Seung-Hwan Lee

List of Publications by Year in Descending Order

155 papers	4,257 citations	36 h-index	60 g-index
159 ext. papers	4,785 ext. citations	4.4 avg, IF	5.86 L-index

#	Paper	IF	Citations
155	Gold nanoparticles spontaneously grown on cellulose nanofibrils as a reusable nanozyme for colorimetric detection of cholesterol in human serum.. *International Journal of Biological Macromolecules*, **2022**, 201, 686-686	7.9	3
154	Integrating the high peroxidase activity of carbon dots with easy recyclability: Immobilization on dialdehyde cellulose nanofibrils and cholesterol detection. *Applied Materials Today*, **2022**, 26, 101286	6.6	1
153	Effective fabrication of cellulose nanofibrils supported Pd nanoparticles as a novel nanozyme with peroxidase and oxidase-like activities for efficient dye degradation. *Journal of Hazardous Materials*, **2022**, 129165	12.8	3
152	Recent Trends in Preparation and Biomedical Applications of Nanocellulose-Based Hydrogels. *Nanotechnology in the Life Sciences*, **2021**, 203-221	1.1	
151	Graphene-Based Smart Nanomaterials for Photothermal Therapy. *Nanotechnology in the Life Sciences*, **2021**, 125-153	1.1	1
150	Shape recoverable, Au nanoparticles loaded nanocellulose foams as a recyclable catalyst for the dynamic and batch discoloration of dyes. *Carbohydrate Polymers*, **2021**, 258, 117693	10.3	8
149	Understanding the local structure of disordered carbons from cellulose and lignin. *Wood Science and Technology*, **2021**, 55, 587-606	2.5	6
148	Preparation and Properties of Wet-Spun Microcomposite Filaments from Various CNFs and Alginate. *Polymers*, **2021**, 13,	4.5	5
147	Effect of Oxidation Time on the Properties of Cellulose Nanocrystals Prepared from Balsa and Kapok Fibers Using Ammonium Persulfate. *Polymers*, **2021**, 13,	4.5	4
146	Esterification of Lignin Isolated by Deep Eutectic Solvent Using Fatty Acid Chloride, and Its Composite Film with Poly(lactic acid). *Polymers*, **2021**, 13,	4.5	1
145	Choline chloride based deep eutectic solvents for the lignocellulose nanofibril production from Mongolian oak (Quercus mongolica). *Cellulose*, **2021**, 28, 9169-9185	5.5	2
144	Cellulose nanofibrils/carbon dots composite nanopapers for the smartphone-based colorimetric detection of hydrogen peroxide and glucose. *Sensors and Actuators B: Chemical*, **2021**, 330, 129330	8.5	29
143	Rapid in-situ growth of gold nanoparticles on cationic cellulose nanofibrils: Recyclable nanozyme for the colorimetric glucose detection. *Carbohydrate Polymers*, **2021**, 253, 117239	10.3	19
142	Characteristics of nanocellulose crystals from balsa and kapok fibers at different ammonium persulfate concentrations. *Wood Science and Technology*, **2021**, 55, 1319-1335	2.5	3
141	Preparation and Characterization of Cellulose Acetate Film Reinforced with Cellulose Nanofibril. *Polymers*, **2021**, 13,	4.5	4
140	Extrusion process to enhance the pretreatment effect of ionic liquid for improving enzymatic hydrolysis of lignocellulosic biomass. *Wood Science and Technology*, **2020**, 54, 599-613	2.5	10
139	Adsorption Characteristics of Ag Nanoparticles on Cellulose Nanofibrils with Different Chemical Compositions. *Polymers*, **2020**, 12,	4.5	10

138	Recent trends in isolation of cellulose nanocrystals and nanofibrils from various forest wood and nonwood products and their application **2020**, 41-80		9
137	Preparation and Characteristics of Wet-Spun Filament Made of Cellulose Nanofibrils with Different Chemical Compositions. *Polymers*, **2020**, 12,	4.5	3
136	Rapid synchronous synthesis of Ag nanoparticles and Ag nanoparticles/holocellulose nanofibrils: Hg(II) detection and dye discoloration. *Carbohydrate Polymers*, **2020**, 240, 116356	10.3	22
135	Pretreatment of pussy willow and Korean pine using various ionic liquids and their mixtures with organic solvents for enzymatic saccharification. *BioResources*, **2020**, 16, 455-469	1.3	
134	Green synthesis of AgNPs using lignocellulose nanofibrils as a reducing and supporting agent. *BioResources*, **2020**, 15, 2119-2132	1.3	4
133	Treatment effects of choline chloride-based deep eutectic solvent on the chemical composition of red pine (Pinus densiflora). *BioResources*, **2020**, 15, 6457-6470	1.3	2
132	Salt-responsive monoolein cubic phase containing polyethyleneimine gel. *Journal of Polymer Research*, **2020**, 27, 1	2.7	21
131	Ultrafast synthesis of gold nanoparticles on cellulose nanocrystals via microwave irradiation and their dyes-degradation catalytic activity. *Journal of Materials Science and Technology*, **2020**, 41, 168-177	9.1	30
130	Polar molecule filtration using charged cellulose nanofiber membrane on the nanoporous alumina support for high rejection efficiency. *Cellulose*, **2020**, 27, 2685-2694	5.5	5
129	Microfibril angle, crystalline characteristics, and chemical compounds of reaction wood in stem wood of Pinus densiflora. *Wood Science and Technology*, **2020**, 54, 123-137	2.5	2
128	Spray-dried microparticles composed of carboxylated cellulose nanofiber and cysteamine and their oxidation-responsive release property. *Colloid and Polymer Science*, **2020**, 298, 157-167	2.4	2
127	Changes in the Dimensions of Lignocellulose Nanofibrils with Different Lignin Contents by Enzymatic Hydrolysis. *Polymers*, **2020**, 12,	4.5	3
126	Doxorubicin-carboxymethyl xanthan gum capped gold nanoparticles: Microwave synthesis, characterization, and anti-cancer activity. *Carbohydrate Polymers*, **2020**, 229, 115511	10.3	47
125	Changes in chemical components of steam-treated betung bamboo strands and their effects on the physical and mechanical properties of bamboo-oriented strand boards. *European Journal of Wood and Wood Products*, **2019**, 77, 731-739	2.1	14
124	Effects of pH on Nanofibrillation of TEMPO-Oxidized Paper Mulberry Bast Fibers. *Polymers*, **2019**, 11,	4.5	18
123	Influence of Lignin and Polymeric Diphenylmethane Diisocyante Addition on the Properties of Poly(butylene succinate)/Wood Flour Composite. *Polymers*, **2019**, 11,	4.5	8
122	Property comparison of thermoplastic starch reinforced by cellulose nanofibrils with different chemical compositions **2019**, 14, 1564-1578		1
121	Preparation of a lignin/polyaniline composite and its application in Cr(VI) removal from aqueous solutions. *BioResources*, **2019**, 14, 9169-9182	1.3	7

120	Destructive and Non-destructive Tests of Bamboo Oriented Strand Board under Various Shelling Ratios and Resin Contents. *Journal of the Korean Wood Science and Technology*, **2019**, 47, 519-532	2	5
119	Effect of Ammonium Persulfate Concentration on Characteristics of Cellulose Nanocrystals from Oil Palm Frond. *Journal of the Korean Wood Science and Technology*, **2019**, 47, 597-606	2	5
118	N-Doped carbon dots with pH-sensitive emission, and their application to simultaneous fluorometric determination of iron(III) and copper(II). *Mikrochimica Acta*, **2019**, 187, 30	5.8	34
117	In Vitro Biocompatibility of Electrospun Poly(Caprolactone)/Cellulose Nanocrystals-Nanofibers for Tissue Engineering. *Journal of Nanomaterials*, **2019**, 2019, 1-11	3.2	11
116	Effect of Lignin Plasticization on Physico-Mechanical Properties of Lignin/Poly(Lactic Acid) Composites. *Polymers*, **2019**, 11,	4.5	13
115	Effect of lignocellulose nanofibril and polymeric methylene diphenyl diisocyanate addition on plasticized lignin/polycaprolactone composites **2018**, 13, 6802-6817		11
114	Characteristics of White Charcoal Produced from the Charcoal Kiln for Thermotherapy. *Journal of the Korean Wood Science and Technology*, **2018**, 46, 527-540	2	4
113	Effects of Heat Treatment on the Characteristics of Royal Paulownia (Paulownia tomentosa (Thunb.) Steud.) Wood Grown in Korea. *Journal of the Korean Wood Science and Technology*, **2018**, 46, 511-526	2	16
112	Physical and Chemical Properties of Kapok (Ceiba pentandra) and Balsa (Ochroma pyramidale) Fibers. *Journal of the Korean Wood Science and Technology*, **2018**, 46, 393-401	2	17
111	Characterization of cellulose nanocrystal with cellulose II polymorph from primary sludge and its application to PVA nanocomposites. *Wood Science and Technology*, **2018**, 52, 555-565	2.5	2
110	Characteristics of carbon nanofibers produced from lignin/polyacrylonitrile (PAN)/kraft lignin-g-PAN copolymer blends electrospun nanofibers. *Holzforschung*, **2017**, 71, 743-750	2	26
109	Preparation and Characterization of Cellulose Nanofibrils with Varying Chemical Compositions. *BioResources*, **2017**, 12,	1.3	19
108	Preparation and Properties of Holocellulose Nanofibrils with Different Hemicellulose Content. *BioResources*, **2017**, 12,	1.3	8
107	Solubility of kraft lignin-g-polyacrylonitrile copolymer in various ionic liquids and characterization of its solution. *Wood Science and Technology*, **2017**, 51, 151-163	2.5	6
106	Co-solvent system of [EMIM]Ac and DMF to improve the enzymatic saccharification of pussy willow (Salix gracilistyla Miq.). *Holzforschung*, **2017**, 71, 43-50	2	6
105	Effect of Bark Content and Densification Temperature on The Properties of Oil Palm Trunk-Based Pellets. *Journal of the Korean Wood Science and Technology*, **2017**, 45, 671-681	2	4
104	Changes of Micro- and Nanoscopic Morphology of Various Bioresources by Different Milling Systems. *Journal of the Korean Wood Science and Technology*, **2017**, 45, 737-745	2	1
103	Carbonization Characteristics of Juvenile Woods from Some Tropical Trees Planted in Indonesia. *Journal of the Faculty of Agriculture, Kyushu University*, **2017**, 62, 145-152	1.1	6

102	Effects of Steam Treatment on Physical and Mechanical Properties of Bamboo Oriented Strand Board. *Journal of the Korean Wood Science and Technology*, **2017**, 45, 872-882	2	17
101	Overview of the Preparation Methods of Nano-scale Cellulose. *Palpu Chongi Gisul/Journal of Korea Technical Association of the Pulp and Paper Industry*, **2017**, 49, 9	1	1
100	Characterization of carbon nanofiber mats produced from electrospun lignin-g-polyacrylonitrile copolymer. *International Journal of Biological Macromolecules*, **2016**, 82, 497-504	7.9	41
99	Carbonization of reaction wood from Paulownia tomentosa and Pinus densiflora branch woods. *Wood Science and Technology*, **2016**, 50, 973-987	2.5	7
98	Microfibrillated-cellulose-modified urea-formaldehyde adhesives with different F/U molar ratios for wood-based composites. *Journal of Adhesion Science and Technology*, **2016**, 30, 2032-2043	2	20
97	Effect of Treatment Duration and Clamping on the Properties of Heat-Treated Okan Wood. *BioResources*, **2016**, 11,	1.3	3
96	Quality Improvement of Oil Palm Trunk Properties by Close System Compression Method. *Journal of the Korean Wood Science and Technology*, **2016**, 44, 172-183	2	11
95	Anatomical Characteristics of Paulownia tomentosa Root Wood. *Journal of the Korean Wood Science and Technology*, **2016**, 44, 157-165	2	5
94	Size Fractionation of Cellulose Nanofibers by Settling Method and Their Morphology. *Journal of the Korean Wood Science and Technology*, **2016**, 44, 398-405	2	2
93	Experimental Design and Study of Micro-nano Wood Fiber Processed by Nanosecond Pulse Laser. *BioResources*, **2016**, 11,	1.3	1
92	Preparation and Properties of Cellulose Nanofiber Films with Various Chemical Compositions Impregnated by Ultraviolet-Curable Resin. *BioResources*, **2016**, 12,	1.3	4
91	Evaluation of the effect of hot-compressed water treatment on enzymatic hydrolysis of lignocellulosic nanofibrils with different lignin content using a quartz crystal microbalance. *Biotechnology and Bioengineering*, **2016**, 113, 1441-7	4.9	19
90	Dimension change in microfibrillated cellulose from different cellulose sources by wet disk milling and its effect on the properties of PVA nanocomposite. *Wood Science and Technology*, **2015**, 49, 495-506	2.5	9
89	Combining biomass wet disk milling and endoglucanase/β-glucosidase hydrolysis for the production of cellulose nanocrystals. *Carbohydrate Polymers*, **2015**, 128, 75-81	10.3	39
88	Tensile shear strength of wood bonded with urea–formaldehyde with different amounts of microfibrillated cellulose. *International Journal of Adhesion and Adhesives*, **2015**, 60, 88-91	3.4	23
87	Improvement of enzymatic saccharification of Populus and switchgrass by combined pretreatment with steam and wet disk milling. *Renewable Energy*, **2015**, 76, 782-789	8.1	7
86	Effect of Temperature and Clamping during Heat Treatment on Physical and Mechanical Properties of Okan (Cylicodiscus gabunensis [Taub.] Harms) Wood. *BioResources*, **2015**, 10,	1.3	2
85	Dewetting behavior of electron-beam-deposited Au thin films on various substrates: graphenes, quartz, and SiO2 wafers. *Applied Physics A: Materials Science and Processing*, **2015**, 118, 389-396	2.6	12

84	Effect of Bamboo Species and Resin Content on Properties of Oriented Strand Board Prepared from Steam-treated Bamboo Strands. *BioResources*, **2015**, 10,	1.3	18
83	Termite Resistance of The Less Known Tropical Woods Species Grown in West Java, Indonesia. *Journal of the Korean Wood Science and Technology*, **2015**, 43, 248-257	2	4
82	Effect of Tree Age and Active Alkali on Kraft Pulping of White Jabon. *Journal of the Korean Wood Science and Technology*, **2015**, 43, 566-577	2	7
81	Delignification Effect on Properties of Lignocellulose Nanofibers from Korean White Pine and Their Nanopapers. *Journal of the Korean Wood Science and Technology*, **2015**, 43, 9-16	2	1
80	Effect of Different Delignification Degrees of Korean White Pine Wood on Fibrillation Efficiency and Tensile Properties of Nanopaper. *Journal of the Korean Wood Science and Technology*, **2015**, 43, 17-24	2	3
79	Effect of The Addition of Various Cellulose Nanofibers on The Properties of Sheet of Paper Mulberry Bast Fiber. *Journal of the Korean Wood Science and Technology*, **2015**, 43, 730-739	2	
78	Solid-state shear pulverization as effective treatment for dispersing lignocellulose nanofibers in polypropylene composites. *Cellulose*, **2014**, 21, 1573-1580	5.5	59
77	Synergistic effect of delignification and treatment with the ionic liquid 1-ethyl-3-methylimidazolium acetate on enzymatic digestibility of poplar wood. *Bioresource Technology*, **2014**, 162, 207-12	11	18
76	Simultaneous saccharification and fermentation and a consolidated bioprocessing for Hinoki cypress and Eucalyptus after fibrillation by steam and subsequent wet-disk milling. *Bioresource Technology*, **2014**, 162, 89-95	11	27
75	Quartz crystal microbalance with dissipation monitoring of the enzymatic hydrolysis of steam-treated lignocellulosic nanofibrils. *Cellulose*, **2014**, 21, 2433-2444	5.5	13
74	Effect of Hot-Compressed Water Treatment of Bamboo Fiber on the Properties of Polypropylene/Bamboo Fiber Composite. *BioResources*, **2014**, 10,	1.3	3
73	Mechanical and Thermal Properties of Polypropylene Composites Reinforced with Lignocellulose Nanofibers Dried in Melted Ethylene-Butene Copolymer. *Materials*, **2014**, 7, 6919-6929	3.5	23
72	Mechanical properties of polypropylene composites reinforced by surface-coated microfibrillated cellulose. *Composites Part A: Applied Science and Manufacturing*, **2014**, 59, 26-29	8.4	73
71	Relationship between aspect ratio and suspension viscosity of wood cellulose nanofibers. *Polymer Journal*, **2014**, 46, 73-76	2.7	78
70	Effect of Nanocellulose and Aminated Starch on Tensile and Thermal Properties of Plasticized Starch Film. *Journal of the Korean Wood Science and Technology*, **2014**, 42, 376-384	2	2
69	Effect of pMDI as Coupling Agent on The Properties of Microfibrillated Cellulose-reinforced PBS Nanocomposite. *Journal of the Korean Wood Science and Technology*, **2014**, 42, 483-490	2	3
68	Preparation of Lignocellulose Nanofibers from Korean White Pine and Its Application to Polyurethane Nanocomposite. *Journal of the Korean Wood Science and Technology*, **2014**, 42, 700-707	2	5
67	Continuous live cell imaging of cellulose attachment by microbes under anaerobic and thermophilic conditions using confocal microscopy. *Journal of Environmental Sciences*, **2013**, 25, 849-56	6.4	4

66	Preparation of nanoscale cellulose materials with different morphologies by mechanical treatments and their characterization. *Cellulose*, **2013**, 20, 1841-1852	5.5	21
65	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]. *Bioresource Technology*, **2013**, 149, 551-5	11	16
64	Evolution of gold thin films to nanoparticles using plasma ion bombardment and their use as a catalyst for carbon nanotube growth. *Thin Solid Films*, **2013**, 547, 188-192	2.2	3
63	Effect of dimethyl sulfoxide on ionic liquid 1-ethyl-3-methylimidazolium acetate pretreatment of eucalyptus wood for enzymatic hydrolysis. *Bioresource Technology*, **2013**, 140, 90-6	11	45
62	Effect of pH on surface characteristics of switchgrass-derived biochars produced by fast pyrolysis. *Chemosphere*, **2013**, 90, 2623-30	8.4	31
61	Association of wet disk milling and ozonolysis as pretreatment for enzymatic saccharification of sugarcane bagasse and straw. *Bioresource Technology*, **2013**, 136, 288-94	11	71
60	Characteristics of microfibrillated cellulosic fibers and paper sheets from Korean white pine. *Wood Science and Technology*, **2013**, 47, 925-937	2.5	29
59	Continuous pretreatment of sugarcane bagasse at high loading in an ionic liquid using a twin-screw extruder. *Green Chemistry*, **2013**, 15, 1991	10	62
58	Thin film of lignocellulosic nanofibrils with different chemical composition for QCM-D study. *Biomacromolecules*, **2013**, 14, 2420-6	6.9	32
57	Effect of enzyme and ammonia treatments in green composite systems. *Journal of Composite Materials*, **2013**, 47, 3249-3255	2.7	4
56	Nano-scopic Fibrillated Product from Lignocellulose and Its Enzymatic Saccharification and Nanocomposite Application. *Nippon Gomu Kyokaishi*, **2013**, 86, 46-50	0	
55	Change of Heating Value, pH and FT-IR Spectra of Charcoal at Different Carbonization Temperatures. *Journal of the Korean Wood Science and Technology*, **2013**, 41, 440-446	2	10
54	Size Control of Gold Nanoparticles by Heat Treatment and Its Use as a Catalyst for Single-Walled Carbon Nanotube Growth. *Korean Journal of Materials Research*, **2013**, 23, 737-744	0.2	
53	Improvement of enzymatic saccharification of sugarcane bagasse by dilute-alkali-catalyzed hydrothermal treatment and subsequent disk milling. *Bioresource Technology*, **2012**, 105, 95-9	11	19
52	Effect of catalytic metals on diameter-controlled growth of single-walled carbon nanotubes: Comparison between Fe and Au. *Electronic Materials Letters*, **2012**, 8, 5-9	2.9	10
51	Bamboo nanofiber preparation by HCW and grinding treatment and its application for nanocomposite. *Wood Science and Technology*, **2012**, 46, 393-403	2.5	44
50	Application of thermophilic enzymes and water jet system to cassava pulp. *Bioresource Technology*, **2012**, 126, 87-91	11	8
49	Combined pretreatment using ozonolysis and wet-disk milling to improve enzymatic saccharification of Japanese cedar. *Bioresource Technology*, **2012**, 126, 182-6	11	46

48	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. *Journal of Applied Polymer Science*, **2012**, 125, 2063-2070	2.9	21
47	Size engineering of metal nanoparticles to diameter-specified growth of single-walled carbon nanotubes with horizontal alignment on quartz. *Nanotechnology*, **2012**, 23, 105607	3.4	18
46	Cellulose nanofiber-reinforced polycaprolactone/polypropylene hybrid nanocomposite. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 151-156	8.4	47
45	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]). *Bioresource Technology*, **2011**, 102, 10505-9	11	96
44	fSpatial and temporal dynamics of cellulose degradation and biofilm formation by Caldicellulosiruptor obsidiansis and Clostridium thermocellum. *AMB Express*, **2011**, 1, 30	4.1	29
43	Effect of Fibrillation on the Performance of Wood-Plastic Composites with High Filler Content. *Journal of Fiber Science and Technology*, **2010**, 67, 1-7	0	2
42	Scale of Homogeneous Mixing in Miscible Blends of Organosolv Lignin Esters with Poly(?-caprolactone). *Journal of Wood Chemistry and Technology*, **2010**, 30, 330-347	2	4
41	Enzymatic saccharification of woody biomass micro/nanofibrillated by continuous extrusion process II: effect of hot-compressed water treatment. *Bioresource Technology*, **2010**, 101, 9645-9	11	52
40	Enhancement of enzymatic accessibility by fibrillation of woody biomass using batch-type kneader with twin-screw elements. *Bioresource Technology*, **2010**, 101, 769-74	11	35
39	Increase in enzyme accessibility by generation of nanospace in cell wall supramolecular structure. *Bioresource Technology*, **2010**, 101, 7218-23	11	70
38	Visualization of interfacial zones in lyocell fiber-reinforced polypropylene composite by AFM contrast imaging based on phase and thermal conductivity measurements. *Holzforschung*, **2009**, 63,	2	7
37	Quick assessment of the thermal decomposition behavior of lignocellulosic biomass by near infrared spectroscopy and its statistical analysis. *Journal of Applied Polymer Science*, **2009**, 114, 3229-3234	2.9	4
36	Enzymatic saccharification of woody biomass micro/nanofibrillated by continuous extrusion process I--effect of additives with cellulose affinity. *Bioresource Technology*, **2009**, 100, 275-9	11	96
35	Cost reduction and feedstock diversity for sulfuric acid-free ethanol cooking of lignocellulosic biomass as a pretreatment to enzymatic saccharification. *Bioresource Technology*, **2009**, 100, 4783-9	11	50
34	Phase Structure and Mechanical Property of Blends of Organosolv Lignin Alkyl Esters with Poly(Ecaprolactone). *Polymer Journal*, **2009**, 41, 219-227	2.7	42
33	Cellulose ester-graft-poly(epsilon-caprolactone): effects of copolymer composition and intercomponent miscibility on the enzymatic hydrolysis behavior. *Biomacromolecules*, **2009**, 10, 2830-8	6.9	11
32	Adhesive penetration of wood cell walls investigated by scanning thermal microscopy (SThM). *Holzforschung*, **2008**, 62, 91-98	2	75
31	Pretreatment of eucalyptus wood chips for enzymatic saccharification using combined sulfuric acid-free ethanol cooking and ball milling. *Biotechnology and Bioengineering*, **2008**, 99, 75-85	4.9	109

30	Isothermal crystallization behavior of hybrid biocomposite consisting of regenerated cellulose fiber, clay, and poly(lactic acid). *Journal of Applied Polymer Science*, **2008**, 108, 870-875	2.9	30
29	Pretreatment of woody and herbaceous biomass for enzymatic saccharification using sulfuric acid-free ethanol cooking. *Bioresource Technology*, **2008**, 99, 8856-63	11	93
28	Enhanced discrimination and calibration of biomass NIR spectral data using non-linear kernel methods. *Bioresource Technology*, **2008**, 99, 8445-52	11	36
27	Nanoindentation of biodegradable cellulose diacetate-graft-poly(L-lactide) copolymers: Effect of molecular composition and thermal aging on mechanical properties. *Journal of Polymer Science, Part B: Polymer Physics*, **2007**, 45, 1114-1121	2.6	11
26	Physical and mechanical properties of polyvinyl alcohol and polypropylene composite materials reinforced with fibril aggregates isolated from regenerated cellulose fibers. *Cellulose*, **2007**, 14, 593-602	5.5	165
25	Mechanical properties and creep behavior of lyocell fibers by nanoindentation and nano-tensile testing. *Holzforschung*, **2007**, 61, 254-260	2	21
24	Evaluation of interphase properties in a cellulose fiber-reinforced polypropylene composite by nanoindentation and finite element analysis. *Composites Part A: Applied Science and Manufacturing*, **2007**, 38, 1517-1524	8.4	134
23	Thermal degradation and biodegradability of poly (lactic acid)/corn starch biocomposites. *Journal of Applied Polymer Science*, **2006**, 100, 3009-3017	2.9	152
22	Biodegradable polymers/bamboo fiber biocomposite with bio-based coupling agent. *Composites Part A: Applied Science and Manufacturing*, **2006**, 37, 80-91	8.4	611
21	Crystallization behaviour of cellulose acetate butylate/poly(butylene succinate)-co-(butylene carbonate) blends. *Polymer International*, **2006**, 55, 292-298	3.3	14
20	Polyol recovery from biomass-based polyurethane foam by glycolysis. *Journal of Applied Polymer Science*, **2005**, 95, 975-980	2.9	13
19	Crystallization behavior of poly(butylene succinate)/corn starch biodegradable composite. *Journal of Applied Polymer Science*, **2005**, 97, 1107-1114	2.9	45
18	Effect of water on wood liquefaction and the properties of phenolated wood. *Holzforschung*, **2005**, 59, 628-634	2	10
17	Eco-composite from poly(lactic acid) and bamboo fiber. *Holzforschung*, **2004**, 58, 529-536	2	66
16	Ring-Opening Polymerization of Cyclic Esters onto Liquefied Biomass. *Journal of Polymers and the Environment*, **2004**, 12, 203-210	4.5	7
15	Effect of aliphatic isocyanates (HDI and LDI) as coupling agents on the properties of eco-composites from biodegradable polymers and corn starch. *Journal of Adhesion Science and Technology*, **2004**, 18, 905-924	2	49
14	Bamboo fiber (BF)-filled poly(butylenes succinate) bio-composite Effect of BF-e-MA on the properties and crystallization kinetics. *Holzforschung*, **2004**, 58, 537-543	2	22
13	Rapid wood liquefaction by supercritical phenol. *Wood Science and Technology*, **2003**, 37, 29-38	2.5	39

12	Phenolic resol resin from phenolated corn bran and its characteristics. *Journal of Applied Polymer Science*, **2003**, 87, 1365-1370	2.9	18
11	Mechanical and thermal flow properties of wood flourBiodegradable polymer composites. *Journal of Applied Polymer Science*, **2003**, 90, 1900-1905	2.9	47
10	Resol-type phenolic resin from liquefied phenolated wood and its application to phenolic foam. *Journal of Applied Polymer Science*, **2002**, 84, 468-472	2.9	58
9	Acid-catalyzed liquefaction of waste paper in the presence of phenol and its application to Novolak-type phenolic resin. *Journal of Applied Polymer Science*, **2002**, 83, 1473-1481	2.9	43
8	Biodegradable polyurethane foam from liquefied waste paper and its thermal stability, biodegradability, and genotoxicity. *Journal of Applied Polymer Science*, **2002**, 83, 1482-1489	2.9	97
7	Plasticization of cellulose diacetate by reaction with maleic anhydride, glycerol, and citrate esters during melt processing. *Journal of Applied Polymer Science*, **2001**, 81, 243-250	2.9	50
6	Preparation and properties of phenolated corn bran (CB)/phenol/formaldehyde cocondensed resin. *Journal of Applied Polymer Science*, **2000**, 77, 2901-2907	2.9	25
5	Polymer blend of cellulose acetate butyrate and aliphatic polyestercarbonate. *Journal of Applied Polymer Science*, **2000**, 77, 2908-2914	2.9	25
4	Liquefaction and product identification of corn bran (CB) in phenol. *Journal of Applied Polymer Science*, **2000**, 78, 311-318	2.9	19
3	Liquefaction of corn bran (CB) in the presence of alcohols and preparation of polyurethane foam from its liquefied polyol. *Journal of Applied Polymer Science*, **2000**, 78, 319-325	2.9	67
2	Liquefaction of corn bran (CB) in the presence of alcohols and preparation of polyurethane foam from its liquefied polyol **2000**, 78, 319		2
1	Highly stable and high-performance MgHPO4 surface-modified Ni-rich cathode materials for advanced lithium ion batteries. *Journal of Materials Chemistry A*,	13	1