José Carlos Rodrigues

List of Publications by Year
in descending order

67 papers	3,957 citations	201575 27 h-index	123376 61 g-index
68 all docs	68 docs citations	68 times ranked	4786 citing authors

#	Article	IF	Citations
1	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.	0.9	1
2	Correlation between lignin content and syringyl-to-guaiacyl (S/G) ratio of *Eucalyptus globulus* wood. Holzforschung, 2022, .	0.9	1
3	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.	1.9	1
4	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.	0.9	6
5	Improving spatial synchronization between X-ray and near-infrared spectra information to predict wood density profiles. Wood Science and Technology, 2020, 54, 1151-1164.	1.4	9
6	Physical, chemical and mechanical wood properties of Pinus nigra growing in Portugal. Annals of Forest Science, 2020, 77, 1.	0.8	6
7	Assessment of Four Portuguese Wheat Landrace Diversity to Cope With Global Warming. Frontiers in Plant Science, 2020, 11, 594977.	1.7	6
8	Assessment of High Temperature Effects on Grain Yield and Composition in Bread Wheat Commercial Varieties. Agronomy, 2020, 10, 499.	1.3	21
9	Long cold exposure induces transcriptional and biochemical remodelling of xylem secondary cell wall in Eucalyptus. Tree Physiology, 2018, 38, 409-422.	1.4	27
10	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.	0.9	5
11	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.	2.5	30
12	Impact of RAV1-engineering on poplar biomass production: a short-rotation coppice field trial. Biotechnology for Biofuels, 2017, 10, 110.	6.2	11
13	Physical, chemical and mechanical properties of Pinus sylvestris wood at five sites in Portugal. IForest, 2017, 10, 669-679.	0.5	23
14	Impact of high moisture conditions on the serviceability performance of wood plastic composite decks. Materials and Design, 2016, 103, 122-131.	3.3	35
15	Eucalyptus Cell Wall Architecture: Clues for Lignocellulosic Biomass Deconstruction. Bioenergy Research, 2016, 9, 969-979.	2.2	10
16	Resistance of Rice Varieties to the Stored-Product Insect,*Sitophilus zeamais* (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	0.8	12
17	Measuring the chemical composition of waterlogged decayed wood by near infrared spectroscopy. Microchemical Journal, 2015, 122, 176-188.	2.3	22
18	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.	2.9	67

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19	Kappa Number Prediction of Acacia melanoxylon Unbleached Kraft Pulps using NIR-PLSR Models with a Narrow Interval of Variation. BioResources, 2014, 9, .	0.5	8
20	Contrasting nitrogen fertilization treatments impact xylem gene expression and secondary cell wall lignification in Eucalyptus. BMC Plant Biology, 2014, 14, 256.	1.6	41
21	Impact of solar activity on the growth of pine trees: case study. European Journal of Forest Research, 2014, 133, 639-648.	1.1	11
22	A comprehensive assessment of the transcriptome of cork oak (Quercus suber) through EST sequencing. BMC Genomics, 2014, 15, 371.	1.2	53
23	Variation of wood density and mechanical properties of blackwood (Acacia melanoxylon R. Br.). Materials & Design, 2014, 56, 975-980.	5.1	48
24	Assessment of resin formulations and determination of the formaldehyde to urea molar ratio by near€• and midâ€infrared spectroscopy and multivariate data analysis. Journal of Applied Polymer Science, 2013, 128, 498-508.	1.3	13
25	Prediction of Wood Density Using near Infrared-Based Partial Least Squares Regression Models Calibrated with X-Ray Microdensity. NIR News, 2013, 24, 4-8.	1.6	7
26	Flavonoid Supplementation Reduces the Extractive Content and Increases the Syringyl/Guaiacyl Ratio in Eucalyptus grandis x Eucalyptus urophylla Hybrid Trees. BioResources, 2013, 8, .	0.5	9
27	Estimation of Wood Basic Density of <i>Acacia Melanoxylon</i> (R. Br.) by near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2012, 20, 267-274.	0.8	31
28	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.	0.8	24
29	Pilot study for MDF manufacture from sugarcane bagasse and eucalyptus fibers. European Journal of Wood and Wood Products, 2012, 70, 537-539.	1.3	16
30	A common near infraredâ€"based partial least squares regression model for the prediction of wood density of Pinus pinaster and LarixÃÂ—Âeurolepis. Wood Science and Technology, 2012, 46, 157-175.	1.4	77
31	A Review of Band Assignments in near Infrared Spectra of Wood and Wood Components. Journal of Near Infrared Spectroscopy, 2011, 19, 287-308.	0.8	485
32	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.	0.8	30
33	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.	0.8	23
34	Determination of the Syringyl/Guaiacyl Ratio of <i>Eucalyptus Globulus</i> Wood 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.	0.8	42
35	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.	0.8	16
36	Genetic Variation in the Chemical Components of <i>Eucalyptus globulus</i> Wood. G3: Genes, Genomes, Genetics, 2011, 1, 151-159.	0.8	81

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37	Chemotaxonomic application of Py-GC/MS: Identification of lacquer trees. Journal of Analytical and Applied Pyrolysis, 2010, 89, 117-121.	2.6	21
38	Analytical pyrolysis as a direct method to determine the lignin content in wood. Journal of Analytical and Applied Pyrolysis, 2009, 85, 30-37.	2.6	35
39	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.	1.9	23
40	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.	2.7	18
41	Does selecting for improved growth affect wood quality of Pinus pinaster in Portugal?. Forest Ecology and Management, 2009, 258, 115-121.	1.4	26
42	Analytical pyrolysis as a direct method to determine the lignin content in wood. Journal of Analytical and Applied Pyrolysis, 2008, 81, 167-172.	2.6	25
43	Molecular and phenotypic profiling from the base to the crown in maritime pine wood–forming tissue. New Phytologist, 2008, 178, 283-301.	3.5	49
44	Plasticity of maritime pine (<i>Pinus pinaster</i>) wood–forming tissues during a growing season. New Phytologist, 2008, 179, 1180-1194.	3.5	42
45	Improvement of Pinus pinaster Ait elite trees selection by combining near infrared spectroscopy and genetic tools. Holzforschung, 2007, 61, 611-622.	0.9	27
46	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.	0.8	12
47	NIR PLSR model selection for Kappa number prediction of maritime pine Kraft pulps. Wood Science and Technology, 2007, 41, 491-499.	1.4	23
48	QTLs and candidate genes for wood properties in maritime pine (Pinus pinaster Ait.). Tree Genetics and Genomes, 2006, 2, 10-24.	0.6	47
49	Analytical pyrolysis as a direct method to determine the lignin content in wood. Journal of Analytical and Applied Pyrolysis, 2006, 76, 209-213.	2.6	87
50	Isolation and comparative characterization of a Björkman lignin from the saponified cork of Douglas-fir bark. Journal of Analytical and Applied Pyrolysis, 2006, 77, 169-176.	2.6	38
51	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.	0.9	61
52	NIR PLSR results obtained by calibration with noisy, low-precision reference values: Are the results acceptable?. Holzforschung, 2006, 60, 402-408.	0.9	30
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.	2.6	10
54	Pulping Yield and Delignification Kinetics of Heartwood and Sapwood of Maritime Pine. Journal of Wood Chemistry and Technology, 2005, 25, 217-230.	0.9	26

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55	Adsorption of acid orange 7 dye in aqueous solutions by spent brewery grains. Separation and Purification Technology, 2004, 40, 309-315.	3.9	178
56	Wood Chemistry in Relation to Quality. ChemInform, 2004, 35, no.	0.1	19
57	Effects of short-time vibratory ball milling on the shape of FT-IR spectra of wood and cellulose. Vibrational Spectroscopy, 2004, 36, 23-40.	1.2	1,054
58	Genetic parameters of growth and wood quality traits inPicea abies. Scandinavian Journal of Forest Research, 2004, 19, 14-29.	0.5	171
59	Title is missing!. Molecular Breeding, 2003, 12, 157-167.	1.0	31
60	Glycerol and glyceryl esters of ω-hydroxyacids in cutins. Phytochemistry, 2002, 61, 205-215.	1.4	126
61	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.	2.6	70
62	Determination of Monosaccharide Composition of Eucalyptus globulus Wood by FTIR Spectroscopy. Holzforschung, 2001, 55, 265-269.	0.9	22
63	Rapid Determination of the Lignin Content in Sitka Spruce (Picea sitchensis (Bong.) Carr.) Wood by Fourier Transform Infrared Spectrometry. Holzforschung, 1999, 53, 597-602.	0.9	27
64	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.	2.6	115
65	Improvement of the acetylbromide method for lignin determination within large scale screening programmes. European Journal of Wood and Wood Products, 1999, 57, 341-345.	1.3	29
66	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.	0.9	4
67	Study of the red lacquer from a pair of Namban stirrups by Py-GC/MS. Conservar Patrimonio, 0, 9, 57-66.	0.5	0