Tiina NypelÃ¶

List of Publications by Year
in descending order

39 papers	1,475 citations	430442 18 h-index	329751 37 g-index
39 all docs	39 docs citations	39 times ranked	2120 citing authors

#	Article	IF	Citations
1	Nanocellulose properties and applications in colloids and interfaces. Current Opinion in Colloid and Interface Science, 2014, 19, 383-396.	3.4	501
2	Cellulose Nanofibrils. Journal of Renewable Materials, 2013, 1, 195-211.	1.1	152
3	Synthesis and Characterization of Periodate-Oxidized Polysaccharides: Dialdehyde Xylan (DAX). Biomacromolecules, 2016, 17, 2972-2980.	2.6	87
4	Review: Periodate oxidation of wood polysaccharidesâ€"Modulation of hierarchies. Carbohydrate Polymers, 2021, 252, 117105.	5.1	69
5	Magneto-responsive hybrid materials based on cellulose nanocrystals. Cellulose, 2014, 21, 2557-2566.	2.4	61
6	Cellulose Nanocrystal Liquid Crystal Phases: Progress and Challenges in Characterization Using Rheology Coupled to Optics, Scattering, and Spectroscopy. ACS Nano, 2021, 15, 7931-7945.	7.3	60
7	Microbeads and Hollow Microcapsules Obtained by Self-Assembly of Pickering Magneto-Responsive Cellulose Nanocrystals. ACS Applied Materials & Interfaces, 2014, 6, 16851-16858.	4.0	57
8	Synthesis of redispersible spherical cellulose II nanoparticles decorated with carboxylate groups. Green Chemistry, 2016, 18, 1465-1468.	4.6	46
9	Etherification of Wood-Based Hemicelluloses for Interfacial Activity. Biomacromolecules, 2016, 17, 1894-1901.	2.6	41
10	Interactions between inorganic nanoparticles and cellulose nanofibrils. Cellulose, 2012, 19, 779-792.	2.4	34
11	2D Assignment and quantitative analysis of cellulose and oxidized celluloses using solution-state NMR spectroscopy. Cellulose, 2020, 27, 7929-7953.	2.4	34
12	Self-Standing Nanocellulose Janus-Type Films with Aldehyde and Carboxyl Functionalities. Biomacromolecules, 2018, 19, 973-979.	2.6	30
13	Thixotropy of cellulose nanocrystal suspensions. Journal of Rheology, 2021, 65, 1035-1052.	1.3	28
14	Double emulsions for the compatibilization of hydrophilic nanocellulose with non-polar polymers and validation in the synthesis of composite fibers. Soft Matter, 2016, 12, 2721-2728.	1.2	25
15	Fundamental aspects of the non-covalent modification of cellulose via polymer adsorption. Advances in Colloid and Interface Science, 2021, 298, 102529.	7.0	24
16	Unexpected microphase transitions in flow towards nematic order of cellulose nanocrystals. Cellulose, 2020, 27, 2003-2014.	2.4	21
17	The Exo-Polysaccharide Component of Extracellular Matrix is Essential for the Viscoelastic Properties of Bacillus subtilis Biofilms. International Journal of Molecular Sciences, 2020, 21, 6755.	1.8	21
18	Tailoring Surface Properties of Paper Using Nanosized Precipitated Calcium Carbonate Particles. ACS Applied Materials & Interfaces, 2011, 3, 3725-3731.	4.0	20

#	Article	IF	Citations
19	Modification of xylan via an oxidationâ€“reduction reaction. Carbohydrate Polymers, 2022, 292, 119660.	5.1	16
20	Conversion of wood-biopolymers into macrofibers with tunable surface energy via dry-jet wet-spinning. Cellulose, 2018, 25, 5297-5307.	2.4	15
21	The effect of sulfate half-ester groups on cellulose nanocrystal periodate oxidation. Cellulose, 2021, 28, 9633-9644.	2.4	15
22	Submicron hierarchy of cellulose nanofibril films with etherified hemicelluloses. Carbohydrate Polymers, 2017, 177, 126-134.	5.1	13
23	How cellulose nanofibrils and cellulose microparticles impact paper strengthâ€"A visualization approach. Carbohydrate Polymers, 2021, 254, 117406.	5.1	12
24	Self-Standing, Robust Membranes Made of Cellulose Nanocrystals (CNCs) and a Protic Ionic Liquid: Toward Sustainable Electrolytes for Fuel Cells. ACS Applied Energy Materials, 2021, 4, 6474-6485.	2.5	12
25	Phase transitions of cellulose nanocrystal suspensions from nonlinear oscillatory shear. Cellulose, 2022, 29, 3655-3673.	2.4	10
26	Adhesion properties of regenerated lignocellulosic fibres towards poly(lactic acid) microspheres assessed by colloidal probe technique. Journal of Colloid and Interface Science, 2018, 532, 819-829.	5.0	9
27	Oxidized xylan additive for nanocellulose films â€" A swelling modifier. International Journal of Biological Macromolecules, 2021, 180, 753-759.	3.6	9
28	Differences in surface chemistry of regenerated lignocellulose fibers determined by chemically sensitive scanning probe microscopy. International Journal of Biological Macromolecules, 2020, 165, 2520-2527.	3.6	8
29	Magnetic cellulose: does extending cellulose versatility with magnetic functionality facilitate its use in devices?. Journal of Materials Chemistry C, 2022, 10, 805-818.	2.7	8
30	Calcium Ion-Induced Structural Changes in Carboxymethylcellulose Solutions and Their Effects on Adsorption on Cellulose Surfaces. Biomacromolecules, 2022, 23, 47-56.	2.6	8
31	Effect of plasticizers and polymer blends for processing softwood kraft lignin as carbon fiber precursors. Cellulose, 2021, 28, 1039-1053.	2.4	7
32	Design of Friction, Morphology, Wetting, and Protein Affinity by Cellulose Blend Thin Film Composition. Frontiers in Chemistry, 2019, 7, 239.	1.8	6
33	Xylan-cellulose thin film platform for assessing xylanase activity. Carbohydrate Polymers, 2022, 294, 119737.	5.1	6
34	Chemical Engineering Laboratory Projects in Student Teams in Real Life and Transformed Online: Viscose Fiber Spinning and Characterization. Journal of Chemical Education, 2021, 98, 1776-1782.	1.1	3
35	Fat tissue equivalent phantoms for microwave applications by reinforcing gelatin with nanocellulose. Biomedical Physics and Engineering Express, 2021, 7, 065025.	0.6	3
36	Current Opportunities and Challenges in Biopolymer Thin Film Analysisâ€"Determination of Film Thickness. Frontiers in Chemical Engineering, 2021, 3, .	1.3	3

#	Article	IF	Citations
37	Editorial: Biopolymer Thin Films and Coatings. Frontiers in Chemistry, 2019, 7, 736.	1.8	1
38	Lignocellulosics and Their Use in Functional Materials and Nanotechnology. , 2020, , 1-16.		0
39	N2Oâ€"Assisted Siphon Foaming of Modified Galactoglucomannans With Cellulose Nanofibers. Frontiers in Chemical Engineering, 2021, 3, .	1.3	0