

# Werner A Kurz

## List of Publications by Citations

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107  
papers

11,064  
citations

40  
h-index

105  
g-index

119  
ext. papers

12,551  
ext. citations

6  
avg, IF

5.88  
L-index

#	Paper	IF	Citations
107	A large and persistent carbon sink in the world's forests. <i>Science</i> , <b>2011</b> , 333, 988-93	33.3	3950
106	Mountain pine beetle and forest carbon feedback to climate change. <i>Nature</i> , <b>2008</b> , 452, 987-90	50.4	1359
105	FOREST CARBON SINKS IN THE NORTHERN HEMISPHERE <b>2002</b> , 12, 891-899		578
104	A 70-YEAR RETROSPECTIVE ANALYSIS OF CARBON FLUXES IN THE CANADIAN FOREST SECTOR <b>1999</b> , 9, 526-547		466
103	Risk of natural disturbances makes future contribution of Canada's forests to the global carbon cycle highly uncertain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 1551-5	11.5	372
102	CBM-CFS3: A model of carbon-dynamics in forestry and land-use change implementing IPCC standards. <i>Ecological Modelling</i> , <b>2009</b> , 220, 480-504	3	322
101	An inventory-based analysis of Canada's managed forest carbon dynamics, 1990 to 2008. <i>Global Change Biology</i> , <b>2011</b> , 17, 2227-2244	11.4	203
100	Belowground biomass dynamics in the Carbon Budget Model of the Canadian Forest Sector: recent improvements and implications for the estimation of NPP and NEP. <i>Canadian Journal of Forest Research</i> , <b>2003</b> , 33, 126-136	1.9	183
99	Boreal forests and tundra. <i>Water, Air, and Soil Pollution</i> , <b>1993</b> , 70, 39-53	2.6	182
98	No growth stimulation of Canada's boreal forest under half-century of combined warming and CO2 fertilization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E8406-E8414	11.5	161
97	Estimation of root biomass and dynamics for the carbon budget model of the Canadian forest sector. <i>Canadian Journal of Forest Research</i> , <b>1996</b> , 26, 1973-1979	1.9	148
96	Animating the Carbon Cycle. <i>Ecosystems</i> , <b>2014</b> , 17, 344-359	3.9	123
95	Factoring out natural and indirect human effects on terrestrial carbon sources and sinks. <i>Environmental Science and Policy</i> , <b>2007</b> , 10, 370-384	6.2	115
94	Interannual variability of net ecosystem productivity in forests is explained by carbon flux phenology in autumn. <i>Global Ecology and Biogeography</i> , <b>2013</b> , 22, 994-1006	6.1	106
93	Negative impacts of high temperatures on growth of black spruce forests intensify with the anticipated climate warming. <i>Global Change Biology</i> , <b>2016</b> , 22, 627-43	11.4	104
92	Quantifying the biophysical climate change mitigation potential of Canada's forest sector. <i>Biogeosciences</i> , <b>2014</b> , 11, 3515-3529	4.6	101
91	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. <i>Global Change Biology</i> , <b>2012</b> , 18, 1282-1299	11.4	99

90	Land surface phenology from optical satellite measurement and CO2 eddy covariance technique. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		83
89	Could increased boreal forest ecosystem productivity offset carbon losses from increased disturbances?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2008</b> , 363, 2261-9	5.8	82
88	Estimating direct carbon emissions from Canadian wildland fires. <i>International Journal of Wildland Fire</i> , <b>2007</b> , 16, 593	3.2	82
87	Relationships between individual-tree mortality and water-balance variables indicate positive trends in water stress-induced tree mortality across North America. <i>Global Change Biology</i> , <b>2017</b> , 23, 1691-1710	11.4	77
86	Estimating time since forest harvest using segmented Landsat ETM+ imagery. <i>Remote Sensing of Environment</i> , <b>2004</b> , 93, 179-187	13.2	68
85	Future Spruce Budworm Outbreak May Create a Carbon Source in Eastern Canadian Forests. <i>Ecosystems</i> , <b>2010</b> , 13, 917-931	3.9	67
84	Future quantities and spatial distribution of harvesting residue and dead wood from natural disturbances in Canada. <i>Forest Ecology and Management</i> , <b>2010</b> , 260, 181-192	3.9	66
83	Developing Canada's National Forest Carbon Monitoring, Accounting and Reporting System to Meet the Reporting Requirements of the Kyoto Protocol. <i>Mitigation and Adaptation Strategies for Global Change</i> , <b>2006</b> , 11, 33-43	3.9	65
82	TELSA: the Tool for Exploratory Landscape Scenario Analyses. <i>Computers and Electronics in Agriculture</i> , <b>2000</b> , 27, 227-242	6.5	62
81	National level forest monitoring and modeling in Canada. <i>Progress in Planning</i> , <b>2004</b> , 61, 365-381	3.2	59
80	Forest carbon accounting at the operational scale. <i>Forestry Chronicle</i> , <b>2002</b> , 78, 672-679	1	59
79	Accelerating regrowth of temperate-maritime forests due to environmental change. <i>Global Change Biology</i> , <b>2012</b> , 18, 2026-2040	11.4	57
78	Reconciling global-model estimates and country reporting of anthropogenic forest CO2 sinks. <i>Nature Climate Change</i> , <b>2018</b> , 8, 914-920	21.4	57
77	Estimating product and energy substitution benefits in national-scale mitigation analyses for Canada. <i>GCB Bioenergy</i> , <b>2017</b> , 9, 1071-1084	5.6	56
76	Interannual and spatial impacts of phenological transitions, growing season length, and spring and autumn temperatures on carbon sequestration: A North America flux data synthesis. <i>Global and Planetary Change</i> , <b>2012</b> , 92-93, 179-190	4.2	54
75	The carbon budget of Canadian forests: a sensitivity analysis of changes in disturbance regimes, growth rates, and decomposition rates. <i>Environmental Pollution</i> , <b>1994</b> , 83, 55-61	9.3	53
74	Contribution of northern forests to the global C cycle: Canada as a case study. <i>Water, Air, and Soil Pollution</i> , <b>1993</b> , 70, 163-176	2.6	51
73	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. <i>Agricultural and Forest Meteorology</i> , <b>2012</b> , 164, 29-38	5.8	50

72	Derivation of a spatially explicit 86-year retrospective carbon budget for a landscape undergoing conversion from old-growth to managed forests on Vancouver Island, BC. <i>Forest Ecology and Management</i> , <b>2008</b> , 256, 1677-1691	3.9	47
71	Accounting of forest carbon sinks and sources under a future climate protocol factoring out past disturbance and management effects on age-class structure. <i>Environmental Science and Policy</i> , <b>2008</b> , 11, 669-686	6.2	47
70	North America's net terrestrial CO <sub>2</sub> exchange with the atmosphere 1990-2009. <i>Biogeosciences</i> , <b>2015</b> , 12, 399-414	4.6	44
69	Climate change mitigation strategies in the forest sector: biophysical impacts and economic implications in British Columbia, Canada. <i>Mitigation and Adaptation Strategies for Global Change</i> , <b>2018</b> , 23, 257-290	3.9	42
68	Approaches to monitoring changes in carbon stocks for REDD+. <i>Carbon Management</i> , <b>2013</b> , 4, 519-537	3.3	40
67	The carbon implications of large-scale afforestation of agriculturally marginal land with short-rotation willow in Saskatchewan. <i>GCB Bioenergy</i> , <b>2012</b> , 4, 70-87	5.6	40
66	Habitat patterns in forested landscapes: management practices and the uncertainty associated with natural disturbances. <i>Computers and Electronics in Agriculture</i> , <b>2000</b> , 27, 243-262	6.5	40
65	Uncertainty of 21st century growing stocks and GHG balance of forests in British Columbia, Canada resulting from potential climate change impacts on ecosystem processes. <i>Forest Ecology and Management</i> , <b>2011</b> , 262, 827-837	3.9	38
64	Effects of harvesting intensity on carbon stocks in eastern Canadian red spruce ( <i>Picea rubens</i> ) forests: An exploratory analysis using the CBM-CFS3 simulation model. <i>Forest Ecology and Management</i> , <b>2008</b> , 255, 3632-3641	3.9	37
63	Application of the CBM-CFS3 model to estimate Italy's forest carbon budget, 1995-2020. <i>Ecological Modelling</i> , <b>2013</b> , 266, 144-171	3	36
62	Science-based approach for credible accounting of mitigation in managed forests. <i>Carbon Balance and Management</i> , <b>2018</b> , 13, 8	3.6	32
61	Improved assessment of gross and net primary productivity of Canada's landmass. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2013</b> , 118, 1546-1560	3.7	31
60	Temporal changes of forest net primary production and net ecosystem production in west central Canada associated with natural and anthropogenic disturbances. <i>Canadian Journal of Forest Research</i> , <b>2003</b> , 33, 2340-2351	1.9	30
59	Climate change mitigation potential of local use of harvest residues for bioenergy in Canada. <i>GCB Bioenergy</i> , <b>2017</b> , 9, 817-832	5.6	29
58	Are Mosses Required to Accurately Predict Upland Black Spruce Forest Soil Carbon in National-Scale Forest C Accounting Models?. <i>Ecosystems</i> , <b>2013</b> , 16, 1071-1086	3.9	29
57	Historic carbon budgets of Ontario forest ecosystems. <i>Forest Ecology and Management</i> , <b>2002</b> , 169, 103-114	3.4	28
56	Climate, economic, and environmental impacts of producing wood for bioenergy. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 050201	6.2	28
55	The European forest sector: past and future carbon budget and fluxes under different management scenarios. <i>Biogeosciences</i> , <b>2017</b> , 14, 2387-2405	4.6	27

54	Mapping the environmental limitations to growth of coastal Douglas-fir stands on Vancouver Island, British Columbia. <i>Tree Physiology</i> , <b>2007</b> , 27, 805-15	4.2	27
53	A 100-year conservation experiment: Impacts on forest carbon stocks and fluxes. <i>Forest Ecology and Management</i> , <b>2013</b> , 310, 242-255	3.9	24
52	Potential near-future carbon uptake overcomes losses from a large insect outbreak in British Columbia, Canada. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 2590-2598	4.9	23
51	Integration of Landsat time series and field plots for forest productivity estimates in decision support models. <i>Forest Ecology and Management</i> , <b>2016</b> , 376, 284-297	3.9	23
50	Increasing net ecosystem biomass production of Canada's boreal and temperate forests despite decline in dry climates. <i>Global Biogeochemical Cycles</i> , <b>2017</b> , 31, 134-158	5.9	23
49	Accelerating forest growth enhancement due to climate and atmospheric changes in British Columbia, Canada over 1956-2001. <i>Scientific Reports</i> , <b>2014</b> , 4, 4461	4.9	23
48	An ecosystem context for global gross forest cover loss estimates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 9025-6	11.5	23
47	Estimating net primary production of forests in the Canadian Prairie Provinces using an inventory-based carbon budget model. <i>Canadian Journal of Forest Research</i> , <b>2002</b> , 32, 161-169	1.9	23
46	Natural climate solutions for Canada. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	23
45	A practical approach for assessing the sensitivity of the Carbon Budget Model of the Canadian Forest Sector (CBM-CFS3). <i>Ecological Modelling</i> , <b>2008</b> , 219, 373-382	3	22
44	Modelling forest carbon stock changes as affected by harvest and natural disturbances. II. EU-level analysis. <i>Carbon Balance and Management</i> , <b>2016</b> , 11, 20	3.6	20
43	If forest dynamics in Canada's west are driven mainly by competition, why did they change? Half-century evidence says: Climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E4340	11.5	19
42	Modelling forest carbon stock changes as affected by harvest and natural disturbances. I. Comparison with countries' estimates for forest management. <i>Carbon Balance and Management</i> , <b>2016</b> , 11, 5	3.6	19
41	Carbon sequestration by white spruce shelterbelts in Saskatchewan, Canada: 3PG and CBM-CFS3 model simulations. <i>Ecological Modelling</i> , <b>2016</b> , 325, 35-46	3	19
40	Climate and atmospheric drivers of historical terrestrial carbon uptake in the province of British Columbia, Canada. <i>Biogeosciences</i> , <b>2014</b> , 11, 635-649	4.6	19
39	A generalised approach of accounting for biospheric carbon stock changes under the Kyoto Protocol. <i>Environmental Science and Policy</i> , <b>2001</b> , 4, 73-85	6.2	19
38	Retrospective assessment of carbon flows in Canadian boreal forests <b>1996</b> , 173-182		19
37	Comparing measured and modelled forest carbon stocks in high-boreal forests of harvest and natural-disturbance origin in Labrador, Canada. <i>Ecological Modelling</i> , <b>2010</b> , 221, 825-839	3	18

36	Delineating managed land for reporting national greenhouse gas emissions and removals to the United Nations framework convention on climate change. <i>Carbon Balance and Management</i> , <b>2018</b> , 13, 9	3.6	17
35	Adaptive cluster sampling for estimation of deforestation rates. <i>European Journal of Forest Research</i> , <b>2005</b> , 124, 207-220	2.7	17
34	Improving carbon monitoring and reporting in forests using spatially-explicit information. <i>Carbon Balance and Management</i> , <b>2016</b> , 11, 23	3.6	17
33	Attributing changes in land cover using independent disturbance datasets: a case study of the Yucatan Peninsula, Mexico. <i>Regional Environmental Change</i> , <b>2016</b> , 16, 213-228	4.3	15
32	Carbon budget implications of the transition from natural to managed disturbance regimes in forest landscapes. <i>Mitigation and Adaptation Strategies for Global Change</i> , <b>1997</b> , 2, 405-421	3.9	15
31	A systems approach to assess climate change mitigation options in landscapes of the United States forest sector. <i>Carbon Balance and Management</i> , <b>2018</b> , 13, 13	3.6	15
30	Constraining the organic matter decay parameters in the CBM-CFS3 using Canadian National Forest Inventory data and a Bayesian inversion technique. <i>Ecological Modelling</i> , <b>2017</b> , 364, 1-12	3	14
29	Choice of satellite imagery and attribution of changes to disturbance type strongly affects forest carbon balance estimates. <i>Carbon Balance and Management</i> , <b>2015</b> , 10, 30	3.6	14
28	Implications of differing input data sources and approaches upon forest carbon stock estimation. <i>Environmental Monitoring and Assessment</i> , <b>2010</b> , 166, 543-61	3.1	14
27	Approximating natural landscape pattern using aggregated harvest. <i>Canadian Journal of Forest Research</i> , <b>2007</b> , 37, 1846-1853	1.9	13
26	Climate change mitigation in Canada's forest sector: a spatially explicit case study for two regions. <i>Carbon Balance and Management</i> , <b>2018</b> , 13, 11	3.6	13
25	Carbon dynamics on agricultural land reverting to woody land in Ontario, Canada. <i>Journal of Environmental Management</i> , <b>2017</b> , 193, 318-325	7.9	12
24	Simulating impacts of water stress on woody biomass in the southern boreal region of western Canada using a dynamic vegetation model. <i>Agricultural and Forest Meteorology</i> , <b>2014</b> , 198-199, 142-154	5.8	12
23	Cost of climate change mitigation in Canada's forest sector. <i>Canadian Journal of Forest Research</i> , <b>2017</b> , 47, 604-614	1.9	11
22	Applying a systems approach to assess carbon emission reductions from climate change mitigation in Mexico's forest sector. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 035003	6.2	11
21	Effects of forest management, harvesting and wood processing on ecosystem carbon dynamics: a boreal case study <b>1996</b> , 279-292		10
20	The Canadian model for peatlands (CaMP): A peatland carbon model for national greenhouse gas reporting. <i>Ecological Modelling</i> , <b>2020</b> , 431, 109164	3	10
19	Modelling moss-derived carbon in upland black spruce forests. <i>Canadian Journal of Forest Research</i> , <b>2016</b> , 46, 520-534	1.9	10

18	Tree Ring Reconstructions of Stemwood Biomass Indicate Increases in the Growth Rate of Black Spruce Trees Across Boreal Forests of Canada. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2019</b> , 124, 2460-2480	3.7	9
17	The impact of tropospheric ozone on landscape-level merchantable biomass and ecosystem carbon in Canadian forests. <i>European Journal of Forest Research</i> , <b>2013</b> , 132, 71-81	2.7	9
16	Climate change mitigation in British Columbia's forest sector: GHG reductions, costs, and environmental impacts. <i>Carbon Balance and Management</i> , <b>2020</b> , 15, 21	3.6	9
15	Restoring Degraded Lands. <i>Annual Review of Environment and Resources</i> , <b>2021</b> , 46,	17.2	7
14	A Canadian upland forest soil profile and carbon stocks database. <i>Ecology</i> , <b>2018</b> , 99, 989	4.6	5
13	Low Tree-Growth Elasticity of Forest Biomass Indicated by an Individual-Based Model. <i>Forests</i> , <b>2018</b> , 9, 21	2.8	4
12	Quantifying the biophysical climate change mitigation potential of Canada's forest sector		4
11	Empirical and Predicted Boreal Forest Carbon Pools Following Stem-Only Harvesting in Quebec, Canada. <i>Soil Science Society of America Journal</i> , <b>2019</b> , 83, S59	2.5	3
10	Statistical performance and behaviour of environmentally-sensitive composite models of lodgepole pine growth. <i>Forest Ecology and Management</i> , <b>2018</b> , 408, 157-173	3.9	3
9	Climate and atmospheric drivers of historical terrestrial carbon uptake in the province of British Columbia, Canada		2
8	North America's net terrestrial carbon exchange with the atmosphere 1990-2009		2
7	Past and Possible Future Carbon Dynamics of Canada's Boreal Forest Ecosystems <b>1998</b> , 63-88		2
6	Inward- versus outward-focused bioeconomy strategies for British Columbia's forest products industry: a harvested wood products carbon storage and emission perspective. <i>Carbon Balance and Management</i> , <b>2021</b> , 16, 30	3.6	2
5	Deforestation mapping sampling designs for Canadian landscapes. <i>Canadian Journal of Forest Research</i> , <b>2015</b> , 45, 1564-1576	1.9	1
4	WG2 Summary: Forests and the global carbon cycle: past, present, and future role <b>1996</b> , 199-208		1
3	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). <i>Carbon Balance and Management</i> , <b>2021</b> , 16, 3	3.6	1
2	Projected forest carbon sinks highly vulnerable to increases in natural disturbances. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2009</b> , 6, 042020	0.3	
1	Bottom-up approaches for estimating terrestrial GHG budgets: Bookkeeping, process-based modeling, and data-driven methods <b>2022</b> , 59-85		

