

Brigitte Leblon

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69

papers

812

citations

15

h-index

24

g-index

74

ext. papers

988

ext. citations

3.2

avg, IF

4.34

L-index

#	Paper	IF	Citations
69	On the use of X-ray computed tomography for determining wood properties: a review1This article is a contribution to the series The Role of Sensors in the New Forest Products Industry and Bioeconomy.. <i>Canadian Journal of Forest Research</i> , 2011 , 41, 2120-2140	1.9	70
68	A review of near-infrared spectroscopy for monitoring moisture content and density of solid wood. <i>Forestry Chronicle</i> , 2013 , 89, 595-606	1	50
67	Savannah woody structure modelling and mapping using multi-frequency (X-, C- and L-band) Synthetic Aperture Radar data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015 , 105, 234-250 ^{11.8}	11.8	46
66	Toward structural assessment of semi-arid African savannahs and woodlands: The potential of multitemporal polarimetric RADARSAT-2 fine beam images. <i>Remote Sensing of Environment</i> , 2013 , 138, 215-231	13.2	42
65	The use of remotely sensed data in estimation of PAR use efficiency and biomass production of flooded rice. <i>Remote Sensing of Environment</i> , 1991 , 38, 147-158	13.2	41
64	Monitoring Forest Fire Danger with Remote Sensing. <i>Natural Hazards</i> , 2005 , 35, 343-359	3	40
63	Fire Danger Monitoring Using ERS-1 SAR Images in the Case of Northern Boreal Forests. <i>Natural Hazards</i> , 2002 , 27, 231-255	3	31
62	Canopy Height Model (CHM) Derived From a TanDEM-X InSAR DSM and an Airborne Lidar DTM in Boreal Forest. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016 , 9, 381-397	4.7	27
61	Evaluation of polarimetric Radarsat-2 SAR data for development of soil moisture retrieval algorithms over a chronosequence of black spruce boreal forests. <i>Remote Sensing of Environment</i> , 2013 , 132, 71-85	13.2	27
60	Identification of selected internal wood characteristics in computed tomography images of black spruce: a comparison study. <i>Journal of Wood Science</i> , 2009 , 55, 175-180	2.4	23
59	Forest wildfire hazard monitoring using remote sensing: A review. <i>International Journal of Remote Sensing</i> , 2001 , 20, 1-43		22
58	Using Linear Regression, Random Forests, and Support Vector Machine with Unmanned Aerial Vehicle Multispectral Images to Predict Canopy Nitrogen Weight in Corn. <i>Remote Sensing</i> , 2020 , 12, 2071 ⁵	5	21
57	Wetland Mapping with Landsat 8 OLI, Sentinel-1, ALOS-1 PALSAR, and LiDAR Data in Southern New Brunswick, Canada. <i>Remote Sensing</i> , 2020 , 12, 2095	5	20
56	Use of Remote Sensing in Wildfire Management 2012 ,		18
55	Surficial materials mapping in Nunavut, Canada with multibeam RADARSAT-2 dual-polarization C-HH and C-HV, LANDSAT-7 ETM+, and DEM data. <i>Canadian Journal of Remote Sensing</i> , 2012 , 38, 281-305 ^{1.8}	1.8	15
54	Predicting slow-drying fire weather index fuel moisture codes with NOAA-AVHRR images in Canada's northern boreal forests. <i>International Journal of Remote Sensing</i> , 2006 , 27, 3881-3902	3.1	15
53	Determination of moisture content and basic specific gravity of <i>Populus tremuloides</i> (Michx.) and <i>Populus balsamifera</i> (L.) logs using a portable near-infrared spectrometer. <i>Wood Material Science and Engineering</i> , 2015 , 10, 3-16	1.9	14

52	Potato Late Blight Detection at the Leaf and Canopy Levels Based in the Red and Red-Edge Spectral Regions. <i>Remote Sensing</i> , 2020 , 12, 1292	5	14
51	Determination of log moisture content using early-time ground penetrating radar signal. <i>Wood Material Science and Engineering</i> , 2015 , 10, 112-129	1.9	13
50	Using near-infrared hyperspectral images on subalpine fir board. Part 1: Moisture content estimation. <i>Wood Material Science and Engineering</i> , 2015 , 10, 27-40	1.9	12
49	Modelling and mapping permafrost at high spatial resolution using Landsat and Radarsat-2 images in Northern Ontario, Canada: Part 2 Regional mapping. <i>International Journal of Remote Sensing</i> , 2016 , 37, 2751-2779	3.1	12
48	Assessment of variations in air-dry wood density using time-of-flight near-infrared spectroscopy. <i>Wood Material Science and Engineering</i> , 2015 , 10, 57-68	1.9	11
47	Using near-infrared hyperspectral images on subalpine fir board. Part 2: Density and basic specific gravity estimation. <i>Wood Material Science and Engineering</i> , 2015 , 10, 41-56	1.9	10
46	Assessment of polarimetric SAR data for discrimination between wet versus dry soil moisture conditions. <i>International Journal of Remote Sensing</i> , 2013 , 34, 5709-5730	3.1	10
45	Mapping Pre-Fire Forest Conditions with NOAA-AVHRR Images in Northern Boreal Forests. <i>Geocarto International</i> , 2003 , 18, 21-32	2.7	10
44	Prediction of wood properties for thawed and frozen logs of quaking aspen, balsam poplar, and black spruce from near-infrared hyperspectral images. <i>Wood Science and Technology</i> , 2016 , 50, 221-243	2.5	9
43	The role of sensors in the new forest products industry and forest bioeconomy. <i>Canadian Journal of Forest Research</i> , 2011 , 41, 2097-2099	1.9	9
42	Determination of log moisture content using ground penetrating radar (GPR). Part 2. Propagation velocity (PV) method. <i>Holzforschung</i> , 2015 , 69, 1125-1132	2	8
41	Using cumulative NOAA-AVHRR spectral indices for estimating fire danger codes in northern boreal forests. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2007 , 9, 335-342	7.3	8
40	Intra-Field Canopy Nitrogen Retrieval from Unmanned Aerial Vehicle Imagery for Wheat and Corn Fields. <i>Canadian Journal of Remote Sensing</i> , 2020 , 46, 454-472	1.8	8
39	Modelling and mapping permafrost at high spatial resolution using Landsat and Radarsat images in northern Ontario, Canada: part 1 Model calibration. <i>International Journal of Remote Sensing</i> , 2016 , 37, 2727-2750	3.1	8
38	Determination of log moisture content using ground penetrating radar (GPR). Part 1. Partial least squares (PLS) method. <i>Holzforschung</i> , 2015 , 69, 1117-1123	2	7
37	Water content measurement in black spruce and aspen sapwood with benchtop and portable magnetic resonance devices. <i>Wood Material Science and Engineering</i> , 2015 , 10, 86-93	1.9	7
36	Potato Late Blight Detection at the Leaf and Canopy Level Using Hyperspectral Data. <i>Canadian Journal of Remote Sensing</i> , 2020 , 46, 390-413	1.8	7
35	Mapping forest canopy height using TanDEM-X DSM and airborne LiDAR DTM 2014 ,		7

34	Effects of incidence angles and image combinations on mapping accuracy of surficial materials in the Umiujalik Lake area, Nunavut, using RADARSAT-2 polarimetric and LANDSAT-7 images, and DEM data. Part 1. Nonpolarimetric analysis. <i>Canadian Journal of Remote Sensing</i> , 2012 , 38, 383-403	1.8	7
33	Identification of selected log characteristics from computed tomography images of sugar maple logs using maximum likelihood classifier and textural analysis. <i>Holzforschung</i> , 2008 , 62,	2	7
32	Estimation of Live Fuel Moisture Content 2003 , 63-90		7
31	Remote Sensing of Wildfires 2016 , 55-95		7
30	Effects of TanDEM-X Acquisition Parameters on the Accuracy of Digital Surface Models of a Boreal Forest Canopy. <i>Canadian Journal of Remote Sensing</i> , 2017 , 43, 194-207	1.8	6
29	Estimation of moisture content of trembling aspen (<i>Populus tremuloides</i> Michx.) strands by near infrared spectroscopy (NIRS). <i>European Journal of Wood and Wood Products</i> , 2015 , 73, 43-50	2.1	6
28	Prediction and evaluation of borate distribution in Eastern black spruce (<i>Picea mariana</i> var. <i>mariana</i>) wood products. <i>Wood Science and Technology</i> , 2015 , 49, 457-473	2.5	6
27	Moisture and surface quality sensing of Douglas-fir (<i>Pseudotsuga menziesii</i> var. <i>menziesii</i>) veneer products. <i>Forestry Chronicle</i> , 2013 , 89, 646-653	1	6
26	Effects of incidence angles on mapping accuracy of surficial materials in the Umiujalik Lake area, Nunavut, using RADARSAT-2 polarimetric SAR images. Part 2. Polarimetric analysis. <i>Canadian Journal of Remote Sensing</i> , 2012 , 38, 404-423	1.8	6
25	Methods Used to Estimate Moisture Content of Dead Wildland Fuels 2003 , 91-117		6
24	A semi-empirical model to estimate the biomass production of forest canopies from spectral variables Part 1: Relationship between spectral variables and light interception efficiency. <i>International Journal of Remote Sensing</i> , 1993 , 7, 109-125		6
23	Use of Radarsat-2 and ALOS-PALSAR SAR images for wetland mapping in New Brunswick 2014 ,		5
22	Reconstruction of 3D images of internal log characteristics by means of successive 2D log computed tomography images. <i>Holzforschung</i> , 2009 , 63,	2	5
21	Surface quality sensing of trembling aspen (<i>Populus tremuloides</i> Michx.) veneer products by near infrared spectroscopy. <i>Wood Material Science and Engineering</i> , 2015 , 10, 17-26	1.9	4
20	Delineation of Bare Soil Field Areas from Unmanned Aircraft System Imagery with the Mean Shift Unsupervised Clustering and the Random Forest Supervised Classification. <i>Canadian Journal of Remote Sensing</i> , 2020 , 46, 489-500	1.8	4
19	The assessment of data mining algorithms for modelling Savannah Woody cover using multi-frequency (X-, C- and L-band) synthetic aperture radar (SAR) datasets 2014 ,		4
18	Delineation of Crop Field Areas and Boundaries from UAS Imagery Using PBIA and GEOBIA with Random Forest Classification. <i>Remote Sensing</i> , 2020 , 12, 2640	5	4
17	Evaluation of Soil Properties, Topographic Metrics, Plant Height, and Unmanned Aerial Vehicle Multispectral Imagery Using Machine Learning Methods to Estimate Canopy Nitrogen Weight in Corn. <i>Remote Sensing</i> , 2021 , 13, 3105	5	4

16	Mapping Surficial Materials in Nunavut using RADARSAT-2 C-HH and C-HV, Landsat-8 OLI, DEM and Slope Data. <i>Canadian Journal of Remote Sensing</i> , 2018 , 44, 491-512	1.8	3
15	Linear window correlation: new image processing based approach to strain distribution analysis of wood This article is a contribution to the series The Role of Sensors in the New Forest Products Industry and Bioeconomy.. <i>Canadian Journal of Forest Research</i> , 2011 , 41, 2141-2149	1.9	2
14	A root biomass partitioning function for use in models which predict total biomass from absorbed photosynthetically active radiation (PAR). <i>European Journal of Agronomy</i> , 1992 , 1, 139-146	5	2
13	Refinements in Eelgrass Mapping at Tabusintac Bay (New Brunswick, Canada): A Comparison between Random Forest and the Maximum Likelihood Classifier. <i>Canadian Journal of Remote Sensing</i> , 2020 , 46, 640-659	1.8	2
12	Detecting Infected Cucumber Plants with Close-Range Multispectral Imagery. <i>Remote Sensing</i> , 2021 , 13, 2948	5	2
11	Comparison between Empirical Models and the CBM-CFS3 Carbon Budget Model to Predict Carbon Stocks and Yields in Nova Scotia Forests. <i>Forests</i> , 2021 , 12, 1235	2.8	2
10	Comparison between Three Registration Methods in the Case of Non-Georeferenced Close Range of Multispectral Images. <i>Remote Sensing</i> , 2021 , 13, 396	5	2
9	Use of Radarsat-2 polarimetric SAR images for fuel moisture mapping in the Kruger National Park, South Africa 2014 ,		1
8	Evaluation of Crop Health Status With UAS Multispectral Imagery. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022 , 15, 297-308	4.7	1
7	Near-Infrared Spectroscopy and the Forest Products Industry / La spectroscopie proche infrarouge et le secteur des produits forestiers. <i>Forestry Chronicle</i> , 2013 , 89, 575-576	1	1
6	Using Landsat Time-Series to Monitor and Inform Seagrass Dynamics: A Case Study in the Tabusintac Estuary, New Brunswick, Canada. <i>Canadian Journal of Remote Sensing</i> , 1-24	1.8	1
5	Determination of Optical Parameters and Moisture Content of Wood with Visible-Near Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2016 , 24, 571-585	1.5	1
4	Nitrogen Estimation for Wheat Using UAV-Based and Satellite Multispectral Imagery, Topographic Metrics, Leaf Area Index, Plant Height, Soil Moisture, and Machine Learning Methods. <i>Nitrogen</i> , 2022 , 3, 1-25	1.8	0
3	Modeling bending strength of oil-heat-treated wood by near-infrared spectroscopy. <i>Journal of the Indian Academy of Wood Science</i> , 2020 , 17, 54-65	0.8	
2	Modelling of pH effects and CIE L*a*b*colour spaces of beech wood-inhabiting fungi by NIRS. <i>Wood Material Science and Engineering</i> , 2018 , 13, 204-221	1.9	
1	Photo-interpretation and remote sensing at the Faculty of Forestry and Environmental Management, UNB. <i>Forestry Chronicle</i> , 2008 , 84, 534-538	1	