

Seung-Hwan Lee

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155
papers

4,257
citations

36
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60
g-index

159
ext. papers

4,785
ext. citations

4.4
avg, IF

5.86
L-index

#	Paper	IF	Citations
155	Biodegradable polymers/bamboo fiber biocomposite with bio-based coupling agent. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006 , 37, 80-91	8.4	611
154	Physical and mechanical properties of polyvinyl alcohol and polypropylene composite materials reinforced with fibril aggregates isolated from regenerated cellulose fibers. <i>Cellulose</i> , 2007 , 14, 593-602	5.5	165
153	Thermal degradation and biodegradability of poly (lactic acid)/corn starch biocomposites. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 3009-3017	2.9	152
152	Evaluation of interphase properties in a cellulose fiber-reinforced polypropylene composite by nanoindentation and finite element analysis. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007 , 38, 1517-1524	8.4	134
151	Pretreatment of eucalyptus wood chips for enzymatic saccharification using combined sulfuric acid-free ethanol cooking and ball milling. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 75-85	4.9	109
150	Biodegradable polyurethane foam from liquefied waste paper and its thermal stability, biodegradability, and genotoxicity. <i>Journal of Applied Polymer Science</i> , 2002 , 83, 1482-1489	2.9	97
149	Major improvement in the rate and yield of enzymatic saccharification of sugarcane bagasse via pretreatment with the ionic liquid 1-ethyl-3-methylimidazolium acetate ([Emim] [Ac]). <i>Bioresource Technology</i> , 2011 , 102, 10505-9	11	96
148	Enzymatic saccharification of woody biomass micro/nanofibrillated by continuous extrusion process I--effect of additives with cellulose affinity. <i>Bioresource Technology</i> , 2009 , 100, 275-9	11	96
147	Pretreatment of woody and herbaceous biomass for enzymatic saccharification using sulfuric acid-free ethanol cooking. <i>Bioresource Technology</i> , 2008 , 99, 8856-63	11	93
146	Relationship between aspect ratio and suspension viscosity of wood cellulose nanofibers. <i>Polymer Journal</i> , 2014 , 46, 73-76	2.7	78
145	Adhesive penetration of wood cell walls investigated by scanning thermal microscopy (SThM). <i>Holzforschung</i> , 2008 , 62, 91-98	2	75
144	Mechanical properties of polypropylene composites reinforced by surface-coated microfibrillated cellulose. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014 , 59, 26-29	8.4	73
143	Association of wet disk milling and ozonolysis as pretreatment for enzymatic saccharification of sugarcane bagasse and straw. <i>Bioresource Technology</i> , 2013 , 136, 288-94	11	71
142	Increase in enzyme accessibility by generation of nanospace in cell wall supramolecular structure. <i>Bioresource Technology</i> , 2010 , 101, 7218-23	11	70
141	Liquefaction of corn bran (CB) in the presence of alcohols and preparation of polyurethane foam from its liquefied polyol. <i>Journal of Applied Polymer Science</i> , 2000 , 78, 319-325	2.9	67
140	Eco-composite from poly(lactic acid) and bamboo fiber. <i>Holzforschung</i> , 2004 , 58, 529-536	2	66
139	Continuous pretreatment of sugarcane bagasse at high loading in an ionic liquid using a twin-screw extruder. <i>Green Chemistry</i> , 2013 , 15, 1991	10	62

138	Solid-state shear pulverization as effective treatment for dispersing lignocellulose nanofibers in polypropylene composites. <i>Cellulose</i> , 2014 , 21, 1573-1580	5.5	59
137	Resol-type phenolic resin from liquefied phenolated wood and its application to phenolic foam. <i>Journal of Applied Polymer Science</i> , 2002 , 84, 468-472	2.9	58
136	Enzymatic saccharification of woody biomass micro/nanofibrillated by continuous extrusion process II: effect of hot-compressed water treatment. <i>Bioresource Technology</i> , 2010 , 101, 9645-9	11	52
135	Cost reduction and feedstock diversity for sulfuric acid-free ethanol cooking of lignocellulosic biomass as a pretreatment to enzymatic saccharification. <i>Bioresource Technology</i> , 2009 , 100, 4783-9	11	50
134	Plasticization of cellulose diacetate by reaction with maleic anhydride, glycerol, and citrate esters during melt processing. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 243-250	2.9	50
133	Effect of aliphatic isocyanates (HDI and LDI) as coupling agents on the properties of eco-composites from biodegradable polymers and corn starch. <i>Journal of Adhesion Science and Technology</i> , 2004 , 18, 905-924	2	49
132	Cellulose nanofiber-reinforced polycaprolactone/polypropylene hybrid nanocomposite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011 , 42, 151-156	8.4	47
131	Mechanical and thermal flow properties of wood flour/biodegradable polymer composites. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 1900-1905	2.9	47
130	Doxorubicin-carboxymethyl xanthan gum capped gold nanoparticles: Microwave synthesis, characterization, and anti-cancer activity. <i>Carbohydrate Polymers</i> , 2020 , 229, 115511	10.3	47
129	Combined pretreatment using ozonolysis and wet-disk milling to improve enzymatic saccharification of Japanese cedar. <i>Bioresource Technology</i> , 2012 , 126, 182-6	11	46
128	Effect of dimethyl sulfoxide on ionic liquid 1-ethyl-3-methylimidazolium acetate pretreatment of eucalyptus wood for enzymatic hydrolysis. <i>Bioresource Technology</i> , 2013 , 140, 90-6	11	45
127	Crystallization behavior of poly(butylene succinate)/corn starch biodegradable composite. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 1107-1114	2.9	45
126	Bamboo nanofiber preparation by HCW and grinding treatment and its application for nanocomposite. <i>Wood Science and Technology</i> , 2012 , 46, 393-403	2.5	44
125	Acid-catalyzed liquefaction of waste paper in the presence of phenol and its application to Novolak-type phenolic resin. <i>Journal of Applied Polymer Science</i> , 2002 , 83, 1473-1481	2.9	43
124	Phase Structure and Mechanical Property of Blends of Organosolv Lignin Alkyl Esters with Poly(ϵ -caprolactone). <i>Polymer Journal</i> , 2009 , 41, 219-227	2.7	42
123	Characterization of carbon nanofiber mats produced from electrospun lignin-g-polyacrylonitrile copolymer. <i>International Journal of Biological Macromolecules</i> , 2016 , 82, 497-504	7.9	41
122	Combining biomass wet disk milling and endoglucanase/ β -glucosidase hydrolysis for the production of cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2015 , 128, 75-81	10.3	39
121	Rapid wood liquefaction by supercritical phenol. <i>Wood Science and Technology</i> , 2003 , 37, 29-38	2.5	39

120	Enhanced discrimination and calibration of biomass NIR spectral data using non-linear kernel methods. <i>Bioresource Technology</i> , 2008 , 99, 8445-52	11	36
119	Enhancement of enzymatic accessibility by fibrillation of woody biomass using batch-type kneader with twin-screw elements. <i>Bioresource Technology</i> , 2010 , 101, 769-74	11	35
118	N-Doped carbon dots with pH-sensitive emission, and their application to simultaneous fluorometric determination of iron(III) and copper(II). <i>Mikrochimica Acta</i> , 2019 , 187, 30	5.8	34
117	Thin film of lignocellulosic nanofibrils with different chemical composition for QCM-D study. <i>Biomacromolecules</i> , 2013 , 14, 2420-6	6.9	32
116	Effect of pH on surface characteristics of switchgrass-derived biochars produced by fast pyrolysis. <i>Chemosphere</i> , 2013 , 90, 2623-30	8.4	31
115	Isothermal crystallization behavior of hybrid biocomposite consisting of regenerated cellulose fiber, clay, and poly(lactic acid). <i>Journal of Applied Polymer Science</i> , 2008 , 108, 870-875	2.9	30
114	Ultrafast synthesis of gold nanoparticles on cellulose nanocrystals via microwave irradiation and their dyes-degradation catalytic activity. <i>Journal of Materials Science and Technology</i> , 2020 , 41, 168-177	9.1	30
113	Characteristics of microfibrillated cellulosic fibers and paper sheets from Korean white pine. <i>Wood Science and Technology</i> , 2013 , 47, 925-937	2.5	29
112	fSpatial and temporal dynamics of cellulose degradation and biofilm formation by <i>Caldicellulosiruptor obsidiansis</i> and <i>Clostridium thermocellum</i> . <i>AMB Express</i> , 2011 , 1, 30	4.1	29
111	Cellulose nanofibrils/carbon dots composite nanopapers for the smartphone-based colorimetric detection of hydrogen peroxide and glucose. <i>Sensors and Actuators B: Chemical</i> , 2021 , 330, 129330	8.5	29
110	Simultaneous saccharification and fermentation and a consolidated bioprocessing for Hinoki cypress and Eucalyptus after fibrillation by steam and subsequent wet-disk milling. <i>Bioresource Technology</i> , 2014 , 162, 89-95	11	27
109	Characteristics of carbon nanofibers produced from lignin/polyacrylonitrile (PAN)/kraft lignin-g-PAN copolymer blends electrospun nanofibers. <i>Holzforschung</i> , 2017 , 71, 743-750	2	26
108	Preparation and properties of phenolated corn bran (CB)/phenol/formaldehyde cocondensed resin. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 2901-2907	2.9	25
107	Polymer blend of cellulose acetate butyrate and aliphatic polyestercarbonate. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 2908-2914	2.9	25
106	Tensile shear strength of wood bonded with urea-formaldehyde with different amounts of microfibrillated cellulose. <i>International Journal of Adhesion and Adhesives</i> , 2015 , 60, 88-91	3.4	23
105	Mechanical and Thermal Properties of Polypropylene Composites Reinforced with Lignocellulose Nanofibers Dried in Melted Ethylene-Butene Copolymer. <i>Materials</i> , 2014 , 7, 6919-6929	3.5	23
104	Rapid synchronous synthesis of Ag nanoparticles and Ag nanoparticles/holocellulose nanofibrils: Hg(II) detection and dye discoloration. <i>Carbohydrate Polymers</i> , 2020 , 240, 116356	10.3	22
103	Bamboo fiber (BF)-filled poly(butylenes succinate) bio-composite [Effect of BF-e-MA on the properties and crystallization kinetics. <i>Holzforschung</i> , 2004 , 58, 537-543	2	22

102	Preparation of nanoscale cellulose materials with different morphologies by mechanical treatments and their characterization. <i>Cellulose</i> , 2013 , 20, 1841-1852	5.5	21
101	Molecular composite of lignin: Miscibility and complex formation of organosolv lignin and its acetates with synthetic polymers containing vinyl pyrrolidone and/or vinyl acetate units. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 2063-2070	2.9	21
100	Mechanical properties and creep behavior of lyocell fibers by nanoindentation and nano-tensile testing. <i>Holzforschung</i> , 2007 , 61, 254-260	2	21
99	Salt-responsive monoolein cubic phase containing polyethyleneimine gel. <i>Journal of Polymer Research</i> , 2020 , 27, 1	2.7	21
98	Microfibrillated-cellulose-modified urea-formaldehyde adhesives with different F/U molar ratios for wood-based composites. <i>Journal of Adhesion Science and Technology</i> , 2016 , 30, 2032-2043	2	20
97	Preparation and Characterization of Cellulose Nanofibrils with Varying Chemical Compositions. <i>BioResources</i> , 2017 , 12,	1.3	19
96	Improvement of enzymatic saccharification of sugarcane bagasse by dilute-alkali-catalyzed hydrothermal treatment and subsequent disk milling. <i>Bioresource Technology</i> , 2012 , 105, 95-9	11	19
95	Liquefaction and product identification of corn bran (CB) in phenol. <i>Journal of Applied Polymer Science</i> , 2000 , 78, 311-318	2.9	19
94	Evaluation of the effect of hot-compressed water treatment on enzymatic hydrolysis of lignocellulosic nanofibrils with different lignin content using a quartz crystal microbalance. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 1441-7	4.9	19
93	Rapid in-situ growth of gold nanoparticles on cationic cellulose nanofibrils: Recyclable nanozyme for the colorimetric glucose detection. <i>Carbohydrate Polymers</i> , 2021 , 253, 117239	10.3	19
92	Effects of pH on Nanofibrillation of TEMPO-Oxidized Paper Mulberry Bast Fibers. <i>Polymers</i> , 2019 , 11,	4.5	18
91	Synergistic effect of delignification and treatment with the ionic liquid 1-ethyl-3-methylimidazolium acetate on enzymatic digestibility of poplar wood. <i>Bioresource Technology</i> , 2014 , 162, 207-12	11	18
90	Size engineering of metal nanoparticles to diameter-specified growth of single-walled carbon nanotubes with horizontal alignment on quartz. <i>Nanotechnology</i> , 2012 , 23, 105607	3.4	18
89	Phenolic resol resin from phenolated corn bran and its characteristics. <i>Journal of Applied Polymer Science</i> , 2003 , 87, 1365-1370	2.9	18
88	Effect of Bamboo Species and Resin Content on Properties of Oriented Strand Board Prepared from Steam-treated Bamboo Strands. <i>BioResources</i> , 2015 , 10,	1.3	18
87	Effects of Steam Treatment on Physical and Mechanical Properties of Bamboo Oriented Strand Board. <i>Journal of the Korean Wood Science and Technology</i> , 2017 , 45, 872-882	2	17
86	Physical and Chemical Properties of Kapok (<i>Ceiba pentandra</i>) and Balsa (<i>Ochroma pyramidale</i>) Fibers. <i>Journal of the Korean Wood Science and Technology</i> , 2018 , 46, 393-401	2	17
85	Use of cellobiohydrolase-free cellulase blends for the hydrolysis of microcrystalline cellulose and sugarcane bagasse pretreated by either ball milling or ionic liquid [Emim][Ac]. <i>Bioresource Technology</i> , 2013 , 149, 551-5	11	16

84	Effects of Heat Treatment on the Characteristics of Royal Paulownia (<i>Paulownia tomentosa</i> (Thunb.) Steud.) Wood Grown in Korea. <i>Journal of the Korean Wood Science and Technology</i> , 2018 , 46, 511-526	2	16
83	Changes in chemical components of steam-treated betung bamboo strands and their effects on the physical and mechanical properties of bamboo-oriented strand boards. <i>European Journal of Wood and Wood Products</i> , 2019 , 77, 731-739	2.1	14
82	Crystallization behaviour of cellulose acetate butylate/poly(butylene succinate)-co-(butylene carbonate) blends. <i>Polymer International</i> , 2006 , 55, 292-298	3.3	14
81	Quartz crystal microbalance with dissipation monitoring of the enzymatic hydrolysis of steam-treated lignocellulosic nanofibrils. <i>Cellulose</i> , 2014 , 21, 2433-2444	5.5	13
80	Polyol recovery from biomass-based polyurethane foam by glycolysis. <i>Journal of Applied Polymer Science</i> , 2005 , 95, 975-980	2.9	13
79	Effect of Lignin Plasticization on Physico-Mechanical Properties of Lignin/Poly(Lactic Acid) Composites. <i>Polymers</i> , 2019 , 11,	4.5	13
78	Dewetting behavior of electron-beam-deposited Au thin films on various substrates: graphenes, quartz, and SiO ₂ wafers. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 118, 389-396	2.6	12
77	Cellulose ester-graft-poly(epsilon-caprolactone): effects of copolymer composition and intercomponent miscibility on the enzymatic hydrolysis behavior. <i>Biomacromolecules</i> , 2009 , 10, 2830-8	6.9	11
76	Nanoindentation of biodegradable cellulose diacetate-graft-poly(L-lactide) copolymers: Effect of molecular composition and thermal aging on mechanical properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 1114-1121	2.6	11
75	Effect of lignocellulose nanofibril and polymeric methylene diphenyl diisocyanate addition on plasticized lignin/polycaprolactone composites 2018 , 13, 6802-6817		11
74	Quality Improvement of Oil Palm Trunk Properties by Close System Compression Method. <i>Journal of the Korean Wood Science and Technology</i> , 2016 , 44, 172-183	2	11
73	In Vitro Biocompatibility of Electrospun Poly(epsilon-caprolactone)/Cellulose Nanocrystals-Nanofibers for Tissue Engineering. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-11	3.2	11
72	Extrusion process to enhance the pretreatment effect of ionic liquid for improving enzymatic hydrolysis of lignocellulosic biomass. <i>Wood Science and Technology</i> , 2020 , 54, 599-613	2.5	10
71	Adsorption Characteristics of Ag Nanoparticles on Cellulose Nanofibrils with Different Chemical Compositions. <i>Polymers</i> , 2020 , 12,	4.5	10
70	Effect of catalytic metals on diameter-controlled growth of single-walled carbon nanotubes: Comparison between Fe and Au. <i>Electronic Materials Letters</i> , 2012 , 8, 5-9	2.9	10
69	Effect of water on wood liquefaction and the properties of phenolated wood. <i>Holzforschung</i> , 2005 , 59, 628-634	2	10
68	Change of Heating Value, pH and FT-IR Spectra of Charcoal at Different Carbonization Temperatures. <i>Journal of the Korean Wood Science and Technology</i> , 2013 , 41, 440-446	2	10
67	Dimension change in microfibrillated cellulose from different cellulose sources by wet disk milling and its effect on the properties of PVA nanocomposite. <i>Wood Science and Technology</i> , 2015 , 49, 495-506 ^{2.5}		9

66	Recent trends in isolation of cellulose nanocrystals and nanofibrils from various forest wood and nonwood products and their application 2020 , 41-80		9
65	Preparation and Properties of Holocellulose Nanofibrils with Different Hemicellulose Content. <i>BioResources</i> , 2017 , 12,	1.3	8
64	Influence of Lignin and Polymeric Diphenylmethane Diisocyanate Addition on the Properties of Poly(butylene succinate)/Wood Flour Composite. <i>Polymers</i> , 2019 , 11,	4.5	8
63	Application of thermophilic enzymes and water jet system to cassava pulp. <i>Bioresource Technology</i> , 2012 , 126, 87-91	11	8
62	Shape recoverable, Au nanoparticles loaded nanocellulose foams as a recyclable catalyst for the dynamic and batch discoloration of dyes. <i>Carbohydrate Polymers</i> , 2021 , 258, 117693	10.3	8
61	Improvement of enzymatic saccharification of Populus and switchgrass by combined pretreatment with steam and wet disk milling. <i>Renewable Energy</i> , 2015 , 76, 782-789	8.1	7
60	Carbonization of reaction wood from Paulownia tomentosa and Pinus densiflora branch woods. <i>Wood Science and Technology</i> , 2016 , 50, 973-987	2.5	7
59	Visualization of interfacial zones in lyocell fiber-reinforced polypropylene composite by AFM contrast imaging based on phase and thermal conductivity measurements. <i>Holzforschung</i> , 2009 , 63,	2	7
58	Ring-Opening Polymerization of Cyclic Esters onto Liquefied Biomass. <i>Journal of Polymers and the Environment</i> , 2004 , 12, 203-210	4.5	7
57	Preparation of a lignin/polyaniline composite and its application in Cr(VI) removal from aqueous solutions. <i>BioResources</i> , 2019 , 14, 9169-9182	1.3	7
56	Effect of Tree Age and Active Alkali on Kraft Pulping of White Jabon. <i>Journal of the Korean Wood Science and Technology</i> , 2015 , 43, 566-577	2	7
55	Solubility of kraft lignin-g-polyacrylonitrile copolymer in various ionic liquids and characterization of its solution. <i>Wood Science and Technology</i> , 2017 , 51, 151-163	2.5	6
54	Co-solvent system of [EMIM]Ac and DMF to improve the enzymatic saccharification of pussy willow (<i>Salix gracilistyla</i> Miq.). <i>Holzforschung</i> , 2017 , 71, 43-50	2	6
53	Carbonization Characteristics of Juvenile Woods from Some Tropical Trees Planted in Indonesia. <i>Journal of the Faculty of Agriculture, Kyushu University</i> , 2017 , 62, 145-152	1.1	6
52	Understanding the local structure of disordered carbons from cellulose and lignin. <i>Wood Science and Technology</i> , 2021 , 55, 587-606	2.5	6
51	Destructive and Non-destructive Tests of Bamboo Oriented Strand Board under Various Shelling Ratios and Resin Contents. <i>Journal of the Korean Wood Science and Technology</i> , 2019 , 47, 519-532	2	5
50	Preparation of Lignocellulose Nanofibers from Korean White Pine and Its Application to Polyurethane Nanocomposite. <i>Journal of the Korean Wood Science and Technology</i> , 2014 , 42, 700-707	2	5
49	Effect of Ammonium Persulfate Concentration on Characteristics of Cellulose Nanocrystals from Oil Palm Frond. <i>Journal of the Korean Wood Science and Technology</i> , 2019 , 47, 597-606	2	5

48	Anatomical Characteristics of Paulownia tomentosa Root Wood. <i>Journal of the Korean Wood Science and Technology</i> , 2016 , 44, 157-165	2	5
47	Polar molecule filtration using charged cellulose nanofiber membrane on the nanoporous alumina support for high rejection efficiency. <i>Cellulose</i> , 2020 , 27, 2685-2694	5.5	5
46	Preparation and Properties of Wet-Spun Microcomposite Filaments from Various CNFs and Alginate. <i>Polymers</i> , 2021 , 13,	4.5	5
45	Continuous live cell imaging of cellulose attachment by microbes under anaerobic and thermophilic conditions using confocal microscopy. <i>Journal of Environmental Sciences</i> , 2013 , 25, 849-56	6.4	4
44	Effect of enzyme and ammonia treatments in green composite systems. <i>Journal of Composite Materials</i> , 2013 , 47, 3249-3255	2.7	4
43	Scale of Homogeneous Mixing in Miscible Blends of Organosolv Lignin Esters with Poly(ϵ -caprolactone). <i>Journal of Wood Chemistry and Technology</i> , 2010 , 30, 330-347	2	4
42	Quick assessment of the thermal decomposition behavior of lignocellulosic biomass by near infrared spectroscopy and its statistical analysis. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 3229-3234 ⁹	2.9	4
41	Green synthesis of AgNPs using lignocellulose nanofibrils as a reducing and supporting agent. <i>BioResources</i> , 2020 , 15, 2119-2132	1.3	4
40	Effect of Bark Content and Densification Temperature on The Properties of Oil Palm Trunk-Based Pellets. <i>Journal of the Korean Wood Science and Technology</i> , 2017 , 45, 671-681	2	4
39	Characteristics of White Charcoal Produced from the Charcoal Kiln for Thermo-therapy. <i>Journal of the Korean Wood Science and Technology</i> , 2018 , 46, 527-540	2	4
38	Termite Resistance of The Less Known Tropical Woods Species Grown in West Java, Indonesia. <i>Journal of the Korean Wood Science and Technology</i> , 2015 , 43, 248-257	2	4
37	Effect of Oxidation Time on the Properties of Cellulose Nanocrystals Prepared from Balsa and Kapok Fibers Using Ammonium Persulfate. <i>Polymers</i> , 2021 , 13,	4.5	4
36	Preparation and Properties of Cellulose Nanofiber Films with Various Chemical Compositions Impregnated by Ultraviolet-Curable Resin. <i>BioResources</i> , 2016 , 12,	1.3	4
35	Preparation and Characterization of Cellulose Acetate Film Reinforced with Cellulose Nanofibril. <i>Polymers</i> , 2021 , 13,	4.5	4
34	Preparation and Characteristics of Wet-Spun Filament Made of Cellulose Nanofibrils with Different Chemical Compositions. <i>Polymers</i> , 2020 , 12,	4.5	3
33	Evolution of gold thin films to nanoparticles using plasma ion bombardment and their use as a catalyst for carbon nanotube growth. <i>Thin Solid Films</i> , 2013 , 547, 188-192	2.2	3
32	Effect of Hot-Compressed Water Treatment of Bamboo Fiber on the Properties of Polypropylene/Bamboo Fiber Composite. <i>BioResources</i> , 2014 , 10,	1.3	3
31	Gold nanoparticles spontaneously grown on cellulose nanofibrils as a reusable nanozyme for colorimetric detection of cholesterol in human serum.. <i>International Journal of Biological Macromolecules</i> , 2022 , 201, 686-686	7.9	3

30	Effect of Treatment Duration and Clamping on the Properties of Heat-Treated Okan Wood. <i>BioResources</i> , 2016 , 11,	1.3	3
29	Effect of pMDI as Coupling Agent on The Properties of Microfibrillated Cellulose-reinforced PBS Nanocomposite. <i>Journal of the Korean Wood Science and Technology</i> , 2014 , 42, 483-490	2	3
28	Effect of Different Delignification Degrees of Korean White Pine Wood on Fibrillation Efficiency and Tensile Properties of Nanopaper. <i>Journal of the Korean Wood Science and Technology</i> , 2015 , 43, 17-24	2	3
27	Changes in the Dimensions of Lignocellulose Nanofibrils with Different Lignin Contents by Enzymatic Hydrolysis. <i>Polymers</i> , 2020 , 12,	4.5	3
26	Characteristics of nanocellulose crystals from balsa and kapok fibers at different ammonium persulfate concentrations. <i>Wood Science and Technology</i> , 2021 , 55, 1319-1335	2.5	3
25	Effective fabrication of cellulose nanofibrils supported Pd nanoparticles as a novel nanozyme with peroxidase and oxidase-like activities for efficient dye degradation. <i>Journal of Hazardous Materials</i> , 2022 , 129165	12.8	3
24	Effect of Temperature and Clamping during Heat Treatment on Physical and Mechanical Properties of Okan (<i>Cylicodiscus gabunensis</i> [Taub.] Harms) Wood. <i>BioResources</i> , 2015 , 10,	1.3	2
23	Effect of Fibrillation on the Performance of Wood-Plastic Composites with High Filler Content. <i>Journal of Fiber Science and Technology</i> , 2010 , 67, 1-7	0	2
22	Treatment effects of choline chloride-based deep eutectic solvent on the chemical composition of red pine (<i>Pinus densiflora</i>). <i>BioResources</i> , 2020 , 15, 6457-6470	1.3	2
21	Effect of Nanocellulose and Aminated Starch on Tensile and Thermal Properties of Plasticized Starch Film. <i>Journal of the Korean Wood Science and Technology</i> , 2014 , 42, 376-384	2	2
20	Size Fractionation of Cellulose Nanofibers by Settling Method and Their Morphology. <i>Journal of the Korean Wood Science and Technology</i> , 2016 , 44, 398-405	2	2
19	Microfibril angle, crystalline characteristics, and chemical compounds of reaction wood in stem wood of <i>Pinus densiflora</i> . <i>Wood Science and Technology</i> , 2020 , 54, 123-137	2.5	2
18	Spray-dried microparticles composed of carboxylated cellulose nanofiber and cysteamine and their oxidation-responsive release property. <i>Colloid and Polymer Science</i> , 2020 , 298, 157-167	2.4	2
17	Choline chloride based deep eutectic solvents for the lignocellulose nanofibril production from Mongolian oak (<i>Quercus mongolica</i>). <i>Cellulose</i> , 2021 , 28, 9169-9185	5.5	2
16	Characterization of cellulose nanocrystal with cellulose II polymorph from primary sludge and its application to PVA nanocomposites. <i>Wood Science and Technology</i> , 2018 , 52, 555-565	2.5	2
15	Liquefaction of corn bran (CB) in the presence of alcohols and preparation of polyurethane foam from its liquefied polyol 2000 , 78, 319		2
14	Graphene-Based Smart Nanomaterials for Photothermal Therapy. <i>Nanotechnology in the Life Sciences</i> , 2021 , 125-153	1.1	1
13	Property comparison of thermoplastic starch reinforced by cellulose nanofibrils with different chemical compositions 2019 , 14, 1564-1578		1

12	Integrating the high peroxidase activity of carbon dots with easy recyclability: Immobilization on dialdehyde cellulose nanofibrils and cholesterol detection. <i>Applied Materials Today</i> , 2022 , 26, 101286	6.6	1
11	Changes of Micro- and Nanoscopic Morphology of Various Bioresources by Different Milling Systems. <i>Journal of the Korean Wood Science and Technology</i> , 2017 , 45, 737-745	2	1
10	Delignification Effect on Properties of Lignocellulose Nanofibers from Korean White Pine and Their Nanopapers. <i>Journal of the Korean Wood Science and Technology</i> , 2015 , 43, 9-16	2	1
9	Overview of the Preparation Methods of Nano-scale Cellulose. <i>Palpu Chongi Gisul/Journal of Korea Technical Association of the Pulp and Paper Industry</i> , 2017 , 49, 9	1	1
8	Esterification of Lignin Isolated by Deep Eutectic Solvent Using Fatty Acid Chloride, and Its Composite Film with Poly(lactic acid). <i>Polymers</i> , 2021 , 13,	4.5	1
7	Experimental Design and Study of Micro-nano Wood Fiber Processed by Nanosecond Pulse Laser. <i>BioResources</i> , 2016 , 11,	1.3	1
6	Highly stable and high-performance MgHPO ₄ surface-modified Ni-rich cathode materials for advanced lithium ion batteries. <i>Journal of Materials Chemistry A</i> ,	13	1
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