

# Roger E Hernández

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

928  
citations

471509

17  
h-index

552781

26  
g-index

63  
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63  
docs citations

63  
times ranked

626  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of log temperature, moisture content, and cutting width on energy requirements for processing logs by a chipper-canter. <i>Wood Material Science and Engineering</i> , 2023, 18, 394-401.	2.3	3
2	Moisture-induced strains in earlywood and latewood of mature and juvenile woods in jack pine from 3D-DIC measurements. <i>Wood Material Science and Engineering</i> , 2023, 18, 570-579.	2.3	3
3	Cutting forces and noise in helical planing black spruce wood as affected by the helix angle and feed per knife. <i>Wood Material Science and Engineering</i> , 2023, 18, 549-558.	2.3	2
4	Effects of helix angle and feed per knife on cutting forces, noise, and power consumption produced during helical planing of sugar maple wood. <i>Canadian Journal of Forest Research</i> , 2022, 52, 109-116.	1.7	5
5	Effects of radial force and log position on the stem on ring-debarker efficiency in frozen black spruce logs. <i>Wood Material Science and Engineering</i> , 2021, 16, 211-220.	2.3	5
6	Influence of radial force and rake angle on ring debarking efficiency of frozen and unfrozen black spruce logs. <i>European Journal of Wood and Wood Products</i> , 2021, 79, 629-643.	2.9	3
7	Black spruce trees from uneven-aged, old-growth stands produce more dimensionally stable wood than trees from fire-origin even-aged stands. <i>Wood Science and Technology</i> , 2021, 55, 1457-1483.	3.2	1
8	Effects of temperature and moisture content of logs on size distribution of black spruce chips produced by a chipper-canter at two cutting widths. <i>BioResources</i> , 2021, 16, 6684-6704.	1.0	6
9	Effects of fire-retardant treatment and wood grain on three-dimensional changes of sandwich panels made from bubinga decorative veneer. <i>Wood Material Science and Engineering</i> , 2020, 15, 37-46.	2.3	1
10	Full-field moisture-induced strains of the different tissues of tamarack and red oak woods assessed by 3D digital image correlation. <i>Wood Science and Technology</i> , 2020, 54, 139-159.	3.2	11
11	Swelling strain assessment of fiber and parenchyma tissues in the tropical hardwood <i>Ormosia coccinea</i> . <i>Wood Science and Technology</i> , 2020, 54, 1447-1461.	3.2	3
12	Performance of solvent-borne coating on red oak wood prepared by two alternative surfacing processes. <i>European Journal of Wood and Wood Products</i> , 2020, 78, 733-744.	2.9	1
13	Ring debarking efficiency of frozen balsam fir logs is affected by the radial force but not by the log position on the stem. <i>Canadian Journal of Forest Research</i> , 2020, 50, 1323-1332.	1.7	3
14	Influence of temperature and moisture content on bark/wood shear strength of black spruce and balsam fir logs. <i>Wood Science and Technology</i> , 2020, 54, 963-979.	3.2	7
15	Effect of Chipping Edge Inclination Angle on Size Distribution of Pulp Chips Produced by Chipper-Canter. <i>Wood and Fiber Science</i> , 2019, 51, 402-415.	0.6	5
16	Variation in selected mechanical properties of Japanese larch ( <i>Larix kaempferi</i> , [Lamb.] Carr.) progenies/provenances trials in Eastern Canada. <i>European Journal of Wood and Wood Products</i> , 2018, 76, 1121-1128.	2.9	9
17	Analysis of sanding parameters on surface properties and coating performance of red oak wood. <i>Wood Material Science and Engineering</i> , 2018, 13, 64-72.	2.3	14
18	Shrinkage variation in Japanese larch ( <i>Larix kaempferi</i> , [Lamb.] Carr.) progenies/provenances trials in Eastern Canada. <i>Wood Material Science and Engineering</i> , 2018, 13, 97-103.	2.3	3

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19	Effects of commercial thinning, log position in the stem, and cutting width on the surface quality of cants produced by a chipper-canter. <i>Wood Material Science and Engineering</i> , 2018, 13, 28-35.	2.3	6
20	Phenotypic and Genotypic Correlations for Wood Properties of Hybrid Poplar Clones of Southern Quebec. <i>Forests</i> , 2018, 9, 140.	2.1	10
21	Surface deformation of walnut burl veneer on aircraft sandwich panels assessed by three-dimensional digital image correlation. <i>Wood Science and Technology</i> , 2018, 52, 1511-1525.	3.2	4
22	ORTHOGONAL CUTTING STUDY OF WOOD AND KNOTS OF WHITE SPRUCE. <i>Wood and Fiber Science</i> , 2018, 50, 55-65.	0.6	15
23	Effects of cutterhead diameter and log infeed position on size distribution of pulp chips produced by a chipper-canter. <i>European Journal of Wood and Wood Products</i> , 2017, 75, 747-760.	2.9	10
24	Effects of log position in the stem and commercial thinning on jack pine chip dimensions produced by a chipper-canter. <i>European Journal of Wood and Wood Products</i> , 2017, 75, 359-373.	2.9	5
25	Assessment of surface properties and solvent-borne coating performance of red oak wood produced by peripheral planing. <i>European Journal of Wood and Wood Products</i> , 2017, 75, 581-593.	2.9	16
26	Effects of Fire-retardant Treatment and Burl Wood Structure on Three-dimensional Changes of Sandwich Panels Made from Walnut Decorative Veneer. <i>BioResources</i> , 2017, 12, .	1.0	1
27	Effect of the desorption rate on the dimensional changes of Eucalyptus saligna wood. <i>Wood Science and Technology</i> , 2016, 50, 941-951.	3.2	10
28	Effects of the cutting pattern and log provenance on size distribution of black spruce chips produced by a chipper-canter. <i>European Journal of Wood and Wood Products</i> , 2015, 73, 357-368.	2.9	10
29	Distribution of the equilibrium moisture content in four hardwoods below fiber saturation point with magnetic resonance microimaging. <i>Wood Science and Technology</i> , 2015, 49, 1251-1268.	3.2	34
30	Steam-bending properties of seven poplar hybrid clones. <i>International Journal of Material Forming</i> , 2015, 8, 67-72.	2.0	9
31	Patterns of Knife Edge Recession in an Industrial Chipper-Canter. <i>Forest Products Journal</i> , 2015, 65, 358-364.	0.4	2
32	Effects of temperature and moisture content on selected wood mechanical properties involved in the chipping process. <i>Wood Science and Technology</i> , 2014, 48, 1281-1301.	3.2	44
33	Black spruce trees from fire-origin stands have higher wood mechanical properties than those from older, irregular stands. <i>Canadian Journal of Forest Research</i> , 2014, 44, 118-127.	1.7	23
34	Effects of cutting parameters on cutting forces and surface quality of black spruce cants. <i>European Journal of Wood and Wood Products</i> , 2014, 72, 107-116.	2.9	17
35	Evaluation of two surfacing methods on black spruce wood in relation to gluing performance. <i>Journal of Wood Science</i> , 2013, 59, 185-194.	1.9	15
36	Variation of the Physical and Mechanical Properties of Hybrid Poplar Clones. <i>BioResources</i> , 2013, 9, .	1.0	15

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37	Effect of the Cutting Speed on the Surface Quality of Black Spruce Cants Produced by a Chipper-Canter. <i>Forest Products Journal</i> , 2013, 63, 39-46.	0.4	4
38	Toward a process monitoring of CNC wood router. Sensor selection and surface roughness prediction. <i>Wood Science and Technology</i> , 2012, 46, 115-128.	3.2	17
39	Effects of Peripheral Planing on Surface Characteristics and Adhesion of a Waterborne Acrylic Coating to Black Spruce Wood. <i>Forest Products Journal</i> , 2012, 62, 124-133.	0.4	10
40	Using Acoustic Sensors to Improve the Efficiency of the Forest Value Chain in Canada: A Case Study with Laminated Veneer Lumber. <i>Sensors</i> , 2011, 11, 5716-5728.	3.8	19
41	Effects of end-pressure on the finger-joint quality of black spruce lumber: a microscopic analysis. <i>Maderas: Ciencia Y Tecnología</i> , 2011, 13, 319-328.	0.7	10
42	Improving the Sanding Process of Black Spruce Wood for Surface Quality and Water-Based Coating Adhesion. <i>Forest Products Journal</i> , 2011, 61, 372-380.	0.4	32
43	Structural Performance of Finger-Jointed Lumber with Different Joint Configurations. <i>Journal of the Korean Wood Science and Technology</i> , 2011, 39, 172-178.	3.0	1
44	Anatomical evaluation of wood surfaces produced by oblique cutting and face milling. <i>IAWA Journal</i> , 2010, 31, 77-88.	2.7	17
45	Effects of cutting parameters on surface quality of paper birch wood machined across the grain with two planing techniques. <i>European Journal of Wood and Wood Products</i> , 2008, 66, 147-154.	2.9	24
46	DEVELOPMENT OF A TECHNIQUE TO DETERMINE THE 3D ELASTICITY TENSOR OF WOOD AS APPLIED TO DRYING STRESS MODELING. <i>Maderas: Ciencia Y Tecnología</i> , 2008, 10, .	0.7	6
47	Influence of the pore structure of wood on moisture desorption at high relative humidities. <i>Wood Material Science and Engineering</i> , 2007, 2, 33-44.	2.3	27
48	Genetic variation in wood shrinkage and its correlations with tree growth and wood density of <i>Calycophyllum spruceanum</i> at an early age in the Peruvian Amazon. <i>Canadian Journal of Forest Research</i> , 2007, 37, 966-976.	1.7	21
49	Effects of extraneous substances, wood density and interlocked grain on fiber saturation point of hardwoods. <i>Wood Material Science and Engineering</i> , 2007, 2, 45-53.	2.3	18
50	Characteristics of sugar maple wood surfaces machined with the fixed-oblique knife pressure-bar cutting system. <i>Wood Science and Technology</i> , 2007, 41, 17-29.	3.2	11
51	Influence of accessory substances, wood density and interlocked grain on the compressive properties of hardwoods. <i>Wood Science and Technology</i> , 2007, 41, 249-265.	3.2	16
52	A NMR study of water distribution in hardwoods at several equilibrium moisture contents. <i>Wood Science and Technology</i> , 2007, 41, 293-307.	3.2	104
53	Dimensional changes of beech wood resulting from three different re-wetting treatments. <i>European Journal of Wood and Wood Products</i> , 2007, 65, 193-196.	2.9	4
54	Genetic variation in wood color and its correlations with tree growth and wood density of <i>Calycophyllum spruceanum</i> at an early age in the Peruvian Amazon. <i>New Forests</i> , 2007, 35, 57-73.	1.7	39

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55	Identification of internal defect of sugar maple logs from CT images using supervised classification methods. <i>European Journal of Wood and Wood Products</i> , 2006, 64, 295-303.	2.9	21
56	Effects of abrasive mineral, grit size and feed speed on the quality of sanded surfaces of sugar maple wood. <i>Wood Science and Technology</i> , 2006, 40, 517-530.	3.2	49
57	Changes in physical properties of tropical and temperate hardwoods below and above the fiber saturation point. <i>Wood Science and Technology</i> , 2006, 40, 599-613.	3.2	66
58	Genetic Variation and Correlations between Growth and Wood Density of <i>Calycophyllum spruceanum</i> at an Early Age in the Peruvian Amazon. <i>Silvae Genetica</i> , 2006, 55, 217-228.	0.8	32
59	Influence of moisture sorption on the tangential compression strength of Mahogany wood ( <i>Swietenia macrophylla</i> King). <i>Wood Science and Technology</i> , 2001, 35, 107-112.	3.2	10
60	Influence of Moisture Sorption on Swelling of Mahogany ( <i>Swietenia macrophylla</i> King) Wood. <i>Holzforschung</i> , 2001, 55, 590-594.	1.9	17
61	Influence of wood planing on the second-order effects of moisture sorption in sugar maple. <i>Wood Science and Technology</i> , 1999, 33, 215-222.	3.2	6
62	Influence of moisture sorption history on the swelling of sugar maple wood and some tropical hardwoods. <i>Wood Science and Technology</i> , 1993, 27, 337.	3.2	24