

Henri Chanzy

List of Publications by Year in descending order

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71
papers

11,707
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43973

48
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95083

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docs citations

73
times ranked

8956
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal Structure and Hydrogen-Bonding System in Cellulose II ₂ from Synchrotron X-ray and Neutron Fiber Diffraction. <i>Journal of the American Chemical Society</i> , 2002, 124, 9074-9082.	6.6	2,231
2	Crystal Structure and Hydrogen Bonding System in Cellulose II ₁ from Synchrotron X-ray and Neutron Fiber Diffraction. <i>Journal of the American Chemical Society</i> , 2003, 125, 14300-14306.	6.6	1,274
3	Electron diffraction study on the two crystalline phases occurring in native cellulose from an algal cell wall. <i>Macromolecules</i> , 1991, 24, 4168-4175.	2.2	738
4	TEMPO-mediated surface oxidation of cellulose whiskers. <i>Cellulose</i> , 2006, 13, 679-687.	2.4	542
5	The double-helical nature of the crystalline part of A-starch. <i>Journal of Molecular Biology</i> , 1988, 201, 365-378.	2.0	541
6	Cellulose, cellulases and cellulosomes. <i>Current Opinion in Structural Biology</i> , 1998, 8, 548-557.	2.6	520
7	Combined infrared and electron diffraction study of the polymorphism of native celluloses. <i>Macromolecules</i> , 1991, 24, 2461-2466.	2.2	500
8	X-ray Structure of Mercerized Cellulose II at 1 Å... Resolution. <i>Biomacromolecules</i> , 2001, 2, 410-416.	2.6	457
9	Chiral nematic suspensions of cellulose crystallites; phase separation and magnetic field orientation. <i>Liquid Crystals</i> , 1994, 16, 127-134.	0.9	416
10	Stable suspensions of partially silylated cellulose whiskers dispersed in organic solvents. <i>Polymer</i> , 2002, 43, 2645-2651.	1.8	396
11	Cellulose III ₁ Crystal Structure and Hydrogen Bonding by Synchrotron X-ray and Neutron Fiber Diffraction. <i>Macromolecules</i> , 2004, 37, 8548-8555.	2.2	267
12	Ultrastructural aspects of the acetylation of cellulose. <i>Cellulose</i> , 1995, 2, 111-127.	2.4	239
13	Title is missing!. <i>Cellulose</i> , 2002, 9, 7-18.	2.4	213
14	Imaging the Enzymatic Digestion of Bacterial Cellulose Ribbons Reveals the Endo Character of the Cellobiohydrolase Cel6A from <i>Humicola insolens</i> and Its Mode of Synergy with Cellobiohydrolase Cel7A. <i>Applied and Environmental Microbiology</i> , 2000, 66, 1444-1452.	1.4	192
15	Undirectional degradation of valonia cellulose microcrystals subjected to cellulase action. <i>FEBS Letters</i> , 1985, 184, 285-288.	1.3	166
16	In Vitro Versus in Vivo Cellulose Microfibrils from Plant Primary Wall Synthases: Structural Differences. <i>Journal of Biological Chemistry</i> , 2002, 277, 36931-36939.	1.6	141
17	High-resolution solid-state carbon-13 nuclear magnetic resonance study of chitin. <i>Macromolecules</i> , 1990, 23, 3576-3583.	2.2	131
18	Details of the Crystalline Ultrastructure of C-Starch Granules Revealed by Synchrotron Microfocus Mapping. <i>Macromolecules</i> , 1998, 31, 6605-6610.	2.2	124

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19	New three-dimensional structure for A-type starch. <i>Macromolecules</i> , 1987, 20, 2634-2636.	2.2	105
20	Synchrotron X-ray structures of cellulose I ^β and regenerated cellulose II at ambient temperature and 100ÅK. <i>Cellulose</i> , 2005, 12, 551-562.	2.4	102
21	The action of 1,4-β-D-glucan cellobiohydrolase on Valonia cellulose microcrystals. <i>FEBS Letters</i> , 1983, 153, 113-118.	1.3	98
22	Optimized mixtures of recombinant <i>Humicola insolens</i> cellulases for the biodegradation of crystalline cellulose. <i>Biotechnology and Bioengineering</i> , 2001, 72, 339-345.	1.7	95
23	Network Formation in Dilute Amylose and Amylopectin Studied by TEM. <i>Macromolecules</i> , 2000, 33, 6416-6422.	2.2	92
24	Negative Diamagnetic Anisotropy and Birefringence of Cellulose Nanocrystals. <i>Macromolecules</i> , 2015, 48, 8844-8857.	2.2	89
25	Solid-state ¹³ C-N.M.R. and electron microscopy study on the reversible cellulose I ^β → cellulose III ^β transformation in Valonia. <i>Carbohydrate Research</i> , 1987, 160, 1-11.	1.1	86
26	Structural data on the intra-crystalline swelling of β ² -chitin. <i>International Journal of Biological Macromolecules</i> , 2000, 28, 81-88.	3.6	83
27	<i>Cassia spectabilis</i> DC seed galactomannan: Structural, crystallographical and rheological studies. <i>Carbohydrate Research</i> , 1998, 306, 231-241.	1.1	82
28	Liquid crystalline suspensions of poly(tetrafluoroethylene) 'whiskers'. <i>Nature</i> , 1988, 333, 55-56.	13.7	81
29	Chitin crystals in arthropod cuticles revealed by diffraction contrast transmission electron microscopy. <i>Journal of Structural Biology</i> , 1990, 103, 232-240.	1.3	77
30	Ultrastructural aspects of phytyglycogen from cryo-transmission electron microscopy and quasi-elastic light scattering data. <i>International Journal of Biological Macromolecules</i> , 1999, 26, 145-150.	3.6	75
31	Molecular and crystal structure of a high-temperature polymorph of chitosan from electron diffraction data. <i>Macromolecules</i> , 1994, 27, 7606-7612.	2.2	74
32	Digestion of crystalline cellulose substrates by the <i>Clostridium thermocellum</i> cellulosome: structural and morphological aspects. <i>Biochemical Journal</i> , 1999, 340, 829-835.	1.7	72
33	Fluorescent Cellulose Microfibrils As Substrate for the Detection of Cellulase Activity. <i>Biomacromolecules</i> , 2003, 4, 481-487.	2.6	71
34	Phosphorolytic synthesis of cellodextrins. <i>Carbohydrate Research</i> , 1995, 271, 217-226.	1.1	70
35	Intracrystalline Deuteration of Native Cellulose. <i>Macromolecules</i> , 1999, 32, 2078-2081.	2.2	70
36	An electron diffraction study of the mannan I crystal and molecular structure. <i>Macromolecules</i> , 1987, 20, 2407-2413.	2.2	69

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37	The Cellulose System in the Cell Wall of <i>Micrasterias</i> . <i>Journal of Structural Biology</i> , 1996, 117, 195-203.	1.3	65
38	Solid-State ¹³ C NMR Study of Na ⁺ Cellulose Complexes. <i>Biomacromolecules</i> , 2007, 8, 2586-2593.	2.6	64
39	Single Crystals of V-Amylose Complexed with 1-Naphthol. <i>Biomacromolecules</i> , 2007, 8, 1319-1326.	2.6	61
40	Single crystals of chitosan. <i>International Journal of Biological Macromolecules</i> , 1990, 12, 289-294.	3.6	60
41	Molecular and Crystal Structure of 7-Fold V-Amylose Complexed with 2-Propanol. <i>Macromolecules</i> , 2010, 43, 8628-8636.	2.2	59
42	Characterization of chitin and chitin synthase from the cellulosic cell wall fungus <i>Saprolegnia monoica</i> . <i>Experimental Mycology</i> , 1992, 16, 8-21.	1.8	58
43	The crystal structure of methyl 2-cellobioside monohydrate 0.25 ethanolate and its relationship to cellulose II. <i>Carbohydrate Research</i> , 1995, 277, 209-229.	1.1	58
44	Biosynthesis of (1 ³)-D-glucan (callose) by detergent extracts of a microsomal fraction from <i>Arabidopsis thaliana</i> . <i>FEBS Journal</i> , 2001, 268, 4628-4638.	0.2	58
45	Single crystals and oriented crystallization of ivory nut mannan. <i>Biopolymers</i> , 1979, 18, 887-898.	1.2	57
46	THE CHITINOUS NATURE OF FILAMENTS EJECTED BY PHAEOCYSTIS (PRYMNESIOPHYCEAE) 1. <i>Journal of Phycology</i> , 1997, 33, 666-672.	1.0	53
47	Structural Study of 1-Chitin from the Grasping Spines of the Arrow Worm (<i>Sagitta</i> spp.). <i>Journal of Structural Biology</i> , 1995, 114, 218-228.	1.3	52
48	Relative susceptibility of the 1 and 2 phases of cellulose towards acetylation. <i>Cellulose</i> , 2000, 7, 119-132.	2.4	52
49	Liquid crystal-type assembly of native cellulose-glucuronoxylans extracted from plant cell wall. <i>Biology of the Cell</i> , 1991, 73, 173-178.	0.7	46
50	On the polarity of cellulose in the cell wall of <i>Valonia</i> . <i>Planta</i> , 1994, 193, 260.	1.6	44
51	Electron crystallography of linear polysaccharides. <i>Journal of Electron Microscopy Technique</i> , 1989, 11, 280-285.	1.1	42
52	High resolution neutron fibre diffraction data on hydrogenated and deuterated cellulose. <i>International Journal of Biological Macromolecules</i> , 1999, 26, 279-283.	3.6	35
53	The structure of celluloses. <i>Powder Diffraction</i> , 2008, 23, 92-95.	0.4	33
54	Helical Conformation in Crystalline Inclusion Complexes of α -Amylose: A Historical Perspective. <i>Macromolecular Symposia</i> , 2011, 303, 1-9.	0.4	31

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55	Morphological and structural aspects of the giant starch granules from <i>Phajus grandifolius</i> . Journal of Structural Biology, 2006, 154, 100-110.	1.3	30
56	Spherulitic Crystallization of Chitosan Oligomers. Langmuir, 1999, 15, 1549-1555.	1.6	26
57	Digestion of crystalline cellulose substrates by the <i>Clostridium thermocellum</i> cellulosome: structural and morphological aspects. Biochemical Journal, 1999, 340, 829.	1.7	24
58	X-ray diffraction studies on some seed galactomannans from India. Carbohydrate Polymers, 1995, 27, 229-233.	5.1	23
59	Fast Intracrystalline Hydration of β -Chitin Revealed by Combined Microdrop Generation and On-Line Synchrotron Radiation Microdiffraction. Biomacromolecules, 2003, 4, 981-986.	2.6	19
60	Title is missing!. Cellulose, 1997, 4, 7-20.	2.4	14
61	Digestion of single crystals of mannan by an endo-mannanase from <i>Trichoderma reesei</i> . FEBS Journal, 2000, 267, 2340-2344.	0.2	8
62	Degradation of Mannan I and II Crystals by Fungal β -1,4-Mannanases and a β -1,4-Mannosidase Studied with Transmission Electron Microscopy. Biomacromolecules, 2001, 2, 694-699.	2.6	8
63	Chitin pleomorphism in the cellulosic cell wall fungus <i>Saprolegnia</i> . FEMS Microbiology Letters, 1992, 100, 405-409.	0.7	8
64	Transmission electron microscopy of cellulose. Part 1: historical perspective. Cellulose, 2019, 26, 5-15.	2.4	6
65	Chitin pleomorphism in the cellulosic cell wall fungus <i>Saprolegnia</i> . FEMS Microbiology Letters, 1992, 100, 405-409.	0.7	5
66	β Chitin from Deep Sea Hydrothermal Vent Worms. , 1992, , 216-224.		5
67	Swelling of Valonia cellulose microfibrils in amine oxide systems. Canadian Journal of Chemistry, 2008, 86, 520-524.	0.6	4
68	Single Crystals of Chitosan. , 1992, , 155-164.		4
69	Preparation of Tunicin Cellulose β Samples for X-ray and Neutron Diffraction. Fibre Diffraction Review, 2003, 11, 75.	0.6	1
70	Characterization and Origin of the Chitin-Protein System in Deep-Sea Hydrothermal Vent Worms. , 1992, , 225-231.		1
71	Analysis of Chitin Biosynthesis. Modern Methods of Plant Analysis, 1996, , 81-94.	0.1	1