Brigitte Leblon

List of Publications by Year in Descending Order

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	Evaluation of Crop Health Status With UAS Multispectral Imagery. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2022**, 15, 297-308	4.7	1
68	Nitrogen Estimation for Wheat Using UAV-Based and Satellite Multispectral Imagery, Topographic Metrics, Leaf Area Index, Plant Height, Soil Moisture, and Machine Learning Methods. *Nitrogen*, **2022**, 3, 1-25	1.8	0
67	Detecting Infected Cucumber Plants with Close-Range Multispectral Imagery. *Remote Sensing*, **2021**, 13, 2948	5	2
66	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. *Remote Sensing*, **2021**, 13, 3105	5	4
65	Comparison between Empirical Models and the CBM-CFS3 Carbon Budget Model to Predict Carbon Stocks and Yields in Nova Scotia Forests. *Forests*, **2021**, 12, 1235	2.8	2
64	Comparison between Three Registration Methods in the Case of Non-Georeferenced Close Range of Multispectral Images. *Remote Sensing*, **2021**, 13, 396	5	2
63	Delineation of Bare Soil Field Areas from Unmanned Aircraft System Imagery with the Mean Shift Unsupervised Clustering and the Random Forest Supervised Classification. *Canadian Journal of Remote Sensing*, **2020**, 46, 489-500	1.8	4
62	Potato Late Blight Detection at the Leaf and Canopy Level Using Hyperspectral Data. *Canadian Journal of Remote Sensing*, **2020**, 46, 390-413	1.8	7
61	Potato Late Blight Detection at the Leaf and Canopy Levels Based in the Red and Red-Edge Spectral Regions. *Remote Sensing*, **2020**, 12, 1292	5	14
60	Modeling bending strength of oil-heat-treated wood by near-infrared spectroscopy. *Journal of the Indian Academy of Wood Science*, **2020**, 17, 54-65	0.8	
59	Intra-Field Canopy Nitrogen Retrieval from Unmanned Aerial Vehicle Imagery for Wheat and Corn Fields. *Canadian Journal of Remote Sensing*, **2020**, 46, 454-472	1.8	8
58	Using Linear Regression, Random Forests, and Support Vector Machine with Unmanned Aerial Vehicle Multispectral Images to Predict Canopy Nitrogen Weight in Corn. *Remote Sensing*, **2020**, 12, 2071	5	21
57	Wetland Mapping with Landsat 8 OLI, Sentinel-1, ALOS-1 PALSAR, and LiDAR Data in Southern New Brunswick, Canada. *Remote Sensing*, **2020**, 12, 2095	5	20
56	Refinements in Eelgrass Mapping at Tabusintac Bay (New Brunswick, Canada): A Comparison between Random Forest and the Maximum Likelihood Classifier. *Canadian Journal of Remote Sensing*, **2020**, 46, 640-659	1.8	2
55	Delineation of Crop Field Areas and Boundaries from UAS Imagery Using PBIA and GEOBIA with Random Forest Classification. *Remote Sensing*, **2020**, 12, 2640	5	4
54	Modelling of pH effects and CIE L*a*b*colour spaces of beech wood-inhabiting fungi by NIRS. *Wood Material Science and Engineering*, **2018**, 13, 204-221	1.9	
53	Mapping Surficial Materials in Nunavut using RADARSAT-2 C-HH and C-HV, Landsat-8 OLI, DEM and Slope Data. *Canadian Journal of Remote Sensing*, **2018**, 44, 491-512	1.8	3

52	Effects of TanDEM-X Acquisition Parameters on the Accuracy of Digital Surface Models of a Boreal Forest Canopy. *Canadian Journal of Remote Sensing*, **2017**, 43, 194-207	1.8	6
51	Prediction of wood properties for thawed and frozen logs of quaking aspen, balsam poplar, and black spruce from near-infrared hyperspectral images. *Wood Science and Technology*, **2016**, 50, 221-243	2.5	9
50	Canopy Height Model (CHM) Derived From a TanDEM-X InSAR DSM and an Airborne Lidar DTM in Boreal Forest. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 381-397	4.7	27
49	Modelling and mapping permafrost at high spatial resolution using Landsat and Radarsat-2 images in Northern Ontario, Canada: Part 2 – regional mapping. *International Journal of Remote Sensing*, **2016**, 37, 2751-2779	3.1	12
48	Remote Sensing of Wildfires **2016**, 55-95		7
47	Modelling and mapping permafrost at high spatial resolution using Landsat and Radarsat images in northern Ontario, Canada: part 1 – model calibration. *International Journal of Remote Sensing*, **2016**, 37, 2727-2750	3.1	8
46	Determination of Optical Parameters and Moisture Content of Wood with Visible–Near Infrared Spectroscopy. *Journal of Near Infrared Spectroscopy*, **2016**, 24, 571-585	1.5	1
45	Estimation of moisture content of trembling aspen (Populus tremuloides Michx.) strands by near infrared spectroscopy (NIRS). *European Journal of Wood and Wood Products*, **2015**, 73, 43-50	2.1	6
44	Using near-infrared hyperspectral images on subalpine fir board. Part 1: Moisture content estimation. *Wood Material Science and Engineering*, **2015**, 10, 27-40	1.9	12
43	Savannah woody structure modelling and mapping using multi-frequency (X-, C- and L-band) Synthetic Aperture Radar data. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2015**, 105, 234-250	11.8	46
42	Determination of log moisture content using early-time ground penetrating radar signal. *Wood Material Science and Engineering*, **2015**, 10, 112-129	1.9	13
41	Prediction and evaluation of borate distribution in Eastern black spruce (Picea mariana var. mariana) wood products. *Wood Science and Technology*, **2015**, 49, 457-473	2.5	6
40	Surface quality sensing of trembling aspen (Populus tremuloides Michx.) veneer products by near infrared spectroscopy. *Wood Material Science and Engineering*, **2015**, 10, 17-26	1.9	4
39	Determination of moisture content and basic specific gravity of Populus tremuloides (Michx.) and Populus balsamifera (L.) logs using a portable near-infrared spectrometer. *Wood Material Science and Engineering*, **2015**, 10, 3-16	1.9	14
38	Determination of log moisture content using ground penetrating radar (GPR). Part 1. Partial least squares (PLS) method. *Holzforschung*, **2015**, 69, 1117-1123	2	7
37	Water content measurement in black spruce and aspen sapwood with benchtop and portable magnetic resonance devices. *Wood Material Science and Engineering*, **2015**, 10, 86-93	1.9	7
36	Using near-infrared hyperspectral images on subalpine fir board. Part 2: Density and basic specific gravity estimation. *Wood Material Science and Engineering*, **2015**, 10, 41-56	1.9	10
35	Assessment of variations in air-dry wood density using time-of-flight near-infrared spectroscopy. *Wood Material Science and Engineering*, **2015**, 10, 57-68	1.9	11

34	Determination of log moisture content using ground penetrating radar (GPR). Part 2. Propagation velocity (PV) method. *Holzforschung*, **2015**, 69, 1125-1132	2	8
33	Mapping forest canopy height using TanDEM-X DSM and airborne LiDAR DTM **2014**,		7
32	Use of Radarsat-2 polarimetric SAR images for fuel moisture mapping in the Kruger National Park, South Africa **2014**,		1
31	Use of Radarsat-2 and ALOS-PALSAR SAR images for wetland mapping in New Brunswick **2014**,		5
30	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
29	Toward structural assessment of semi-arid African savannahs and woodlands: The potential of multitemporal polarimetric RADARSAT-2 fine beam images. *Remote Sensing of Environment*, **2013**, 138, 215-231	13.2	42
28	Evaluation of polarimetric Radarsat-2 SAR data for development of soil moisture retrieval algorithms over a chronosequence of black spruce boreal forests. *Remote Sensing of Environment*, **2013**, 132, 71-85	13.2	27
27	Assessment of polarimetric SAR data for discrimination between wet versus dry soil moisture conditions. *International Journal of Remote Sensing*, **2013**, 34, 5709-5730	3.1	10
26	A review of near-infrared spectroscopy for monitoring moisture content and density of solid wood. *Forestry Chronicle*, **2013**, 89, 595-606	1	50
25	Moisture and surface quality sensing of Douglas-fir (Pseudotsuga menziesii var. menziesii) veneer products. *Forestry Chronicle*, **2013**, 89, 646-653	1	6
24	Near-Infrared Spectroscopy and the Forest Products Industry / La spectroscopie proche infrarouge et le secteur des produits forestiers. *Forestry Chronicle*, **2013**, 89, 575-576	1	1
23	Surficial materials mapping in Nunavut, Canada with multibeam RADARSAT-2 dual-polarization C-HH and C-HV, LANDSAT-7 ETM+, and DEM data. *Canadian Journal of Remote Sensing*, **2012**, 38, 281-305	1.8	15
22	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. *Canadian Journal of Remote Sensing*, **2012**, 38, 383-403	1.8	7
21	Use of Remote Sensing in Wildfire Management **2012**,		18
20	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. *Canadian Journal of Remote Sensing*, **2012**, 38, 404-423	1.8	6
19	The role of sensors in the new forest products industry and forest bioeconomy. *Canadian Journal of Forest Research*, **2011**, 41, 2097-2099	1.9	9
18	Linear window correlation: new image processing based approach to strain distribution analysis of wood1This article is a contribution to the series The Role of Sensors in the New Forest Products Industry and Bioeconomy.. *Canadian Journal of Forest Research*, **2011**, 41, 2141-2149	1.9	2
17	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.. *Canadian Journal of Forest Research*, **2011**, 41, 2120-2140	1.9	70

16	Reconstruction of 3D images of internal log characteristics by means of successive 2D log computed tomography images. *Holzforschung*, **2009**, 63,	2	5
15	Identification of selected internal wood characteristics in computed tomography images of black spruce: a comparison study. *Journal of Wood Science*, **2009**, 55, 175-180	2.4	23
14	Identification of selected log characteristics from computed tomography images of sugar maple logs using maximum likelihood classifier and textural analysis. *Holzforschung*, **2008**, 62,	2	7
13	Photo-interpretation and remote sensing at the Faculty of Forestry and Environmental Management, UNB. *Forestry Chronicle*, **2008**, 84, 534-538	1	
12	Using cumulative NOAA-AVHRR spectral indices for estimating fire danger codes in northern boreal forests. *International Journal of Applied Earth Observation and Geoinformation*, **2007**, 9, 335-342	7.3	8
11	Predicting slow-drying fire weather index fuel moisture codes with NOAA-AVHRR images in Canada's northern boreal forests. *International Journal of Remote Sensing*, **2006**, 27, 3881-3902	3.1	15
10	Monitoring Forest Fire Danger with Remote Sensing. *Natural Hazards*, **2005**, 35, 343-359	3	40
9	Methods Used to Estimate Moisture Content of Dead Wildland Fuels **2003**, 91-117		6
8	Estimation of Live Fuel Moisture Content **2003**, 63-90		7
7	Mapping Pre-Fire Forest Conditions with NOAA-AVHRR Images in Northern Boreal Forests. *Geocarto International*, **2003**, 18, 21-32	2.7	10
6	Fire Danger Monitoring Using ERS-1 SAR Images in the Case of Northern Boreal Forests. *Natural Hazards*, **2002**, 27, 231-255	3	31
5	Forest wildfire hazard monitoring using remote sensing: A review. *International Journal of Remote Sensing*, **2001**, 20, 1-43		22
4	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. *International Journal of Remote Sensing*, **1993**, 7, 109-125		6
3	A root biomass partitioning function for use in models which predict total biomass from absorbed photosynthetically active radiation (PAR). *European Journal of Agronomy*, **1992**, 1, 139-146	5	2
2	The use of remotely sensed data in estimation of PAR use efficiency and biomass production of flooded rice. *Remote Sensing of Environment*, **1991**, 38, 147-158	13.2	41
1	Using Landsat Time-Series to Monitor and Inform Seagrass Dynamics: A Case Study in the Tabusintac Estuary, New Brunswick, Canada. *Canadian Journal of Remote Sensing*,1-24	1.8	1