

Paulo Hein

List of Publications by Year in descending order

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67
papers

959
citations

471371

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580701

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67
times ranked

842
citing authors

#	ARTICLE	IF	CITATIONS
1	Jute fibers and micro/nanofibrils as reinforcement in extruded fiber-cement composites. <i>Construction and Building Materials</i> , 2019, 211, 517-527.	3.2	60
2	Cellulose nanofibrils/nanoclay hybrid composite as a paper coating: Effects of spray time, nanoclay content and corona discharge on barrier and mechanical properties of the coated papers. <i>Food Packaging and Shelf Life</i> , 2018, 15, 87-94.	3.3	49
3	Robustness of Models Based on near Infrared Spectra to Predict the Basic Density in Eucalyptus Urophylla Wood. <i>Journal of Near Infrared Spectroscopy</i> , 2009, 17, 141-150.	0.8	43
4	MICRO/NANOFIBRILAS CELULÃ“SICAS DE EUCALYPTUS EM FIBROCIMENTOS EXTRUDADOS. <i>Cerne</i> , 2016, 22, 59-68.	0.9	34
5	Estimation of physical and mechanical properties of agro-based particleboards by near infrared spectroscopy. <i>European Journal of Wood and Wood Products</i> , 2011, 69, 431-442.	1.3	33
6	Effects of sample preparation on NIR spectroscopic estimation of chemical properties of Eucalyptus urophylla S.T. Blake wood. <i>Holzforschung</i> , 2010, 64, .	0.9	28
7	Artificial neural network and partial least square regressions for rapid estimation of cellulose pulp dryness based on near infrared spectroscopic data. <i>Carbohydrate Polymers</i> , 2019, 224, 115186.	5.1	28
8	Charcoal productivity and quality parameters for reliable classification of Eucalyptus clones from Brazilian energy forests. <i>Renewable Energy</i> , 2021, 164, 34-45.	4.3	28
9	Predicting Microfibril Angle in <i>Eucalyptus</i> Wood from Different Wood Faces and Surface Qualities Using near Infrared Spectra. <i>Journal of Near Infrared Spectroscopy</i> , 2010, 18, 455-464.	0.8	24
10	Potential of Near-Infrared Spectroscopy for Distinguishing Charcoal Produced from Planted and Native Wood for Energy Purpose. <i>Energy & Fuels</i> , 2017, 31, 1593-1599.	2.5	24
11	Age trends of microfibril angle inheritance and their genetic and environmental correlations with growth, density and chemical properties in Eucalyptus urophylla S.T. Blake wood. <i>Annals of Forest Science</i> , 2012, 69, 681-691.	0.8	23
12	Logging wastes from sustainable forest management as alternative fuels for thermochemical conversion systems in Brazilian Amazon. <i>Biomass and Bioenergy</i> , 2020, 140, 105660.	2.9	23
13	Evaluation and classification of eucalypt charcoal quality by near infrared spectroscopy. <i>Biomass and Bioenergy</i> , 2018, 112, 85-92.	2.9	22
14	Spraying Cellulose Nanofibrils for Improvement of Tensile and Barrier Properties of Writing & Printing (W&P) Paper. <i>Journal of Wood Chemistry and Technology</i> , 2018, 38, 233-245.	0.9	20
15	Colorimetry as a criterion for segregation of logging wastes from sustainable forest management in the Brazilian Amazon for bioenergy. <i>Renewable Energy</i> , 2021, 163, 792-806.	4.3	20
16	Estimating wood moisture by near infrared spectroscopy: Testing acquisition methods and wood surfaces qualities. <i>Wood Material Science and Engineering</i> , 2021, 16, 336-343.	1.1	20
17	Resonance and near Infrared Spectroscopy for Evaluating Dynamic Wood Properties. <i>Journal of Near Infrared Spectroscopy</i> , 2010, 18, 443-454.	0.8	19
18	Influence of spectral acquisition technique and wood anisotropy on the statistics of predictive near infrared-based models for wood density. <i>Journal of Near Infrared Spectroscopy</i> , 2018, 26, 106-116.	0.8	19

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19	Use of near infrared spectroscopy to distinguish carbonization processes and charcoal sources. <i>Cerne</i> , 2010, 16, 381-390.	0.9	18
20	Comparison between three-point and four-point flexural tests to determine wood strength of <i>Eucalyptus</i> specimens. <i>Maderas: Ciencia Y Tecnologia</i> , 2018, , 0-0.	0.7	18
21	Challenges in the use of Near Infrared Spectroscopy for improving wood quality: A review. <i>Forest Systems</i> , 2018, 26, eR03.	0.1	18
22	A candidate gene for lignin composition in <i>Eucalyptus</i> : cinnamoyl-CoA reductase (CCR). <i>Tree Genetics and Genomes</i> , 2012, 8, 353-364.	0.6	17
23	Spatial variation of wood density, stiffness and microfibril angle along <i>Eucalyptus</i> trunks grown under contrasting growth conditions. <i>Trees - Structure and Function</i> , 2016, 30, 871-882.	0.9	17
24	Near Infrared Spectroscopy for Estimating <i>Eucalyptus</i> Charcoal Properties. <i>Journal of Near Infrared Spectroscopy</i> , 2012, 20, 657-666.	0.8	16
25	NIR Spectral Heritability: A Promising Tool for Wood Breeders?. <i>Journal of Near Infrared Spectroscopy</i> , 2014, 22, 141-147.	0.8	16
26	Charcoal of logging wastes from sustainable forest management for industrial and domestic uses in the Brazilian Amazonia. <i>Biomass and Bioenergy</i> , 2020, 142, 105804.	2.9	16
27	Estimating Shrinkage, Microfibril Angle and Density of <i>Eucalyptus</i> Wood Using near Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2012, 20, 427-436.	0.8	15
28	Evaluation of chemical properties of intact green coffee beans using near infrared spectroscopy. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 3500-3507.	1.7	15
29	Rapid discrimination of wood species from native forest and plantations using near infrared spectroscopy. <i>Forest Systems</i> , 2018, 27, e008.	0.1	15
30	Estimation of the dynamic elastic properties of wood from <i>Copaifera langsdorffii</i> Desf using resonance analysis. <i>Cerne</i> , 2012, 18, 41-47.	0.9	14
31	Correlations among microfibril angle, density, modulus of elasticity, modulus of rupture and shrinkage in 6-year-old <i>Eucalyptus urophylla</i> Å— <i>E. grandis</i> . <i>Maderas: Ciencia Y Tecnologia</i> , 2013, , 0-0.	0.7	13
32	DEVELOPING NEAR INFRARED SPECTROSCOPIC MODELS FOR PREDICTING DENSITY OF <i>Eucalyptus</i> WOOD BASED ON INDIRECT MEASUREMENT. <i>Cerne</i> , 2019, 25, 294-300.	0.9	13
33	Wood Knots Influence the Modulus of Elasticity and Resistance to Compression. <i>Floresta E Ambiente</i> , 2018, 25, .	0.1	12
34	Dynamic Hardness of Charcoal Varies According to the Final Temperature of Carbonization. <i>Energy & Fuels</i> , 2018, 32, 9659-9665.	2.5	12
35	Insights in quantitative indexes for better grouping and classification of <i>Eucalyptus</i> clones used in combustion and energy cogeneration processes in Brazil. <i>Biomass and Bioenergy</i> , 2020, 143, 105835.	2.9	12
36	Relationships between microfibril angle, modulus of elasticity and compressive strength in <i>Eucalyptus</i> wood. <i>Maderas: Ciencia Y Tecnologia</i> , 2012, , 0-0.	0.7	11

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37	NIR SPECTROSCOPIC MODELS FOR PHENOTYPING WOOD TRAITS IN BREEDING PROGRAMS OF <i>Eucalyptus benthamii</i> . <i>Cerne</i> , 2017, 23, 367-375.	0.9	11
38	Effect of final temperature on charcoal stiffness and its correlation with wood density and hardness. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	11
39	Estimate of the density of <i>Eucalyptus grandis</i> W. Hill ex Maiden using near infrared spectroscopy. <i>Cerne</i> , 2013, 19, 647-652.	0.9	10
40	NEAR INFRARED SPECTROSCOPY: RAPID AND ACCURATE ANALYTICAL TOOL FOR PREDICTION OF NON-STRUCTURAL CARBOHYDRATES IN WOOD. <i>Cerne</i> , 2019, 25, 84-92.	0.9	10
41	Influence of Extractives Content and Lignin Quality of <i>Eucalyptus</i> Wood in the Mass Balance of Pyrolysis Process. <i>Bioenergy Research</i> , 2021, 14, 175-189.	2.2	9
42	Estimating hardness and density of wood and charcoal by near-infrared spectroscopy. <i>Wood Science and Technology</i> , 2021, 55, 215-230.	1.4	9
43	Do the Growing Conditions of Trees Influence the Wood Properties?. <i>Floresta E Ambiente</i> , 2019, 26, .	0.1	9
44	Efeito dos elementos anatômicos da madeira na secagem das toras de <i>Eucalyptus</i> e <i>Corymbia</i> . <i>Scientia Forestalis/Forest Sciences</i> , 2017, 45, .	0.2	9
45	DETERMINATION OF HEAT-TREATED EUCALYPTUS AND PINUS WOOD PROPERTIES USING NIR SPECTROSCOPY. <i>Journal of Tropical Forest Science</i> , 2018, 30, 117-125.	0.1	9
46	Modelos de calibração e a espectroscopia no infravermelho próximo para predição das propriedades químicas e da densidade básica da madeira de <i>Eucalyptus</i> . <i>Ciencia Florestal</i> , 2010, 20, 367-376.	0.1	9
47	Wood Permeability in <i>Eucalyptus grandis</i> and <i>Eucalyptus dunnii</i> . <i>Floresta E Ambiente</i> , 2017, 25, .	0.1	7
48	ESTABLISHMENT OF QUALITY CLASSES FOR HARDWOOD FLOORINGS BY SIMULATED USE. <i>Cerne</i> , 2019, 25, 105-109.	0.9	7
49	Classification of commercial charcoal for domestic use by near infrared spectroscopy. <i>Biomass and Bioenergy</i> , 2019, 127, 105280.	2.9	7
50	Propriedades energéticas do carvão vegetal em função do espaçamento de plantio. <i>Ciência Da Madeira</i> , 2017, 8, 54-63.	0.3	7
51	Lenho e Casca de <i>Eucalyptus</i> e <i>Acacia</i> em Plantios Monoespecíficos e Consorciados. <i>Floresta E Ambiente</i> , 2017, 25, .	0.1	6
52	Wood grain angles variations in <i>Eucalyptus</i> and their relationships to physical-mechanical properties. <i>Holzforschung</i> , 2020, 74, 1089-1097.	0.9	6
53	Resonance of scantlings indicates the stiffness even of small specimens of <i>Eucalyptus</i> from plantations. <i>Wood Science and Technology</i> , 2012, 46, 621-635.	1.4	5
54	Essential Oil Content in <i>Eremanthus Erythropappus</i> Wood Powder Can Be Estimated Using near Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2015, 23, 33-39.	0.8	5

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55	Drying kinetics in <i>Eucalyptus urophylla</i> wood: analysis of anisotropy and region of the stem. <i>Drying Technology</i> , 0, , 1-12.	1.7	5
56	Classifying waste wood from Amazonian species by near-infrared spectroscopy (NIRS) to improve charcoal production. <i>Renewable Energy</i> , 2022, 193, 584-594.	4.3	5
57	Cellulose Nanofibrils as Reinforcement in the Process Manufacture of Paper Handsheets. <i>Journal of Natural Fibers</i> , 2022, 19, 7818-7833.	1.7	4
58	Artificial Neural Networks To Distinguish Charcoal from <i>Eucalyptus</i> and Native Forests Based on Their Mineral Components. <i>Energy & Fuels</i> , 2020, 34, 9599-9608.	2.5	2
59	Influence of Particles Size on NIR Spectroscopic Estimations of Charcoal Properties. <i>Floresta E Ambiente</i> , 2019, 26, .	0.1	2
60	Influência do diâmetro e umidade no tratamento preservativo de moirões de <i>Eucalyptus</i> . <i>Revista Arvore</i> , 2014, 38, 919-925.	0.5	2
61	Estimativa do Ângulo Microfibrilar em Madeira de <i>Eucalyptusurophyllax E. grandis</i> por Meio da Espectroscopia no Infravermelho Próximo. <i>Floresta E Ambiente</i> , 2012, 19, 194-199.	0.1	2
62	NIR spectroscopy can evaluate the crystallinity and the tensile and burst strengths of nanocellulosic films. <i>Maderas: Ciencia Y Tecnologia</i> , 2016, , 0-0.	0.7	1
63	Influência do tratamento preservativo com CCA-C na estabilidade dimensional da madeira de <i>Eucalyptus</i> . <i>Scientia Forestalis/Forest Sciences</i> , 2017, 45, .	0.2	1
64	Effect of planting density on wood anatomy in <i>Eucalyptus</i> and <i>Acacia</i> from Brazil. <i>Madera Bosques</i> , 2018, 24, .	0.1	1
65	Relationship among the stiffness, wave propagation speed, density and moisture content of <i>pinus elliottii</i> and <i>bertholletia excelsa</i> wood specimens. <i>Wood Material Science and Engineering</i> , 2023, 18, 151-160.	1.1	1
66	PHYSICAL AND CHEMICAL PRETREATMENT OF SUGARCANE BAGASSE FOR ENHANCED ACID HYDROLYSIS. <i>Cellulose Chemistry and Technology</i> , 2020, 54, 699-704.	0.5	1
67	Evaluating biofibers™ properties and products by NIR spectroscopy. , 2022, , 367-392.		1