

Tsuguyuki Saito

List of Publications by Year in descending order

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196
papers

22,835
citations

13068

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8138

148
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all docs

204
docs citations

204
times ranked

11515
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative characterization of phosphorylated wood holocelluloses and celluloses for nanocellulose production. <i>Cellulose</i> , 2022, 29, 2805-2816.	2.4	13
2	Uniaxial orientation of β -chitin nanofibres used as an organic framework in the scales of a hot vent snail. <i>Journal of the Royal Society Interface</i> , 2022, 19, .	1.5	3
3	Rate-limited Reaction in TEMPO/Laccase/O ₂ Oxidation of Cellulose. <i>Macromolecular Rapid Communications</i> , 2021, 42, 2000501.	2.0	6
4	Mechanically Strong, Scalable, Mesoporous Xerogels of Nanocellulose Featuring Light Permeability, Thermal Insulation, and Flame Self-Extinction. <i>ACS Nano</i> , 2021, 15, 1436-1444.	7.3	59
5	Local Crystallinity in Twisted Cellulose Nanofibers. <i>ACS Nano</i> , 2021, 15, 2730-2737.	7.3	53
6	Particle size distributions for cellulose nanocrystals measured by atomic force microscopy: an interlaboratory comparison. <i>Cellulose</i> , 2021, 28, 1387-1403.	2.4	27
7	Thermal conduction through individual cellulose nanofibers. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	14
8	Anisotropic thermal conductivity measurement of organic thin film with bidirectional 3D method. <i>Review of Scientific Instruments</i> , 2021, 92, 034902.	0.6	6
9	Nanocellulose-containing cellulose ether composite films prepared from aqueous mixtures by casting and drying method. <i>Cellulose</i> , 2021, 28, 6373.	2.4	15
10	Recovery of the Irreversible Crystallinity of Nanocellulose by Crystallite Fusion: A Strategy for Achieving Efficient Energy Transfers in Sustainable Biopolymer Skeletons. <i>Angewandte Chemie</i> , 2021, 133, 24835.	1.6	1
11	Recovery of the Irreversible Crystallinity of Nanocellulose by Crystallite Fusion: A Strategy for Achieving Efficient Energy Transfers in Sustainable Biopolymer Skeletons*. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24630-24636.	7.2	22
12	Nanocellulose Xerogel as Template for Transparent, Thick, Flame-Retardant Polymer Nanocomposites. <i>Nanomaterials</i> , 2021, 11, 3032.	1.9	8
13	Distribution and Quantification of Diverse Functional Groups on Phosphorylated Nanocellulose Surfaces. <i>Biomacromolecules</i> , 2021, 22, 5214-5222.	2.6	11
14	Colorless Transparent Melamine-Formaldehyde Aerogels for Thermal Insulation. <i>ACS Applied Nano Materials</i> , 2020, 3, 49-54.	2.4	26
15	Crystallinity-Independent yet Modification-Dependent True Density of Nanocellulose. <i>Biomacromolecules</i> , 2020, 21, 939-945.	2.6	43
16	Controlling Miscibility of the Interphase in Polymer-Grafted Nanocellulose/Cellulose Triacetate Nanocomposites. <i>ACS Omega</i> , 2020, 5, 23755-23761.	1.6	10
17	Magnetically Collectable Nanocellulose-Coated Polymer Microparticles by Emulsion Templating. <i>Langmuir</i> , 2020, 36, 9235-9240.	1.6	8
18	Nanocellulose Production via One-Pot Formation of C2 and C3 Carboxylate Groups Using Highly Concentrated NaClO Aqueous Solution. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17800-17806.	3.2	23

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19	Influence of Chemical and Enzymatic TEMPO-Mediated Oxidation on Chemical Structure and Nanofibrillation of Lignocellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14198-14206.	3.2	25
20	Best Practice for Reporting Wet Mechanical Properties of Nanocellulose-Based Materials. <i>Biomacromolecules</i> , 2020, 21, 2536-2540.	2.6	30
21	Nanocellulose Film Properties Tunable by Controlling Degree of Fibrillation of TEMPO-Oxidized Cellulose. <i>Frontiers in Chemistry</i> , 2020, 8, 37.	1.8	49
22	Anisotropic Thermal Expansion of Transparent Cellulose Nanopapers. <i>Frontiers in Chemistry</i> , 2020, 8, 68.	1.8	9
23	Synthesis of Chitin Nanofiber-Coated Polymer Microparticles via Pickering Emulsion. <i>Biomacromolecules</i> , 2020, 21, 1886-1891.	2.6	23
24	Cross-polarization dynamics and conformational study of variously sized cellulose crystallites using solid-state ¹³ C NMR. <i>Journal of Wood Science</i> , 2020, 66, .	0.9	15
25	Carboxylated nanocellulose/poly(ethylene oxide) composite films as solid-phase-change materials for thermal energy storage. <i>Carbohydrate Polymers</i> , 2019, 225, 115215.	5.1	32
26	Fabrication of ultrathin nanocellulose shells on tough microparticles via an emulsion-templated colloidal assembly: towards versatile carrier materials. <i>Nanoscale</i> , 2019, 11, 15004-15009.	2.8	25
27	Dual Functions of TEMPO-Oxidized Cellulose Nanofibers in Oil-in-Water Emulsions: A Pickering Emulsifier and a Unique Dispersion Stabilizer. <i>Langmuir</i> , 2019, 35, 10920-10926.	1.6	78
28	Thermal and electrical properties of nanocellulose films with different interfibrillar structures of alkyl ammonium carboxylates. <i>Cellulose</i> , 2019, 26, 1657-1665.	2.4	6
29	Nanocellulose Xerogels With High Porosities and Large Specific Surface Areas. <i>Frontiers in Chemistry</i> , 2019, 7, 316.	1.8	45
30	Characterization of cellulose microfibrils, cellulose molecules, and hemicelluloses in buckwheat and rice husks. <i>Cellulose</i> , 2019, 26, 6529-6541.	2.4	43
31	Preparation and characterization of carboxylated cellulose nanofibrils with dual metal counterions. <i>Cellulose</i> , 2019, 26, 4313-4323.	2.4	9
32	Nanostructure and Properties of Nacre-Inspired Clay/Cellulose Nanocomposites—Synchrotron X-ray Scattering Analysis. <i>Macromolecules</i> , 2019, 52, 3131-3140.	2.2	38
33	Parametric Model to Analyze the Components of the Thermal Conductivity of a Cellulose-Nanofibril Aerogel. <i>Physical Review Applied</i> , 2019, 11, .	1.5	29
34	Preparation of oxidized celluloses in a TEMPO/NaBr system using different chlorine reagents in water. <i>Cellulose</i> , 2019, 26, 3021-3030.	2.4	16
35	Dual Counterion Systems of Carboxylated Nanocellulose Films with Tunable Mechanical, Hydrophilic, and Gas-Barrier Properties. <i>Biomacromolecules</i> , 2019, 20, 1691-1698.	2.6	18
36	Characterization of TEMPO-Oxidized and Refined Pulps Part 2. <i>Kami Pa Gikyoshi/Japan Tappi Journal</i> , 2019, 73, 1234-1239.	0.1	0

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37	Characterization of Concentration-Dependent Gelation Behavior of Aqueous 2,2,6,6-Tetramethylpiperidine-1-oxyl [•] Cellulose Nanocrystal Dispersions Using Dynamic Light Scattering. <i>Biomacromolecules</i> , 2019, 20, 750-757.	2.6	25
38	Surface-hydrophobized TEMPO-nanocellulose/rubber composite films prepared in heterogeneous and homogeneous systems. <i>Cellulose</i> , 2019, 26, 463-473.	2.4	29
39	Preparation of oxidized celluloses in a NaBr/NaClO system using 2-azaadamantane N-oxyl (AZADO) derivatives in water at pH 10. <i>Cellulose</i> , 2019, 26, 1479-1487.	2.4	6
40	Investigation of stability of branched structures in softwood cellulose using SEC/MALLS/RI/UV and sugar composition analyses. <i>Cellulose</i> , 2018, 25, 2667-2679.	2.4	17
41	Chitin nanocrystals prepared by oxidation of β -chitin using the O ₂ /laccase/TEMPO system. <i>Carbohydrate Polymers</i> , 2018, 189, 178-183.	5.1	57
42	Determination of length distribution of TEMPO-oxidized cellulose nanofibrils by field-flow fractionation/multi-angle laser-light scattering analysis. <i>Cellulose</i> , 2018, 25, 1599-1606.	2.4	8
43	Acid-Free Preparation of Cellulose Nanocrystals by TEMPO Oxidation and Subsequent Cavitation. <i>Biomacromolecules</i> , 2018, 19, 633-639.	2.6	165
44	Nematic structuring of transparent and multifunctional nanocellulose papers. <i>Nanoscale Horizons</i> , 2018, 3, 28-34.	4.1	89
45	Influence of drying of chara cellulose on length/length distribution of microfibrils after acid hydrolysis. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 569-575.	3.6	21
46	Solution-state structures of the cellulose model pullulan in lithium chloride/N,N-dimethylacetamide. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 2598-2603.	3.6	17
47	Changes in the degree of polymerization of wood celluloses during dilute acid hydrolysis and TEMPO-mediated oxidation: Formation mechanism of disordered regions along each cellulose microfibril. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 914-920.	3.6	21
48	All-cellulose Materials Adhered with Cellulose Nanofibrils. <i>Kami Pa Gikyoshi/Japan Tappi Journal</i> , 2018, 72, 1050-1058.	0.1	3
49	The Crystallinity of Nanocellulose: Dispersion-Induced Disorder of the Grain Boundary in Biologically Structured Cellulose. <i>ACS Applied Nano Materials</i> , 2018, 1, 5774-5785.	2.4	127
50	Tailoring Nanocellulose [•] Cellulose Triacetate Interfaces by Varying the Surface Grafting Density of Poly(ethylene glycol). <i>ACS Omega</i> , 2018, 3, 11883-11889.	1.6	12
51	Preparation and Hydrogel Properties of pH-Sensitive Amphoteric Chitin Nanocrystals. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 11372-11379.	2.4	31
52	Luminescent and Transparent Nanocellulose Films Containing Europium Carboxylate Groups as Flexible Dielectric Materials. <i>ACS Applied Nano Materials</i> , 2018, 1, 4972-4979.	2.4	33
53	Review: Catalytic oxidation of cellulose with nitroxyl radicals under aqueous conditions. <i>Progress in Polymer Science</i> , 2018, 86, 122-148.	11.8	221
54	Counterion design of TEMPO-nanocellulose used as filler to improve properties of hydrogenated acrylonitrile-butadiene matrix. <i>Composites Science and Technology</i> , 2018, 167, 339-345.	3.8	27

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55	Influence of the morphology of zinc oxide nanoparticles on the properties of zinc oxide/nanocellulose composite films. <i>Reactive and Functional Polymers</i> , 2018, 131, 293-298.	2.0	16
56	Mechanical Properties and Preparing Processes of the TEMPO-Oxidized Cellulose Nanofibers Hydrogels. <i>Journal of Fiber Science and Technology</i> , 2018, 74, 24-29.	0.2	3
57	Characterization of TEMPO-Oxidized and Refined Pulps. <i>Kami Pa Gikyoshi/Japan Tappi Journal</i> , 2018, 72, 545-552.	0.1	0
58	Optimization of preparation of thermally stable cellulose nanofibrils via heat-induced conversion of ionic bonds to amide bonds. <i>Journal of Polymer Science Part A</i> , 2017, 55, 1750-1756.	2.5	13
59	Interfacial layer thickness design for exploiting the reinforcement potential of nanocellulose in cellulose triacetate matrix. <i>Composites Science and Technology</i> , 2017, 147, 100-106.	3.8	19
60	Ensemble evaluation of polydisperse nanocellulose dimensions: rheology, electron microscopy, X-ray scattering and turbidimetry. <i>Cellulose</i> , 2017, 24, 3231-3242.	2.4	24
61	Dynamic Viscoelastic Functions of Liquid-Crystalline Chitin Nanofibril Dispersions. <i>Biomacromolecules</i> , 2017, 18, 2564-2570.	2.6	17
62	Cellulose Nanofibers Prepared Using the TEMPO/Laccase/O ₂ System. <i>Biomacromolecules</i> , 2017, 18, 288-294.	2.6	71
63	Branched Structures of Softwood Celluloses: Proof Based on Size-Exclusion Chromatography and Multi-Angle Laser-Light Scattering. <i>ACS Symposium Series</i> , 2017, , 151-169.	0.5	10
64	Different Conformations of Surface Cellulose Molecules in Native Cellulose Microfibrils Revealed by Layer-by-Layer Peeling. <i>Biomacromolecules</i> , 2017, 18, 3687-3694.	2.6	38
65	Preparation and characterization of zinc oxide/TEMPO-oxidized cellulose nanofibril composite films. <i>Cellulose</i> , 2017, 24, 4861-4870.	2.4	22
66	Effect of coexisting salt on TEMPO-mediated oxidation of wood cellulose for preparation of nanocellulose. <i>Cellulose</i> , 2017, 24, 4097-4101.	2.4	29
67	Molar Masses and Molar Mass Distributions of Chitin and Acid-Hydrolyzed Chitin. <i>Biomacromolecules</i> , 2017, 18, 4357-4363.	2.6	13
68	Estimating the Strength of Single Chitin Nanofibrils via Sonication-Induced Fragmentation. <i>Biomacromolecules</i> , 2017, 18, 4405-4410.	2.6	56
69	Characterization of cellulose nanofibrils prepared by direct TEMPO-mediated oxidation of hemp bast. <i>Cellulose</i> , 2017, 24, 3767-3775.	2.4	34
70	Fundamental properties of handsheets containing TEMPO-oxidized pulp in various weight ratios. <i>Nordic Pulp and Paper Research Journal</i> , 2016, 31, 248-254.	0.3	7
71	Improvement of Air Filters by Nanocelluloses. <i>Kami Pa Gikyoshi/Japan Tappi Journal</i> , 2016, 70, 1072-1078.	0.1	5
72	Improvement of the Thermal Stability of TEMPO-Oxidized Cellulose Nanofibrils by Heat-Induced Conversion of Ionic Bonds to Amide Bonds. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1033-1039.	2.0	48

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73	Preparation of Aqueous Dispersions of TEMPO-Oxidized Cellulose Nanofibrils with Various Metal Counterions and Their Super Deodorant Performances. <i>ACS Macro Letters</i> , 2016, 5, 1402-1405.	2.3	36
74	Viscoelastic Properties of Core-Shell-Structured, Hemicellulose-Rich Nanofibrillated Cellulose in Dispersion and Wet-Film States. <i>Biomacromolecules</i> , 2016, 17, 2104-2111.	2.6	43
75	SEC-MALLS analysis of ethylenediamine-pretreated native celluloses in LiCl/N,N-dimethylacetamide: softwood kraft pulp and highly crystalline bacterial, tunicate, and algal celluloses. <i>Cellulose</i> , 2016, 23, 1639-1647.	2.4	33
76	Fast and Robust Nanocellulose Width Estimation Using Turbidimetry. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1581-1586.	2.0	40
77	Partitioned pores at microscale and nanoscale: thermal diffusivity in ultrahigh porosity solids of nanocellulose. <i>Scientific Reports</i> , 2016, 6, 20434.	1.6	94
78	Water-resistant and high oxygen-barrier nanocellulose films with interfibrillar cross-linkages formed through multivalent metal ions. <i>Journal of Membrane Science</i> , 2016, 500, 1-7.	4.1	173
79	Reliable d_n/dc Values of Cellulose, Chitin, and Cellulose Triacetate Dissolved in LiCl/N,N-Dimethylacetamide for Molecular Mass Analysis. <i>Biomacromolecules</i> , 2016, 17, 192-199.	2.6	43
80	Pathologic Features of Colorectal Inflammatory Polyps in Miniature Dachshunds. <i>Veterinary Pathology</i> , 2016, 53, 833-839.	0.8	22
81	Influence of Flexibility and Dimensions of Nanocelluloses on the Flow Properties of Their Aqueous Dispersions. <i>Biomacromolecules</i> , 2015, 16, 2127-2131.	2.6	83
82	Molecular Mass and Molecular-Mass Distribution of TEMPO-Oxidized Celluloses and TEMPO-Oxidized Cellulose Nanofibrils. <i>Biomacromolecules</i> , 2015, 16, 675-681.	2.6	72
83	SEC-MALLS analysis of wood holocelluloses dissolved in 8% LiCl/1,3-dimethyl-2-imidazolidinone: challenges and suitable analytical conditions. <i>Cellulose</i> , 2015, 22, 3347-3357.	2.4	8
84	Phenotypic screening of a library of compounds against metastatic and non-metastatic clones of a canine mammary gland tumour cell line. <i>Veterinary Journal</i> , 2015, 205, 288-296.	0.6	6
85	Anti-tumour effect of metformin in canine mammary gland tumour cells. <i>Veterinary Journal</i> , 2015, 205, 297-304.	0.6	12
86	Low-Birefringent and Highly Tough Nanocellulose-Reinforced Cellulose Triacetate. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11041-11046.	4.0	44
87	Creation of a new material stream from Japanese cedar resources to cellulose nanofibrils. <i>Reactive and Functional Polymers</i> , 2015, 95, 19-24.	2.0	17
88	Chemical Modification of Cellulose Nanofibers for the Production of Highly Thermal Resistant and Optically Transparent Nanopaper for Paper Devices. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22012-22017.	4.0	81
89	Cellulose nanofibrils improve the properties of all-cellulose composites by the nano-reinforcement mechanism and nanofibril-induced crystallization. <i>Nanoscale</i> , 2015, 7, 17957-17963.	2.8	76
90	Simple Freeze-Drying Procedure for Producing Nanocellulose Aerogel-Containing, High-Performance Air Filters. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19809-19815.	4.0	231

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91	Improvement of nanodispersibility of oven-dried TEMPO-oxidized celluloses in water. <i>Cellulose</i> , 2014, 21, 4093-4103.	2.4	77
92	Comparison of mechanical reinforcement effects of surface-modified cellulose nanofibrils and carbon nanotubes in PLLA composites. <i>Composites Science and Technology</i> , 2014, 90, 96-101.	3.8	60
93	SEC-MALLS analysis of TEMPO-oxidized celluloses using methylation of carboxyl groups. <i>Cellulose</i> , 2014, 21, 167-176.	2.4	18
94	Determination of nanocellulose fibril length by shear viscosity measurement. <i>Cellulose</i> , 2014, 21, 1581-1589.	2.4	107
95	Dispersion stability and aggregation behavior of TEMPO-oxidized cellulose nanofibrils in water as a function of salt addition. <i>Cellulose</i> , 2014, 21, 1553-1559.	2.4	119
96	Bulky Quaternary Alkylammonium Counterions Enhance the Nanodispersibility of 2,2,6,6-Tetramethylpiperidine-1-oxyl-Oxidized Cellulose in Diverse Solvents. <i>Biomacromolecules</i> , 2014, 15, 1904-1909.	2.6	61
97	Highly tough and transparent layered composites of nanocellulose and synthetic silicate. <i>Nanoscale</i> , 2014, 6, 392-399.	2.8	72
98	Hydrophobic, Ductile, and Transparent Nanocellulose Films with Quaternary Alkylammonium Carboxylates on Nanofibril Surfaces. <i>Biomacromolecules</i> , 2014, 15, 4320-4325.	2.6	114
99	Nanofibrillar Chitin Aerogels as Renewable Base Catalysts. <i>Biomacromolecules</i> , 2014, 15, 4314-4319.	2.6	83
100	TEMPO-oxidized cellulose nanofibrils prepared from various plant holocelluloses. <i>Reactive and Functional Polymers</i> , 2014, 85, 126-133.	2.0	95
101	Increase in the Water Contact Angle of Composite Film Surfaces Caused by the Assembly of Hydrophilic Nanocellulose Fibrils and Nanoclay Platelets. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12707-12712.	4.0	44
102	Aerogels with 3D Ordered Nanofiber Skeletons of Liquidâ€Crystalline Nanocellulose Derivatives as Tough and Transparent Insulators. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10394-10397.	7.2	426
103	Bioinspired stiff and flexible composites of nanocellulose-reinforced amorphous CaCO ₃ . <i>Materials Horizons</i> , 2014, 1, 321.	6.4	70
104	Formation of Nanosized Islands of Dialkyl Î ² -Ketoester Bonds for Efficient Hydrophobization of a Cellulose Film Surface. <i>Langmuir</i> , 2014, 30, 8109-8118.	1.6	21
105	Preparation of completely C6-carboxylated curdlan by catalytic oxidation with 4-acetamido-TEMPO. <i>Carbohydrate Polymers</i> , 2014, 100, 74-79.	5.1	22
106	Cellulose nanofibrils as templates for the design of poly(l-lactide)-nucleating surfaces. <i>Polymer</i> , 2014, 55, 2937-2942.	1.8	30
107	Celluloseâ€clay layered nanocomposite films fabricated from aqueous cellulose/LiOH/urea solution. <i>Carbohydrate Polymers</i> , 2014, 100, 179-184.	5.1	45
108	Fundamental Properties of Nanocellulose. <i>Kami Pa Gikyoshi/Japan Tappi Journal</i> , 2014, 68, 837-840.	0.1	2

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109	<i>Cellulose Nanofibers : Fundamental Properties and Structures Formation</i>. Journal of Fiber Science and Technology, 2014, 70, P-216-P-218.	0.0	0
110	TEMPO-Mediated Oxidation of Hemp Bast Holocellulose to Prepare Cellulose Nanofibrils Dispersed in Water. Journal of Polymers and the Environment, 2013, 21, 555-563.	2.4	32
111	TEMPO-Mediated Oxidation of Norway Spruce and Eucalyptus Pulps: Preparation and Characterization of Nanofibers and Nanofiber Dispersions. Journal of Polymers and the Environment, 2013, 21, 207-214.	2.4	49
112	TEMPO-oxidized cellulose hydrogel as a high-capacity and reusable heavy metal ion adsorbent. Journal of Hazardous Materials, 2013, 260, 195-201.	6.5	132
113	Î±-helix transition of cellulose under ultrasonic radiation. Cellulose, 2013, 20, 597-603.	2.4	30
114	An Ultrastrong Nanofibrillar Biomaterial: The Strength of Single Cellulose Nanofibrils Revealed via Sonication-Induced Fragmentation. Biomacromolecules, 2013, 14, 248-253.	2.6	507
115	Effects of carboxyl-group counter-ions on biodegradation behaviors of TEMPO-oxidized cellulose fibers and nanofibril films. Cellulose, 2013, 20, 2505-2515.	2.4	35
116	Stability of (1â†’3)-Î²-polyglucuronic acid under various pH and temperature conditions. Carbohydrate Polymers, 2013, 97, 413-420.	5.1	4
117	Influence of TEMPO-oxidized cellulose nanofibril length on film properties. Carbohydrate Polymers, 2013, 93, 172-177.	5.1	187
118	Preparation and characterization of TEMPO-oxidized cellulose nanofibrils with ammonium carboxylate groups. International Journal of Biological Macromolecules, 2013, 59, 99-104.	3.6	46
119	Surface Engineering of Ultrafine Cellulose Nanofibrils toward Polymer Nanocomposite Materials. Biomacromolecules, 2013, 14, 1541-1546.	2.6	173
120	Selective Permeation of Hydrogen Gas Using Cellulose Nanofibril Film. Biomacromolecules, 2013, 14, 1705-1709.	2.6	64
121	Transparent, flexible, and high-strength regenerated cellulose/saponite nanocomposite films with high gas barrier properties. Journal of Applied Polymer Science, 2013, 130, 3168-3174.	1.3	13
122	Transparent, Conductive, and Printable Composites Consisting of TEMPO-Oxidized Nanocellulose and Carbon Nanotube. Biomacromolecules, 2013, 14, 1160-1165.	2.6	257
123	TEMPO-oxidized cellulose nanofibril/poly(vinyl alcohol) composite drawn fibers. Polymer, 2013, 54, 935-941.	1.8	71
124	Improvement of nanofibrillation efficiency of Î±-chitin in water by selecting acid used for surface cationisation. RSC Advances, 2013, 3, 2613.	1.7	19
125	Degradation of TEMPO-oxidized cellulose fibers and nanofibrils by crude cellulase. Cellulose, 2013, 20, 795-805.	2.4	23
126	Comparative characterization of TEMPO-oxidized cellulose nanofibril films prepared from non-wood resources. International Journal of Biological Macromolecules, 2013, 59, 208-213.	3.6	66

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127	Facile fabrication of transparent cellulose films with high water repellency and gas barrier properties. <i>Cellulose</i> , 2012, 19, 1913-1921.	2.4	46
128	Comparative characterization of aqueous dispersions and cast films of different chitin nanowhiskers/nanofibers. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 69-76.	3.6	165
129	Cellulose nanofibrils prepared from softwood cellulose by TEMPO/NaClO/NaClO ₂ systems in water at pH 4.8 or 6.8. <i>International Journal of Biological Macromolecules</i> , 2012, 51, 228-234.	3.6	110
130	Superior Reinforcement Effect of TEMPO-Oxidized Cellulose Nanofibrils in Polystyrene Matrix: Optical, Thermal, and Mechanical Studies. <i>Biomacromolecules</i> , 2012, 13, 2188-2194.	2.6	148
131	Nanoporous Networks Prepared by Simple Air Drying of Aqueous TEMPO-Oxidized Cellulose Nanofibril Dispersions. <i>Biomacromolecules</i> , 2012, 13, 943-946.	2.6	36
132	Relationship between Length and Degree of Polymerization of TEMPO-Oxidized Cellulose Nanofibrils. <i>Biomacromolecules</i> , 2012, 13, 842-849.	2.6	419
133	Topological loading of Cu(I) catalysts onto crystalline cellulose nanofibrils for the Huisgen click reaction. <i>Journal of Materials Chemistry</i> , 2012, 22, 5538.	6.7	59
134	Ultrastrong and High Gas-Barrier Nanocellulose/Clay-Layered Composites. <i>Biomacromolecules</i> , 2012, 13, 1927-1932.	2.6	283
135	Multifunctional Coating Films by Layer-by-Layer Deposition of Cellulose and Chitin Nanofibrils. <i>Biomacromolecules</i> , 2012, 13, 553-558.	2.6	96
136	Mechanical and oxygen barrier properties of films prepared from fibrillated dispersions of TEMPO-oxidized Norway spruce and Eucalyptus pulps. <i>Cellulose</i> , 2012, 19, 705-711.	2.4	72
137	Improvement of mechanical and oxygen barrier properties of cellulose films by controlling drying conditions of regenerated cellulose hydrogels. <i>Cellulose</i> , 2012, 19, 695-703.	2.4	38
138	Cellulose II nanoelements prepared from fully mercerized, partially mercerized and regenerated celluloses by 4-acetamido-TEMPO/NaClO/NaClO ₂ oxidation. <i>Cellulose</i> , 2012, 19, 435-442.	2.4	31
139	Nano-dispersion of TEMPO-oxidized cellulose/aliphatic amine salts in isopropyl alcohol. <i>Cellulose</i> , 2012, 19, 459-466.	2.4	37
140	Self-aligned integration of native cellulose nanofibrils towards producing diverse bulk materials. <i>Soft Matter</i> , 2011, 7, 8804.	1.2	320
141	TEMPO-Oxidized Cellulose Nanofibrils Dispersed in Organic Solvents. <i>Biomacromolecules</i> , 2011, 12, 518-522.	2.6	108
142	Pore Size Determination of TEMPO-Oxidized Cellulose Nanofibril Films by Positron Annihilation Lifetime Spectroscopy. <i>Biomacromolecules</i> , 2011, 12, 4057-4062.	2.6	105
143	Viscoelastic Evaluation of Average Length of Cellulose Nanofibers Prepared by TEMPO-Mediated Oxidation. <i>Biomacromolecules</i> , 2011, 12, 548-550.	2.6	89
144	Transparent Cellulose Films with High Gas Barrier Properties Fabricated from Aqueous Alkali/Urea Solutions. <i>Biomacromolecules</i> , 2011, 12, 2766-2771.	2.6	223

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