Alexis Achim

List of Publications by Year in descending order

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Διέχις Δρημ

| # | Article | IF | CITATIONS |
|----|--|--------------|-----------|
| 1 | Broadâ€scale wood degradation dynamics in the face of climate change: A metaâ€analysis. GCB Bioenergy, 2022, 14, 941-958. | 5.6 | 6 |
| 2 | Deciphering the black spruce response to climate variation across eastern Canada using a meta-analysis approach. Forest Ecology and Management, 2022, 520, 120375. | 3.2 | 5 |
| 3 | Glued-laminated timber from northern hardwoods: Effect of finger-joint profile on lamellae tensile strength. Construction and Building Materials, 2021, 271, 121591. | 7.2 | 11 |
| 4 | Progrès dans l'application de la télédétection pour les besoins en matière d'information sur les f au Canada : leçons tirées d'une collaboration nationale d'intervenants universitaires, industriels et gouvernementaux. Forestry Chronicle, 2021, 97, 127-147. | orêts 0.6 | 0 |
| 5 | Black spruce trees from uneven-aged, old-growth stands produce more dimensionally stable wood than trees from fire-origin even-aged stands. Wood Science and Technology, 2021, 55, 1457-1483. | 3.2 | 1 |
| 6 | Classification of high-voltage power line structures in low density ALS data acquired over broad non-urban areas. PeerJ Computer Science, 2021, 7, e672. | 4.5 | 2 |
| 7 | Increased levels of harvest may favour sugar maple regeneration over American beech in northern hardwoods. Forest Ecology and Management, 2021, 499, 119607. | 3.2 | 7 |
| 8 | Estimation of individual knot volumes by mixed-effects modelling. Canadian Journal of Forest Research, 2020, 50, 81-88. | 1.7 | 5 |
| 9 | lidR: An R package for analysis of Airborne Laser Scanning (ALS) data. Remote Sensing of Environment, 2020, 251, 112061. | 11.0 | 366 |
| 10 | Fire as a driver of wood mechanical traits in the boreal forest. Forest Ecology and Management, 2020, 476, 118460. | 3.2 | 2 |
| 11 | Use of northern hardwoods in glued-laminated timber: a study of bondline shear strength and resistance to moisture. European Journal of Wood and Wood Products, 2020, 78, 891-903. | 2.9 | 10 |
| 12 | An accumulation of climatic stress events has led to years of reduced growth for sugar maple in southern Quebec, Canada. Ecosphere, 2020, 11, e03183. | 2.2 | 13 |
| 13 | Long-term tree and stand growth dynamics after thinning of various intensities in a temperate mixed forest. Forest Ecology and Management, 2020, 473, 118311. | 3.2 | 17 |
| 14 | Relevance of stem and crown defects to estimate tree vigour in northern hardwood forests. Forestry, 2020, 93, 630-640. | 2.3 | 5 |
| 15 | Strength grading of northern hardwood species for structural engineered wood products: Identification of the relevant indicating properties. BioResources, 2020, 15, 8813-8832. | 1.0 | 3 |
| 16 | Primary and Secondary Branch Growth in Black Spruce and Balsam Fir after Careful Logging around Small Merchantable Stems (CLASS). Forests, 2019, 10, 500. | 2.1 | 2 |
| 17 | Understanding the interactions between wind and trees: an introduction to the IUFRO 8th Wind and Trees Conference (2017). Forestry, 2019, 92, 375-380. | 2.3 | 13 |
| 18 | A dendrochronological reconstruction of sugar maple growth and mortality dynamics in partially cut northern hardwood forests. Forest Ecology and Management, 2019, 437, 17-26. | 3.2 | 22 |

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|----|---|-------------------|---------------------|
| 19 | Untapped volume of surplus forest growth as feedstock for bioenergy. Biomass and Bioenergy, 2019, 120, 376-386. | 5.7 | 31 |
| 20 | Comparison of carbon balance and climate change mitigation potential of forest management strategies in the boreal forest of Quebec (Canada). Forestry, 2019, 92, 264-277. | 2.3 | 22 |
| 21 | Wood quality of black spruce and balsam fir trees defoliated by spruce budworm: A case study in the boreal forest of Quebec, Canada. Forest Ecology and Management, 2019, 437, 201-210. | 3.2 | 10 |
| 22 | Characterizing wood density–climate relationships along the stem in black spruce (Picea mariana) Tj ETQq0 0 (2019, 92, 357-374. | 0 rgBT /Ov 2.3 | erlock 10 Tf 5 5 |
| 23 | A mathematical framework to describe the effect of beam incidence angle on metrics derived from airborne LiDAR: The case of forest canopies approaching turbid medium behaviour. Remote Sensing of Environment, 2018, 209, 824-834. | 11.0 | 20 |
| 24 | Effect of thinning on the relationship between mean ring density and climate in black spruce (Picea) Tj ETQq0 0 (| OrgBT ∕Ov | erlock 10 Tf 5 |
| 25 | Growth and wood quality of black spruce and balsam fir following careful logging around small merchantable stems (CLASS) in the boreal forest of Quebec, Canada. Forestry, 2018, 91, 271-282. | 2.3 | 13 |
| 26 | Comparison of wood density in roots and stems of black spruce before and after commercial thinning. Forest Ecology and Management, 2018, 408, 94-102. | 3.2 | 4 |
| 27 | Influence of shifts over an 80-year period in forest composition on soil properties. Plant and Soil, 2018, 433, 111-125. | 3.7 | 9 |
| 28 | Assessing the potential impact of a biorefinery product from sawmill residues on the profitability of a hardwood value chain. Canadian Journal of Forest Research, 2018, 48, 857-868. | 1.7 | 8 |
| 29 | Effects of early respacing on the density and microfibril angle of Sitka spruce wood. Forestry, 2018, 91, 307-319. | 2.3 | 10 |
| 30 | Dynamics of detrital carbon pools following harvesting of a humid eastern Canadian balsam fir boreal forest. Forest Ecology and Management, 2018, 430, 33-42. | 3.2 | 21 |
| 31 | Pressurized hot water treatment of sugar maple and yellow birch wood particles for high quality fuel pellet production. Biomass and Bioenergy, 2017, 98, 206-213. | 5.7 | 10 |
| 32 | A financial analysis of the potential of dead trees from the boreal forest of eastern Canada to serve as feedstock for wood pellet export. Applied Energy, 2017, 198, 410-425. | 10.1 | 23 |
| 33 | Functional response of coniferous trees and stands to commercial thinning in eastern Canada. Forest Ecology and Management, 2017, 384, 6-16. | 3.2 | 19 |
| 34 | Removing bias from LiDAR-based estimates of canopy height: Accounting for the effects of pulse density and footprint size. Remote Sensing of Environment, 2017, 198, 1-16. | 11.0 | 69 |
| 35 | Effect of Tree Spacing on Tree Level Volume Growth, Morphology, and Wood Properties in a 25-Year-Old Pinus banksiana Plantation in the Boreal Forest of Quebec. Forests, 2016, 7, 276. | 2.1 | 46 |
| 36 | Relationship between ethanolic extracts of yellow birch and tree characteristics. Industrial Crops and Products, 2016, 94, 1-8. | 5.2 | 6 |

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|----|--|-----------------|--------------------------|
| 37 | Models for Predicting Clearwood Mechanical Properties of Scots Pine. Forest Science, 2016, 62, 403-413. | 1.0 | 16 |
| 38 | Adjusting harvest rules for red oak in selection cuts of Canadian northern hardwood forests. Forestry, 2016, 89, 402-411. | 2.3 | 4 |
| 39 | Large-Scale Variations in Lumber Value Recovery of Yellow Birch and Sugar Maple in Quebec, Canada. PLoS ONE, 2015, 10, e0136674. | 2.5 | 6 |
| 40 | Effect of process parameters and raw material characteristics on physical and mechanical properties of wood pellets made from sugar maple particles. Biomass and Bioenergy, 2015, 80, 338-349. | 5.7 | 48 |
| 41 | Partial harvesting in boreal mixedwoods: A case for planned heterogeneity in industrial silvicultural prescriptions. Forest Ecology and Management, 2015, 358, 291-302. | 3.2 | 14 |
| 42 | Models of knot and stem development in black spruce trees indicate a shift in allocation priority to branches when growth is limited. PeerJ, 2015, 3, e873. | 2.0 | 11 |
| 43 | Wood Density-Climate Relationships Are Mediated by Dominance Class in Black Spruce (Picea mariana) Tj ETQq1 | 1 0,7843 2.1 | 14 ₇ rgBT /Ov |
| 44 | StatSAW: modelling lumber product assortment using zero-inflated Poisson regression. Canadian Journal of Forest Research, 2014, 44, 638-647. | 1.7 | 14 |
| 45 | Black spruce trees from fire-origin stands have higher wood mechanical properties than those from older, irregular stands. Canadian Journal of Forest Research, 2014, 44, 118-127. | 1.7 | 23 |
| 46 | Integrating standing value estimations into tree marking guidelines to meet wood supply objectives. Canadian Journal of Forest Research, 2014, 44, 750-759. | 1.7 | 27 |
| 47 | Modelling stem selection in northern hardwood stands: assessing the effects of tree vigour and spatial correlations using a copula approach. Forestry, 2014, 87, 607-617. | 2.3 | 16 |
| 48 | Radial trends in black spruce wood density can show an age- and growth-related decline. Annals of Forest Science, 2014, 71, 603-615. | 2.0 | 28 |
| 49 | Branch models for white spruce (Picea glauca (Moench) Voss) in naturally regenerated stands. Forest Ecology and Management, 2014, 325, 74-89. | 3.2 | 9 |
| 50 | Models for predicting wood density variation in Scots pine. Forestry, 2014, 87, 449-458. | 2.3 | 69 |
| 51 | Within-tree patterns of wood stiffness for white spruce (<i>Picea glauca</i>) and trembling aspen (<i>Populus tremuloides</i>). Canadian Journal of Forest Research, 2014, 44, 162-171. | 1.7 | 21 |
| 52 | Composition of ethanolic extracts of wood and bark from Acer saccharum and Betula alleghaniensis trees of different vigor classes. Industrial Crops and Products, 2013, 41, 179-187. | 5.2 | 28 |
| 53 | Regional variation in the proportion of red heartwood in sugar maple and yellow birch. Canadian Journal of Forest Research, 2013, 43, 278-287. | 1.7 | 22 |
| 54 | Models for predicting microfibril angle variation in Scots pine. Annals of Forest Science, 2013, 70, 209-218. | 2.0 | 50 |

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| 55 | Quantifying the influence of live crown ratio on the mechanical properties of clear wood. Forestry, 2013, 86, 361-369. | 2.3 | 45 |
| 56 | Using a Standing-Tree Acoustic Tool to Identify Forest Stands for the Production of Mechanically-Graded Lumber. Sensors, 2013, 13, 3394-3408. | 3.8 | 38 |
| 57 | Improving tree selection for partial cutting through joint probability modelling of tree vigor and quality. Canadian Journal of Forest Research, 2013, 43, 288-298. | 1.7 | 41 |
| 58 | Genetic Improvement of White Spruce Mechanical Wood Traits—Early Screening by Means of Acoustic Velocity. Forests, 2013, 4, 575-594. | 2.1 | 63 |
| 59 | Assessing the Potential Stem Growth and Quality of Yellow Birch Prior to Restoration: A Case Study in Eastern Canada. Forests, 2013, 4, 766-785. | 2.1 | 1 |
| 60 | Lumber recovery and value of dead and sound black spruce trees grown in the North Shore region of Québec. Annals of Forest Science, 2012, 69, 603-615. | 2.0 | 18 |
| 61 | Influence of early re-spacing on Sitka spruce branch structure. Annals of Forest Science, 2012, 69, 93-104. | 2.0 | 32 |
| 62 | Detection of red heartwood in paper birch (<i>Betula papyrifera</i>) using external stem characteristics. Canadian Journal of Forest Research, 2011, 41, 1491-1499. | 1.7 | 13 |
| 63 | Using Acoustic Sensors to Improve the Efficiency of the Forest Value Chain in Canada: A Case Study with Laminated Veneer Lumber. Sensors, 2011, 11, 5716-5728. | 3.8 | 19 |
| 64 | Relating mechanical strength at the stem level to values obtained from defect-free wood samples. Trees - Structure and Function, 2010, 24, 1127-1135. | 1.9 | 22 |
| 65 | Wood Degradation after Windthrow in a Northern Environment. Forest Products Journal, 2010, 60, 200-206. | 0.4 | 19 |
| 66 | Modelling the anchorage of shallow-rooted trees. Forestry, 2009, 82, 273-284. | 2.3 | 26 |
| 67 | Effects of early re-spacing on the physical and mechanical properties of Sitka spruce structural timber. Forest Ecology and Management, 2009, 258, 1174-1180. | 3.2 | 47 |
| 68 | The stability of different silvicultural systems: a wind-tunnel investigation. Forestry, 2005, 78, 471-484. | 2.3 | 74 |
| 69 | Does steep terrain influence tree stability? A field investigation. Canadian Journal of Forest Research, 2005, 35, 2360-2367. | 1.7 | 69 |
| 70 | Changes in root morphology after precommercial thinning in balsam fir stands. Canadian Journal of Forest Research, 2003, 33, 2452-2459. | 1.7 | 29 |
| 71 | Predicting Lumber Grade Occurrence and Volume in Sugar Maple and Yellow Birch Logs. Forest Science, 0, , . | 1.0 | 1 |