Akira Isogai

List of Publications by Year in Descending Order

551 papers	31,313 citations	82 h-index	162 g-index
566 ext. papers	35,134 ext. citations	5.6 avg, IF	7.63 L-index

#	Paper	IF	Citations
551	Changes in neutral sugar composition, molar mass and molar mass distribution, and solid-state structures of birch and Douglas fir by repeated sodium chlorite delignification. *Cellulose*, **2022**, 29, 2119	5.5	3
550	Characterization of cellulose and TEMPO-oxidized celluloses prepared from Eucalyptus globulus. *Holzforschung*, **2022**, 76, 169-178	2	1
549	Resin Modification Using Interface-controlled Cellulose Nanofibers. *Seikei-Kakou*, **2022**, 34, 131-133	0	
548	Copper-coordinated cellulose ion conductors for solid-state batteries. *Nature*, **2021**, 598, 590-596	50.4	49
547	Emerging Nanocellulose Technologies: Recent Developments. *Advanced Materials*, **2021**, 33, e2000630	24	66
546	Linear and branched structures present in high-molar-mass fractions in holocelluloses prepared from chara, haircap moss, adiantum, ginkgo, Japanese cedar, and eucalyptus. *Cellulose*, **2021**, 28, 3935-3949	5.5	3
545	Nanocellulose/polyethylene nanocomposite sheets prepared from an oven-dried nanocellulose by elastic kneading. *Composites Science and Technology*, **2021**, 207, 108734	8.6	9
544	TEMPO/NaBr/NaClO and NaBr/NaClO oxidations of cotton linters and ramie cellulose samples. *Cellulose*, **2021**, 28, 6035	5.5	4
543	Nanocellulose-containing cellulose ether composite films prepared from aqueous mixtures by casting and drying method. *Cellulose*, **2021**, 28, 6373	5.5	6
542	Cellulose nanofiber-reinforced rubber composites prepared by TEMPO-functionalization and elastic kneading. *Composites Science and Technology*, **2021**, 210, 108815	8.6	7
541	Analysis of celluloses, plant holocelluloses, and wood pulps by size-exclusion chromatography/multi-angle laser-light scattering. *Carbohydrate Polymers*, **2021**, 251, 117045	10.3	10
540	Rate-Limited Reaction in TEMPO/Laccase/O Oxidation of Cellulose. *Macromolecular Rapid Communications*, **2021**, 42, e2000501	4.8	2
539	Recent advances in cellulose-based piezoelectric and triboelectric nanogenerators for energy harvesting: a review. *Journal of Materials Chemistry A*, **2021**, 9, 1910-1937	13	61
538	Developing fibrillated cellulose as a sustainable technological material. *Nature*, **2021**, 590, 47-56	50.4	213
537	Structural changes in □chitin through nanofibrillation by high-pressure homogenization in water. *Polymer Journal*, **2020**, 52, 813-818	2.7	5
536	Nanocellulose Film Properties Tunable by Controlling Degree of Fibrillation of TEMPO-Oxidized Cellulose. *Frontiers in Chemistry*, **2020**, 8, 37	5	24
535	Nanocomposite desalination membranes made of aromatic polyamide with cellulose nanofibers: synthesis, performance, and water diffusion study. *Nanoscale*, **2020**, 12, 19628-19637	7.7	11

534	Cellulose nanofiber/elastomer composites with high tensile strength, modulus, toughness, and thermal stability prepared by high-shear kneading. *Composites Science and Technology*, **2020**, 188, 108005	8.6	30
533	Synthesis of Chitin Nanofiber-Coated Polymer Microparticles via Pickering Emulsion. *Biomacromolecules*, **2020**, 21, 1886-1891	6.9	12
532	Significant contribution of fibrils on pulp fiber surface to water retention value. *Nordic Pulp and Paper Research Journal*, **2020**, 35, 96-105	1.1	4
531	Preparation of CaCO3 nanoparticle/pulp fiber composites using ultrafine bubbles. *Nordic Pulp and Paper Research Journal*, **2020**, 35, 279-287	1.1	3
530	Cellulose Nanofibers: Recent Progress and Future Prospects. *Journal of Fiber Science and Technology*, **2020**, 76, 310-326	0.8	12
529	Cellulose Nanofibers. *Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan*, **2020**, 71, 389-395	0.1	
528	A bacterial endo-[illegible]1,4-glucuronan lyase, CUL-I from Brevundimonas sp. SH203, belonging to a novel polysaccharide lyase family. *Protein Expression and Purification*, **2020**, 166, 105502	2	7
527	Controlling Miscibility of the Interphase in Polymer-Grafted Nanocellulose/Cellulose Triacetate Nanocomposites. *ACS Omega*, **2020**, 5, 23755-23761	3.9	9
526	Nanocellulose Production via One-Pot Formation of C2 and C3 Carboxylate Groups Using Highly Concentrated NaClO Aqueous Solution. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 17800-17806	8.3	8
525	2D Assignment and quantitative analysis of cellulose and oxidized celluloses using solution-state NMR spectroscopy. *Cellulose*, **2020**, 27, 7929-7953	5.5	9
524	Primary structure of gum arabic and its dynamics at oil/water interface. *Carbohydrate Polymers*, **2020**, 249, 116843	10.3	13
523	Influence of Chemical and Enzymatic TEMPO-Mediated Oxidation on Chemical Structure and Nanofibrillation of Lignocellulose. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 14198-14206	8.3	10
522	Changes to the Contour Length, Molecular Chain Length, and Solid-State Structures of Nanocellulose Resulting from Sonication in Water. *Biomacromolecules*, **2020**, 21, 2346-2355	6.9	11
521	Thermal and electrical properties of nanocellulose films with different interfibrillar structures of alkyl ammonium carboxylates. *Cellulose*, **2019**, 26, 1657-1665	5.5	6
520	Relationship of Distribution of Carboxy Groups to Molar Mass Distribution of TEMPO-Oxidized Algal, Cotton, and Wood Cellulose Nanofibrils. *Biomacromolecules*, **2019**, 20, 4026-4034	6.9	4
519	Diverse nanocelluloses prepared from TEMPO-oxidized wood cellulose fibers: Nanonetworks, nanofibers, and nanocrystals. *Current Opinion in Solid State and Materials Science*, **2019**, 23, 101-106	12	71
518	Nanocellulose Xerogels With High Porosities and Large Specific Surface Areas. *Frontiers in Chemistry*, **2019**, 7, 316	5	20
517	Characterization of cellulose microfibrils, cellulose molecules, and hemicelluloses in buckwheat and rice husks. *Cellulose*, **2019**, 26, 6529-6541	5.5	15

516	Preparation and characterization of carboxylated cellulose nanofibrils with dual metal counterions. *Cellulose*, **2019**, 26, 4313-4323	5.5	6
515	Parametric Model to Analyze the Components of the Thermal Conductivity of a Cellulose-Nanofibril Aerogel. *Physical Review Applied*, **2019**, 11,	4.3	15
514	Preparation of oxidized celluloses in a TEMPO/NaBr system using different chlorine reagents in water. *Cellulose*, **2019**, 26, 3021-3030	5.5	7
513	Dual Counterion Systems of Carboxylated Nanocellulose Films with Tunable Mechanical, Hydrophilic, and Gas-Barrier Properties. *Biomacromolecules*, **2019**, 20, 1691-1698	6.9	14
512	Carboxylated nanocellulose/poly(ethylene oxide) composite films as solid-solid phase-change materials for thermal energy storage. *Carbohydrate Polymers*, **2019**, 225, 115215	10.3	23
511	Fabrication of ultrathin nanocellulose shells on tough microparticles via an emulsion-templated colloidal assembly: towards versatile carrier materials. *Nanoscale*, **2019**, 11, 15004-15009	7.7	17
510	Dual Functions of TEMPO-Oxidized Cellulose Nanofibers in Oil-in-Water Emulsions: A Pickering Emulsifier and a Unique Dispersion Stabilizer. *Langmuir*, **2019**, 35, 10920-10926	4	48
509	Characterization of TEMPO Oxidized and Refi ned Pulps (Part 2). *Kami Pa Gikyoshi/Japan Tappi Journal*, **2019**, 73, 1234-1239	0.1	
508	Characterization of Concentration-Dependent Gelation Behavior of Aqueous 2,2,6,6-Tetramethylpiperidine-1-oxyl-Cellulose Nanocrystal Dispersions Using Dynamic Light Scattering. *Biomacromolecules*, **2019**, 20, 750-757	6.9	16
507	Surface-hydrophobized TEMPO-nanocellulose/rubber composite films prepared in heterogeneous and homogeneous systems. *Cellulose*, **2019**, 26, 463-473	5.5	19
506	Preparation of oxidized celluloses in a NaBr/NaClO system using 2-azaadamantane N-oxyl (AZADO) derivatives in water at pH 10. *Cellulose*, **2019**, 26, 1479-1487	5.5	4
505	Size-exclusion chromatography with on-line viscometry of various celluloses with branched and linear structures. *Cellulose*, **2019**, 26, 1409-1415	5.5	4
504	Preparation of cellulose nanofibers using green and sustainable chemistry. *Current Opinion in Green and Sustainable Chemistry*, **2018**, 12, 15-21	7.9	50
503	Investigation of stability of branched structures in softwood cellulose using SEC/MALLS/RI/UV and sugar composition analyses. *Cellulose*, **2018**, 25, 2667-2679	5.5	13
502	Chitin nanocrystals prepared by oxidation of chitin using the O/laccase/TEMPO system. *Carbohydrate Polymers*, **2018**, 189, 178-183	10.3	37
501	Determination of length distribution of TEMPO-oxidized cellulose nanofibrils by field-flow fractionation/multi-angle laser-light scattering analysis. *Cellulose*, **2018**, 25, 1599-1606	5.5	8
500	Acid-Free Preparation of Cellulose Nanocrystals by TEMPO Oxidation and Subsequent Cavitation. *Biomacromolecules*, **2018**, 19, 633-639	6.9	116
499	Development of completely dispersed cellulose nanofibers. *Proceedings of the Japan Academy Series B: Physical and Biological Sciences*, **2018**, 94, 161-179	4	38

498	Nematic structuring of transparent and multifunctional nanocellulose papers. *Nanoscale Horizons*, **2018**, 3, 28-34	10.8	65
497	Review: Catalytic oxidation of cellulose with nitroxyl radicals under aqueous conditions. *Progress in Polymer Science*, **2018**, 86, 122-148	29.6	126
496	Silk Composite with a Fluoropolymer as a Water-Resistant Protein-Based Material. *Polymers*, **2018**, 10,	4.5	8
495	Analyses of Radical Behavior in TEMPO-Mediated Oxidation of Cotton Fabric under Neutral Conditions, Using Electron Spin Resonance. *Journal of Fiber Science and Technology*, **2018**, 74, 60-66	0.8	
494	Counterion design of TEMPO-nanocellulose used as filler to improve properties of hydrogenated acrylonitrile-butadiene matrix. *Composites Science and Technology*, **2018**, 167, 339-345	8.6	23
493	Influence of the morphology of zinc oxide nanoparticles on the properties of zinc oxide/nanocellulose composite films. *Reactive and Functional Polymers*, **2018**, 131, 293-298	4.6	13
492	Mechanical Properties and Preparing Processes of the TEMPO-Oxidized Cellulose Nanofibers Hydrogels. *Journal of Fiber Science and Technology*, **2018**, 74, 24-29	0.8	3
491	Characterization of TEMPO-Oxidized and Refined Pulps. *Kami Pa Gikyoshi/Japan Tappi Journal*, **2018**, 72, 545-552	0.1	
490	Oxidative Chemistry in Preparation and Modification on Cellulose Nanoparticles **2018**, 45-65		
489	Influence of drying of chara cellulose on length/length distribution of microfibrils after acid hydrolysis. *International Journal of Biological Macromolecules*, **2018**, 109, 569-575	7.9	16
488	Solution-state structures of the cellulose model pullulan in lithium chloride/N,N-dimethylacetamide. *International Journal of Biological Macromolecules*, **2018**, 107, 2598-2603	7.9	8
487	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. *International Journal of Biological Macromolecules*, **2018**, 109, 914-920	7.9	12
486	All-cellulose Materials Adhered with Cellulose Nanofibrils. *Kami Pa Gikyoshi/Japan Tappi Journal*, **2018**, 72, 1050-1058	0.1	2
485	Preparation and Characterization of Zeolite-Containing Composite Sheets for Decontamination of Radioactive Ions Dissolved in Water (III). *Journal of Fiber Science and Technology*, **2018**, 74, 53-59	0.8	
484	Thermal Diffusion Properties of TEMPO-Oxidized Cellulose Nanofiber Films. *Journal of Fiber Science and Technology*, **2018**, 74, 76-81	0.8	0
483	The Crystallinity of Nanocellulose: Dispersion-Induced Disordering of the Grain Boundary in Biologically Structured Cellulose. *ACS Applied Nano Materials*, **2018**, 1, 5774-5785	5.6	57
482	Tailoring Nanocellulose-Cellulose Triacetate Interfaces by Varying the Surface Grafting Density of Poly(ethylene glycol). *ACS Omega*, **2018**, 3, 11883-11889	3.9	10
481	Preparation and Hydrogel Properties of pH-Sensitive Amphoteric Chitin Nanocrystals. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 11372-11379	5.7	19

480	All-Cellulose (Cellulose□Cellulose) Green Composites **2018**, 111-133		3
479	Luminescent and Transparent Nanocellulose Films Containing Europium Carboxylate Groups as Flexible Dielectric Materials. *ACS Applied Nano Materials*, **2018**, 1, 4972-4979	5.6	25
478	Optimization of preparation of thermally stable cellulose nanofibrils via heat-induced conversion of ionic bonds to amide bonds. *Journal of Polymer Science Part A*, **2017**, 55, 1750-1756	2.5	10
477	Interfacial layer thickness design for exploiting the reinforcement potential of nanocellulose in cellulose triacetate matrix. *Composites Science and Technology*, **2017**, 147, 100-106	8.6	15
476	Ensemble evaluation of polydisperse nanocellulose dimensions: rheology, electron microscopy, X-ray scattering and turbidimetry. *Cellulose*, **2017**, 24, 3231-3242	5.5	16
475	Dynamic Viscoelastic Functions of Liquid-Crystalline Chitin Nanofibril Dispersions. *Biomacromolecules*, **2017**, 18, 2564-2570	6.9	11
474	Cellulose Nanofibers Prepared Using the TEMPO/Laccase/O System. *Biomacromolecules*, **2017**, 18, 288-294	6.9	58
473	Branched Structures of Softwood Celluloses: Proof Based on Size-Exclusion Chromatography and Multi-Angle Laser-Light Scattering. *ACS Symposium Series*, **2017**, 151-169	0.4	8
472	Different Conformations of Surface Cellulose Molecules in Native Cellulose Microfibrils Revealed by Layer-by-Layer Peeling. *Biomacromolecules*, **2017**, 18, 3687-3694	6.9	21
471	Degradation of N-Oxyl Radical Compounds by Fenton Reaction. *Journal of Fiber Science and Technology*, **2017**, 73, 42-48	0.8	2
470	Preparation and characterization of zinc oxide/TEMPO-oxidized cellulose nanofibril composite films. *Cellulose*, **2017**, 24, 4861-4870	5.5	16
469	Effect of coexisting salt on TEMPO-mediated oxidation of wood cellulose for preparation of nanocellulose. *Cellulose*, **2017**, 24, 4097-4101	5.5	22
468	Molar Masses and Molar Mass Distributions of Chitin and Acid-Hydrolyzed Chitin. *Biomacromolecules*, **2017**, 18, 4357-4363	6.9	9
467	Estimating the Strength of Single Chitin Nanofibrils via Sonication-Induced Fragmentation. *Biomacromolecules*, **2017**, 18, 4405-4410	6.9	42
466	Ionic Liquid Mediated Dispersion and Support of Functional Molecules on Cellulose Fibers for Stimuli-Responsive Chromic Paper Devices. *ACS Applied Materials & Interfaces*, **2017**, 9, 40914-40920	9.5	16
465	Characterization of cellulose nanofibrils prepared by direct TEMPO-mediated oxidation of hemp bast. *Cellulose*, **2017**, 24, 3767-3775	5.5	22
464	Preparation and Characterization of Zeolite-Containing Composite Sheets for Decontamination of Radioactive Ions Dissolved in Water (II). *Journal of Fiber Science and Technology*, **2017**, 73, 229-233	0.8	
463	Preparation and Characterization of Zeolite-Containing Composite Sheet for Decontamination of Radioactive Ions Dissolved in Water. *Journal of Fiber Science and Technology*, **2016**, 72, 27-32	0.8	2

462	Analysis of mesopore structures in wood cell walls and pulp fibers by nitrogen adsorption method. *Nordic Pulp and Paper Research Journal*, **2016**, 31, 198-204	1.1	12
461	Fundamental properties of handsheets containing TEMPO-oxidized pulp in various weight ratios. *Nordic Pulp and Paper Research Journal*, **2016**, 31, 248-254	1.1	6
460	Cellulose Nanofibers as New Bio-Based Nanomaterials **2016**, 297-311		
459	Fast and Robust Nanocellulose Width Estimation Using Turbidimetry. *Macromolecular Rapid Communications*, **2016**, 37, 1581-1586	4.8	32
458	Cellulose nanofiber backboned Prussian blue nanoparticles as powerful adsorbents for the selective elimination of radioactive cesium. *Scientific Reports*, **2016**, 6, 37009	4.9	77
457	Partitioned airs at microscale and nanoscale: thermal diffusivity in ultrahigh porosity solids of nanocellulose. *Scientific Reports*, **2016**, 6, 20434	4.9	73
456	Cellulose Nanofiber as a Distinct Structure-Directing Agent for Xylem-like Microhoneycomb Monoliths by Unidirectional Freeze-Drying. *ACS Nano*, **2016**, 10, 10689-10697	16.7	86
455	Water-resistant and high oxygen-barrier nanocellulose films with interfibrillar cross-linkages formed through multivalent metal ions. *Journal of Membrane Science*, **2016**, 500, 1-7	9.6	129
454	Reliable dn/dc Values of Cellulose, Chitin, and Cellulose Triacetate Dissolved in LiCl/N,N-Dimethylacetamide for Molecular Mass Analysis. *Biomacromolecules*, **2016**, 17, 192-9	6.9	36
453	Preparation and Characterization of Zeolite-Containing Composite Sheet for Decontamination of Radioactive Ions Dissolved in Water. *Journal of Fiber Science and Technology*, **2016**, 72, 27-32	0.8	1
452	TEMPO-Mediated Oxidation of Cotton Cellulose Fabrics with Sodium Dichloroisocyanurate. *Journal of Fiber Science and Technology*, **2016**, 72, 172-178	0.8	5
451	Improvement of Air Filters by Nanocelluloses. *Kami Pa Gikyoshi/Japan Tappi Journal*, **2016**, 70, 1072-1078	0.1	3
450	Improvement of the Thermal Stability of TEMPO-Oxidized Cellulose Nanofibrils by Heat-Induced Conversion of Ionic Bonds to Amide Bonds. *Macromolecular Rapid Communications*, **2016**, 37, 1033-9	4.8	36
449	Preparation of Aqueous Dispersions of TEMPO-Oxidized Cellulose Nanofibrils with Various Metal Counterions and Their Super Deodorant Performances. *ACS Macro Letters*, **2016**, 5, 1402-1405	6.6	27
448	Viscoelastic Properties of Core-Shell-Structured, Hemicellulose-Rich Nanofibrillated Cellulose in Dispersion and Wet-Film States. *Biomacromolecules*, **2016**, 17, 2104-11	6.9	34
447	SEC-MALLS analysis of ethylenediamine-pretreated native celluloses in LiCl/N,N-dimethylacetamide: softwood kraft pulp and highly crystalline bacterial, tunicate, and algal celluloses. *Cellulose*, **2016**, 23, 1639-1647	5.5	27
446	Mechanism of TEMPO-oxidized cellulose nanofibril film reinforcement with poly(acrylamide). *Cellulose*, **2015**, 22, 2607-2617	5.5	25
445	SEC-MALLS analysis of wood holocelluloses dissolved in 8 % LiCl/1,3-dimethyl-2-imidazolidinone: challenges and suitable analytical conditions. *Cellulose*, **2015**, 22, 3347-3357	5.5	8

444	Comparison testing of methods for gel permeation chromatography of cellulose: coming closer to a standard protocol. *Cellulose*, **2015**, 22, 1591-1613	5.5	83
443	Low-birefringent and highly tough nanocellulose-reinforced cellulose triacetate. *ACS Applied Materials & Interfaces*, **2015**, 7, 11041-6	9.5	42
442	Creation of a new material stream from Japanese cedar resources to cellulose nanofibrils. *Reactive and Functional Polymers*, **2015**, 95, 19-24	4.6	15
441	Chemical Modification of Cellulose Nanofibers for the Production of Highly Thermal Resistant and Optically Transparent Nanopaper for Paper Devices. *ACS Applied Materials & Interfaces*, **2015**, 7, 22012-7	9.5	71
440	Cellulose nanofibrils improve the properties of all-cellulose composites by the nano-reinforcement mechanism and nanofibril-induced crystallization. *Nanoscale*, **2015**, 7, 17957-63	7.7	56
439	Simple Freeze-Drying Procedure for Producing Nanocellulose Aerogel-Containing, High-Performance Air Filters. *ACS Applied Materials & Interfaces*, **2015**, 7, 19809-15	9.5	182
438	Antioxidant activities of a polyglucuronic acid sodium salt obtained from TEMPO-mediated oxidation of xanthan. *Carbohydrate Polymers*, **2015**, 116, 34-41	10.3	50
437	The effect of electric charge density of polyacrylamide (PAM) on properties of PAM/cellulose nanofibril composite films. *Cellulose*, **2015**, 22, 499-506	5.5	13
436	Calcium signalling mediates self-incompatibility response in the Brassicaceae. *Nature Plants*, **2015**, 1, 15128	11.5	47
435	Chemically-modified cellulose paper as a microstructured catalytic reactor. *Molecules*, **2015**, 20, 1495-508	4.8	20
434	TEMPO-Mediated Oxidation of Cotton Cellulose Fabrics under Weakly Acidic or Neutral Conditions. *Journal of Fiber Science and Technology*, **2015**, 71, 191-196	0	7
433	Structural Characterization and Modifications of Surface-oxidized Cellulose Nanofiber. *Journal of the Japan Petroleum Institute*, **2015**, 58, 365-375	1	9
432	Influence of Flexibility and Dimensions of Nanocelluloses on the Flow Properties of Their Aqueous Dispersions. *Biomacromolecules*, **2015**, 16, 2127-31	6.9	66
431	Molecular mass and molecular-mass distribution of TEMPO-oxidized celluloses and TEMPO-oxidized cellulose nanofibrils. *Biomacromolecules*, **2015**, 16, 675-81	6.9	60
430	SEC-MALLS analysis of TEMPO-oxidized celluloses using methylation of carboxyl groups. *Cellulose*, **2014**, 21, 167-176	5.5	13
429	Determination of nanocellulose fibril length by shear viscosity measurement. *Cellulose*, **2014**, 21, 1581-1589	5.5	87
428	Dispersion stability and aggregation behavior of TEMPO-oxidized cellulose nanofibrils in water as a function of salt addition. *Cellulose*, **2014**, 21, 1553-1559	5.5	87
427	Bulky quaternary alkylammonium counterions enhance the nanodispersibility of 2,2,6,6-tetramethylpiperidine-1-oxyl-oxidized cellulose in diverse solvents. *Biomacromolecules*, **2014**, 15, 1904-9	6.9	56

426	Highly tough and transparent layered composites of nanocellulose and synthetic silicate. *Nanoscale* , **2014**, 6, 392-9	7.7	61
425	Hydrophobic, ductile, and transparent nanocellulose films with quaternary alkylammonium carboxylates on nanofibril surfaces. *Biomacromolecules*, **2014**, 15, 4320-5	6.9	96
424	Nanofibrillar chitin aerogels as renewable base catalysts. *Biomacromolecules*, **2014**, 15, 4314-9	6.9	72
423	TEMPO-oxidized cellulose nanofibrils prepared from various plant holocelluloses. *Reactive and Functional Polymers*, **2014**, 85, 126-133	4.6	76
422	Increase in the water contact angle of composite film surfaces caused by the assembly of hydrophilic nanocellulose fibrils and nanoclay platelets. *ACS Applied Materials & Interfaces*, **2014**, 6, 12707-12	9.5	34
421	Mesoporous structures in never-dried softwood cellulose fibers investigated by nitrogen adsorption. *Cellulose*, **2014**, 21, 3193-3201	5.5	18
420	Properties of poly(acrylamide)/TEMPO-oxidized cellulose nanofibril composite films. *Cellulose*, **2014**, 21, 291-299	5.5	44
419	Aerogels with 3D ordered nanofiber skeletons of liquid-crystalline nanocellulose derivatives as tough and transparent insulators. *Angewandte Chemie - International Edition*, **2014**, 53, 10394-7	16.4	343
418	Bioinspired stiff and flexible composites of nanocellulose-reinforced amorphous CaCO3. *Materials Horizons*, **2014**, 1, 321	14.4	53
417	Formation of nanosized islands of dialkyl □ketoester bonds for efficient hydrophobization of a cellulose film surface. *Langmuir*, **2014**, 30, 8109-18	4	14
416	Aerogels with 3D Ordered Nanofiber Skeletons of Liquid-Crystalline Nanocellulose Derivatives as Tough and Transparent Insulators. *Angewandte Chemie*, **2014**, 126, 10562-10565	3.6	62
415	Preparation of completely C6-carboxylated curdlan by catalytic oxidation with 4-acetamido-TEMPO. *Carbohydrate Polymers*, **2014**, 100, 74-9	10.3	15
414	Cellulose nanofibrils as templates for the design of poly(l-lactide)-nucleating surfaces. *Polymer*, **2014**, 55, 2937-2942	3.9	24
413	Cellulose-clay layered nanocomposite films fabricated from aqueous cellulose/LiOH/urea solution. *Carbohydrate Polymers*, **2014**, 100, 179-84	10.3	38
412	Analysis of TEMPO-Mediated Oxidation of Cotton Cellulose Fabrics through Electron Spin Resonance Technique. *Journal of Fiber Science and Technology*, **2014**, 70, 53-58	0	3
411	Pretreatment of Cellulose for Further Processing. *Materials and Energy*, **2014**, 35-51		1
410	Improvement of nanodispersibility of oven-dried TEMPO-oxidized celluloses in water. *Cellulose*, **2014**, 21, 4093-4103	5.5	62
409	Ubiquitin-proteasome-mediated degradation of S-RNase in a solanaceous cross-compatibility reaction. *Plant Journal*, **2014**, 78, 1014-21	6.9	34

408	Crystallization behaviors of poly[(R)-3-hydroxybutyrate-co-4-hydroxybutyrate]/poly(ethylene glycol) graft TEMPO-oxidized cellulose nanofiber blends. *Polymer Degradation and Stability*, **2014**, 110, 529-536	4.7	2
407	One-step preparation of 2,3,6-tricarboxy cellulose. *Carbohydrate Polymers*, **2014**, 110, 499-504	10.3	12
406	Comparison of mechanical reinforcement effects of surface-modified cellulose nanofibrils and carbon nanotubes in PLLA composites. *Composites Science and Technology*, **2014**, 90, 96-101	8.6	50
405	Fundamental Properties of Nanocellulose. *Kami Pa Gikyoshi/Japan Tappi Journal*, **2014**, 68, 837-840	0.1	1
404	TEMPO-Mediated Oxidation of Hemp Bast Holocellulose to Prepare Cellulose Nanofibrils Dispersed in Water. *Journal of Polymers and the Environment*, **2013**, 21, 555-563	4.5	29
403	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	4.5	45
402	TEMPO-oxidized cellulose hydrogel as a high-capacity and reusable heavy metal ion adsorbent. *Journal of Hazardous Materials*, **2013**, 260, 195-201	12.8	104
401	An ultrastrong nanofibrillar biomaterial: the strength of single cellulose nanofibrils revealed via sonication-induced fragmentation. *Biomacromolecules*, **2013**, 14, 248-53	6.9	426
400	Effects of carboxyl-group counter-ions on biodegradation behaviors of TEMPO-oxidized cellulose fibers and nanofibril films. *Cellulose*, **2013**, 20, 2505-2515	5.5	26
399	Method for controlling surface energies of paper substrates to create paper-based printed electronics. *Chemical Engineering and Processing: Process Intensification*, **2013**, 68, 21-25	3.7	17
398	Stability of (1-3)-□polyglucuronic acid under various pH and temperature conditions. *Carbohydrate Polymers*, **2013**, 97, 413-20	10.3	4
397	Wood nanocelluloses: fundamentals and applications as new bio-based nanomaterials. *Journal of Wood Science*, **2013**, 59, 449-459	2.4	279
396	Oxidation of wood cellulose using 2-azaadamantane N-oxyl (AZADO) or 1-methyl-AZADO catalyst in NaBr/NaClO system. *Cellulose*, **2013**, 20, 1979-1988	5.5	16
395	Influence of TEMPO-oxidized cellulose nanofibril length on film properties. *Carbohydrate Polymers*, **2013**, 93, 172-7	10.3	150
394	Preparation and characterization of TEMPO-oxidized cellulose nanofibrils with ammonium carboxylate groups. *International Journal of Biological Macromolecules*, **2013**, 59, 99-104	7.9	36
393	Cellulose Nanofibers Prepared from Wood Pulps, Their Characteristics and Potential Applications. *Kami Pa Gikyoshi/Japan Tappi Journal*, **2013**, 67, 654-663	0.1	2
392	Surface engineering of ultrafine cellulose nanofibrils toward polymer nanocomposite materials. *Biomacromolecules*, **2013**, 14, 1541-6	6.9	144
391	Biodegradation of (1-3)-□polyglucuronate prepared by TEMPO-mediated oxidation. *Carbohydrate Polymers*, **2013**, 96, 314-9	10.3	5

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