**

Water, Air, and Soil Pollution · 70, 39-53

https://exaly.com/article/23859048

205 citations

158 **Conntribution of Northern Forests to the Global C Cycle: Canada as a Case Study**

Water, Air, and Soil Pollution · 70, 163-176

https://exaly.com/article/23859055

58 citations

159 **Contribution of Northern Forests to the Global C Cycle: Canada as a Case Study**

Journal unavailable

https://exaly.com/article/84087303

5 citations

160 **Boreal Forests and Tundra**

Journal unavailable

https://exaly.com/article/84087312

36 citations

1987

161 **Analysis of Some Sources of Error in Methods Used to Determine Fine Root Production in Forest Ecosystems: A Simulation Approach**

Canadian Journal of Forest Research · 17, 909-912

https://exaly.com/article/19191006

101 citations

End of list · 161 articles. Citation counts use Exaly's peer-reviewed cohort.