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	Liquid Crystal-Mediated 3D Printing Process to Fabricate Nano-Ordered Layered Structures. ACS Applied Materials & Interfaces, 2021, 13, 28627-28638.	4.0	7
2	Dye adsorption revisited: application of the cationic dye adsorption method for the quantitative determination of the acidic surface groups of nanocellulose materials. Cellulose, 2021, 28, 7707-7715.	2.4	4
3	Wet spinning of cellulose nanowhiskers; fiber yarns obtained only from colloidal cellulose crystals. Polymer, 2020, 188, 122116.	1.8	26
4	Cellulose Nanowhisker/Silver Nanoparticle Hybrids Sterically Stabilized by Surface Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	1.6	5
5	Surface Modifications of Cellulose Nanocrystals and Their Applications. Kami Pa Gikyoshi/Japan Tappi Journal, 2019, 73, 63-68.	0.1	0
6	Comparison of methods for quantitative determination of silver content in cellulose nanowhisker/silver nanoparticle hybrids. Cellulose, 2018, 25, 1065-1076.	2.4	11
7	Determination of sulfur and sulfate half-ester content in cellulose nanocrystals: an interlaboratory comparison. Metrologia, 2018, 55, 872-882.	0.6	25
8	Acid- or photo-cleavable polyrotaxane: Subdivision of supramolecular main-chain type polyrotaxane structure induced by acidolysis or photolysis. Polymer, 2017, 125, 134-137.	1.8	9
9	Production of Ultrafine Dry Powders of Surface-intact and Unmodified Cellulose Nanowhiskers via Homogenization in Nonpolar Organic Solvents. Chemistry Letters, 2017, 46, 1438-1441.	0.7	6
10	Facile preparation of chitin nanowhiskerâ€“gold nanocluster hybrids: effect of feeding ratio and surface amino group contents on gold absorption amount. Polymers for Advanced Technologies, 2017, 28, 66-72.	1.6	5
11	Surface carboxylation of cellulose nanowhiskers using mPEG-TEMPO: its recovery and recycling. Polymer Journal, 2016, 48, 1029-1033.	1.3	15
12	Steric Stabilization of â€œCharge-Freeâ€•Cellulose Nanowhiskers by Grafting of Poly(ethylene glycol). Molecules, 2015, 20, 169-184.	1.7	22
13	Preparation of Sterically Stabilized Chitin Nanowhisker Dispersions by Grafting of Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	2.6	28
14	Amino acid-derivatized slide-ring gels: Chemical crosslinking of polyrotaxane conjugates with different amino acid pendant groups. Polymer, 2015, 74, 133-143.	1.8	6
15	Anionic and cationic nanocomposite hydrogels reinforced with cellulose and chitin nanowhiskers: effect of electrolyte concentration on mechanical properties and swelling behaviors. Polymers for Advanced Technologies, 2014, 25, 1108-1115.	1.6	20
16	â€œMolecular Rope Curtainâ€•Type of Liquid Crystals Based on a Sliding Graft Copolymer Having Mobile PEG Side Chains. Molecular Crystals and Liquid Crystals, 2014, 592, 99-105.	0.4	10
17	Direct Electrospinning of Celluloseâ€“‹scp›C‹/scp›hitosan Composite Nanofiber. Macromolecular Materials and Engineering, 2013, 298, 1059-1064.	1.7	27
18	Design and synthesis of peptide-cellulose conjugate molecules â€”Aspects from energy/steric profilesâ€”. Fibers and Polymers, 2013, 14, 1970-1974.	1.1	2

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19	Electrostatic or steric? â€“ preparations and characterizations of well-dispersed systems containing rod-like nanowhiskers of crystalline polysaccharides. Soft Matter, 2013, 9, 4125.	1.2	138
20	Synthesis of peptideâ€“cellulose conjugate mediated by a soluble cellulose derivative having Î²-Ala esters. International Journal of Biological Macromolecules, 2013, 53, 150-159.	3.6	8
21	Synthesis of peptide-cellulose conjugate mediated by a soluble cellulose derivative having Î²-Ala esters (II): conjugates with O-phospho-l-serine-containing peptides. Cellulose, 2013, 20, 365-378.	2.4	7
22	Cationic derivative of electrospun non-woven cellulose-chitosan composite fabrics for immobilization of aminoacylase-I. Textile Reseach Journal, 2013, 83, 1918-1925.	1.1	9
23	Synthesis of polyrotaxaneâ€“glycine conjugates with various degrees of substitution via conjugation with Boc- or Z-glycine and subsequent deprotection. Polymer Journal, 2013, 45, 1081-1086.	1.3	2
24	Chitin-chitosan nanocomposite gels: reinforcement of chitosan hydrogels with rod-like chitin nanowhiskers. Polymer Journal, 2012, 44, 713-717.	1.3	87
25	Synthesis of a â€œmolecular rope curtainâ€: Preparation and characterization of a sliding graft copolymer with grafted poly(ethylene glycol) side chains by the â€œgrafting ontoâ€•strategy. Journal of Polymer Science Part A, 2012, 50, 488-494.	2.5	15
26	Interfacial interaction and mechanical properties of chitin whiskerâ€“poly(vinyl alcohol) gelâ€spun nanocomposite fibers. Polymer International, 2012, 61, 1010-1015.	1.6	21
27	Toward â€œStrongâ€•Green Nanocomposites: Polyvinyl Alcohol Reinforced with Extremely Oriented Cellulose Whiskers. Biomacromolecules, 2011, 12, 617-624.	2.6	172
28	Characterization of the poly(vinyl alcohol)/cellulose whisker gel spun fibers. Composites Part A: Applied Science and Manufacturing, 2011, 42, 741-747.	3.8	43
29	Polyrotaxane derivatives. II. Preparation and characterization of ionic polyrotaxanes and ionic slideâ€ring gels. Journal of Polymer Science Part A, 2011, 49, 2199-2209.	2.5	24
30	Extremely oriented tunicin whiskers in poly(vinyl alcohol) nanocomposites. Polymer International, 2011, 60, 1230-1239.	1.6	30
31	Effect of preparation conditions for poly(ethylene glycol)/cyclodextrin polyrotaxane on modes of endâ€capping reactions and decomposition of the yielded polyrotaxane. Journal of Polymer Science Part A, 2010, 48, 5258-5264.	2.5	11
32	Preparation of Polyrotaxane Fibers. Part I: Influence of Dope Solvents on the Physical Properties of Wet-spun Polyrotaxane Fibers. Textile Reseach Journal, 2010, 80, 834-840.	1.1	5
33	Synthesis and Characterization of Polyrotaxaneâ^'Amino Acid Conjugates: A New Synthetic Pathway for Amino-Functionalized Polyrotaxanes. Biomacromolecules, 2009, 10, 1947-1954.	2.6	17
34	Synthesis of a Molecular Tube in Dimethyl Sulfoxide and Its Inclusion Complexation Behavior with Poly(ethylene oxide-ran-propylene oxide). Macromolecules, 2008, 41, 5385-5392.	2.2	11
35	Preparation of a â€œsliding graft copolymerâ€: an organic solvent-soluble polyrotaxane containing mobile side chains, and its application for a crosslinked elastomeric supramolecular film. Soft Matter, 2008, 4, 245-249.	1.2	113
36	Novel Liquid Crystalline Polyrotaxane with Movable Mesogenic Side Chains. Macromolecules, 2007, 40, 6859-6862.	2.2	62

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37	Recent advances in the preparation of cyclodextrin-based polyrotaxanes and their applications to soft materials. Soft Matter, 2007, 3, 1456.	1.2	280
38	New solvent for polyrotaxane. III. Dissolution of a poly(ethylene glycol)/cyclodextrin polyrotaxane in a calcium thiocyanate aqueous solution orN-methylmorpholine-N-oxide monohydrate. Journal of Applied Polymer Science, 2007, 105, 2265-2270.	1.3	14
39	Liquidâ€“liquid equilibria of polyrotaxane and poly(vinyl alcohol). Colloids and Surfaces B: Biointerfaces, 2007, 56, 270-276.	2.5	7
40	Strongly thixotropic viscosity behavior of dimethylsulfoxide solution of polyrotaxane comprising Î±-cyclodextrin and low molecular weight poly(ethylene glycol). Polymer, 2007, 48, 7139-7144.	1.8	24
41	Polyrotaxane derivatives. I. Preparation of modified polyrotaxanes with nonionic functional groups and their solubility in organic solvents. Journal of Polymer Science Part A, 2006, 44, 6312-6323.	2.5	79
42	New solvent for polyrotaxane. II. Dissolution behavior of polyrotaxane in ionic liquids and preparation of ionic liquid-containing slide-ring gels. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 1985-1994.	2.4	59
43	New solvent for polyrotaxane. I. Dimethylacetamide/lithium chloride (DMAc/LiCl) system for modification of polyrotaxane. Journal of Polymer Science Part A, 2006, 44, 532-538.	2.5	55
44	A preliminary study for fiber spinning of mixed solutions of polyrotaxane and cellulose in a dimethylacetamide/lithium chloride (DMAc/LiCl) solvent system. Polymer, 2006, 47, 8241-8246.	1.8	41
45	Efficient Production of Polyrotaxanes fromÎ±-Cyclodextrin and Poly(ethylene glycol). Macromolecules, 2005, 38, 7524-7527.	2.2	166
46	Influence of reagent addition on carbodiimide-mediated amidation for poly(ethylene glycol) grafting. Journal of Applied Polymer Science, 2002, 85, 1349-1352.	1.3	25
47	Effect of Trace Electrolyte on Liquid Crystal Type of Cellulose Microcrystals. Langmuir, 2001, 17, 4493-4496.	1.6	263
48	Steric Stabilization of a Cellulose Microcrystal Suspension by Poly(ethylene glycol) Grafting. Langmuir, 2001, 17, 21-27.	1.6	615
49	Birefringent Glassy Phase of a Cellulose Microcrystal Suspension. Langmuir, 2000, 16, 2413-2415.	1.6	217
50	Influence of surface charge on viscosity behavior of cellulose microcrystal suspension. Journal of Wood Science, 1999, 45, 258-261.	0.9	213
51	Flow properties of microcrystalline cellulose suspension prepared by acid treatment of native cellulose. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 142, 75-82.	2.3	637