Junji Sugiyama

List of Publications by Year
in descending order

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202	13,351	19608	24179
papers	citations	61 h-index	110 g-index

206	206	206	10308
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Histochemical structure and tensile properties of birch cork cell walls. Cellulose, 2022, 29, 2817-2827.	2.4	4
2	New attempts with the keratin-metal/magnesium process for the conservation of archaeological waterlogged wood. Journal of Cultural Heritage, 2022, 54, 53-58.	1.5	3
3	Academia-industry collaboration on celluloseâ€"past and future. Cellulose, 2022, 29, 2743-2744.	2.4	0
4	Flexural anisotropy of rift-sawn softwood boards induced by the end-grain orientation. Journal of Wood Science, 2021, 67, .	0.9	2
5	Evaluation of image partitioning strategies for preserving spatial information of cross-sectional micrographs in automated wood recognition of Fagaceae. Journal of Wood Science, 2021, 67, .	0.9	2
6	Computer vision-based wood identification and its expansion and contribution potentials in wood science: A review. Plant Methods, 2021, 17, 47.	1.9	37
7	Wood identification of two anatomically similar Cupressaceae species based on two-dimensional microfibril angle mapping. Holzforschung, 2021, 75, 591-602.	0.9	5
8	Dual Response of Photonic Films with Chiral Nematic Cellulose Nanocrystals: Humidity and Formaldehyde. ACS Applied Materials & Interfaces, 2020, 12, 17833-17844.	4.0	61
9	Anatomical traits of Cryptomeria japonica tree rings studied by wavelet convolutional neural network. IOP Conference Series: Earth and Environmental Science, 2020, 415, 012027.	0.2	2
10	Two-dimensional microfibril angle mapping via polarization microscopy for wood classification. IOP Conference Series: Earth and Environmental Science, 2020, 415, 012028.	0.2	3
11	Evaluation of a model using local features and a codebook for wood identification. IOP Conference Series: Earth and Environmental Science, 2020, 415, 012029.	0.2	4
12	Classification of Wood Species Frequently Used for Modern and Ancient Buildings Utilizing Near-Infrared Spectroscopy with Multivariate Analysis and Enhancement of Its Generalization Performance. Mokuzai Gakkai Shi, 2020, 66, 171-182.	0.2	0
13	Wood Identification of Historical Architecture in Korea by Synchrotron X-ray Microtomography-Based Three-Dimensional Microstructural Imaging. Journal of the Korean Wood Science and Technology, 2020, 48, 283-290.	0.8	10
14	Direct observation of cellulase penetration in oven-dried pulp by confocal laser scanning microscopy. Cellulose, 2019, 26, 7653-7662.	2.4	5
15	Pre-1930 unstable relationship between climate and tree-ring width of Pinus taiwanensis hayata in southeastern China. Dendrochronologia, 2019, 57, 125629.	1.0	1
16	Classification of Japanese Fagaceae Wood Based on Microscopic Image Analysis. , 2019, , .		2
17	Selective fluorescence labeling: time-lapse enzyme visualization during sugarcane hydrolysis. Journal of Wood Science, 2019, 65, .	0.9	0
18	Anatomical features of Fagaceae wood statistically extracted by computer vision approaches: Some relationships with evolution. PLoS ONE, 2019, 14, e0220762.	1.1	20

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19	Wood Identification of Western School â€œJanes['] Mansionâ€•in Kumamoto Prefecture Collapsed by the Kumamoto Earthquake. Mokuzai Gakkai Shi, 2019, 65, 33-38.	0.2	0
20	Non-destructive method for wood identification using conventional X-ray computed tomography data. Journal of Cultural Heritage, 2019, 38, 88-93.	1.5	27
21	Prediction of Lignin Contents from Infrared Spectroscopy: Chemical Digestion and Lignin/Biomass Ratios of Cryptomeria japonica. Applied Biochemistry and Biotechnology, 2019, 188, 1066-1076.	1.4	100
22	The occurrence and development of intraxylary phloem in young Aquilaria sinensis shoots. IAWA Journal, 2019, 40, 23-42.	2.7	2
23	Wood identification of Japanese Shinto deity statues in Matsunoo-taisha Shrine in Kyoto by synchrotron X-ray microtomography and conventional microscopy methods. Journal of Wood Science, 2019, 65, .	0.9	5
24	Natural durability of the culturally and historically important timber: Erythrophleum fordii wood against white-rot fungi. Journal of Wood Science, 2018, 64, 301-310.	0.9	8
25	Evaluation of chemical treatments on dimensional stabilization of archeological waterlogged hardwoods obtained from the Thang Long Imperial Citadel site, Vietnam. Journal of Wood Science, 2018, 64, 436-443.	0.9	8
26	Enzymatic hydrolysis of biomimetic bacterial celluloseâ€“hemicellulose composites. Carbohydrate Polymers, 2018, 190, 95-102.	5.1	25
27	Shrinkage and swelling behavior of archaeological waterlogged wood preserved with slightly crosslinked sodium polyacrylate. Journal of Wood Science, 2018, 64, 294-300.	0.9	9
28	Outstanding Toughness of Cherry Bark Achieved by Helical Spring Structure of Rigid Cellulose Fiber Combined with Flexible Layers of Lipid Polymers. Advanced Materials, 2018, 30, 1705315.	11.1	14
29	Multimethod approach to understand the assembly of cellulose fibrils in the biosynthesis of bacterial cellulose. Cellulose, 2018, 25, 2771-2783.	2.4	21
30	Influence of drying of chara cellulose on length/length distribution of microfibrils after acid hydrolysis. International Journal of Biological Macromolecules, 2018, 109, 569-575.	3.6	21
31	Diffusion of chemicals into archaeological waterlogged hardwoods obtained from the Thang Long Imperial Citadel site, Vietnam. Journal of Wood Science, 2018, 64, 836-844.	0.9	4
32	Cellulose oxygen isotopic composition of teak (Tectona grandis) collected from Java Island: a tool for dendrochronological and dendroclimatological analysis. Dendrochronologia, 2018, 52, 80-86.	1.0	5
33	Biomimetic composites of deuterated bacterial cellulose and hemicelluloses studied with small-angle neutron scattering. European Polymer Journal, 2018, 104, 177-183.	2.6	3
34	Automated identification of Lauraceae by scale-invariant feature transform. Journal of Wood Science, 2018, 64, 69-77.	0.9	25
35	Assessment of sungkai tree-ring Î´18O proxy for paleoclimate reconstruction in western Java, Indonesia. Quaternary International, 2017, 432, 33-38.	0.7	1
36	Fibrillar assembly of bacterial cellulose in the presence of wood-based hemicelluloses. International Journal of Biological Macromolecules, 2017, 102, 111-118.	3.6	14

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37	Tuning the Viscoelasticity of Peptide Vesicles by Adjusting Hydrophobic Helical Blocks Comprising Amphiphilic Polypeptides. Langmuir, 2017, 33, 5423-5429.	1.6	6
38	CesA protein is included in the terminal complex of Acetobacter. Cellulose, 2017, 24, 2017-2027.	2.4	11
39	Characterization of crystalline linear (1 â†' 3)-Î±-d-glucan synthesized in vitro. Carbohydrate Polymers, 2017, 177, 341-346.	5.1	19
40	Texture analysis of stereograms of diffuse-porous hardwood: identification of wood species used in Tripitaka Koreana. Journal of Wood Science, 2017, 63, 322-330.	0.9	17
41	Visualization of cellulase interactions with cellulose microfibril by transmission electron microscopy. Cellulose, 2017, 24, 1-9.	2.4	80
42	NEIGHBORHOOD OF VESSELS: CHEMICAL COMPOSITION. Journal of Tropical Forest Science, 2017, 29, 267-274.	0.1	4
43	Electronic properties of tetrathiafulvaleneâ€modified cyclicâ€²â€peptide nanotube. Biopolymers, 2016, 106, 275-282.	1.2	17
44	Assessment of endoglucanase activity by analyzing the degree of cellulose polymerization and high-throughput analysis by near-infrared spectroscopy. Cellulose, 2016, 23, 1565-1572.	2.4	8
45	Site-directed mutagenesis of bacterial cellulose synthase highlights sulfurâ€“arene interaction as key to catalysis. Carbohydrate Research, 2016, 434, 99-106.	1.1	6
46	Effect of thermochemical pretreatment on lignin alteration and cell wall microstructural degradation in Eucalyptus globulus: comparison of acid, alkali, and water pretreatments. Journal of Wood Science, 2016, 62, 276-284.	0.9	23
47	Identification of Pinus species related to historic architecture in Korea using NIR chemometric approaches. Journal of Wood Science, 2016, 62, 156-167.	0.9	36
48	Effects of reaction conditions on cellulose structures synthesized in vitro by bacterial cellulose synthases. Carbohydrate Polymers, 2016, 136, 656-666.	5.1	10
49	Automated recognition of wood used in traditional Japanese sculptures by texture analysis of their low-resolution computed tomography data. Journal of Wood Science, 2015, 61, 630-640.	0.9	28
50	Negative Diamagnetic Anisotropy and Birefringence of Cellulose Nanocrystals. Macromolecules, 2015, 48, 8844-8857.	2.2	89
51	Identification and conservation of a Neolithic polypore. Journal of Cultural Heritage, 2015, 16, 869-875.	1.5	4
52	DISTANCE FROM VESSELS CHANGES FIBER MORPHOLOGY IN ACACIA MANGIUM. IAWA Journal, 2015, 36, 36-43.	2.7	6
53	Line monitoring by near-infrared chemometric technique for potential ethanol production from hydrothermally treated Eucalyptus globulus. Biochemical Engineering Journal, 2015, 97, 65-72.	1.8	5
54	Quantitative evaluation of properties of residual DNA in Cryptomeria japonica wood. Journal of Wood Science, 2015, 61, 1-9.	0.9	15

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55	Unsymmetric vesicles with a different design on each side for near-infrared fluorescence imaging of tumor tissues. RSC Advances, 2015, 5, 14697-14703.	1.7	4
56	Near-infrared spectroscopy as a potential method for identification of anatomically similar Japanese diploxylons. Journal of Wood Science, 2015, 61, 251-261.	0.9	31
57	Chemometrics Approach For Species Identification of Pinus densiflora Sieb. et Zucc. and Pinus densiflora for. erecta Uyeki - Species Classification Using Near-Infrared Spectroscopy in combination with Multivariate Analysis -. Journal of the Korean Wood Science and Technology, 2015, 43, 701-713.	0.8	9
58	WOOD SELECTION OF ANCIENT TEMPLES IN THE SIKKIM HIMALAYAS. IAWA Journal, 2014, 35, 444-462.	2.7	7
59	Cell wall ultrastructure of palm leaf fibers. IAWA Journal, 2014, 35, 127-137.	2.7	9
60	Functional Reconstitution of Cellulose Synthase in Escherichia coli. Biomacromolecules, 2014, 15, 4206-4213.	2.6	28
61	Morphology Control between Twisted Ribbon, Helical Ribbon, and Nanotube Self-Assemblies with His-Containing Helical Peptides in Response to pH Change. Langmuir, 2014, 30, 1022-1028.	1.6	47
62	Cellulose Iˆ² investigated by IR-spectroscopy at low temperatures. Cellulose, 2014, 21, 3171-3179.	2.4	16
63	Facile and Precise Formation of Unsymmetric Vesicles Using the Helix Dipole, Stereocomplex, and Steric Effects of Peptides. Langmuir, 2014, 30, 4273-4279.	1.6	16
64	Alpha-cellulose extraction procedure for the tropical tree sungkai (Peronema canescens Jack) by using an improved vessel for reliable paleoclimate reconstruction. Geochemical Journal, 2014, 48, 299-307.	0.5	10
65	The structural changes in crystalline cellulose and effects on enzymatic digestibility. Polymer Degradation and Stability, 2013, 98, 2351-2356.	2.7	29
66	Cell wall characterization of windmill palm (Trachycarpus Fortunei) fibers and its functional implications. IAWA Journal, 2013, 34, 20-33.	0.5	18
67	ANATOMICAL AND MECHANICAL CHARACTERISTICS OF LEAF-SHEATH FIBROVASCULAR BUNDLES IN PALMS. IAWA Journal, 2013, 34, 285-300.	2.7	15
68	Formation of Highly Twisted Ribbons in a Carboxymethylcellulase Gene-Disrupted Strain of a Cellulose-Producing Bacterium. Journal of Bacteriology, 2013, 195, 958-964.	1.0	70
69	Evaluation of cell wall reinforcement in feather keratin-treated waterlogged wood as imaged by synchrotron X-ray microtomography (Î¼XRT) and TEM. Holzforschung, 2013, 67, 795-803.	0.9	15
70	Degradation and Synthesis of Î²-Glucans by a Magnaporthe oryzae Endotransglucosylase, a Member of the Glycoside Hydrolase 7 Family. Journal of Biological Chemistry, 2013, 288, 13821-13830.	1.6	11
71	Proton-Dependent Coniferin Transport, a Common Major Transport Event in Differentiating Xylem Tissue of Woody Plants Â. Plant Physiology, 2013, 162, 918-926.	2.3	66
72	Versatile peptide rafts for conjugate morphologies by self-assembling amphiphilic helical peptides. Polymer Journal, 2013, 45, 509-515.	1.3	29

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73	Comparison of Sungkai Tree-Ring Components and Meteorological Data from Western Java, Indonesia. Journal of Disaster Research, 2013, 8, 95-102.	0.4	1
74	Chemotaxonomical identification of Holocenic bogwood recovered after 2007 Niigataken Chuestsu-oki Earthquake. Holzforschung, 2012, 66, 951-957.	0.9	4
75	Self-Assemblies of Triskelion A₂B-Type Amphiphilic Polypeptide Showing pH-Responsive Morphology Transformation. Langmuir, 2012, 28, 6006-6012.	1.6	15
76	Chemometric Analysis with Near-Infrared Spectroscopy for Chemically Pretreated Erianthus toward Efficient Bioethanol Production. Applied Biochemistry and Biotechnology, 2012, 166, 711-721.	1.4	15
77	Tensile strength of windmill palm (Trachycarpus fortunei) fiber bundles and its structural implications. Journal of Materials Science, 2012, 47, 949-959.	1.7	37
78	Preparation of fibrous cellulose by enzymatic polymerization using cross-linked mutant endoglucanase II. Chemical Communications, 2011, 47, 10127.	2.2	7
79	Transformation of peptide nanotubes into a vesicle via fusion driven by stereo-complex formation. Chemical Communications, 2011, 47, 3204.	2.2	65
80	Temperature-Triggered Fusion of Vesicles Composed of Right-Handed and Left-Handed Amphiphilic Helical Peptides. Langmuir, 2011, 27, 4300-4304.	1.6	21
81	Enzymatic Polymerization Catalyzed by Immobilized Endoglucanase on Gold. Biomacromolecules, 2011, 12, 785-790.	2.6	11
82	Tubulation on peptide vesicles by phase-separation of a binary mixture of amphiphilic right-handed and left-handed helical peptides. Soft Matter, 2011, 7, 4143.	1.2	40
83	Wood Identification of Building Components of the Tea Room Hasso-seki of Konchi-In Temple Designated as an Important Cultural Property. Mokuzai Gakkai Shi, 2011, 57, 14-19.	0.2	0
84	Extraction of cellulose-synthesizing activity of Gluconacetobacter xylinus by alkylmaltoside. Carbohydrate Research, 2011, 346, 2760-2768.	1.1	14
85	The crystalline phase of cellulose changes under developmental control in a marine chordate. Cellular and Molecular Life Sciences, 2011, 68, 1623-1631.	2.4	19
86	Near-Infrared Chemometric Approach to Exhaustive Analysis of Rice Straw Pretreated for Bioethanol Conversion. Applied Biochemistry and Biotechnology, 2011, 164, 194-203.	1.4	21
87	Rational design of peptide nanotubes for varying diameters and lengths. Journal of Peptide Science, 2011, 17, 94-99.	0.8	46
88	Aging of wood: Analysis of color changes during natural aging and heat treatment. Holzforschung, 2011, 65, .	0.9	79
89	Effect of morphological variability of incrusted pit membranes on efficiency of transverse compression to improve liquid uptake. Holzforschung, 2011, 65, .	0.9	2
90	Fibre Length in Relation to the Distance from vessels and contact with rays in Acacia Mangium. IAWA Journal, 2011, 32, 341-350.	2.7	9

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91	Maturation Stress Generation in Poplar Tension Wood Studied by Synchrotron Radiation Microdiffraction Â Â. Plant Physiology, 2011, 155, 562-570.	2.3	72
92	Wood properties and chemical composition of the eccentric growth branch of Viburnum odoratissimum var. awabuki. Trees - Structure and Function, 2010, 24, 541-549.	0.9	10
93	Microstructure and mechanical properties of bacterial cellulose/chitosan porous scaffold. Cellulose, 2010, 17, 349-363.	2.4	104
94	Maturation Stress Generation in Poplar Tension Wood Studied by Synchrotron Radiation Microdiffraction. Plant Physiology, 2010, 152, 1650-1658.	2.3	32
95	Wood identification of a wooden mask using synchrotron X-ray microtomography. Journal of Archaeological Science, 2010, 37, 2842-2845.	1.2	42
96	Variation in xylem formation of Viburnum odoratissimum var. awabuki: growth strain and related anatomical features of branches exhibiting unusual eccentric growth. Tree Physiology, 2009, 29, 707-713.	1.4	9
97	Labeling the planar face of crystalline cellulose using quantum dots directed by type-I carbohydrate-binding modules. Cellulose, 2009, 16, 19-26.	2.4	29
98	Varietal difference in cellulose microfibril dimensions observed by infrared spectroscopy. Cellulose, 2009, 16, 1-8.	2.4	18
99	The GLABRA2 homeodomain protein directly regulates CESA5 and XTH17 gene expression in Arabidopsis roots. Plant Journal, 2009, 60, 564-574.	2.8	62
100	Mechanical characteristics of aged Hinoki wood from Japanese historical buildings. Comptes Rendus Physique, 2009, 10, 601-611.	0.3	58
101	Localization of Crystalline Allomorphs in Cellulose Microfibril. Biomacromolecules, 2009, 10, 2235-2239.	2.6	49
102	Accessibility and size of Valonia cellulose microfibril studied by combined deuteration/rehydrogenation and FTIR technique. Cellulose, 2008, 15, 419-424.	2.4	46
103	Changes in micropores in dry wood with elapsed time in the environment. Journal of Wood Science, 2008, 54, 515-519.	0.9	17
104	Nanotube and Threeâ€Way Nanotube Formation with Nonionic Amphiphilic Block Peptides. Macromolecular Bioscience, 2008, 8, 1026-1033.	2.1	69
105	A spectroscopic assessment of cellulose and the molecular mechanisms of cellulose biosynthesis in the ascidian Ciona intestinalis. Marine Genomics, 2008, 1, 9-14.	0.4	24
106	Enzymatic activities of novel mutant endoglucanases carrying sequential active sites. International Journal of Biological Macromolecules, 2008, 43, 226-231.	3.6	13
107	Exhaustive crystal structure search and crystal modeling of Î²-chitin. International Journal of Biological Macromolecules, 2007, 40, 336-344.	3.6	40
108	Double Assembly Composed of Lectin Association with Columnar Molecular Assembly of Cyclic Tri-Î²-peptide Having Sugar Units. Biomacromolecules, 2007, 8, 611-616.	2.6	23

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109	Molecular assembly formation of cyclic hexa-Î²-peptide composed of acetylated glycosamino acids. Biopolymers, 2007, 88, 150-156.	1.2	21
110	Celluloseâ€‰I Nanolayers Designed by Selfâ€Assembly of its Thiosemicarbazone on a Gold Substrate. Advanced Materials, 2007, 19, 3368-3370.	11.1	34
111	Surface functional group dependent apatite formation on bacterial cellulose microfibrils network in a simulated body fluid. Journal of Biomedical Materials Research - Part A, 2007, 81A, 124-134.	2.1	63
112	Honeycomb-like architecture produced by living bacteria, Gluconacetobacter xylinus. Carbohydrate Polymers, 2007, 69, 1-6.	5.1	64
113	The thermal expansion of mannan I obtained from ivory nuts. Carbohydrate Polymers, 2007, 70, 298-303.	5.1	19
114	Characterization of starch based nanocomposites. Journal of Materials Science, 2007, 42, 8163-8171.	1.7	119
115	Viability and cellulose synthesizing ability of Gluconacetobacter xylinus cells under high-hydrostatic pressure. Extremophiles, 2007, 11, 693-698.	0.9	27
116	Direct investigation of the structural properties of tension wood cellulose microfibrils using microbeam X-ray fibre diffraction. Holzforschung, 2006, 60, 474-479.	0.9	74
117	Parallel assembly of dipolar columns composed of a stacked cyclic tri-Î²-peptide. Organic and Biomolecular Chemistry, 2006, 4, 1896-1901.	1.5	43
118	Mechanical Behavior of Cellulose Microfibrils in Tension Wood, in Relation with Maturation Stress Generation. Biophysical Journal, 2006, 91, 1128-1135.	0.2	74
119	Fully Hydrophobic Artificial Protein but Water Dispersible due to Large Dipole. Polymer Journal, 2006, 38, 381-386.	1.3	7
120	Molecular Directionality in Cellulose Polymorphs. Biomacromolecules, 2006, 7, 274-280.	2.6	76
121	Columnar Assembly of Cyclic Î²-Amino Acid Functionalized with Pyranose Rings. Biomacromolecules, 2006, 7, 2394-2400.	2.6	34
122	Versatile derivatives of carbohydrate-binding modules for imaging of complex carbohydrates approaching the molecular level of resolution. BioTechniques, 2006, 41, 435-443.	0.8	89
123	Compression stress in opposite wood of angiosperms: observations in chestnut, mani and poplar. Annals of Forest Science, 2006, 63, 507-510.	0.8	28
124	TEMPO-mediated oxidation of native cellulose: Microscopic analysis of fibrous fractions in the oxidized products. Carbohydrate Polymers, 2006, 65, 435-440.	5.1	175
125	Preferential Uniplanar Orientation of Cellulose Microfibrils Reinvestigated by the FTIR Technique. Cellulose, 2006, 13, 309-316.	2.4	30
126	Newly developed nanocomposites from cellulose acetate/layered silicate/poly(Îµ-caprolactone): Synthesis and morphological characterization. Journal of Wood Science, 2006, 52, 121-127.	0.9	20

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127	Computer simulation studies of microcrystalline cellulose Iî². Carbohydrate Research, 2006, 341, 138-152.	1.1	357
128	Crystal Strucuture of Cellulose - Personal Overview of the Main Stream Idea. Journal of Fiber Science and Technology, 2006, 62, P.183-P.187.	0.0	3
129	Molecular directionality in crystalline î²-chitin: hydrolysis by chitinases A and B from Serratia marcescens 2170. Biochemical Journal, 2005, 388, 851-856.	1.7	80
130	Optically Transparent Composites Reinforced with Networks of Bacterial Nanofibers. Advanced Materials, 2005, 17, 153-155.	11.1	908
131	Enzymatic Polymerization Behavior Using Cellulose-Binding Domain Deficient Endoglucanase II. Macromolecular Bioscience, 2005, 5, 623-628.	2.1	23
132	On the detachment of the gelatinous layer in tension wood fiber. Journal of Wood Science, 2005, 51, 218-221.	0.9	55
133	Precautions for the Structural Analysis of the Gelatinous Layer in Tension Wood. IAWA Journal, 2005, 26, 189-195.	2.7	49
134	Studies of the structural change during deformation in Cryptomeria japonica by time-resolved synchrotron small-angle X-ray scattering. Journal of Structural Biology, 2005, 151, 1-11.	1.3	28
135	Importance of Exposed Aromatic Residues in Chitinase B from Serratia marcescens 2170 for Crystalline Chitin Hydrolysis. Journal of Biochemistry, 2004, 136, 163-168.	0.9	46
136	Formation of gold nanoparticles in microreactor composed of helical peptide assembly in water. Journal of Colloid and Interface Science, 2004, 280, 506-510.	5.0	14
137	Polymorphism of Cellulose I Family:Â Reinvestigation of Cellulose IVI. Biomacromolecules, 2004, 5, 1385-1391.	2.6	261
138	Structural Details of Crystalline Cellulose from Higher Plants. Biomacromolecules, 2004, 5, 1333-1339.	2.6	179
139	Spontaneous Assembly Formation of Cyclic Dimer of î²-Amino Acid in Water. Chemistry Letters, 2004, 33, 810-811.	0.7	3
140	Characterization of the supermolecular structure of cellulose in wood pulp fibres. Cellulose, 2003, 10, 103-110.	2.4	182
141	Variation of microfibril angles and chemical composition: Implication for functional properties. Journal of Materials Science Letters, 2003, 22, 963-966.	0.5	11
142	Crystal Structure and Hydrogen Bonding System in Cellulose Iî±from Synchrotron X-ray and Neutron Fiber Diffraction. Journal of the American Chemical Society, 2003, 125, 14300-14306.	6.6	1,274
143	Geometric phase analysis of lattice images from algal cellulose microfibrils. Polymer, 2003, 44, 1871-1879.	1.8	53
144	Enhancement of growth by expression of poplar cellulase in Arabidopsis thaliana. Plant Journal, 2003, 33, 1099-1106.	2.8	92

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145	Aggregation of ribbons in bacterial cellulose induced by high pressure incubation. Carbohydrate Polymers, 2003, 53, 9-14.	5.1	27
146	The binding specificity and affinity determinants of family 1 and family 3 cellulose binding modules. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 484-489.	3.3	323
147	A combined FT-IR microscopy and principal component analysis on softwood cell walls. Carbohydrate Polymers, 2003, 52, 449-453.	5.1	87
148	The directionality of chitin biosynthesis: a revisit. Biochemical Journal, 2003, 374, 755-760.	1.7	58
149	Aromatic residues within the substrate-binding cleft of Bacillus circulans chitinase A1 are essential for hydrolysis of crystalline chitin. Biochemical Journal, 2003, 376, 237-244.	1.7	107
150	X-ray Microbeam and Electron Diffraction Experiments on Developing Xylem Cell Walls. Biomacromolecules, 2002, 3, 182-186.	2.6	33
151	Directional degradation of Î²-chitin by chitinase A1 revealed by a novel reducing end labelling technique. FEBS Letters, 2002, 510, 201-205.	1.3	29
152	Cellulose synthesized by Acetobacter xylinum in the presence of plant cell wall polysaccharides. Cellulose, 2002, 9, 65-74.	2.4	95
153	Title is missing!. Journal of Materials Science, 2002, 37, 4279-4284.	1.7	30
154	Title is missing!. Cellulose, 2002, 9, 351-360.	2.4	66
155	Improved Structural Data of Cellulose IIIIPrepared in Supercritical Ammonia. Macromolecules, 2001, 34, 1237-1243.	2.2	80
156	Trp122 and Trp134 on the surface of the catalytic domain are essential for crystalline chitin hydrolysis byBacillus circulanschitinase A1. FEBS Letters, 2001, 494, 74-78.	1.3	46
157	Allomorphs of native crystalline cellulose I evaluated by two equatoriald-spacings. Journal of Wood Science, 2001, 47, 124-128.	0.9	151
158	Roles of the Exposed Aromatic Residues in Crystalline Chitin Hydrolysis by Chitinase A from Serratia marcescens2170. Journal of Biological Chemistry, 2001, 276, 41343-41349.	1.6	154
159	Cellulosic nanocomposites. I. Thermally deformable cellulose hexanoates from heterogeneous reaction. Journal of Applied Polymer Science, 2000, 78, 2242-2253.	1.3	94
160	Spontaneous Vesicle Formation by Helical Glycopeptides in Water. Journal of Colloid and Interface Science, 2000, 222, 265-267.	5.0	20
161	Structural modification of bacterial cellulose. Cellulose, 2000, 7, 213-225.	2.4	122
162	Artificial Chitin Spherulites Composed of Single Crystalline Ribbons of Î±-Chitin via Enzymatic Polymerization. Macromolecules, 2000, 33, 4155-4160.	2.2	68

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163	Contractive Force and Transformation of Microfibril with Aqueous Sodium Hydroxide Solution for Wood. Holzforschung, 2000, 54, 315-320.	0.9	39
164	Expression and Characterization of the Chitin-Binding Domain of Chitinase A1 from Bacillus circulans WL-12. Journal of Bacteriology, 2000, 182, 3045-3054.	1.0	157
165	New Insight into Cellulose Structure by Atomic Force Microscopy Shows the IÎ± Crystal Phase at Near-Atomic Resolution. Biophysical Journal, 2000, 79, 1139-1145.	0.2	172
166	Formation and Structure of Artificial Cellulose Spherulites via Enzymatic Polymerization. Biomacromolecules, 2000, 1, 168-173.	2.6	80
167	Aspects of Native Cellulose Microfibrils at Molecular Resolution.. Trends in Glycoscience and Glycotechnology, 1999, 11, 23-31.	0.0	7
168	Vesicular Self-Assembly of a Helical Peptide in Water. Langmuir, 1999, 15, 4461-4463.	1.6	63
169	Molecular directionality of Î²-chitin biosynthesis. Journal of Molecular Biology, 1999, 286, 247-255.	2.0	64
170	Almost Pure IÎ± Cellulose in the Cell Wall of Glaucocystis. Journal of Structural Biology, 1999, 127, 248-257.	1.3	51
171	High-resolution electron microscopy on cellulose II and Î±-chitin single crystals. , 1998, 5, 113-122.		42
172	High-resolution electron microscopy on ultrathin sections of cellulose microfibrils generated by glomerulocytes in Polyzoa vesiculiphora. Protoplasma, 1998, 203, 84-90.	1.0	19
173	Unidirectional processive action of cellobiohydrolase Cel7A on Valonia cellulose microcrystals. FEBS Letters, 1998, 432, 113-116.	1.3	98
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