Tetsuo Kondo

List of Publications by Year
in descending order

100 papers	4,278 citations	109321 35 h-index	110387 64 g-index
106 all docs	106 docs citations	106 times ranked	4469 citing authors

#	Article	IF	Citations
1	Nanocellulose as a natural source for groundbreaking applications in materials science: Todayâ€™s state. Materials Today, 2018, 21, 720-748.	14.2	625
2	A Fourier transform infra-red spectroscopic analysis of the character of hydrogen bonds in amorphous cellulose. Polymer, 1996, 37, 393-399.	3.8	269
3	The assignment of IR absorption bands due to free hydroxyl groups in cellulose. Cellulose, 1997, 4, 281-292.	4.9	239
4	FT-IR Microscopic Analysis of Changing Cellulose Crystalline Structure during Wood Cell Wall Formation. Macromolecules, 1998, 31, 760-764.	4.8	187
5	Characterization of hydrogen bonding in cellulose-synthetic polymer blend systems with regioselectively substituted methylcellulose. Macromolecules, 1994, 27, 210-215.	4.8	177
6	Aqueous counter collision using paired water jets as a novel means of preparing bio-nanofibers. Carbohydrate Polymers, 2014, 112, 284-290.	10.2	137
7	Nanocelluloseâ€“surfactant interactions. Current Opinion in Colloid and Interface Science, 2017, 29, 57-67.	7.4	134
8	â€œNematic Ordered Celluloseâ€•â€‰ A Concept of Glucan Chain Association. Biomacromolecules, 2001, 2, 1324-1330.	5.4	129
9	â€œNanocelluloseâ€•As a Single Nanofiber Prepared from Pellicle Secreted by <i>Gluconacetobacter xylinus</i> Using Aqueous Counter Collision. Biomacromolecules, 2011, 12, 716-720.	5.4	120
10	Thermally Induced Crystal Transformation from Cellulose IÎ± to IÎ². Polymer Journal, 2003, 35, 155-159.	2.7	112
11	Interchain Hydrogen Bonds in Blend Films of Poly(vinyl alcohol) and Its Derivatives with Poly(ethylene oxide). Macromolecules, 1999, 32, 1949-1955.	4.8	94
12	The relationship between intramolecular hydrogen bonds and certain physical properties of regioselectively substituted cellulose derivatives. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 717-723.	2.1	91
13	Characterization of Individual Hydrogen Bonds in Crystalline Regenerated Cellulose Using Resolved Polarized FTIR Spectra. ACS Omega, 2017, 2, 1469-1476.	3.5	91
14	The preparation of O-methyl- and O-ethyl-celluloses having controlled distribution of substituents. Carbohydrate Research, 1991, 220, 173-183.	2.3	81
15	Biodirected epitaxial nanodeposition of polymers on oriented macromolecular templates. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14008-14013.	7.1	80
16	Hydrogen bonds in regioselectively substituted cellulose derivatives. Journal of Polymer Science, Part B: Polymer Physics, 1994, 32, 1229-1236.	2.1	67
17	Rice Straw Cellulose Nanofibrils via Aqueous Counter Collision and Differential Centrifugation and Their Self-Assembled Structures. ACS Sustainable Chemistry and Engineering, 2016, 4, 1697-1706.	6.7	65
18	Intermolecular hydrogen bonding in cellulose/poly(ethylene oxide) blends: thermodynamic examination using 2,3-di-O- and 6-O-methylcelluloses as cellulose model compounds. Polymer, 1994, 35, 4423-4428.	3.8	64

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19	Quantitative analysis for the cellulose IÎ± crystalline phase in developing wood cell walls. International Journal of Biological Macromolecules, 1999, 24, 37-41.	7.5	63
20	Fabrication of Honeycomb-Patterned Cellulose Films. Macromolecular Bioscience, 2004, 4, 17-21.	4.1	61
21	Change of morphological properties in drawing water-swollen cellulose films prepared from organic solutions. a view of molecular orientation in the drawing process. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 451-459.	2.1	58
22	Preparation of 6-O-alkylcelluloses. Carbohydrate Research, 1993, 238, 231-240.	2.3	57
23	A Rapid Process for Producing Cellulose Multi-Filament Fibers from a NaOH/Thiourea Solvent System. Macromolecular Rapid Communications, 2006, 27, 1495-1500.	3.9	55
24	In Vivo Human Cartilage Formation in Three-Dimensional Bioprinted Constructs with a Novel Bacterial Nanocellulose Bioink. ACS Biomaterials Science and Engineering, 2019, 5, 2482-2490.	5.2	55
25	Changing Cellulose Crystalline Structure in Forming Wood Cell Walls. Macromolecules, 1996, 29, 6356-6358.	4.8	53
26	Difference between bamboo- and wood-derived cellulose nanofibers prepared by the aqueous counter collision method. Nordic Pulp and Paper Research Journal, 2014, 29, 69-76.	0.7	52
27	Pickering emulsion stabilization by using amphiphilic cellulose nanofibrils prepared by aqueous counter collision. Carbohydrate Polymers, 2019, 226, 115293.	10.2	51
28	Size effects of cellulose nanofibers for enhancing the crystallization of poly(lactic acid). Journal of Applied Polymer Science, 2013, 128, 1200-1205.	2.6	50
29	Physical gelation process for cellulose whose hydroxyl groups are regioselectively substituted by fluorescent groups. Polymer, 1997, 38, 4201-4205.	3.8	48
30	In Vivo Curdlan/Cellulose Bionanocomposite Synthesis by Genetically Modified <i>Gluconacetobacter xylinus</i>. Biomacromolecules, 2015, 16, 3154-3160.	5.4	45
31	Green Method for Production of Cellulose Multifilament from Cellulose Carbamate on a Pilot Scale. ACS Sustainable Chemistry and Engineering, 2014, 2, 2363-2370.	6.7	44
32	Formulation and Composition Effects in Phase Transitions of Emulsions Costabilized by Cellulose Nanofibrils and an Ionic Surfactant. Biomacromolecules, 2017, 18, 4393-4404.	5.4	44
33	Facile method for the preparation of tri-O-(alkyl)cellulose. Journal of Applied Polymer Science, 1992, 45, 417-423.	2.6	41
34	Favorable 3D-network Formation of Chitin Nanofibers Dispersed in Water Prepared Using Aqueous Counter Collision. Journal of Fiber Science and Technology, 2011, 67, 91-95.	0.0	40
35	Novel Tool for Characterization of Noncrystalline Regions in Cellulose:Â A FTIR Deuteration Monitoring and Generalized Two-Dimensional Correlation Spectroscopy. Biomacromolecules, 2005, 6, 2468-2473.	5.4	38
36	Influential factors to enhance the moving rate of Acetobacter xylinum due to its nanofiber secretion on oriented templates. Carbohydrate Polymers, 2009, 77, 754-759.	10.2	37

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37	Hydrogen bond formation in regioselectively functionalized 3-mono-O-methyl cellulose. Carbohydrate Research, 2008, 343, 2600-2604.	2.3	34
38	Effects of Coagulation Conditions on Properties of Multifilament Fibers Based on Dissolution of Cellulose in NaOH/Urea Aqueous Solution. Industrial & Engineering Chemistry Research, 2008, 47, 8676-8683.	3.7	31
39	Characterization of an Amphiphilic Janus-Type Surface in the Cellulose Nanofibril Prepared by Aqueous Counter Collision. Biomacromolecules, 2021, 22, 620-628.	5.4	29
40	Compression Behavior of Langmuirâ˘Blodgett Monolayers of Regioselectively Substituted Cellulose Ethers with Long Alkyl Side Chains. Langmuir, 2005, 21, 2323-2329.	3.5	27
41	Formation of nematic ordered cellulose and chitin. Cellulose, 2004, 11, 463-474.	4.9	26
42	Switching Surface Properties of Substrates by Coating with a Cellulose Nanofiber Having a High Adsorbability. Journal of Fiber Science and Technology, 2011, 67, 163-167.	0.0	24
43	What Factors Determine Hierarchical Structure of Microbial Cellulose â€“ Interplay among Physics, Chemistry and Biology â€". Macromolecular Symposia, 2009, 279, 110-118.	0.7	21
44	A uniaxially oriented nanofibrous cellulose scaffold from pellicles produced by Gluconacetobacter xylinus in dissolved oxygen culture. Carbohydrate Polymers, 2016, 135, 215-224.	10.2	20
45	Gelation of cellulose whose hydroxyl groups are specifically substituted by the fluorescent groups. Polymer Bulletin, 1994, 32, 77-81.	3.3	19
46	The influence of intramolecular hydrogen bonds on handedness in ethylcellulose /CH2Cl2 liquid crystalline mesophases. Polymer, 1998, 39, 1123-1127.	3.8	18
47	Localized surface acetylation of aqueous counter collision cellulose nanofibrils using a Pickering emulsion as an interfacial reaction platform. Carbohydrate Polymers, 2021, 261, 117845.	10.2	18
48	Cellulosic blends with poly(acrylonitrile): characterization of hydrogen bonds using regioselectively methylated cellulose derivatives. Polymer, 1998, 39, 6899-6904.	3.8	17
49	Molecular orientation in the Nematic Ordered Cellulose film using polarized FTIR accompanied with a vapor-phase deuteration method. Cellulose, 2010, 17, 539-545.	4.9	17
50	Bacterial NanoCellulose Characterization. , 2016, , 59-71.		17
51	Nematic ordered cellulose templates mediating order-patterned deposition accompanied with synthesis of calcium phosphates. Cellulose, 2012, 19, 81-90.	4.9	15
52	Facile surface modification of amphiphilic cellulose nanofibrils prepared by aqueous counter collision. Carbohydrate Polymers, 2021, 255, 117342.	10.2	15
53	Regulated patterns of bacterial movements based on their secreted cellulose nanofibers interacting interfacially with ordered chitin templates. Journal of Bioscience and Bioengineering, 2012, 114, 113-120.	2.2	13
54	Preparation and characterization of two types of separate collagen nanofibers with different widths using aqueous counter collision as a gentle top-down process. Materials Research Express, 2014, 1, 045016.	1.6	13

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55	Adsorption of Janus-Type Amphiphilic Cellulose Nanofibrils onto Microspheres of Semicrystalline Polymers. Macromolecules, 2021, 54, 9393-9400.	4.8	13
56	A combination of aqueous counter collision and TEMPO-mediated oxidation for doubled carboxyl contents of Î±-chitin nanofibers. Cellulose, 2021, 28, 2167-2181.	4.9	12
57	Facile size evaluation of cellulose nanofibrils adsorbed on polypropylene substrates using fluorescence microscopy. Cellulose, 2021, 28, 2917-2929.	4.9	12
58	Nematic Ordered Cellulose: Its Structure and Properties. , 2007, , 285-305.		12
59	Characterization of the Cleavage of Î²-Glucosidic Linkage byTrichoderma virideCellulase Using Regioselectively Substituted Methylcelluloses. Chemistry Letters, 1994, 23, 1003-1006.	1.3	11
60	Preparation of Aqueous Carbon Material Suspensions by Aqueous Counter Collision. Chemistry Letters, 2014, 43, 483-485.	1.3	11
61	Biofabrication of a Hyaluronan/Bacterial Cellulose Composite Nanofibril by Secretion from Engineered<i>Gluconacetobacter</i>. Biomacromolecules, 2021, 22, 4709-4719.	5.4	11
62	Unique structural characteristics of nematic ordered celluloseâ€"Stability in water and its facile transformation. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 2850-2859.	2.1	10
63	Spinning of a gigantic bundle of hollow fibrils by a spirally moving higher plant protoplast. Planta, 2008, 227, 1187-1197.	3.2	10
64	Three-dimensional culture of epidermal cells on ordered cellulose scaffolds. Biofabrication, 2013, 5, 025010.	7.1	9
65	Thermodynamic effect on interaction between crystalline phases in size-controlled ACC-bacterial nanocellulose and poly(vinyl alcohol). Cellulose, 2017, 24, 5495-5503.	4.9	9
66	Alkali-activation of cellulose nanofibrils to facilitate surface chemical modification under aqueous conditions. Journal of Wood Science, 2022, 68, .	1.9	9
67	Autonomous bottom-up fabrication of three-dimensional nano/microcellulose honeycomb structures, directed by bacterial nanobuilder. Journal of Bioscience and Bioengineering, 2014, 118, 482-487.	2.2	8
68	Interchain Hydrogen Bonds in Celluloseâ€"Poly(vinyl alcohol) Characterized by Differential Scanning Calorimetry and Solid-State NMR Analyses Using Cellulose Model Compounds. ACS Symposium Series, 1998, , 296-305.	0.5	7
69	Structure elucidation of uniformly 13C-labeled bacterial celluloses from different Gluconacetobacter xylinus strains. Cellulose, 2010, 17, 139-151.	4.9	7
70	Dynamics of structural polysaccharides deposition on the plasma-membrane surface of plant protoplasts during cell wall regeneration. Journal of Wood Science, 2019, 65, .	1.9	7
71	Cellulose Nanofibrils Pulverized from Biomass Resources: Past, Present, and Future Perspectives. KONA Powder and Particle Journal, 2023, 40, 109-123.	1.7	7
72	Orientation of the alkyl side chains and glucopyranose rings in Langmuirâ€"Blodgett films of a regioselectively substituted cellulose ether. Colloid and Polymer Science, 2008, 286, 707-712.	2.1	6

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73	Fabrication of Microbial Cellulose Nanofiber Network Sheets Hydrophobically Enhanced by Introduction of a Heat-printed Surface. Journal of Fiber Science and Technology, 2009, 65, 73-79.	0.0	6
74	Preparation of Single Cellulose Nanofibers Dispersed in Water Using Aqueous Counter Collision Method. Nippon Gomu Kyokaishi, 2012, 85, 400-405.	0.0	6
75	Characterization of dual nano-size effects of ACC-cellulose nanofibrils on crystallization behavior of hydrophilic poly(vinyl alcohol). Journal of Wood Science, 2021, 67, .	1.9	5
76	Characterization of mercerized cellulose nanofibrils prepared by aqueous counter collision process. Journal of Wood Science, 2022, 68, .	1.9	5
77	Structure and Mechanical Properties of Papers Containing Ground Wasted Tealeaves. Journal of Fiber Science and Technology, 2008, 64, 252-258.	0.0	4
78	Secretion of a callose hollow fiber from herbaceous plant protoplasts induced by inhibition of cell wall formation. Journal of Wood Science, 2018, 64, 467-476.	1.9	4
79	Surface modification of oriented polysaccharide scaffolds using biotic nanofibers for epidermal cell culture. Cellulose, 2019, 26, 7971-7981.	4.9	4
80	Emulsifying Properties of <i>Î±</i>-Chitin Nanofibrils Prepared by Aqueous Counter Collision. Journal of Fiber Science and Technology, 2021, 77, 203-212.	0.4	4
81	Cellulose nanoanemone: an asymmetric form of nanocellulose. Cellulose, 2022, 29, 2899-2916.	4.9	4
82	Preparation of carbon nanoparticles from activated carbon by aqueous counter collision. Journal of Wood Science, 2022, 68, .	1.9	4
83	Preparation of Compounded Papers Using Wasted Tea Leaves. Journal of Fiber Science and Technology, 2007, 63, 256-263.	0.0	3
84	Nano- and microstructures in stretched and non-stretched blend gels of cellulose and hemicelluloses. Holzforschung, 2012, 66, 993-1000.	1.9	3
85	Morphological responses of Betula protoplasts in fiber spinning. Holzforschung, 2012, 66, .	1.9	3
86	Secretion of a bundle of (1â†’3)-Î²-glucan hollow fibrils from protoplasts of callus suspension under a Ca2+-rich and acidic stressed condition. Holzforschung, 2014, 68, 69-73.	1.9	3
87	A Building Block of Collagen Fibrils Demonstrated by Sequential Aqueous Counter Collision Process. Journal of Fiber Science and Technology, 2019, 75, 112-118.	0.4	3
88	Antibacterial Activity of Compounded Papers using Wasted Green Tealeaves Produced by Paper-making Method. Journal of Fiber Science and Technology, 2008, 64, 358-365.	0.0	3
89	Physical characteristics and cell-adhesive properties of in vivo fabricated bacterial cellulose/hyaluronan nanocomposites. Cellulose, 2022, 29, 3239-3251.	4.9	3
90	Preparation of Functional Nonwoven Fabric "KAMIKO" Utilizing Wasted Tea Leaves. Journal of Fiber Science and Technology, 2009, 65, 197-204.	0.0	2

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91	Preparation of Repeated Washable Compounded Papers Using Wasted Tea Leaves by Addition of Binder. Journal of Fiber Science and Technology, 2009, 65, 205-211.	0.0	2
92	Dye Degradation Effect of Rayon Fibers Containing Titanium Oxide Photocatalyst. Journal of Fiber Science and Technology, 2009, 65, 167-175.	0.0	2
93	Protection Effect for Collagen Artificial Skin of UV-cut Materials in Antarctica. Journal of Fiber Science and Technology, 2009, 65, 351-358.	0.0	2
94	Synthesis and properties of regioselectively substituted cellulose cinnamates. ACS Symposium Series, 2010, , 231-241.	0.5	1
95	Fabrication of highly isotactic polypropylene fibers to substitute asbestos in reinforced cement composites and analysis of the fiber formation mechanism. Journal of Applied Polymer Science, 2013, 130, 981-988.	2.6	1
96	Callose-synthesizing enzymes as membrane proteins of <i>Betula</i> protoplasts secrete bundles of Î²-1,3-glucan hollow fibrils under Ca²⁺-rich and acidic culture conditions. Holzforschung, 2020, 74, 725-732.	1.9	1
97	Dye Degradation Effect of Rayon Fibers Containing Titanium Oxide Photocatalyst. Journal of Fiber Science and Technology, 2009, 65, 176-183.	0.0	1
98	Effects of Ultraviolet Radiation on the Color of Compounded Papers Containing Wasted Tea Leaves. Journal of Fiber Science and Technology, 2010, 66, 261-266.	0.0	0
99	The Use of Weakly Acidic Spent Bathwater Mixed with Electrolyzed Water for Laundry. Journal of Fiber Science and Technology, 2012, 68, 156-163.	0.0	0
100	Sterilization of Spent Bathwater and Washed Fabrics by the Addition of Weakly Acidic Electrolyzed Water. Journal of Fiber Science and Technology, 2012, 68, 149-155.	0.0	0