JosÃ© Carlos Rodrigues

List of Publications by Year
in descending order

67 papers	3,957 citations	201674 27 h-index	123424 61 g-index
68 all docs	68 docs citations	68 times ranked	4786 citing authors

#	Article	IF	Citations
1	Effects of short-time vibratory ball milling on the shape of FT-IR spectra of wood and cellulose. Vibrational Spectroscopy, 2004, 36, 23-40.	2.2	1,054
2	A Review of Band Assignments in near Infrared Spectra of Wood and Wood Components. Journal of Near Infrared Spectroscopy, 2011, 19, 287-308.	1.5	485
3	Adsorption of acid orange 7 dye in aqueous solutions by spent brewery grains. Separation and Purification Technology, 2004, 40, 309-315.	7.9	178
4	Genetic parameters of growth and wood quality traits inPicea abies. Scandinavian Journal of Forest Research, 2004, 19, 14-29.	1.4	171
5	Glycerol and glyceryl esters of ï‰-hydroxyacids in cutins. Phytochemistry, 2002, 61, 205-215.	2.9	126
6	Determination of tree to tree variation in syringyl/guaiacyl ratio of Eucalyptus globulus wood lignin by analytical pyrolysis. Journal of Analytical and Applied Pyrolysis, 1999, 48, 121-128.	5.5	115
7	Analytical pyrolysis as a direct method to determine the lignin content in wood. Journal of Analytical and Applied Pyrolysis, 2006, 76, 209-213.	5.5	87
8	Genetic Variation in the Chemical Components ofEucalyptus globulusWood. G3: Genes, Genomes, Genetics, 2011, 1, 151-159.	1.8	81
9	A common near infraredâ€"based partial least squares regression model for the prediction of wood density of Pinus pinaster and LarixÂÃ—Âeurolepis. Wood Science and Technology, 2012, 46, 157-175.	3.2	77
10	Influence of tree eccentric growth on syringyl/guaiacyl ratio in Eucalyptus globulus wood lignin assessed by analytical pyrolysis. Journal of Analytical and Applied Pyrolysis, 2001, 58-59, 481-489.	5.5	70
11	Quantitative evaluation by attenuated total reflectance infrared (ATR-FTIR) spectroscopy of the chemical composition of decayed wood preserved in waterlogged conditions. Talanta, 2015, 131, 14-20.	5.5	67
12	Calibration of NIR to assess lignin composition (H/G ratio) in maritime pine wood using analytical pyrolysis as the reference method. Holzforschung, 2006, 60, 29-31.	1.9	61
13	A comprehensive assessment of the transcriptome of cork oak (Quercus suber) through EST sequencing. BMC Genomics, 2014, 15, 371.	2.8	53
14	Molecular and phenotypic profiling from the base to the crown in maritime pine woodâ€forming tissue. New Phytologist, 2008, 178, 283-301.	7.3	49
15	Variation of wood density and mechanical properties of blackwood (Acacia melanoxylon R. Br.). Materials & Design, 2014, 56, 975-980.	5.1	48
16	QTLs and candidate genes for wood properties in maritime pine (Pinus pinaster Ait.). Tree Genetics and Genomes, 2006, 2, 10-24.	1.6	47
17	Plasticity of maritime pine (Pinus pinaster) woodâ€forming tissues during a growing season. New Phytologist, 2008, 179, 1180-1194.	7.3	42
18	Determination of the Syringyl/Guaiacyl Ratio ofEucalyptus GlobulusWood Lignin by near Infrared-Based Partial Least Squares Regression Models Using Analytical Pyrolysis as the Reference Method. Journal of Near Infrared Spectroscopy, 2011, 19, 343-348.	1.5	42

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19	Contrasting nitrogen fertilization treatments impact xylem gene expression and secondary cell wall lignification in Eucalyptus. BMC Plant Biology, 2014, 14, 256.	3.6	41
20	Isolation and comparative characterization of a BjÃ¶rkman lignin from the saponified cork of Douglas-fir bark. Journal of Analytical and Applied Pyrolysis, 2006, 77, 169-176.	5.5	38
21	Analytical pyrolysis as a direct method to determine the lignin content in wood. Journal of Analytical and Applied Pyrolysis, 2009, 85, 30-37.	5.5	35
22	Impact of high moisture conditions on the serviceability performance of wood plastic composite decks. Materials and Design, 2016, 103, 122-131.	7.0	35
23	Title is missing!. Molecular Breeding, 2003, 12, 157-167.	2.1	31
24	Estimation of Wood Basic Density of Acacia Melanoxylon (R. Br.) by near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2012, 20, 267-274.	1.5	31
25	NIR PLSR results obtained by calibration with noisy, low-precision reference values: Are the results acceptable?. Holzforschung, 2006, 60, 402-408.	1.9	30
26	Determination of Lignin Content in Norway Spruce Wood by Fourier Transformed near Infrared Spectroscopy and Partial Least Squares Regression. Part 1: Wavenumber Selection and Evaluation of the Selected Range. Journal of Near Infrared Spectroscopy, 2011, 19, 319-329.	1.5	30
27	Near-infrared spectroscopy enables the genetic analysis of chemical properties in a large set of wood samples from Populus nigra (L.) natural populations. Industrial Crops and Products, 2017, 107, 159-171.	5.2	30
28	Improvement of the acetylbromide method for lignin determination within large scale screening programmes. European Journal of Wood and Wood Products, 1999, 57, 341-345.	2.9	29
29	Rapid Determination of the Lignin Content in Sitka Spruce (Picea sitchensis (Bong.) Carr.) Wood by Fourier Transform Infrared Spectrometry. Holzforschung, 1999, 53, 597-602.	1.9	27
30	Improvement of Pinus pinaster Ait elite trees selection by combining near infrared spectroscopy and genetic tools. Holzforschung, 2007, 61, 611-622.	1.9	27
31	Long cold exposure induces transcriptional and biochemical remodelling of xylem secondary cell wall in Eucalyptus. Tree Physiology, 2018, 38, 409-422.	3.1	27
32	Pulping Yield and Delignification Kinetics of Heartwood and Sapwood of Maritime Pine. Journal of Wood Chemistry and Technology, 2005, 25, 217-230.	1.7	26
33	Does selecting for improved growth affect wood quality of Pinus pinaster in Portugal?. Forest Ecology and Management, 2009, 258, 115-121.	3.2	26
34	Analytical pyrolysis as a direct method to determine the lignin content in wood. Journal of Analytical and Applied Pyrolysis, 2008, 81, 167-172.	5.5	25
35	Determination of Eucalyptus Globulus Wood Extractives Content by near Infrared-Based Partial Least Squares Regression Models: Comparison between Extraction Procedures. Journal of Near Infrared Spectroscopy, 2012, 20, 275-285.	1.5	24
36	NIR PLSR model selection for Kappa number prediction of maritime pine Kraft pulps. Wood Science and Technology, 2007, 41, 491-499.	3.2	23

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37	Applying pyrolysis-gas chromatography/mass spectrometry to the identification of oriental lacquers: study of two lacquered shields. Analytical and Bioanalytical Chemistry, 2009, 395, 2167-2174.	3.7	23
38	Determination of Lignin Content in Norway Spruce Wood by Fourier Transformed near Infrared Spectroscopy and Partial Least Squares Regression Analysis. Part 2: Development and Evaluation of the Final Model. Journal of Near Infrared Spectroscopy, 2011, 19, 331-341.	1.5	23
39	Physical, chemical and mechanical properties of Pinus sylvestris wood at five sites in Portugal. IForest, 2017, 10, 669-679.	1.4	23
40	Determination of Monosaccharide Composition of Eucalyptus globulus Wood by FTIR Spectroscopy. Holzforschung, 2001, 55, 265-269.	1.9	22
41	Measuring the chemical composition of waterlogged decayed wood by near infrared spectroscopy. Microchemical Journal, 2015, 122, 176-188.	4.5	22
42	Chemotaxonomic application of Py-GC/MS: Identification of lacquer trees. Journal of Analytical and Applied Pyrolysis, 2010, 89, 117-121.	5.5	21
43	Assessment of High Temperature Effects on Grain Yield and Composition in Bread Wheat Commercial Varieties. Agronomy, 2020, 10, 499.	3.0	21
44	Wood Chemistry in Relation to Quality. ChemInform, 2004, 35, no.	0.0	19
45	Application of near infrared spectroscopy and multivariate data analysis for the evaluation of glue lines of untreated and copper azole treated laminated timber before and after ageing. Polymer Degradation and Stability, 2009, 94, 1061-1071.	5.8	18
46	Genetic variation of chemical and mechanical traits of maritime pine (Pinus pinaster Aiton). Correlations with wood density components. Annals of Forest Science, 2011, 68, 255-265.	2.0	16
47	Pilot study for MDF manufacture from sugarcane bagasse and eucalyptus fibers. European Journal of Wood and Wood Products, 2012, 70, 537-539.	2.9	16
48	Assessment of resin formulations and determination of the formaldehyde to urea molar ratio by nearâ€• and midâ€infrared spectroscopy and multivariate data analysis. Journal of Applied Polymer Science, 2013, 128, 498-508.	2.6	13
49	Oil Content Estimation of Individual Kernels of Quercus Ilex Subsp. Rotundifolia [(Lam) O. Schwarz] Acorns by Fourier Transform near Infrared Spectroscopy and Partial Least Squares Regression. Journal of Near Infrared Spectroscopy, 2007, 15, 247-260.	1.5	12
50	Resistance of Rice Varieties to the Stored-Product Insect,Sitophilus zeamais(Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	1.8	12
51	Impact of solar activity on the growth of pine trees: case study. European Journal of Forest Research, 2014, 133, 639-648.	2.5	11
52	Impact of RAV1-engineering on poplar biomass production: a short-rotation coppice field trial. Biotechnology for Biofuels, 2017, 10, 110.	6.2	11
53	Calibration of near infrared spectroscopy for solid fat content of fat blends analysis using nuclear magnetic resonance data. Analytica Chimica Acta, 2005, 544, 213-218.	5.4	10
54	Eucalyptus Cell Wall Architecture: Clues for Lignocellulosic Biomass Deconstruction. Bioenergy Research, 2016, 9, 969-979.	3.9	10

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55	Improving spatial synchronization between X-ray and near-infrared spectra information to predict wood density profiles. Wood Science and Technology, 2020, 54, 1151-1164.	3.2	9
56	Flavonoid Supplementation Reduces the Extractive Content and Increases the Syringyl/Guaiacyl Ratio in Eucalyptus grandis x Eucalyptus urophylla Hybrid Trees. BioResources, 2013, 8, .	1.0	9
57	Kappa Number Prediction of Acacia melanoxylon Unbleached Kraft Pulps using NIR-PLSR Models with a Narrow Interval of Variation. BioResources, 2014, 9, .	1.0	8
58	Prediction of Wood Density Using near Infrared-Based Partial Least Squares Regression Models Calibrated with X-Ray Microdensity. NIR News, 2013, 24, 4-8.	0.3	7
59	Predicting the lignin H/G ratio of Pinus sylvestris L. wood samples by PLS-R models based on near-infrared spectroscopy. Holzforschung, 2020, 74, 655-662.	1.9	6
60	Physical, chemical and mechanical wood properties of Pinus nigra growing in Portugal. Annals of Forest Science, 2020, 77, 1.	2.0	6
61	Assessment of Four Portuguese Wheat Landrace Diversity to Cope With Global Warming. Frontiers in Plant Science, 2020, 11, 594977.	3.6	6
62	Characterization of residual lignin in cellulose isolated by the diglyme method from three Pinus species by IR spectroscopy and analytical pyrolysis. Holzforschung, 2018, 72, 91-96.	1.9	5
63	Assessment of eucalypts wood lignin content by analytical pyrolysis, comparison with Klason and total lignin contents. Journal of Wood Chemistry and Technology, 0, , 1-7.	1.7	4
64	Determination of extractive content in Cupressus sempervirens wood through a NIRS-PLSR model and its correlation with durability. International Biodeterioration and Biodegradation, 2021, 162, 105247.	3.9	1
65	Prediction of the extractives content of Eucalyptus globulus wood using NIR-based PLS-R models. Influence of spectral range and preprocessing on the percentage of outliers detected. Journal of Wood Chemistry and Technology, 2022, 42, 352-360.	1.7	1
66	Correlation between lignin content and syringyl-to-guaiacyl (S/G) ratio of Eucalyptus globulus wood. Holzforschung, 2022, .	1.9	1
67	Study of the red lacquer from a pair of Namban stirrups by Py-GC/MS. Conservar Patrimonio, 0, 9, 57-66.	0.4	0