

# Yoshiyuki Nishio

## List of Publications by Year in descending order

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67  
papers

1,434  
citations

304743

22  
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361022

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68  
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68  
docs citations

68  
times ranked

1211  
citing authors

#	ARTICLE	IF	CITATIONS
1	Material Functionalization of Cellulose and Related Polysaccharides via Diverse Microcompositions. <i>Advances in Polymer Science</i> , 2006, , 97-151.	0.8	121
2	Phosphorylated cellulose propionate derivatives as thermoplastic flame resistant/retardant materials: influence of regioselective phosphorylation on their thermal degradation behaviour. <i>Cellulose</i> , 2010, 17, 963-976.	4.9	77
3	Miscibility and orientation behavior of poly(vinyl alcohol) / poly(vinyl pyrrolidone) blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1990, 28, 355-376.	2.1	76
4	Plasticization of cellulose diacetate by graft copolymerization of $\epsilon$ -caprolactone and lactic acid. <i>Journal of Applied Polymer Science</i> , 2002, 84, 2621-2628.	2.6	65
5	Cellulose alkyl ester/poly( $\mu$ -caprolactone) blends: characterization of miscibility and crystallization behaviour. <i>Cellulose</i> , 2008, 15, 1-16.	4.9	61
6	Cellulose Acetate-graft-Poly(hydroxyalkanoate)s: Synthesis and Dependence of the Thermal Properties on Copolymer Composition. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 1904-1915.	2.2	59
7	Title is missing!. <i>Cellulose</i> , 1997, 4, 131-145.	4.9	56
8	Miscibility of cellulose acetate with vinyl polymers. <i>Cellulose</i> , 2002, 9, 215-223.	4.9	56
9	Structural characteristics and moisture sorption behavior of nylon-6/clay hybrid films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 479-487.	2.1	52
10	Molecular Orientation and Optical Anisotropy in Drawn Films of Miscible Blends Composed of Cellulose Acetate and Poly(N-vinylpyrrolidone-co-methyl methacrylate). <i>Macromolecules</i> , 2007, 40, 3468-3476.	4.8	40
11	Different orientation patterns of cellulose nanocrystal films prepared from aqueous suspensions by shearing under evaporation. <i>Cellulose</i> , 2015, 22, 2983-2992.	4.9	33
12	Synthesis, Characterization, and Gas Permeation Properties of Silylated Derivatives of Ethyl Cellulose. <i>Macromolecules</i> , 2006, 39, 6025-6030.	4.8	32
13	Molecular Structure and Liquid-Crystalline Characteristics of Chitosan Phenylcarbamate. <i>Biomacromolecules</i> , 2009, 10, 166-173.	5.4	32
14	Calcium Phosphate Mineralization in Cellulose Derivative/Poly(acrylic acid) Composites Having a Chiral Nematic Mesomorphic Structure. <i>Biomacromolecules</i> , 2015, 16, 3959-3969.	5.4	32
15	Interaction and Scale of Mixing in Cellulose Acetate/Poly(N-vinyl Pyrrolidone-co-vinyl Acetate) Blends. <i>Cellulose</i> , 2005, 12, 281-291.	4.9	31
16	Estimation of Miscibility and Interaction for Cellulose Acetate and Butyrate Blends with N-Vinylpyrrolidone Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 622-634.	2.2	27
17	Orientation and Birefringence Compensation of Trunk and Graft Chains in Drawn Films of Cellulose Acetate-graft-PMMA Synthesized by ATRP. <i>Macromolecules</i> , 2013, 46, 3074-3083.	4.8	27
18	Liquid Crystals of Cellulosics: Fascinating Ordered Structures for the Design of Functional Material Systems. <i>Advances in Polymer Science</i> , 2015, , 241-286.	0.8	26

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19	Structural Investigations of Liquid-Crystalline Ethylcellulose. <i>Polymer Journal</i> , 1985, 17, 753-760.	2.7	24
20	Cellulose alkyl ester/vinyl polymer blends: effects of butyryl substitution and intramolecular copolymer composition on the miscibility. <i>Cellulose</i> , 2006, 13, 245-259.	4.9	24
21	Synthesis of Novel Fluorescent Cellulose Derivatives and Their Applications in Detection of Nitroaromatic Compounds. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1436-1445.	6.7	24
22	Crystallization Behavior of Poly( $\epsilon$ -caprolactone) Grafted onto Cellulose Alkyl Esters: Effects of Copolymer Composition and Intercomponent Miscibility. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 2135-2146.	2.2	22
23	Rapid Benzoylation of Cellulose in Tetra- <i>n</i> -butylphosphonium Hydroxide Aqueous Solution at Room Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4505-4510.	6.7	22
24	TEMPO-oxidized cellulose nanofiber-reinforced lignin based polyester films as a separator for electric double-layer capacitor. <i>Cellulose</i> , 2019, 26, 569-580.	4.9	22
25	Synthesis of biopolyols by mild oxypropylation of liquefied starch and its application to polyurethane rigid foams. <i>Journal of Applied Polymer Science</i> , 2013, 130, 622-630.	2.6	21
26	Fabrication of thermoplastic ductile films of chitin butyrate/poly( $\epsilon$ -caprolactone) blends and their cytocompatibility. <i>Carbohydrate Polymers</i> , 2014, 114, 330-338.	10.2	20
27	Addition effects of imidazolium salts on mesophase structure and optical properties of concentrated hydroxypropyl cellulose aqueous solutions. <i>Polymer Journal</i> , 2010, 42, 232-241.	2.7	19
28	Calcium carbonate mineralization in chiral mesomorphic order-retaining ethyl cellulose/poly(acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.8	19
29	Crystallization behavior of poly(ethylene oxide) in its blends with cellulose.. <i>Journal of Fiber Science and Technology</i> , 1990, 46, 441-446.	0.0	19
30	Molecular orientation and optical anisotropy in drawn films of cellulose diacetate-graft-PLLA: comparative investigation with poly(vinyl acetate-co-vinyl alcohol)-graft-PLLA. <i>Cellulose</i> , 2011, 18, 539-553.	4.9	17
31	Water-soluble polymer blends with partially deacetylated chitin: A miscibility characterization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 1533-1538.	2.1	15
32	Improvement of dielectric properties of cyanoethyl cellulose via esterification and film stretching. <i>Cellulose</i> , 2016, 23, 765-777.	4.9	15
33	Thermotropic liquid crystalline properties of (hydroxypropyl)cellulose derivatives with butyryl and heptafluorobutyryl substituents. <i>Cellulose</i> , 2019, 26, 399-412.	4.9	14
34	Synthesis and properties of amino acid esters of hydroxypropyl cellulose. <i>Journal of Polymer Science Part A</i> , 2008, 46, 2326-2334.	2.3	12
35	Cellulose acetate/poly(methyl methacrylate) interpenetrating networks: synthesis and estimation of thermal and mechanical properties. <i>Cellulose</i> , 2011, 18, 1441-1454.	4.9	12
36	Chiroptical properties of cholesteric liquid crystals of chitosan phenylcarbamate in ionic liquids. <i>Polymer Journal</i> , 2014, 46, 559-567.	2.7	12

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37	Producing a magnetically anisotropic soft material: synthesis of iron oxide nanoparticles in a carrageenan/PVA matrix and stretching of the hybrid gelatinous bulk. <i>Polymer Journal</i> , 2018, 50, 251-260.	2.7	12
38	Development of Lignin-Based Terpolyester Film and Its Application to Separator Material for Electric Double-Layer Capacitor. <i>Journal of Wood Chemistry and Technology</i> , 2019, 39, 198-213.	1.7	12
39	Preparation and Miscibility Characterization of Chitin/Poly(N-vinyl pyrrolidone) Blends. <i>Journal of Fiber Science and Technology</i> , 1995, 51, 396-399.	0.0	12
40	Regioselectivity in Acetylation of Cellulose in Ionic Liquids. <i>ChemistrySelect</i> , 2016, 1, 2474-2478.	1.5	11
41	Nanoincorporation of iron oxides into carrageenan gels and magnetometric and morphological characterizations of the composite products. <i>Polymer Journal</i> , 2013, 45, 824-833.	2.7	10
42	Liquid-crystalline characteristics of cellulose derivatives: Binary and ternary mixtures of ethyl cellulose, hydroxypropyl cellulose, and acrylic acid. <i>Journal of Macromolecular Science - Physics</i> , 1991, 30, 357-384.	1.0	9
43	Phase study of nylon 6/poly (acrylic acid) blends cast from solutions in aqueous formic acid. <i>Polymer International</i> , 1993, 31, 15-23.	3.1	9
44	Preparation of Thermoplastic Magnetic Wood via Etherification and <i>In-Situ</i> Synthesis of Iron Oxide. <i>Journal of Wood Chemistry and Technology</i> , 2010, 30, 373-381.	1.7	9
45	Cellulose propionate/poly(N-vinyl pyrrolidone-co-vinyl acetate) blends: dependence of the miscibility on propionyl DS and copolymer composition. <i>Cellulose</i> , 2013, 20, 239-252.	4.9	9
46	Synthesis of Hydroxypropyl Derivatives of Chitin and Chitosan and Observation of Phase Behavior of Their Aqueous Solutions. <i>Journal of Fiber Science and Technology</i> , 2000, 56, 435-442.	0.0	8
47	Amino acid- $\epsilon$ -functionalized ethyl cellulose: Synthesis, characterization, and gas permeation properties. <i>Journal of Polymer Science Part A</i> , 2010, 48, 3986-3993.	2.3	8
48	Rapid allylation of cellulose without heating in tetra-n-butylphosphonium hydroxide aqueous solution. <i>Cellulose</i> , 2020, 27, 6887-6896.	4.9	8
49	Enthalpy Relaxation Behavior of Liquid-Crystalline Glasses of an Esterified Cholesterol Derivative and its Complex Salts with Aliphatic Amines. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 357, 27-42.	0.3	7
50	Preparation and chiroptical properties of cellulose chlorophenylcarbamate-silica hybrids having a chiral nematic mesomorphic structure. <i>Polymer</i> , 2019, 173, 172-181.	3.8	7
51	Synthesis of Hydroxypropyl Derivatives of Chitosan and Observation of Phase Behavior of their Aqueous Solutions. <i>Journal of Fiber Science and Technology</i> , 1999, 55, 28-33.	0.0	6
52	Synthesis of $\epsilon$ -(2,3-dihydroxypropyl) cellulose in NaOH/urea aqueous solution: As a precursor for introducing $\epsilon$ -like structure. <i>Journal of Polymer Science Part A</i> , 2013, 51, 3590-3597.	2.3	6
53	CaCO <sub>3</sub> mineralization in polymer composites with cellulose nanocrystals providing a chiral nematic mesomorphic structure. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 783-791.	7.5	6
54	Handedness Inversion in Chiral Nematic (Ethyl)cellulose Solutions: Effects of Substituents and Temperature. <i>Macromolecules</i> , 2021, 54, 6014-6027.	4.8	6

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55	Spectroscopic Studies on the Molecular Interactions in Chitin/Poly(vinyl alcohol) Blends.. Journal of Fiber Science and Technology, 1997, 53, 409-411.	0.0	5
56	Thermal and Mechanical Properties of Collagen/Poly (vinyl alcohol) and Chitosan/Poly (vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 T Technology, 1999, 55, 254-260.	0.0	5
57	Poly(vinyl pyrrolidone- <i>co</i> -vinyl acetate)- <i>graft</i> -poly( $\mu$ -caprolactone) as a compatibilizer for cellulose acetate/poly( $\mu$ -caprolactone) blends. Journal of Applied Polymer Science, 2009, 113, 2945-2954.	2.6	5
58	Synthesis and Structural Characterization of Phenylcarbamate Derivatives of Chitin and Chitosan. Kobunshi Ronbunshu, 2010, 67, 135-142.	0.2	5
59	Superparamagnetic IPN gels of carrageenan/PHEMA excelling in shape retention. Carbohydrate Polymers, 2017, 178, 1-7.	10.2	5
60	Scale of Homogeneous Mixing in Miscible Blends of Organosolv Lignin Esters with Poly( $\mu$ -caprolactone). Journal of Wood Chemistry and Technology, 2010, 30, 330-347.	1.7	4
61	Insight into miscibility behaviour of cellulose ester blends with N-vinyl pyrrolidone copolymers in terms of viscometric interaction parameters. Cellulose, 2015, 22, 2349-2363.	4.9	4
62	Cellulose Acetate. , 2015, , 339-347.		4
63	Glassy State and Glass Transition-Its Elucidation and New Applications. II. Determination of Glass Transition Temperature by Differential Scanning Calorimetry.. Kobunshi Ronbunshu, 1996, 53, 866-868.	0.2	3
64	Mesomorphic glass-forming ionic complexes composed of a cholesterol phthalate and 1-Cn-3-methylimidazolium: phase transition and enthalpy relaxation behavior. Polymer Journal, 2018, 50, 899-909.	2.7	2
65	Immobilization of the Cholesteric Structure Formed by Cellulose Phenylcarbamates and CaCO <sub>3</sub> ; Mineralization in the Liquid-Crystalline Composite Films. Zairyo/Journal of the Society of Materials Science, Japan, 2020, 69, 452-458.	0.2	1
66	Thermal Transition Behavior of Liquid-Crystalline Cholesterol Derivative/Aliphatic Amine Complexes and Enthalpy Relaxation Characteristics in Their Glassy State. Kobunshi Ronbunshu, 2018, 75, 371-380.	0.2	0
67	Addition Effect of Poly( <i>N</i> -Vinyl Pyrrolidone) on the Miscibility of Cellulose Acetate/Poly(Vinyl) Tj ETQq1 1 0.784314 rgBT /Overl 0,2	0.2	0