Jean-Michel Jml Leban

List of Publications by Year
in descending order

65	2,209	230014	274796
papers	citations	27 h-index	44 g-index

68	68	68	1751
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Removing harvest residues from hardwood stands affects tree growth, wood density and stem wood nutrient concentration in European beech (Fagus sylvatica) and oak (Quercus spp.). Forest Ecosystems, 2022, 9, 100014.	1.3	3
2	Recent increase in European forest harvests as based on area estimates (Ceccherini et al. 2020a) not confirmed in the French case. Annals of Forest Science, 2021, 78, 1.	0.8	10
3	Variations in temperate forest stem biomass ratio along three environmental gradients are dominated by interspecific differences in wood density. Plant Ecology, 2021, 222, 289-303.	0.7	7
4	This is my spot: What are the characteristics of the trees excavated by the Black Woodpecker? A case study in two managed French forests. Forest Ecology and Management, 2019, 453, 117621.	1.4	25
5	CarDen: A software for fast measurement of wood density on increment cores by CT scanning. Computers and Electronics in Agriculture, 2019, 156, 606-617.	3.7	17
6	X-ray microdensitometry of wood: A review of existing principles and devices. Dendrochronologia, 2017, 42, 42-50.	1.0	66
7	Annals of Forest Science changes its scope and complies with green open access rules. Annals of Forest Science, 2014, 71, 425-426.	0.8	1
8	The open data debate: a need for accessible and shared data in forest science. Annals of Forest Science, 2014, 71, 523-525.	0.8	2
9	Effect of ring width, cambial age, and climatic variables on the within-ring wood density profile of Norway spruce Picea abies (L.) Karst.. Trees - Structure and Function, 2013, 27, 913-925.	0.9	49
10	Nanotube-reinforced tannin/furanic rigid foams. Industrial Crops and Products, 2013, 43, 636-639.	2.5	30
11	Divergence in latewood density response of Norway spruce to temperature is not resolved by enlarged sets of climatic predictors and their non-linearities. Agricultural and Forest Meteorology, 2013, 180, 132-141.	1.9	24
12	Models for predicting wood density of British-grown Sitka spruce. Forestry, 2013, 86, 295-295.	1.2	0
13	Transient historical decrease in earlywood and latewood density and unstable sensitivity to summer temperature for Norway spruce in northeastern France. Canadian Journal of Forest Research, 2012, 42, 219-226.	0.8	31
14	Empirical models for radial and tangential fibre width in tree rings of Norway spruce in north-western Europe. Holzforschung, 2012, 66, 219-230.	0.9	16
15	Large-scale dynamics of a heterogeneous forest resource are driven jointly by geographically varying growth conditions, tree species composition and stand structure. Annals of Forest Science, 2012, 69, 829-844.	0.8	23
16	PithExtract: A robust algorithm for pith detection in computer tomography images of wood â€“ Application to 125 logs from 17 tree species. Computers and Electronics in Agriculture, 2012, 85, 90-98.	3.7	29
17	Automatic knot detection and measurements from X-ray CT images of wood: A review and validation of an improved algorithm on softwood samples. Computers and Electronics in Agriculture, 2012, 85, 77-89.	3.7	71
18	Enhancing the Exterior Performance of Wood Joined by Linear and Rotational Welding. Journal of Adhesion Science and Technology, 2011, 25, 2717-2730.	1.4	33

#	Article	IF	Citations
19	Nitrogen footprint in a long-term observation of forest growth over the twentieth century. Trees - Structure and Function, 2011, 25, 237-251.	0.9	54
20	Nitric oxide induces the expression of the monocarboxylate transporter MCT4 in cultured astrocytes by a cGMPâ€independent transcriptional activation. Glia, 2011, 59, 1987-1995.	2.5	23
21	Models for predicting wood density of British-grown Sitka spruce. Forestry, 2011, 84, 119-132.	1.2	59
22	Decreasing trend and fluctuations in the mean ring density of Norway spruce through the twentieth century. Annals of Forest Science, 2010, 67, 816-816.	0.8	39
23	End-grain butt joints obtained by friction welding of high density eucalyptus wood. Wood Science and Technology, 2010, 44, 399-406.	1.4	13
24	Tracking rameal traces in sessile oak trunks with X-ray computer tomography: biological bases, preliminary results and perspectives. Trees - Structure and Function, 2010, 24, 953-967.	0.9	28
25	High Density Panels Obtained by Welding of Wood Veneers without any Adhesives. Journal of Adhesion Science and Technology, 2010, 24, 1529-1534.	1.4	5
26	Physico-chemical Causes of the Extent of Water Resistance of Linearly Welded Wood Joints. Journal of Adhesion Science and Technology, 2009, 23, 827-837.	1.4	43
27	Mesure de la densitÃ© du bois par tomographie Ã rayons X. Annals of Forest Science, 2009, 66, 804-804.	0.8	77
28	X-Ray Microtomography Studies of Tannin-Derived Organic and Carbon Foams. Microscopy and Microanalysis, 2009, 15, 384-394.	0.2	48
29	CP-MAS 13C NMR and FT-IR investigation of the degradation reactions of polymer constituents in wood welding. Polymer Degradation and Stability, 2008, 93, 406-412.	2.7	77
30	Dependence of dowel welding on rotation rate. European Journal of Wood and Wood Products, 2008, 66, 241-242.	1.3	12
31	Analysis of long-term dynamics of crowns of sessile oaks at the stand level by means of spatial statistics. Forest Ecology and Management, 2008, 255, 2007-2019.	1.4	48
32	Three-dimensional profile classification of standing trees using a stereophotogrammetric method. Scandinavian Journal of Forest Research, 2008, 23, 46-52.	0.5	3
33	Wood Welded Connections: Energy Release Rate Measurement. Journal of Adhesion Science and Technology, 2008, 22, 169-179.	1.4	25
34	Predicting the Thermal Behaviour of Wood During Linear Welding Using the Finite Element Method. Journal of Adhesion Science and Technology, 2008, 22, 1209-1221.	1.4	19
35	Zig-zag rotational dowel welding for exterior wood joints. Journal of Adhesion Science and Technology, 2007, 21, 923-933.	1.4	26
36	Comparative potential of alternative wood welding systems, ultrasonic and microfriction stir welding. Journal of Adhesion Science and Technology, 2007, 21, 1633-1643.	1.4	26

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37	Automatic detection of the heartwood/sapwood boundary within Norway spruce (Picea abies (L.)) Tj ETQq1 1 0.784314 rgBT /Overlock	3.7	27
38	A digital photographic method for 3D reconstruction of standing tree shape. Annals of Forest Science, 2007, 64, 631-637.	0.8	24
39	Picea abies sapwood width: Variations within and between trees. Scandinavian Journal of Forest Research, 2006, 21, 41-53.	0.5	54
40	Linking intra-tree-ring wood density variations and tracheid anatomical characteristics in Douglas fir (Pseudotsuga menziesii(Mirb.) Franco). Annals of Forest Science, 2006, 63, 699-706.	0.8	51
41	Improved water resistance of UF adhesives for plywood by small pMDI additions. European Journal of Wood and Wood Products, 2006, 64, 218-220.	1.3	38
42	Welding-through doweling of wood panels. European Journal of Wood and Wood Products, 2006, 64, 423-425.	1.3	25
43	Temperature and density distribution in mechanical vibration wood welding. Wood Science and Technology, 2006, 40, 72-76.	1.4	22
44	Vibration welding of heat-treated wood. Journal of Adhesion Science and Technology, 2006, 20, 359-369.	1.4	31
45	Parameters of wood welding: A study with infrared thermography. Holzforschung, 2006, 60, 434-438.	0.9	27
46	Wood joints by through-dowel rotation welding: microstructure, 13C-NMR and water resistance. Journal of Adhesion Science and Technology, 2006, 20, 427-436.	1.4	70
47	Surface finishes by mechanically induced wood surface fusion. European Journal of Wood and Wood Products, 2005, 63, 251-255.	1.3	16
48	Automatic Detection of Annual Growth Units on Picea abies Logs Using Optical and X-Ray Techniques. Journal of Nondestructive Evaluation, 2005, 24, 29-43.	1.1	20
49	Influence of grain direction in vibrational wood welding. Holzforschung, 2005, 59, 23-27.	0.9	31
50	Parameter interactions in two-block welding and the wood nail concept in wood dowel welding. Journal of Adhesion Science and Technology, 2005, 19, 1157-1174.	1.4	72
51	Wood welding: A challenging alternative to conventional wood gluing. Scandinavian Journal of Forest Research, 2005, 20, 534-538.	0.5	18
52	Relationships between the intra-ring wood density assessed by X-ray densitometry and optical anatomical measurements in conifers. Consequences for the cell wall apparent density determination. Annals of Forest Science, 2004, 61, 251-262.	0.8	53
53	X-ray microdensitometry analysis of vibration-welded wood. Journal of Adhesion Science and Technology, 2004, 18, 673-685.	1.4	83
54	Wood dowel bonding by high-speed rotation welding. Journal of Adhesion Science and Technology, 2004, 18, 1263-1278.	1.4	102

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55	Automatic detection of pith on CT images of spruce logs. Computers and Electronics in Agriculture, 2004, 44, 107-119.	3.7	46
56	A model for the position and ring eccentricity in transverse sections of Norway spruce logs. European Journal of Wood and Wood Products, 2001, 59, 137-144.	1.3	7
57	An elliptical model for tree ring shape in transverse section. Methodology and case study on Norway Spruce. European Journal of Wood and Wood Products, 2000, 58, 368-374.	1.3	6
58	Modelling the Number of Rings in Individual Logs of Norway Spruce. Scandinavian Journal of Forest Research, 2000, 15, 135-143.	0.5	6
59	Comparaison de deux modÃ¨les de profil de tige et validation sur un Ã©chantillon indÃ©pendant. Application Ã l'Ã©picÃ©a commun dans le nord-est de la France. Annales Des Sciences ForestiÃ¨res, 1999, 56, 121-132.	1.1	4
60	Localisation de la transition bois initial - bois final dans un cerne de chÃªne par analyse microdensitomÃ©trique. Annales Des Sciences ForestiÃ¨res, 1998, 55, 437-449.	1.1	19
61	Analyse microdensitomÃ©trique appliquÃ©e au bois : mÃ©thode de traitement des donnÃ©es utilisÃ©e Ã l'Inra-ERQB (programme Cerd). Annales Des Sciences ForestiÃ¨res, 1998, 55, 301-313.	1.1	60
62	Determination of Young's modulus for spruce, fir and isotropic materials by the resonance flexure method with comparisons to static flexure and other dynamic methods. Wood Science and Technology, 1996, 30, 253.	1.4	88
63	Linking growth modelling to timber quality assessment for Norway spruce. Forest Ecology and Management, 1995, 74, 91-102.	1.4	100
64	The measurement of wood density by microwave sensor. European Journal of Wood and Wood Products, 1992, 50, 163-166.	1.3	16
65	SIMQUA : un logiciel de simulation de la qualitÃ© du bois. Annales Des Sciences ForestiÃ¨res, 1990, 47, 483-493.	1.1	17