

Hwanmyeong Yeo

List of Publications by Year in descending order

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74
papers

1,145
citations

566801

15
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433756

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74
docs citations

74
times ranked

1316
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification of wood knots using artificial neural networks with texture and local feature-based image descriptors. <i>Holzforschung</i> , 2022, 76, 1-13.	0.9	14
2	Cationic surface-modified regenerated nanocellulose hydrogel for efficient Cr(VI) remediation. <i>Carbohydrate Polymers</i> , 2022, 278, 118930.	5.1	15
3	Eco-friendly alkaline lignin/cellulose nanofiber drying system for efficient redispersion behavior. <i>Carbohydrate Polymers</i> , 2022, 282, 119122.	5.1	19
4	Highly Persistent Lignocellulosic Fibers for Effective Cationic Dye Pollutant Removal. <i>ACS Applied Polymer Materials</i> , 2022, 4, 6006-6020.	2.0	5
5	NIR-chemometric approaches for evaluating carbonization characteristics of hydrothermally carbonized lignin. <i>Scientific Reports</i> , 2021, 11, 16979.	1.6	8
6	Analysis of Carbonization Behavior of Hydrochar Produced by Hydrothermal Carbonization of Lignin and Development of a Prediction Model for Carbonization Degree Using Near-Infrared Spectroscopy. <i>Journal of the Korean Wood Science and Technology</i> , 2021, 49, 213-225.	0.8	6
7	Application of neural networks for classifying softwood species using near infrared spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2020, 28, 298-307.	0.8	16
8	Applicability of Continuous Process Using Saturated and Superheated Steam for Boxed Heart Square Timber Drying. <i>Journal of the Korean Wood Science and Technology</i> , 2020, 48, 121-135.	0.8	4
9	Soft Independent Modeling of Class Analogy for Classifying Lumber Species Using Their Near-infrared Spectra. <i>Journal of the Korean Wood Science and Technology</i> , 2019, 47, 101-109.	0.8	3
10	Visual Classification of Wood Knots Using k-Nearest Neighbor and Convolutional Neural Network. <i>Journal of the Korean Wood Science and Technology</i> , 2019, 47, 229-238.	0.8	1
11	Performance Enhancement of Automatic Wood Classification of Korean Softwood by Ensembles of Convolutional Neural Networks. <i>Journal of the Korean Wood Science and Technology</i> , 2019, 47, 265-276.	0.8	7
12	Wood Species Classification Utilizing Ensembles of Convolutional Neural Networks Established by Near-Infrared Spectra and Images Acquired from Korean Softwood Lumber. <i>Journal of the Korean Wood Science and Technology</i> , 2019, 47, 385-392.	0.8	1
13	Effect of Organic Solvent Extractives on Korean Softwoods Classification Using Near-infrared Spectroscopy. <i>Journal of the Korean Wood Science and Technology</i> , 2019, 47, 509-518.	0.8	4
14	Hygroscopic Property of Heat Treated Yellow Poplar (<i>Liriodendron tulipifera</i>) Wood. <i>Journal of the Korean Wood Science and Technology</i> , 2019, 47, 761-769.	0.8	11
15	Classification of the hot air heat treatment degree of larch wood using a multivariate analysis of near-infrared spectroscopy. <i>Journal of Wood Science</i> , 2018, 64, 220-225.	0.9	10
16	Rapid Prediction of the Chemical Information of Wood Powder from Softwood Species Using Near-Infrared Spectroscopy. <i>BioResources</i> , 2018, 13, .	0.5	9
17	Quantification of Carbon Reduction Effects of Domestic Wood Products for Valuation of Public Benefit. <i>Journal of the Korean Wood Science and Technology</i> , 2018, 46, 202-210.	0.8	2
18	Evaluation of Deterioration of <i>Larix kaempferi</i> Wood Heat-treated by Superheated Steam through Field Decay Test for 12 Months. <i>Journal of the Korean Wood Science and Technology</i> , 2018, 46, 497-510.	0.8	9

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19	Evaluation of the energy efficiency of combined drying and heat treatment by superheated steam. <i>Drying Technology</i> , 2017, 35, 1460-1467.	1.7	5
20	Separation of drying strains and the calculation of drying stresses considering the viscoelasticity of red pine wood during drying. <i>Drying Technology</i> , 2017, 35, 1858-1866.	1.7	4
21	Changes of major chemical components in larch wood through combined treatment of drying and heat treatment using superheated steam. <i>Journal of Wood Science</i> , 2017, 63, 635-643.	0.9	15
22	Effect of heat treatment temperature and time on sound absorption coefficient of <i>Larix kaempferi</i> wood. <i>Journal of Wood Science</i> , 2017, 63, 575-579.	0.9	18
23	Improvement of shear strength, wood failure percentage and wet delamination of cross-laminated timber (CLT) panels made with superheated steam treated (SHST) layers of larch wood. <i>Holzforschung</i> , 2017, 71, 873-879.	0.9	7
24	Possibility of Wood Classification in Korean Softwood Species Using Near-infrared Spectroscopy Based on Their Chemical Compositions. <i>Journal of the Korean Wood Science and Technology</i> , 2017, 45, 202-212.	0.8	18
25	Finite Difference Evaluation of Moisture Profile in Boxed-heart Large-cross-section Square Timber of <i>Pinus densiflora</i> during High Temperature Drying. <i>Journal of the Korean Wood Science and Technology</i> , 2017, 45, 762-771.	0.8	9
26	Automatic Wood Species Identification of Korean Softwood Based on Convolutional Neural Networks. <i>Journal of the Korean Wood Science and Technology</i> , 2017, 45, 797-808.	0.8	21
27	The effect of controlling the drying distortion of laminas on the production yield of cross-laminated timber (CLT) using <i>Larix kaempferi</i> wood. <i>European Journal of Wood and Wood Products</i> , 2016, 74, 519-526.	1.3	4
28	Effect of freeze storage on hemicellulose degradation and enzymatic hydrolysis by dilute-acid pretreatment of Mongolian oak. <i>Fuel</i> , 2016, 165, 145-151.	3.4	16
29	Parametric study on the capability of three-dimensional finite element analysis (3D-FEA) of compressive behaviour of Douglas fir. <i>Holzforschung</i> , 2016, 70, 539-546.	0.9	6
30	The shrinkage properties of red pine wood assessed by image analysis and near-infrared spectroscopy. <i>Drying Technology</i> , 2016, 34, 1613-1620.	1.7	12
31	Effect of ethanol organosolv pretreatment factors on enzymatic digestibility and ethanol organosolv lignin structure from <i>Liriodendron tulipifera</i> in specific combined severity factors. <i>Renewable Energy</i> , 2016, 87, 599-606.	4.3	47
32	Assessment of Carbon Emission for Quantification of Environmental Load on Structural Glued Laminated Timber in Korea. <i>Journal of the Korean Wood Science and Technology</i> , 2016, 44, 449-456.	0.8	3
33	Evaluation of Physico-mechanical Properties and Durability of <i>Larix kaempferi</i> Wood Heat-treated by Superheated Steam. <i>Journal of the Korean Wood Science and Technology</i> , 2016, 44, 776-784.	0.8	12
34	Energy Efficiency of Fluidized Bed Drying for Wood Particles. <i>Journal of the Korean Wood Science and Technology</i> , 2016, 44, 821-827.	0.8	3
35	A Study on Dimensional Stability and Thermal Performance of Superheated Steam Treated and Thermal Compressed Wood. <i>Journal of the Korean Wood Science and Technology</i> , 2016, 44, 184-190.	0.8	3
36	Predicting Lamina Yield from Logs of Different Diameters for Cross Laminated Timber Production. <i>Journal of the Korean Wood Science and Technology</i> , 2016, 44, 809-820.	0.8	3

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37	Development of Moisture Content Prediction Model for <i>Larix kaempferi</i> Sawdust Using Near Infrared Spectroscopy. <i>Journal of the Korean Wood Science and Technology</i> , 2015, 43, 304-310.	0.8	5
38	Moisture Content Prediction Model Development for Major Domestic Wood Species Using Near Infrared Spectroscopy. <i>Journal of the Korean Wood Science and Technology</i> , 2015, 43, 311-319.	0.8	5
39	Optimization of The Organosolv Pretreatment of Yellow Poplar for Bioethanol Production by Response Surface Methodology. <i>Journal of the Korean Wood Science and Technology</i> , 2015, 43, 600-612.	0.8	7
40	Wood Shrinkage Measurement of Using a Flatbed Scanner. <i>Journal of the Korean Wood Science and Technology</i> , 2015, 43, 43-51.	0.8	4
41	Evaluation of Physico-Mechanical Properties and Durability of <i>Larix kaempferi</i> Wood Heat-Treated by Hot Air. <i>Journal of the Korean Wood Science and Technology</i> , 2015, 43, 334-343.	0.8	8
42	Determination of Grades and Design Strengths of Machine Graded Lumber in Korea. <i>Journal of the Korean Wood Science and Technology</i> , 2015, 43, 446-455.	0.8	2
43	Organosolv Pretreatment of Slurry Composting and Biofiltration of Liquid Fertilizer-Treated Yellow Poplar for Sugar Production. <i>Journal of the Korean Wood Science and Technology</i> , 2015, 43, 578-590.	0.8	2
44	Bonding Performance of Adhesives with Lamina in Structural Glulam Manufactured by High Frequency Heating System. <i>Journal of the Korean Wood Science and Technology</i> , 2015, 43, 682-690.	0.8	3
45	Assessment on Thermal Transmission Property of Wall Through a Scaled Model Test. <i>Journal of the Korean Wood Science and Technology</i> , 2015, 43, 884-889.	0.8	1
46	Changes of Furfural and Levulinic Acid Yield from Small-diameter <i>Quercus mongolica</i> Depending on Dilute Acid Pretreatment Conditions. <i>Journal of the Korean Wood Science and Technology</i> , 2015, 43, 838-850.	0.8	3
47	Combined treatment of green pitch pine wood by heat and superheated steam and the effects on physical properties of the products. <i>Holzforchung</i> , 2014, 68, 327-335.	0.9	15
48	Effect of Outer Surface Sealing Treatment on the Reduction of Surface Check Occurrence During the Drying of Center-Bored Round Timber. <i>Drying Technology</i> , 2014, 32, 236-243.	1.7	6
49	Study on Methods for Determining Half-Life of Domestic Wooden Panel among Harvested Wood Products. <i>Journal of the Korean Wood Science and Technology</i> , 2014, 42, 309-317.	0.8	4
50	Estimation of Radio Frequency Electric Field Strength for Dielectric Heating of Phenol-Resorcinol-Formaldehyde Resin Used for Manufacturing Glulam. <i>Journal of the Korean Wood Science and Technology</i> , 2014, 42, 339-345.	0.8	1
51	Comparison of pyrolytic products produced from inorganic-rich and demineralized rice straw (<i>Oryza</i>) Tj ETQq1 1 0.784314 rgBT /Overlo 128, 664-672.	4.8	77
52	Comparison of physicochemical features of biooils and biochars produced from various woody biomasses by fast pyrolysis. <i>Renewable Energy</i> , 2013, 50, 188-195.	4.3	81
53	Classification of the conductance of moisture through wood cell components. <i>Journal of Wood Science</i> , 2013, 59, 469-476.	0.9	2
54	Behavior of center-bored round timber beams in center-point bending test. <i>Journal of Wood Science</i> , 2013, 59, 389-395.	0.9	2

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55	Optimized Lamina Size Maximizing Yield for Cross Laminated Timber Using Domestic Trees. Journal of the Korean Wood Science and Technology, 2013, 41, 141-148.	0.8	6
56	Shear Performance of PUR Adhesive in Cross Laminating of Red Pine. Journal of the Korean Wood Science and Technology, 2013, 41, 158-163.	0.8	14
57	Effect of Alternating Vacuum and Release Process on Drying Characteristics of Log Cross Section during Radio Frequency Drying. Journal of the Korean Wood Science and Technology, 2013, 41, 456-465.	0.8	2
58	Analysis of residual drying stress in Larix Kaempferi wood used as glulam laminar. Journal of the Korean Wood Science and Technology, 2013, 41, 535-543.	0.8	3
59	A Study on the Introduction and Settlement of the Labeling System for Wood-based Products and Expanding in Korea. Journal of the Korean Wood Science and Technology, 2013, 41, 258-268.	0.8	1
60	Improvement of heat treatment energy efficiency and control of drying check occurrence using superheated steam. , 2012, , .		2
61	Structural changes in lignin during organosolv pretreatment of Liriodendron tulipifera and the effect on enzymatic hydrolysis. Biomass and Bioenergy, 2012, 42, 24-32.	2.9	101
62	Analysis of Factors Affecting the Hygroscopic Performance of Thermally Treated Pinus koraiensis Wood. Journal of the Korean Wood Science and Technology, 2012, 40, 10-18.	0.8	8
63	Changes of Sound Absorption Capability of Wood by Organosolv Pretreatment. Journal of the Korean Wood Science and Technology, 2012, 40, 237-243.	0.8	10
64	Evaluation of Physical Properties of Korean Pine (Pinus koraiensis Siebold & Zucc.) Lumber Heat-Treated by Superheated Steam. Journal of the Korean Wood Science and Technology, 2012, 40, 257-267.	0.8	15
65	Evaluation of friction force varied by non-slip surface patterns of deck. Journal of the Korean Wood Science and Technology, 2012, 40, 397-405.	0.8	0
66	Characterization of by-products from organosolv pretreatments of yellow poplar wood (Liriodendron tulipifera) in the presence of acid and alkali catalysts. Journal of Industrial and Engineering Chemistry, 2011, 17, 18-24.	2.9	44
67	Organosolv pretreatment of Liriodendron tulipifera and simultaneous saccharification and fermentation for bioethanol production. Biomass and Bioenergy, 2011, 35, 1833-1840.	2.9	85
68	Investigation of physicochemical properties of biooils produced from yellow poplar wood (Liriodendron tulipifera) at various temperatures and residence times. Journal of Analytical and Applied Pyrolysis, 2011, 92, 2-9.	2.6	97
69	Organosolv pretreatment with various catalysts for enhancing enzymatic hydrolysis of pitch pine (Pinus rigida). Bioresource Technology, 2010, 101, 7046-7053.	4.8	155
70	Some considerations in heterogeneous nonisothermal transport models for wood: a numerical study. Journal of Wood Science, 2008, 54, 267-277.	0.9	9
71	The effect of openings on combined bound water and water vapor diffusion in wood. Journal of Wood Science, 2008, 54, 343-348.	0.9	13
72	BENDING STRENGTH PREDICTION OF STRUCTURAL LUMBER BY X-RAY SCANNER. , 2008, , .		1

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73	QUANTITATIVE EVALUATION OF KNOT IN JAPANESE LARCH LUMBER USING X-RAY SCANNING. , 2008, , .		1
74	DETECTION OF DEFECTS IN LUMBER USING IR THERMOGRAPHY. , 2008, , .		0