

Hwanmyeong Yeo

List of Publications by Year in descending order

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74
papers

1,145
citations

566801

15
h-index

433756

31
g-index

74
all docs

74
docs citations

74
times ranked

1316
citing authors

#	ARTICLE	IF	CITATIONS
1	Organosolv pretreatment with various catalysts for enhancing enzymatic hydrolysis of pitch pine (<i>Pinus rigida</i>). <i>Bioresource Technology</i> , 2010, 101, 7046-7053.	4.8	155
2	Structural changes in lignin during organosolv pretreatment of <i>Liriodendron tulipifera</i> and the effect on enzymatic hydrolysis. <i>Biomass and Bioenergy</i> , 2012, 42, 24-32.	2.9	101
3	Investigation of physicochemical properties of biooils produced from yellow poplar wood (<i>Liriodendron tulipifera</i>) at various temperatures and residence times. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011, 92, 2-9.	2.6	97
4	Organosolv pretreatment of <i>Liriodendron tulipifera</i> and simultaneous saccharification and fermentation for bioethanol production. <i>Biomass and Bioenergy</i> , 2011, 35, 1833-1840.	2.9	85
5	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
6	Comparison of pyrolytic products produced from inorganic-rich and demineralized rice straw (<i>Oryza</i>). <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 128, 664-672.	4.8	77
7	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
8	Characterization of by-products from organosolv pretreatments of yellow poplar wood (<i>Liriodendron tulipifera</i>) in the presence of acid and alkali catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , 2011, 17, 18-24.	2.9	44
9	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
10	Eco-friendly alkaline lignin/cellulose nanofiber drying system for efficient redispersion behavior. <i>Carbohydrate Polymers</i> , 2022, 282, 119122.	5.1	19
11	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
12	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
13	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
14	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
15	Combined treatment of green pitch pine wood by heat and superheated steam and the effects on physical properties of the products. <i>Holzforschung</i> , 2014, 68, 327-335.	0.9	15
16	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
17	Evaluation of Physical Properties of Korean Pine (<i>Pinus koraiensis</i> Siebold & Zucc.) Lumber Heat-Treated by Superheated Steam. <i>Journal of the Korean Wood Science and Technology</i> , 2012, 40, 257-267.	0.8	15
18	Cationic surface-modified regenerated nanocellulose hydrogel for efficient Cr(VI) remediation. <i>Carbohydrate Polymers</i> , 2022, 278, 118930.	5.1	15

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19	Shear Performance of PUR Adhesive in Cross Laminating of Red Pine. <i>Journal of the Korean Wood Science and Technology</i> , 2013, 41, 158-163.	0.8	14
20	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
21	The effect of openings on combined bound water and water vapor diffusion in wood. <i>Journal of Wood Science</i> , 2008, 54, 343-348.	0.9	13
22	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
23	Evaluation of Physico-mechanical Properties and Durability of Larix kaempferi Wood Heat-treated by Superheated Steam. <i>Journal of the Korean Wood Science and Technology</i> , 2016, 44, 776-784.	0.8	12
24	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
25	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
26	Changes of Sound Absorption Capability of Wood by Organosolv Pretreatment. <i>Journal of the Korean Wood Science and Technology</i> , 2012, 40, 237-243.	0.8	10
27	Some considerations in heterogeneous nonisothermal transport models for wood: a numerical study. <i>Journal of Wood Science</i> , 2008, 54, 267-277.	0.9	9
28	Rapid Prediction of the Chemical Information of Wood Powder from Softwood Species Using Near-Infrared Spectroscopy. <i>BioResources</i> , 2018, 13, .	0.5	9
29	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
30	Evaluation of Deterioration of Larix kaempferi 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
31	NIR-chemometric approaches for evaluating carbonization characteristics of hydrothermally carbonized lignin. <i>Scientific Reports</i> , 2021, 11, 16979.	1.6	8
32	Analysis of Factors Affecting the Hygroscopic Performance of Thermally Treated <i>Pinus koraiensis</i> Wood. <i>Journal of the Korean Wood Science and Technology</i> , 2012, 40, 10-18.	0.8	8
33	Evaluation of Physico-Mechanical Properties and Durability of Larix kaempferi Wood Heat-Treated by Hot Air. <i>Journal of the Korean Wood Science and Technology</i> , 2015, 43, 334-343.	0.8	8
34	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
35	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
36	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

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37	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
38	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
39	Optimized Lamina Size Maximizing Yield for Cross Laminated Timber Using Domestic Trees. <i>Journal of the Korean Wood Science and Technology</i> , 2013, 41, 141-148.	0.8	6
40	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
41	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
42	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
43	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
44	Highly Persistent Lignocellulosic Fibers for Effective Cationic Dye Pollutant Removal. <i>ACS Applied Polymer Materials</i> , 2022, 4, 6006-6020.	2.0	5
45	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
46	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
47	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
48	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
49	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
50	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
51	Analysis of residual drying stress in <i>Larix Kaempferi</i> wood used as glulam laminar. <i>Journal of the Korean Wood Science and Technology</i> , 2013, 41, 535-543.	0.8	3
52	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
53	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
54	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

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55	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
56	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
57	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
58	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
59	Improvement of heat treatment energy efficiency and control of drying check occurrence using superheated steam. , 2012, , .		2
60	Classification of the conductance of moisture through wood cell components. <i>Journal of Wood Science</i> , 2013, 59, 469-476.	0.9	2
61	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
62	Effect of Alternating Vacuum and Release Process on Drying Characteristics of Log Cross Section during Radio Frequency Drying. <i>Journal of the Korean Wood Science and Technology</i> , 2013, 41, 456-465.	0.8	2
63	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
64	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
65	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
66	BENDING STRENGTH PREDICTION OF STRUCTURAL LUMBER BY X-RAY SCANNER. , 2008, , .		1
67	QUANTITATIVE EVALUATION OF KNOT IN JAPANESE LARCH LUMBER USING X-RAY SCANNING. , 2008, , .		1
68	A Study on the Introduction and Settlement of the Labeling System for Wood-based Products and Expanding in Korea. <i>Journal of the Korean Wood Science and Technology</i> , 2013, 41, 258-268.	0.8	1
69	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
70	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
71	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
72	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

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73	DETECTION OF DEFECTS IN LUMBER USING IR THERMOGRAPHY. , 2008, , .		0
74	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