

Jun Araki

List of Publications by Year in descending order

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51
papers

3,716
citations

279487

23
h-index

168136

53
g-index

55
all docs

55
docs citations

55
times ranked

3675
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow properties of microcrystalline cellulose suspension prepared by acid treatment of native cellulose. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 142, 75-82.	2.3	637
2	Steric Stabilization of a Cellulose Microcrystal Suspension by Poly(ethylene glycol) Grafting. <i>Langmuir</i> , 2001, 17, 21-27.	1.6	615
3	Recent advances in the preparation of cyclodextrin-based polyrotaxanes and their applications to soft materials. <i>Soft Matter</i> , 2007, 3, 1456.	1.2	280
4	Effect of Trace Electrolyte on Liquid Crystal Type of Cellulose Microcrystals. <i>Langmuir</i> , 2001, 17, 4493-4496.	1.6	263
5	Birefringent Glassy Phase of a Cellulose Microcrystal Suspension. <i>Langmuir</i> , 2000, 16, 2413-2415.	1.6	217
6	Influence of surface charge on viscosity behavior of cellulose microcrystal suspension. <i>Journal of Wood Science</i> , 1999, 45, 258-261.	0.9	213
7	Toward "Green Nanocomposites: Polyvinyl Alcohol Reinforced with Extremely Oriented Cellulose Whiskers. <i>Biomacromolecules</i> , 2011, 12, 617-624.	2.6	172
8	Efficient Production of Polyrotaxanes from β -Cyclodextrin and Poly(ethylene glycol). <i>Macromolecules</i> , 2005, 38, 7524-7527.	2.2	166
9	Electrostatic or steric? " preparations and characterizations of well-dispersed systems containing rod-like nanowhiskers of crystalline polysaccharides. <i>Soft Matter</i> , 2013, 9, 4125.	1.2	138
10	Preparation of a "sliding graft copolymer", an organic solvent-soluble polyrotaxane containing mobile side chains, and its application for a crosslinked elastomeric supramolecular film. <i>Soft Matter</i> , 2008, 4, 245-249.	1.2	113
11	Chitin-chitosan nanocomposite gels: reinforcement of chitosan hydrogels with rod-like chitin nanowhiskers. <i>Polymer Journal</i> , 2012, 44, 713-717.	1.3	87
12	Polyrotaxane derivatives. I. Preparation of modified polyrotaxanes with nonionic functional groups and their solubility in organic solvents. <i>Journal of Polymer Science Part A</i> , 2006, 44, 6312-6323.	2.5	79
13	Novel Liquid Crystalline Polyrotaxane with Movable Mesogenic Side Chains. <i>Macromolecules</i> , 2007, 40, 6859-6862.	2.2	62
14	New solvent for polyrotaxane. II. Dissolution behavior of polyrotaxane in ionic liquids and preparation of ionic liquid-containing slide-ring gels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1985-1994.	2.4	59
15	New solvent for polyrotaxane. I. Dimethylacetamide/lithium chloride (DMAc/LiCl) system for modification of polyrotaxane. <i>Journal of Polymer Science Part A</i> , 2006, 44, 532-538.	2.5	55
16	Characterization of the poly(vinyl alcohol)/cellulose whisker gel spun fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 741-747.	3.8	43
17	A preliminary study for fiber spinning of mixed solutions of polyrotaxane and cellulose in a dimethylacetamide/lithium chloride (DMAc/LiCl) solvent system. <i>Polymer</i> , 2006, 47, 8241-8246.	1.8	41
18	Extremely oriented tunicin whiskers in poly(vinyl alcohol) nanocomposites. <i>Polymer International</i> , 2011, 60, 1230-1239.	1.6	30

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19	Preparation of Sterically Stabilized Chitin Nanowhisker Dispersions by Grafting of Poly(ethylene Terephthalate) onto Chitin Nanowhiskers. <i>Journal of Applied Polymer Science</i> , 2013, 107, 1059-1064.	1.7	27
20	Wet spinning of cellulose nanowhiskers; fiber yarns obtained only from colloidal cellulose crystals. <i>Polymer</i> , 2020, 188, 122116.	1.8	26
21	Influence of reagent addition on carbodiimide-mediated amidation for poly(ethylene glycol) grafting. <i>Journal of Applied Polymer Science</i> , 2002, 85, 1349-1352.	1.3	25
22	Determination of sulfur and sulfate half-ester content in cellulose nanocrystals: an interlaboratory comparison. <i>Metrologia</i> , 2018, 55, 872-882.	0.6	25
23	Strongly thixotropic viscosity behavior of dimethylsulfoxide solution of polyrotaxane comprising β -cyclodextrin and low molecular weight poly(ethylene glycol). <i>Polymer</i> , 2007, 48, 7139-7144.	1.8	24
24	Polyrotaxane derivatives. II. Preparation and characterization of ionic polyrotaxanes and ionic slide-ring gels. <i>Journal of Polymer Science Part A</i> , 2011, 49, 2199-2209.	2.5	24
25	Steric Stabilization of Charge-Free Cellulose Nanowhiskers by Grafting of Poly(ethylene glycol). <i>Molecules</i> , 2015, 20, 169-184.	1.7	22
26	Interfacial interaction and mechanical properties of chitin whisker/poly(vinyl alcohol) gel-spun nanocomposite fibers. <i>Polymer International</i> , 2012, 61, 1010-1015.	1.6	21
27	Anionic and cationic nanocomposite hydrogels reinforced with cellulose and chitin nanowhiskers: effect of electrolyte concentration on mechanical properties and swelling behaviors. <i>Polymers for Advanced Technologies</i> , 2014, 25, 1108-1115.	1.6	20
28	Synthesis and Characterization of Polyrotaxane-Amino Acid Conjugates: A New Synthetic Pathway for Amino-Functionalized Polyrotaxanes. <i>Biomacromolecules</i> , 2009, 10, 1947-1954.	2.6	17
29	Synthesis of a molecular rope curtain. Preparation and characterization of a sliding graft copolymer with grafted poly(ethylene glycol) side chains by the grafting onto strategy. <i>Journal of Polymer Science Part A</i> , 2012, 50, 488-494.	2.5	15
30	Surface carboxylation of cellulose nanowhiskers using mPEG-TEMPO: its recovery and recycling. <i>Polymer Journal</i> , 2016, 48, 1029-1033.	1.3	15
31	New solvent for polyrotaxane. III. Dissolution of a poly(ethylene glycol)/cyclodextrin polyrotaxane in a calcium thiocyanate aqueous solution or N-methylmorpholine-N-oxide monohydrate. <i>Journal of Applied Polymer Science</i> , 2007, 105, 2265-2270.	1.3	14
32	Synthesis of a Molecular Tube in Dimethyl Sulfoxide and Its Inclusion Complexation Behavior with Poly(ethylene oxide- <i>ran</i> -propylene oxide). <i>Macromolecules</i> , 2008, 41, 5385-5392.	2.2	11
33	Effect of preparation conditions for poly(ethylene glycol)/cyclodextrin polyrotaxane on modes of end-capping reactions and decomposition of the yielded polyrotaxane. <i>Journal of Polymer Science Part A</i> , 2010, 48, 5258-5264.	2.5	11
34	Comparison of methods for quantitative determination of silver content in cellulose nanowhisker/silver nanoparticle hybrids. <i>Cellulose</i> , 2018, 25, 1065-1076.	2.4	11
35	Molecular Rope Curtain-Type of Liquid Crystals Based on a Sliding Graft Copolymer Having Mobile PEG Side Chains. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 592, 99-105.	0.4	10

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37	Cationic derivative of electrospun non-woven cellulose-chitosan composite fabrics for immobilization of aminoacylase-I. <i>Textile Research Journal</i> , 2013, 83, 1918-1925.	1.1	9
38	Acid- or photo-cleavable polyrotaxane: Subdivision of supramolecular main-chain type polyrotaxane structure induced by acidolysis or photolysis. <i>Polymer</i> , 2017, 125, 134-137.	1.8	9
39	Synthesis of peptide-cellulose conjugate mediated by a soluble cellulose derivative having $\hat{1}^2$ -Ala esters. <i>International Journal of Biological Macromolecules</i> , 2013, 53, 150-159.	3.6	8
40	Liquid-liquid equilibria of polyrotaxane and poly(vinyl alcohol). <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 56, 270-276.	2.5	7
41	Synthesis of peptide-cellulose conjugate mediated by a soluble cellulose derivative having $\hat{1}^2$ -Ala esters (II): conjugates with O-phospho-l-serine-containing peptides. <i>Cellulose</i> , 2013, 20, 365-378.	2.4	7
42	Liquid Crystal-Mediated 3D Printing Process to Fabricate Nano-Ordered Layered Structures. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28627-28638.	4.0	7
43	Amino acid-derivatized slide-ring gels: Chemical crosslinking of polyrotaxane conjugates with different amino acid pendant groups. <i>Polymer</i> , 2015, 74, 133-143.	1.8	6
44	Production of Ultrafine Dry Powders of Surface-intact and Unmodified Cellulose Nanowhiskers via Homogenization in Nonpolar Organic Solvents. <i>Chemistry Letters</i> , 2017, 46, 1438-1441.	0.7	6
45	Preparation of Polyrotaxane Fibers, Part I: Influence of Dope Solvents on the Physical Properties of Wet-spun Polyrotaxane Fibers. <i>Textile Research Journal</i> , 2010, 80, 834-840.	1.1	5
46	Facile preparation of chitin nanowhisker-gold nanocluster hybrids: effect of feeding ratio and surface amino group contents on gold absorption amount. <i>Polymers for Advanced Technologies</i> , 2017, 28, 66-72.	1.6	5
47	Cellulose Nanowhisker/Silver Nanoparticle Hybrids Sterically Stabilized by Surface Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 1.6	1.6	5
48	Dye adsorption revisited: application of the cationic dye adsorption method for the quantitative determination of the acidic surface groups of nanocellulose materials. <i>Cellulose</i> , 2021, 28, 7707-7715.	2.4	4
49	Design and synthesis of peptide-cellulose conjugate molecules -Aspects from energy/steric profiles-. <i>Fibers and Polymers</i> , 2013, 14, 1970-1974.	1.1	2
50	Synthesis of polyrotaxane-glycine conjugates with various degrees of substitution via conjugation with Boc- or Z-glycine and subsequent deprotection. <i>Polymer Journal</i> , 2013, 45, 1081-1086.	1.3	2
51	Surface Modifications of Cellulose Nanocrystals and Their Applications. <i>Kami Pa Gikyoshi/Japan Tappi Journal</i> , 2019, 73, 63-68.	0.1	0