

# Yoshiharu Nishiyama

## List of Publications by Year in descending order

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116  
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11609  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Crystal Structure and Hydrogen-Bonding System in Cellulose II 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  | Cellulose Nanofibers Prepared by TEMPO-Mediated Oxidation of Native Cellulose. <i>Biomacromolecules</i> , 2007, 8, 2485-2491.   | 2.6 | 2,015     |
| 3  | Homogeneous Suspensions of Individualized Microfibrils from TEMPO-Catalyzed Oxidation of Native Cellulose. <i>Biomacromolecules</i> , 2006, 7, 1687-1691.   | 2.6 | 1,524     |
| 4  | Crystal Structure and Hydrogen Bonding System in Cellulose II from Synchrotron X-ray and Neutron Fiber Diffraction. <i>Journal of the American Chemical Society</i> , 2003, 125, 14300-14306.       | 6.6 | 1,274     |
| 5  | The Shape and Size Distribution of Crystalline Nanoparticles Prepared by Acid Hydrolysis of Native Cellulose. <i>Biomacromolecules</i> , 2008, 9, 57-65.  | 2.6 | 1,015     |
| 6  | X-ray Structure of Mercerized Cellulose II at 1 Å... Resolution. <i>Biomacromolecules</i> , 2001, 2, 410-416.   | 2.6 | 457       |
| 7  | Structure and properties of the cellulose microfibril. <i>Journal of Wood Science</i> , 2009, 55, 241-249.  | 0.9 | 428       |
| 8  | A Revised Structure and Hydrogen-Bonding System in Cellulose II from a Neutron Fiber Diffraction Analysis. <i>Journal of the American Chemical Society</i> , 1999, 121, 9940-9946.                  | 6.6 | 328       |
| 9  | Nanofibrillar cellulose aerogels. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 240, 63-67.   | 2.3 | 306       |
| 10 | Cellulose III Crystal Structure and Hydrogen Bonding by Synchrotron X-ray and Neutron Fiber Diffraction. <i>Macromolecules</i> , 2004, 37, 8548-8555.   | 2.2 | 267       |
| 11 | Surface acetylation of bacterial cellulose. <i>Cellulose</i> , 2002, 9, 361-367.  | 2.4 | 237       |
| 12 | Surface Acylation of Cellulose Whiskers by Drying Aqueous Emulsion. <i>Biomacromolecules</i> , 2006, 7, 696-700.  | 2.6 | 233       |
| 13 | About the structure of cellulose: debating the Lindman hypothesis. <i>Cellulose</i> , 2012, 19, 589-598.  | 2.4 | 232       |
| 14 | Rheological properties of microfibrillar suspension of TEMPO-oxidized pulp. <i>Cellulose</i> , 2008, 15, 425-433.   | 2.4 | 228       |
| 15 | Periodic Disorder along Ramie Cellulose Microfibrils. <i>Biomacromolecules</i> , 2003, 4, 1013-1017.  | 2.6 | 216       |
| 16 | Neutron Crystallography, Molecular Dynamics, and Quantum Mechanics Studies of the Nature of Hydrogen Bonding in Cellulose I. <i>Biomacromolecules</i> , 2008, 9, 3133-3140.                         | 2.6 | 215       |
| 17 | Common processes drive the thermochemical pretreatment of lignocellulosic biomass. <i>Green Chemistry</i> , 2014, 16, 63-68.  | 4.6 | 198       |
| 18 | Role of the Putative Membrane-Bound Endo-1,4-β-Glucanase KORRIGAN in Cell Elongation and Cellulose Synthesis in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2001, 42, 251-263. | 1.5 | 185       |

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|----|--|-----|-----------|
| 19 | Cellulose Microcrystal Film of High Uniaxial Orientation. <i>Macromolecules</i> , 1997, 30, 6395-6397.   | 2.2 | 180       |
| 20 | Gas-Phase Surface Esterification of Cellulose Microfibrils and Whiskers. <i>Biomacromolecules</i> , 2009, 10, 2144-2151.   | 2.6 | 175       |
| 21 | High-yield Carbonization of Cellulose by Sulfuric Acid Impregnation. <i>Cellulose</i> , 2001, 8, 29-33.  | 2.4 | 158       |
| 22 | Mechanical properties of silk fibroin-microcrystalline cellulose composite films. <i>Journal of Applied Polymer Science</i> , 2002, 86, 3425-3429.   | 1.3 | 157       |
| 23 | Synthesis and Stereocomplex Formation of Star-Shaped Stereoblock Polylactides Consisting of Poly( <i>l</i> -lactide) and Poly( <i>d</i> -lactide) Arms. <i>Macromolecules</i> , 2013, 46, 8509-8518. | 2.2 | 103       |
| 24 | Molecular Imaging of <i>Halocynthia papillosa</i> Cellulose. <i>Journal of Structural Biology</i> , 1998, 124, 42-50.  | 1.3 | 102       |
| 25 | Synchrotron X-ray structures of cellulose I <sup>2</sup> and regenerated cellulose II at ambient temperature and 100Å. <i>Cellulose</i> , 2005, 12, 551-562.   | 2.4 | 102       |
| 26 | Thermal Decomposition of Cellulose Crystallites in Wood. <i>Holzforschung</i> , 2001, 55, 521-524.   | 0.9 | 99        |
| 27 | Controlling molecular conformation of regenerated wild silk fibroin by aqueous ethanol treatment. <i>Polymers for Advanced Technologies</i> , 2003, 14, 694-698.                                     | 1.6 | 95        |
| 28 | X-ray Structure of Ammonia-Cellulose I: New Insights into the Conversion of Cellulose I to Cellulose III. <i>Macromolecules</i> , 2006, 39, 2947-2952.   | 2.2 | 94        |
| 29 | Reorientation of Cellulose Nanowhiskers in Agarose Hydrogels under Tensile Loading. <i>Biomacromolecules</i> , 2012, 13, 850-856.  | 2.6 | 91        |
| 30 | Alkali-Induced Conversion of $\beta$ -Chitin to $\alpha$ -Chitin. <i>Biomacromolecules</i> , 2003, 4, 896-899.   | 2.6 | 87        |
| 31 | Diffraction from nonperiodic models of cellulose crystals. <i>Cellulose</i> , 2012, 19, 319-336.   | 2.4 | 86        |
| 32 | Role of urea in alkaline dissolution of cellulose. <i>Cellulose</i> , 2013, 20, 97-103.  | 2.4 | 81        |
| 33 | Improved Structural Data of Cellulose III Prepared in Supercritical Ammonia. <i>Macromolecules</i> , 2001, 34, 1237-1243.  | 2.2 | 80        |
| 34 | Mechanism of mercerization revealed by X-ray diffraction. <i>Journal of Wood Science</i> , 2000, 46, 452-457.  | 0.9 | 77        |
| 35 | X-ray Structure of Anhydrous $\beta$ -Chitin at 1 Å... Resolution. <i>Macromolecules</i> , 2011, 44, 950-957.  | 2.2 | 76        |
| 36 | Graphitization of highly crystalline cellulose. <i>Carbon</i> , 2001, 39, 1051-1056.   | 5.4 | 75        |

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|----|---|-----|-----------|
| 37 | Intracrystalline Deuteration of Native Cellulose. <i>Macromolecules</i> , 1999, 32, 2078-2081.  | 2.2 | 70        |
| 38 | Microfibrillar carbon from native cellulose. <i>Cellulose</i> , 2004, 11, 475-480.  | 2.4 | 65        |
| 39 | X-ray Crystallographic, Scanning Microprobe X-ray Diffraction, and Cross-Polarized/Magic Angle Spinning <sup>13</sup> C NMR Studies of the Structure of Cellulose III <sub>II</sub> . <i>Biomacromolecules</i> , 2009, 10, 302-309. | 2.6 | 63        |
| 40 | Crystalline and amorphous cellulose in the secondary walls of Arabidopsis. <i>Plant Science</i> , 2012, 193-194, 48-61.   | 1.7 | 62        |
| 41 | All Disordered Regions of Native Cellulose Show Common Low-Frequency Dynamics. <i>Macromolecules</i> , 2000, 33, 1834-1840.   | 2.2 | 61        |
| 42 | Single Crystals of V-Amylose Complexed with Î±-Naphthol. <i>Biomacromolecules</i> , 2007, 8, 1319-1326.   | 2.6 | 61        |
| 43 | Molecular and Crystal Structure of 7-Fold V-Amylose Complexed with 2-Propanol. <i>Macromolecules</i> , 2010, 43, 8628-8636.   | 2.2 | 59        |
| 44 | Structural coarsening of aspen wood by hydrothermal pretreatment monitored by small- and wide-angle scattering of X-rays and neutrons on oriented specimens. <i>Cellulose</i> , 2014, 21, 1015-1024.                                | 2.4 | 56        |
| 45 | Water in Crystalline Fibers of Dihydrate Î²-Chitin Results in Unexpected Absence of Intramolecular Hydrogen Bonding. <i>PLoS ONE</i> , 2012, 7, e39376.   | 1.1 | 55        |
| 46 | Reversible swelling of the cell wall of poplar biomass by ionic liquid at room temperature. <i>Bioresource Technology</i> , 2011, 102, 4518-4523.   | 4.8 | 53        |
| 47 | Molecular interactions in nanocellulose assembly. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170047.   | 1.6 | 52        |
| 48 | Absence of Sum Frequency Generation in Support of Orthorhombic Symmetry of Î±-Chitin. <i>Macromolecules</i> , 2016, 49, 7025-7031.  | 2.2 | 49        |
| 49 | Structure and Thermal Behavior of a Cellulose Î±-Ethylenediamine Complex. <i>Biomacromolecules</i> , 2008, 9, 2898-2904.  | 2.6 | 48        |
| 50 | Looking at hydrogen bonds in cellulose. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 1172-1177.  | 2.5 | 48        |
| 51 | Bâ†A Allomorphic Transition in Native Starch and Amylose Spherocrystals Monitored by In Situ Synchrotron X-ray Diffraction. <i>Biomacromolecules</i> , 2010, 11, 76-87.   | 2.6 | 45        |
| 52 | Cellulose crystals plastify by localized shear. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7260-7265.  | 3.3 | 43        |
| 53 | Inclusion Complex of Î²-Chitin and Aliphatic Amines. <i>Biomacromolecules</i> , 2003, 4, 944-949.   | 2.6 | 42        |
| 54 | The structure of the complex of cellulose I with ethylenediamine by X-ray crystallography and cross-polarization/magic angle spinning <sup>13</sup> C nuclear magnetic resonance. <i>Cellulose</i> , 2009, 16, 943-957.             | 2.4 | 42        |

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|----|--|-----|-----------|
| 55 | Fast and Robust Nanocellulose Width Estimation Using Turbidimetry. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1581-1586.   | 2.0 | 40        |
| 56 | Neutron crystallographic and molecular dynamics studies of the structure of ammonia-cellulose I: rearrangement of hydrogen bonding during the treatment of cellulose with ammonia. <i>Cellulose</i> , 2011, 18, 191-206. | 2.4 | 39        |
| 57 | Direct Determination of the Hydrogen Bonding Arrangement in Anhydrous $\beta$ -D-Glucopyranose by Neutron Fiber Diffraction. <i>Biomacromolecules</i> , 2012, 13, 288-291.   | 2.6 | 39        |
| 58 | Linear, non-linear and plastic bending deformation of cellulose nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19880-19887.  | 1.3 | 39        |
| 59 | Quantification of a tightly adsorbed monolayer of xylan on cellulose surface. <i>Cellulose</i> , 2017, 24, 3725-3739.  | 2.4 | 38        |
| 60 | Nanostructure and Properties of Nacre-Inspired Clay/Cellulose Nanocomposites—Synchrotron X-ray Scattering Analysis. <i>Macromolecules</i> , 2019, 52, 3131-3140.   | 2.2 | 38        |
| 61 | Morphological changes in the cellulose and lignin components of biomass occur at different stages during steam pretreatment. <i>Cellulose</i> , 2014, 21, 873-878.   | 2.4 | 37        |
| 62 | Water cast film formability of sugarcane bagasse xylans favored by side groups. <i>Cellulose</i> , 2020, 27, 7307-7320.  | 2.4 | 37        |
| 63 | 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        |
| 64 | The structure of celluloses. <i>Powder Diffraction</i> , 2008, 23, 92-95.  | 0.4 | 33        |
| 65 | Periodate Oxidation Followed by $\text{NaBH}_4$ Reduction Converts Microfibrillated Cellulose into Sterically Stabilized Neutral Cellulose Nanocrystal Suspensions. <i>Langmuir</i> , 2018, 34, 11066-11075.             | 1.6 | 33        |
| 66 | ORF2 gene involves in the construction of high-order structure of bacterial cellulose. <i>Biochemical and Biophysical Research Communications</i> , 2002, 295, 458-462.  | 1.0 | 32        |
| 67 | Small Angle Neutron Scattering Shows Nanoscale PMMA Distribution in Transparent Wood Biocomposites. <i>Nano Letters</i> , 2021, 21, 2883-2890.   | 4.5 | 32        |
| 68 | Surface Esterification of Cellulose by Vapor-Phase Treatment With Trifluoroacetic Anhydride. <i>Cellulose</i> , 2005, 12, 543-549.   | 2.4 | 31        |
| 69 | Influence of finishing oil on structure and properties of multi-filament fibers from cellulose dope in NaOH/urea aqueous solution. <i>Cellulose</i> , 2008, 15, 81-89.   | 2.4 | 31        |
| 70 | Helical Conformation in Crystalline Inclusion Complexes of $\alpha$ -D-Glucopyranose: A Historical Perspective. <i>Macromolecular Symposia</i> , 2011, 303, 1-9.   | 0.4 | 31        |
| 71 | Time-resolved X-ray diffraction microprobe studies of the conversion of cellulose I to ethylenediamine-cellulose I. <i>Cellulose</i> , 2010, 17, 735-745.  | 2.4 | 30        |
| 72 | $\beta$ -D-Glucopyranose transition of cellulose under ultrasonic radiation. <i>Cellulose</i> , 2013, 20, 597-603.   | 2.4 | 30        |

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|----|---|-----|-----------|
| 73 | X-ray crystal structure of anhydrous chitosan at atomic resolution. <i>Biopolymers</i> , 2016, 105, 361-368.  | 1.2 | 30        |
| 74 | Alternative hydrogen bond models of cellulose II and III based on molecular force-fields and density functional theory. <i>Cellulose</i> , 2015, 22, 1485-1493.   | 2.4 | 29        |
| 75 | Hydrothermal Transformation of Wood Cellulose Crystals into Pseudo-Orthorhombic Structure by Cocrystallization. <i>ACS Macro Letters</i> , 2016, 5, 730-734.  | 2.3 | 29        |
| 76 | Supramolecular Structure and Properties of High Strength Regenerated Cellulose Films. <i>Macromolecular Bioscience</i> , 2009, 9, 29-35.  | 2.1 | 28        |
| 77 | Translational Entropy and Dispersion Energy Jointly Drive the Adsorption of Urea to Cellulose. <i>Journal of Physical Chemistry B</i> , 2017, 121, 2244-2251.   | 1.2 | 28        |
| 78 | Morphological changes of ramie fiber during mercerization. <i>Journal of Wood Science</i> , 1998, 44, 310-313.  | 0.9 | 26        |
| 79 | Poly(ethylene glycol) Hydroxystearate-Based Nanosized Emulsions: Effect of Surfactant Concentration on Their Formation and Ability to Solubilize Quercetin. <i>Journal of Biomedical Nanotechnology</i> , 2012, 8, 202-210. | 0.5 | 26        |
| 80 | Diversity of potential hydrogen bonds in cellulose I revealed by molecular dynamics simulation. <i>Cellulose</i> , 2014, 21, 897-908.   | 2.4 | 26        |
| 81 | Ensemble evaluation of polydisperse nanocellulose dimensions: rheology, electron microscopy, X-ray scattering and turbidimetry. <i>Cellulose</i> , 2017, 24, 3231-3242.   | 2.4 | 24        |
| 82 | Evaluation of hydrogen bond networks in cellulose I <sup>2</sup> and II crystals using density functional theory and Car-Parrinello molecular dynamics. <i>Carbohydrate Research</i> , 2017, 449, 103-113.                  | 1.1 | 24        |
| 83 | Torsional Entropy at the Origin of the Reversible Temperature-Induced Phase Transition of Cellulose. <i>Macromolecules</i> , 2012, 45, 362-368.   | 2.2 | 23        |
| 84 | Guest Selectivity in Complexation of I <sup>2</sup> -Chitin. <i>Macromolecules</i> , 2004, 37, 6839-6842.   | 2.2 | 22        |
| 85 | Complexation of I <sup>±</sup> -Chitin with Aliphatic Amines. <i>Biomacromolecules</i> , 2005, 6, 2362-2364.  | 2.6 | 22        |
| 86 | Atomic partial charges and one Lennard-Jones parameter crucial to model cellulose allomorphs. <i>Cellulose</i> , 2014, 21, 2207-2217.   | 2.4 | 22        |
| 87 | 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.                                 | 3.2 | 22        |
| 88 | Hydrogen-bonding network in anhydrous chitosan from neutron crystallography and periodic density functional theory calculations. <i>Carbohydrate Polymers</i> , 2019, 207, 211-217.   | 5.1 | 21        |
| 89 | Bottom-up Construction of Xylan Nanocrystals in Dimethyl Sulfoxide. <i>Biomacromolecules</i> , 2021, 22, 898-906.   | 2.6 | 20        |
| 90 | Structure and dynamics of a complex of cellulose with EDA: insights into the action of amines on cellulose. <i>Cellulose</i> , 2013, 20, 1563-1571.   | 2.4 | 18        |

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|-----|--|-----|-----------|
| 91  | The crystal structure of mono-ethylenediamine $\beta$ -chitin from synchrotron X-ray fiber diffraction. <i>Carbohydrate Polymers</i> , 2013, 92, 1737-1742.  | 5.1 | 18        |
| 92  | Water-induced crystallization and nano-scale spinodal decomposition of cellulose in NMMO and ionic liquid dope. <i>Cellulose</i> , 2019, 26, 281-289.  | 2.4 | 18        |
| 93  | Drying-induced bending deformation of cellulose nanocrystals studied by molecular dynamics simulations. <i>Cellulose</i> , 2020, 27, 9779-9786.  | 2.4 | 18        |
| 94  | Recyclable nanocomposites of well-dispersed 2D layered silicates in cellulose nanofibril (CNF) matrix. <i>Carbohydrate Polymers</i> , 2022, 279, 119004.   | 5.1 | 17        |
| 95  | Crystal and molecular structure of V-amylose complexed with ibuprofen. <i>Carbohydrate Polymers</i> , 2021, 261, 117885.   | 5.1 | 16        |
| 96  | The initial structure of cellulose during ammonia pretreatment. <i>Cellulose</i> , 2014, 21, 1117-1126.  | 2.4 | 14        |
| 97  | $\beta$ to $\beta$ mechano-conversion and amorphization in native cellulose simulated by crystal bending. <i>Cellulose</i> , 2018, 25, 4345-4355.  | 2.4 | 14        |
| 98  | Origin of hydrophilicity of cellulose hydrogel from aqueous LiOH/urea solvent coagulated with alkyl alcohols. <i>Cellulose</i> , 2014, 21, 1043-1050.  | 2.4 | 13        |
| 99  | Distinguishing Mesoscale Polar Order (Unidirectional vs Bidirectional) of Cellulose Microfibrils in Plant Cell Walls Using Sum Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8071-8081. | 1.2 | 13        |
| 100 | Time-Dependent Elastic Tensor of Cellulose Nanocrystal Probed by Hydrostatic Pressure and Uniaxial Stretching. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3779-3785.   | 2.1 | 12        |
| 101 | Quantifying the influence of dispersion interactions on the elastic properties of crystalline cellulose. <i>Cellulose</i> , 2021, 28, 10777-10786.   | 2.4 | 12        |
| 102 | Process-dependent nanostructures of regenerated cellulose fibres revealed by small angle neutron scattering. <i>Polymer</i> , 2021, 218, 123510.   | 1.8 | 11        |
| 103 | The molecular structure and solution conformation of an acidic heteropolysaccharide from <i>Auricularia auricula</i> . <i>Biopolymers</i> , 2011, 95, 217-227.   | 1.2 | 10        |
| 104 | X-ray texture analysis indicates downward spinning of chitin microfibrils in tubeworm tube. <i>Journal of Structural Biology</i> , 2013, 184, 212-216.   | 1.3 | 10        |
| 105 | Oligocellulose from acid hydrolysis: A revisit. <i>Applied Surface Science</i> , 2021, 537, 147783.  | 3.1 | 9         |
| 106 | Competing Molecular Packing of Blocks in a Lamella-Forming Carbohydrate- <i>block</i> -poly(3-hexylthiophene) Copolymer. <i>Macromolecules</i> , 2020, 53, 9054-9064.  | 2.2 | 8         |
| 107 | Twisted pseudo-tetragonal orthorhombic lamellar crystal in cellulose/ionic liquid spherulite. <i>Cellulose</i> , 2020, 27, 5449-5455.  | 2.4 | 8         |
| 108 | Quantifying the Contribution of the Dispersion Interaction and Hydrogen Bonding to the Anisotropic Elastic Properties of Chitin and Chitosan. <i>Biomacromolecules</i> , 2022, 23, 1633-1642.                                    | 2.6 | 7         |

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|-----|---|-----|-----------|
| 109 | Molecular Interactions in an $\alpha$ -Chitin/Hydrazine Complex: Dynamic Hydrogen Bonds and Improvement of Polymeric Crystallinity. <i>Crystal Growth and Design</i> , 2016, 16, 3345-3352. | 1.4 | 6         |
| 110 | Solvent molecular interactions observed in crystal structures of $\beta$ -chitin complexes. <i>Cellulose</i> , 2014, 21, 1007-1014.   | 2.4 | 5         |
| 111 | Solvent-Assisted Fractionation of Oligomeric Cellulose and Reversible Transformation of Cellulose II and IV. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4792-4797.          | 2.6 | 4         |
| 112 | Fivefold Helical Cellulose Trapped in a Sulfuric Acid Framework. <i>Crystal Growth and Design</i> , 2022, 22, 20-25.  | 1.4 | 4         |
| 113 | Direct Evidence for Aligned Binding of Cellulase Enzymes to Cellulose Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10684-10688.                                       | 2.1 | 3         |
| 114 | Intermediate States of Aqueous Solution of Agarose on Quasi-Static Cooling. <i>Journal of Fiber Science and Technology</i> , 2005, 61, 191-195.   | 0.0 | 2         |
| 115 | Surface sulfation of crab chitin for anisotropic swelling and nanodispersion. <i>Cellulose</i> , 2022, 29, 7099-7109.   | 2.4 | 2         |
| 116 | Combining computational and experimental studies for a better understanding of cellulose and its analogs. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2021, 80, 1-14.      | 0.4 | 1         |