Akira Isogai

List of Publications by Citations

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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	TEMPO-oxidized cellulose nanofibers. *Nanoscale*, **2011**, 3, 71-85	7.7	1950
550	Cellulose nanofibers prepared by TEMPO-mediated oxidation of native cellulose. *Biomacromolecules*, **2007**, 8, 2485-91	6.9	1637
549	Homogeneous suspensions of individualized microfibrils from TEMPO-catalyzed oxidation of native cellulose. *Biomacromolecules*, **2006**, 7, 1687-91	6.9	1291
548	Transparent and high gas barrier films of cellulose nanofibers prepared by TEMPO-mediated oxidation. *Biomacromolecules*, **2009**, 10, 162-5	6.9	983
547	TEMPO-mediated oxidation of native cellulose. The effect of oxidation conditions on chemical and crystal structures of the water-insoluble fractions. *Biomacromolecules*, **2004**, 5, 1983-9	6.9	871
546	Individualization of nano-sized plant cellulose fibrils by direct surface carboxylation using TEMPO catalyst under neutral conditions. *Biomacromolecules*, **2009**, 10, 1992-6	6.9	583
545	Elastic modulus of single cellulose microfibrils from tunicate measured by atomic force microscopy. *Biomacromolecules*, **2009**, 10, 2571-6	6.9	555
544	Self-incompatibility in plants. *Annual Review of Plant Biology*, **2005**, 56, 467-89	30.7	473
543	An ultrastrong nanofibrillar biomaterial: the strength of single cellulose nanofibrils revealed via sonication-induced fragmentation. *Biomacromolecules*, **2013**, 14, 248-53	6.9	426
542	The S receptor kinase determines self-incompatibility in Brassica stigma. *Nature*, **2000**, 403, 913-6	50.4	412
541	The pollen determinant of self-incompatibility in Brassica campestris. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 1920-5	11.5	362
540	Entire surface oxidation of various cellulose microfibrils by TEMPO-mediated oxidation. *Biomacromolecules*, **2010**, 11, 1696-700	6.9	355
539	Direct ligand-receptor complex interaction controls Brassica self-incompatibility. *Nature*, **2001**, 413, 534-8	50.4	353
538	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
537	Relationship between length and degree of polymerization of TEMPO-oxidized cellulose nanofibrils. *Biomacromolecules*, **2012**, 13, 842-9	6.9	334
536	Solid-state CP/MAS carbon-13 NMR study of cellulose polymorphs. *Macromolecules*, **1989**, 22, 3168-3172	5.5	330
535	Preparation of Polyuronic Acid from Cellulose by TEMPO-mediated Oxidation. *Cellulose*, **1998**, 5, 153-164	5.5	329

534	Dissolution of Cellulose in Aqueous NaOH Solutions. *Cellulose*, **1998**, 5, 309-319	5.5	327
533	Preparation and characterization of TEMPO-oxidized cellulose nanofibril films with free carboxyl groups. *Carbohydrate Polymers*, **2011**, 84, 579-583	10.3	292
532	Self-aligned integration of native cellulose nanofibrils towards producing diverse bulk materials. *Soft Matter*, **2011**, 7, 8804	3.6	280
531	Chitin nanocrystals prepared by TEMPO-mediated oxidation of alpha-chitin. *Biomacromolecules*, **2008**, 9, 192-8	6.9	280
530	Wood nanocelluloses: fundamentals and applications as new bio-based nanomaterials. *Journal of Wood Science*, **2013**, 59, 449-459	2.4	279
529	Thermal stabilization of TEMPO-oxidized cellulose. *Polymer Degradation and Stability*, **2010**, 95, 1502-1508	4.7	266
528	Preparation of chitin nanofibers from squid pen beta-chitin by simple mechanical treatment under acid conditions. *Biomacromolecules*, **2008**, 9, 1919-23	6.9	265
527	Ultrastrong and high gas-barrier nanocellulose/clay-layered composites. *Biomacromolecules*, **2012**, 13, 1927-32	6.9	245
526	Structure and mechanical properties of wet-spun fibers made from natural cellulose nanofibers. *Biomacromolecules*, **2011**, 12, 831-6	6.9	238
525	Comparative analysis of the self-incompatibility (S-) locus region of Prunus mume: identification of a pollen-expressed F-box gene with allelic diversity. *Genes To Cells*, **2003**, 8, 203-13	2.3	237
524	Genomic organization of the S locus: Identification and characterization of genes in SLG/SRK region of S(9) haplotype of Brassica campestris (syn. rapa). *Genetics*, **1999**, 153, 391-400	4	230
523	Individual chitin nano-whiskers prepared from partially deacetylated □-chitin by fibril surface cationization. *Carbohydrate Polymers*, **2010**, 79, 1046-1051	10.3	226
522	Transparent, conductive, and printable composites consisting of TEMPO-oxidized nanocellulose and carbon nanotube. *Biomacromolecules*, **2013**, 14, 1160-5	6.9	214
521	Developing fibrillated cellulose as a sustainable technological material. *Nature*, **2021**, 590, 47-56	50.4	213
520	Collaborative non-self recognition system in S-RNase-based self-incompatibility. *Science*, **2010**, 330, 796-9	33.3	211
519	Topochemical synthesis and catalysis of metal nanoparticles exposed on crystalline cellulose nanofibers. *Chemical Communications*, **2010**, 46, 8567-9	5.8	200
518	A membrane-anchored protein kinase involved in Brassica self-incompatibility signaling. *Science*, **2004**, 303, 1516-9	33.3	191
517	Ion-exchange behavior of carboxylate groups in fibrous cellulose oxidized by the TEMPO-mediated system. *Carbohydrate Polymers*, **2005**, 61, 183-190	10.3	186

516	Transparent cellulose films with high gas barrier properties fabricated from aqueous alkali/urea solutions. *Biomacromolecules*, **2011**, 12, 2766-71	6.9	184
515	Simple Freeze-Drying Procedure for Producing Nanocellulose Aerogel-Containing, High-Performance Air Filters. *ACS Applied Materials & Interfaces*, **2015**, 7, 19809-15	9.5	182
514	Introduction of aldehyde groups on surfaces of native cellulose fibers by TEMPO-mediated oxidation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2006**, 289, 219-225	5.1	170
513	TEMPO-mediated oxidation of native cellulose: Microscopic analysis of fibrous fractions in the oxidized products. *Carbohydrate Polymers*, **2006**, 65, 435-440	10.3	154
512	Influence of TEMPO-oxidized cellulose nanofibril length on film properties. *Carbohydrate Polymers*, **2013**, 93, 172-7	10.3	150
511	Fine-tuning of the cytoplasmic Ca2+ concentration is essential for pollen tube growth. *Plant Physiology*, **2009**, 150, 1322-34	6.6	148
510	Comparative characterization of aqueous dispersions and cast films of different chitin nanowhiskers/nanofibers. *International Journal of Biological Macromolecules*, **2012**, 50, 69-76	7.9	144
509	Surface engineering of ultrafine cellulose nanofibrils toward polymer nanocomposite materials. *Biomacromolecules*, **2013**, 14, 1541-6	6.9	144
508	Analysis of flagellin perception mediated by flg22 receptor OsFLS2 in rice. *Molecular Plant-Microbe Interactions*, **2008**, 21, 1635-42	3.6	144
507	Reduced levels of chloroplast FtsH protein in tobacco mosaic virus-infected tobacco leaves accelerate the hypersensitive reaction. *Plant Cell*, **2000**, 12, 917-32	11.6	143
506	Comparison of S-alleles and S-glycoproteins between two wild populations of Brassica campestris in Turkey and Japan. *Sexual Plant Reproduction*, **1993**, 6, 79-86		140
505	The transcription factor OsNAC4 is a key positive regulator of plant hypersensitive cell death. *EMBO Journal*, **2009**, 28, 926-36	13	138
504	A pollen coat protein, SP11/SCR, determines the pollen S-specificity in the self-incompatibility of Brassica species. *Plant Physiology*, **2001**, 125, 2095-103	6.6	135
503	Ca2+ dynamics in a pollen grain and papilla cell during pollination of Arabidopsis. *Plant Physiology*, **2004**, 136, 3562-71	6.6	134
502	Sequences of S-glycoproteins, products of the Brassica campestris self-incompatibility locus. *Nature* , **1987**, 326, 102-105	50.4	134
501	Superior reinforcement effect of TEMPO-oxidized cellulose nanofibrils in polystyrene matrix: optical, thermal, and mechanical studies. *Biomacromolecules*, **2012**, 13, 2188-94	6.9	133
500	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
499	Review: Catalytic oxidation of cellulose with nitroxyl radicals under aqueous conditions. *Progress in Polymer Science*, **2018**, 86, 122-148	29.6	126

498	The dominance of alleles controlling self-incompatibility in Brassica pollen is regulated at the RNA level. *Plant Cell*, **2002**, 14, 491-504	11.6	121
497	Depolymerization of cellouronic acid during TEMPO-mediated oxidation. *Cellulose*, **2003**, 10, 151-158	5.5	120
496	Two distinct forms of M-locus protein kinase localize to the plasma membrane and interact directly with S-locus receptor kinase to transduce self-incompatibility signaling in Brassica rapa. *Plant Cell*, **2007**, 19, 3961-73	11.6	118
495	Dual targeting of spinach protoporphyrinogen oxidase II to mitochondria and chloroplasts by alternative use of two in-frame initiation codons. *Journal of Biological Chemistry*, **2001**, 276, 20474-81	5.4	118
494	TEMPO-mediated oxidation of □chitin to prepare individual nanofibrils. *Carbohydrate Polymers*, **2009**, 77, 832-838	10.3	117
493	Acid-Free Preparation of Cellulose Nanocrystals by TEMPO Oxidation and Subsequent Cavitation. *Biomacromolecules*, **2018**, 19, 633-639	6.9	116
492	Distribution of carboxylate groups introduced into cotton linters by the TEMPO-mediated oxidation. *Carbohydrate Polymers*, **2005**, 61, 414-419	10.3	111
491	Trans-acting small RNA determines dominance relationships in Brassica self-incompatibility. *Nature*, **2010**, 466, 983-6	50.4	108
490	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
489	Characterization of cellulose□hitosan blend films. *Journal of Applied Polymer Science*, **1992**, 45, 1873-1879	2.9	103
488	Oxidation of regenerated cellulose with NaClO2 catalyzed by TEMPO and NaClO under acid-neutral conditions. *Carbohydrate Polymers*, **2009**, 78, 330-335	10.3	101
487	Dissolving states of cellulose and chitosan in trifluoroacetic acid. *Journal of Applied Polymer Science* , **1992**, 45, 1857-1863	2.9	101
486	Flagellin from an incompatible strain of Pseudomonas avenae induces a resistance response in cultured rice cells. *Journal of Biological Chemistry*, **2000**, 275, 32347-56	5.4	100
485	Oxidation process of water-soluble starch in TEMPO-mediated system. *Carbohydrate Polymers*, **2003**, 51, 69-75	10.3	99
484	Hydrophobic, ductile, and transparent nanocellulose films with quaternary alkylammonium carboxylates on nanofibril surfaces. *Biomacromolecules*, **2014**, 15, 4320-5	6.9	96
483	TEMPO-oxidized cellulose nanofibrils dispersed in organic solvents. *Biomacromolecules*, **2011**, 12, 518-22	6.9	96
482	Highly divergent sequences of the pollen self-incompatibility (S) gene in class-I S haplotypes of Brassica campestris (syn. rapa) L. *FEBS Letters*, **2000**, 473, 139-44	3.8	94
481	Pore size determination of TEMPO-oxidized cellulose nanofibril films by positron annihilation lifetime spectroscopy. *Biomacromolecules*, **2011**, 12, 4057-62	6.9	93

480	Cellulose nanofibrils prepared from softwood cellulose by TEMPO/NaClO/$NaClO_2$ systems in water at pH 4.8 or 6.8. *International Journal of Biological Macromolecules*, **2012**, 51, 228-34	7.9	92
479	Wood cellulose nanofibrils prepared by TEMPO electro-mediated oxidation. *Cellulose*, **2011**, 18, 421-431	5.5	90
478	Multifunctional coating films by layer-by-layer deposition of cellulose and chitin nanofibrils. *Biomacromolecules*, **2012**, 13, 553-8	6.9	88
477	Determination of nanocellulose fibril length by shear viscosity measurement. *Cellulose*, **2014**, 21, 1581-1589	5.5	87
476	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
475	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
474	Dominance relationships between self-incompatibility alleles controlled by DNA methylation. *Nature Genetics*, **2006**, 38, 297-9	36.3	86
473	Glucose/glucuronic acid alternating co-polysaccharides prepared from TEMPO-oxidized native celluloses by surface peeling. *Angewandte Chemie - International Edition*, **2010**, 49, 7670-2	16.4	85
472	Comparison testing of methods for gel permeation chromatography of cellulose: coming closer to a standard protocol. *Cellulose*, **2015**, 22, 1591-1613	5.5	83
471	Chemical modification of pulp fibers by TEMPO-mediated oxidation. *Nordic Pulp and Paper Research Journal*, **1999**, 14, 279-284	1.1	83
470	Preparation of low-molecular-weight chitosan using phosphoric acid. *Carbohydrate Polymers*, **1993**, 20, 279-283	10.3	82
469	Viscoelastic evaluation of average length of cellulose nanofibers prepared by TEMPO-mediated oxidation. *Biomacromolecules*, **2011**, 12, 548-50	6.9	81
468	Cellulose nanofiber backboned Prussian blue nanoparticles as powerful adsorbents for the selective elimination of radioactive cesium. *Scientific Reports*, **2016**, 6, 37009	4.9	77
467	Isolation and characterization of pollen coat proteins of Brassica campestris that interact with S locus-related glycoprotein 1 involved in pollen-stigma adhesion. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 3765-3770	11.5	77
466	TEMPO-oxidized cellulose nanofibrils prepared from various plant holocelluloses. *Reactive and Functional Polymers*, **2014**, 85, 126-133	4.6	76
465	NMR analysis of cellulose dissolved in aqueous NaOH solutions. *Cellulose*, **1997**, 4, 99-107	5.5	76
464	The mechanism of wet-strength development of cellulose sheets prepared with polyamideamine-epichlorohydrin (PAE) resin. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 302, 525-531	5.1	76
463	Characterization of the SP11/SCR high-affinity binding site involved in self/nonself recognition in brassica self-incompatibility. *Plant Cell*, **2007**, 19, 107-17	11.6	76

462	TEMPO-mediated oxidation of chitin, regenerated chitin and -acetylated chitosan. *Carbohydrate Polymers*, **2004**, 58, 421-426	10.3	75
461	Partitioned airs at microscale and nanoscale: thermal diffusivity in ultrahigh porosity solids of nanocellulose. *Scientific Reports*, **2016**, 6, 20434	4.9	73
460	Isolation and structure of bacterial sex pheromone, cPD1. *Science*, **1984**, 226, 849-50	33.3	73
459	Isolation and structure of the bacterial sex pheromone, cAD1, that induces plasmid transfer in Streptococcus faecalis. *FEBS Letters*, **1984**, 178, 97-100	3.8	73
458	Nanofibrillar chitin aerogels as renewable base catalysts. *Biomacromolecules*, **2014**, 15, 4314-9	6.9	72
457	TEMPO-mediated oxidation of softwood thermomechanical pulp. *Holzforschung*, **2009**, 63,	2	72
456	Structure of cCF10, a peptide sex pheromone which induces conjugative transfer of the Streptococcus faecalis tetracycline resistance plasmid, pCF10.. *Journal of Biological Chemistry*, **1988** , 263, 14574-14578	5.4	72
455	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
454	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
453	Improved Structural Data of Cellulose IIII Prepared in Supercritical Ammonia. *Macromolecules*, **2001**, 34, 1237-1243	5.5	71
452	Degrees of polymerization (DP) and DP distribution of cellouronic acids prepared from alkali-treated celluloses and ball-milled native celluloses by TEMPO-mediated oxidation. *Cellulose*, **2009**, 16, 117-127	5.5	70
451	Water dispersion of cellulose II nanocrystals prepared by TEMPO-mediated oxidation of mercerized cellulose at pH 4.8. *Cellulose*, **2010**, 17, 279-288	5.5	69
450	Species Specificity of the Insect Prothoracicotropic Hormone (PITH): the Presence of Bombyx-and Samia-Specific PTTHs in the Brain of Bombyx mori. *Development Growth and Differentiation*, **1983**, 25, 593-600	3	69
449	Cytoplasmic Ca2+ changes dynamically during the interaction of the pollen tube with synergid cells. *Development (Cambridge)*, **2012**, 139, 4202-9	6.6	68
448	TEMPO electromediated oxidation of some polysaccharides including regenerated cellulose fiber. *Biomacromolecules*, **2010**, 11, 1593-9	6.9	68
447	Comparison study of TEMPO-analogous compounds on oxidation efficiency of wood cellulose for preparation of cellulose nanofibrils. *Polymer Degradation and Stability*, **2010**, 95, 1394-1398	4.7	68
446	The prgQ gene of the Enterococcus faecalis tetracycline resistance plasmid pCF10 encodes a peptide inhibitor, iCF10. *Journal of Bacteriology*, **1994**, 176, 7405-8	3.5	68
445	Wet Strength Improvement of TEMPO-Oxidized Cellulose Sheets Prepared with Cationic Polymers. *Industrial & Engineering Chemistry Research*, **2007**, 46, 773-780	3.9	67

444	Influence of Flexibility and Dimensions of Nanocelluloses on the Flow Properties of Their Aqueous Dispersions. *Biomacromolecules*, **2015**, 16, 2127-31	6.9	66
443	Emerging Nanocellulose Technologies: Recent Developments. *Advanced Materials*, **2021**, 33, e2000630	24	66
442	Nematic structuring of transparent and multifunctional nanocellulose papers. *Nanoscale Horizons*, **2018**, 3, 28-34	10.8	65
441	Structure of cCF10, a peptide sex pheromone which induces conjugative transfer of the Streptococcus faecalis tetracycline resistance plasmid, pCF10. *Journal of Biological Chemistry*, **1988**, 263, 14574-8	5.4	65
440	Mechanical and oxygen barrier properties of films prepared from fibrillated dispersions of TEMPO-oxidized Norway spruce and Eucalyptus pulps. *Cellulose*, **2012**, 19, 705-711	5.5	64
439	Oxidation of bleached wood pulp by TEMPO/NaClO/NaClO2 system: effect of the oxidation conditions on carboxylate content and degree of polymerization. *Journal of Wood Science*, **2010**, 56, 227-232	2.4	64
438	Intracrystalline Deuteration of Native Cellulose. *Macromolecules*, **1999**, 32, 2078-2081	5.5	64
437	In situ modification of cellulose paper with amino groups for catalytic applications. *Journal of Materials Chemistry*, **2011**, 21, 9356		63
436	Synthesis and Catalytic Features of Hybrid Metal Nanoparticles Supported on Cellulose Nanofibers. *Catalysts*, **2011**, 1, 83-96	4	63
435	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
434	Improvement of nanodispersibility of oven-dried TEMPO-oxidized celluloses in water. *Cellulose*, **2014**, 21, 4093-4103	5.5	62
433	TEMPO-oxidized cellulose nanofibril/poly(vinyl alcohol) composite drawn fibers. *Polymer*, **2013**, 54, 935-941	3.9	62
432	A high degree of homology exists between the protein encoded by SLG and the S receptor domain encoded by SRK in self-incompatible Brassica campestris L. *Plant and Cell Physiology*, **1994**, 35, 1221-9	4.9	62
431	Highly tough and transparent layered composites of nanocellulose and synthetic silicate. *Nanoscale* , **2014**, 6, 392-9	7.7	61
430	SEC-MALS-QELS study on the molecular conformation of cellulose in LiCl/amide solutions. *Biomacromolecules*, **2005**, 6, 1258-65	6.9	61
429	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
428	Molecular mass and molecular-mass distribution of TEMPO-oxidized celluloses and TEMPO-oxidized cellulose nanofibrils. *Biomacromolecules*, **2015**, 16, 675-81	6.9	60
427	Function of the rice gp91phox homologs OsrbohA and OsrbohE genes in ROS-dependent plant immune responses. *Plant Biotechnology*, **2005**, 22, 127-135	1.3	60

426	A new facile methylation method for cell-wall polysaccharides. *Carbohydrate Research*, **1985**, 138, 99-108	2.9	59
425	Cellulose Nanofibers Prepared Using the TEMPO/Laccase/O System. *Biomacromolecules*, **2017**, 18, 288-294	6.9	58
424	TEMPO-mediated oxidation of (1 -3)-d-glucans. *Carbohydrate Polymers*, **2009**, 77, 300-305	10.3	58
423	Comparative characterization of TEMPO-oxidized cellulose nanofibril films prepared from non-wood resources. *International Journal of Biological Macromolecules*, **2013**, 59, 208-13	7.9	57
422	Flagellin from an incompatible strain of Acidovorax avenae mediates H2O2 generation accompanying hypersensitive cell death and expression of PAL, Cht-1, and PBZ1, but not of Lox in rice. *Molecular Plant-Microbe Interactions*, **2003**, 16, 422-8	3.6	57
421	Amorphous celluloses stable in aqueous media: Regeneration from SO2 amine solvent systems. *Journal of Polymer Science Part A*, **1991**, 29, 113-119	2.5	57
420	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
419	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
418	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
417	Topological loading of Cu(I) catalysts onto crystalline cellulose nanofibrils for the Huisgen click reaction. *Journal of Materials Chemistry*, **2012**, 22, 5538		55
416	TEMPO-mediated Oxidation of Native Cellulose: SEC MALLS Analysis of Water-soluble and -Insoluble Fractions in the Oxidized Products. *Cellulose*, **2005**, 12, 305-315	5.5	55
415	Synthesis of bombyxin-IV, an insulin superfamily peptide from the silkworm, Bombyx mori, by stepwise and selective formation of three disulfide bridges. *The Protein Journal*, **1992**, 11, 1-12		55
414	Preparation of Tri-O-alkylcellulose by the use of a nonaqueous cellulose solvent and their physical characteristics. *Journal of Applied Polymer Science*, **1986**, 31, 341-352	2.9	55
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412	Bioinspired stiff and flexible composites of nanocellulose-reinforced amorphous CaCO3. *Materials Horizons*, **2014**, 1, 321	14.4	53
411	Preparation of cellulose-chitosan blend film using chloral/dimethylformamide. *Polymer*, **1994**, 35, 983-987	3.9	53
410	Actin dynamics in papilla cells of Brassica rapa during self- and cross-pollination. *Plant Physiology*, **2007**, 144, 72-81	6.6	52
409	Centromeric localization of an S-RNase gene in Petunia hybrida Vilm. *Theoretical and Applied Genetics*, **1999**, 99, 391-7	6	52

408	Antioxidant activities of a polyglucuronic acid sodium salt obtained from TEMPO-mediated oxidation of xanthan. *Carbohydrate Polymers*, **2015**, 116, 34-41	10.3	50
407	Preparation of cellulose nanofibers using green and sustainable chemistry. *Current Opinion in Green and Sustainable Chemistry*, **2018**, 12, 15-21	7.9	50
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	The S receptor kinase gene determines dominance relationships in stigma expression of self-incompatibility in Brassica. *Plant Journal*, **2001**, 26, 69-76	6.9	50
404	Characterization of polyamideamine-epichlorohydrin (PAE) resin: Roles of azetidinium groups and molecular mass of PAE in wet strength development of paper prepared with PAE. *Journal of Applied Polymer Science*, **2005**, 97, 2249-2255	2.9	49
403	Copper-coordinated cellulose ion conductors for solid-state batteries. *Nature*, **2021**, 598, 590-596	50.4	49
402	Isolation and characterization of pollen coat proteins of Brassica campestris that interact with S locus-related glycoprotein 1 involved in pollen-stigma adhesion. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 3765-70	11.5	49
401	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
400	SECMALLS analysis of cellulose using LiCl/1,3-dimethyl-2-imidazolidinone as an eluent. *Cellulose*, **2004**, 11, 169-176	5.5	48
399	Structure of the male determinant factor for Brassica self-incompatibility. *Journal of Biological Chemistry*, **2003**, 278, 36389-95	5.4	48
398	Molecular mechanism of self-recognition in Brassica self-incompatibility. *Journal of Experimental Botany*, **2003**, 54, 149-56	7	48
397	Linear dominance relationship among four class-II S haplotypes in pollen is determined by the expression of SP11 in Brassica self-incompatibility. *Plant and Cell Physiology*, **2003**, 44, 70-5	4.9	48
396	Calcium signalling mediates self-incompatibility response in the Brassicaceae. *Nature Plants*, **2015**, 1, 15128	11.5	47
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393	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
392	Surface carboxylation of porous regenerated cellulose beads by 4-acetamide-TEMPO/NaClO/NaClO2 system. *Cellulose*, **2009**, 16, 841-851	5.5	45
391	Biochemical and Morphological Features of Rice Cell Death Induced by Pseudomonas avenae. *Plant and Cell Physiology*, **1999**, 40, 1036-1045	4.9	45

390	Properties of poly(acrylamide)/TEMPO-oxidized cellulose nanofibril composite films. *Cellulose*, **2014**, 21, 291-299	5.5	44
389	Regulation of postprandial blood metabolic variables by TEMPO-oxidized cellulose nanofibers. *Biomacromolecules*, **2011**, 12, 3812-8	6.9	44
388	Expression of a bacterial flagellin gene triggers plant immune responses and confers disease resistance in transgenic rice plants. *Molecular Plant Pathology*, **2008**, 9, 525-9	5.7	44
387	Preparation of tri-O-benzylcellulose by the use of nonaqueous cellulose solvents. *Journal of Applied Polymer Science*, **1984**, 29, 2097-2109	2.9	44
386	Low-birefringent and highly tough nanocellulose-reinforced cellulose triacetate. *ACS Applied Materials & Interfaces*, **2015**, 7, 11041-6	9.5	42
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