

Henrikki Liimatainen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113
papers

4,367
citations

38
h-index

63
g-index

119
ext. papers

5,174
ext. citations

7.3
avg, IF

6.12
L-index

#	Paper	IF	Citations
113	Wood-based composite materials for ultralight lens antennas in 6G systems. <i>Materials Advances</i> , 2022 , 3, 1687-1694	3.3	2
112	Adjustable hydro-thermochromic green nanofoams and films obtained from shapable hybrids of cellulose nanofibrils and ionic liquids for smart packaging. <i>Chemical Engineering Journal</i> , 2022 , 136369	14.7	0
111	Size exclusion and affinity-based removal of nanoparticles with electrospun cellulose acetate membranes infused with functionalized cellulose nanocrystals. <i>Materials and Design</i> , 2022 , 217, 110654	8.1	1
110	Nanostructured and Advanced Designs from Biomass and Mineral Residues: Multifunctional Biopolymer Hydrogels and Hybrid Films Reinforced with Exfoliated Mica Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 57841-57850	9.5	0
109	Hydrophobic modification of nanocellulose and all-cellulose composite films using deep eutectic solvent as a reaction medium. <i>Cellulose</i> , 2021 , 28, 5433	5.5	3
108	One-Step Twin-Screw Extrusion Process to Fibrillate Deep Eutectic Solvent-Treated Wood to Be Used in Wood Fiber-Polypropylene Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 883-893	8.3	7
107	Fast and Filtration-Free Method to Prepare Lactic Acid-Modified Cellulose Nanopaper. <i>ACS Omega</i> , 2021 , 6, 19038-19044	3.9	0
106	High-performance and sustainable aerosol filters based on hierarchical and crosslinked nanofoams of cellulose nanofibers. <i>Journal of Cleaner Production</i> , 2021 , 310, 127498	10.3	10
105	Energy consumption, physical properties and reinforcing ability of microfibrillated cellulose with high lignin content made from non-delignified spruce and pine sawdust. <i>Industrial Crops and Products</i> , 2021 , 170, 113738	5.9	0
104	Water-resistant nanopaper with tunable water barrier and mechanical properties from assembled complexes of oppositely charged cellulosic nanomaterials. <i>Food Hydrocolloids</i> , 2021 , 120, 106983	10.6	1
103	Comparison of Lignin Fractions Isolated from Wheat Straw Using Alkaline and Acidic Deep Eutectic Solvents. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 15074-15084	5.7	14
102	Zwitterionic hybrid aerobeads of binary metal organic frameworks and cellulose nanofibers for removal anionic pollutants. <i>Materials and Design</i> , 2020 , 196, 109106	8.1	18
101	Self-assembly of graphene oxide and cellulose nanocrystals into continuous filament via interfacial nanoparticle complexation. <i>Materials and Design</i> , 2020 , 193, 108791	8.1	10
100	Surface Modification of Cured Inorganic Foams with Cationic Cellulose Nanocrystals and Their Use as Reactive Filter Media for Anionic Dye Removal. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27745-27757	8.5	15
99	Enhancement of the nanofibrillation of birch cellulose pretreated with natural deep eutectic solvent. <i>Industrial Crops and Products</i> , 2020 , 154, 112677	5.9	15
98	Efficient Hydrolysis of Chitin in a Deep Eutectic Solvent Synergism for Production of Chitin Nanocrystals. <i>Nanomaterials</i> , 2020 , 10,	5.4	10
97	Comparison of acidic deep eutectic solvents in production of chitin nanocrystals. <i>Carbohydrate Polymers</i> , 2020 , 236, 116095	10.3	27

96	Enhancing packaging board properties using micro- and nanofibers prepared from recycled board. <i>Cellulose</i> , 2020 , 27, 7215-7225	5.5	3
95	High-strength cellulose nanofibers produced via swelling pretreatment based on a choline chlorideimidazole deep eutectic solvent. <i>Green Chemistry</i> , 2020 , 22, 1763-1775	10	27
94	Conductive hybrid filaments of carbon nanotubes, chitin nanocrystals and cellulose nanofibers formed by interfacial nanoparticle complexation. <i>Materials and Design</i> , 2020 , 191, 108594	8.1	10
93	Production and characterization of lignin containing nanocellulose from luffa through an acidic deep eutectic solvent treatment and systematic fractionation. <i>Industrial Crops and Products</i> , 2020 , 143, 111913	5.9	48
92	Adsorption of bark derived polyphenols onto functionalized nanocellulose: Equilibrium modeling and kinetics. <i>AIChE Journal</i> , 2020 , 66, e16823	3.6	3
91	A stretchable and compressible ion gel based on a deep eutectic solvent applied as a strain sensor and electrolyte for supercapacitors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 550-560	7.1	56
90	Interfacial Nanoparticle Complexation of Oppositely Charged Nanocelluloses into Functional Filaments with Conductive, Drug Release, or Antimicrobial Property. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1765-1774	9.5	7
89	Acidic and alkaline deep eutectic solvents in delignification and nanofibrillation of corn stalk, wheat straw, and rapeseed stem residues. <i>Industrial Crops and Products</i> , 2020 , 145, 111956	5.9	36
88	Ultra-low permittivity porous silica-cellulose nanocomposite substrates for 6G telecommunication. <i>Nanotechnology</i> , 2020 , 31, 435203	3.4	10
87	Surface analysis of tissue paper using laser scanning confocal microscopy and micro-computed topography. <i>Cellulose</i> , 2020 , 27, 8989-9003	5.5	2
86	Magnetic superabsorbents based on nanocellulose aerobeads for selective removal of oils and organic solvents. <i>Materials and Design</i> , 2019 , 183, 108115	8.1	21
85	Key role of mild sulfonation of pine sawdust in the production of lignin containing microfibrillated cellulose by ultrafine wet grinding. <i>Industrial Crops and Products</i> , 2019 , 140, 111664	5.9	16
84	Anti-oxidative and UV-absorbing biohybrid film of cellulose nanofibrils and tannin extract. <i>Food Hydrocolloids</i> , 2019 , 92, 208-217	10.6	39
83	Preparation of flame-retardant lignin-containing wood nanofibers using a high-consistency mechano-chemical pretreatment. <i>Chemical Engineering Journal</i> , 2019 , 375, 122050	14.7	32
82	Efficient entrapment and separation of anionic pollutants from aqueous solutions by sequential combination of cellulose nanofibrils and halloysite nanotubes. <i>Chemical Engineering Journal</i> , 2019 , 374, 1013-1024	14.7	11
81	Self-assembled nanofibrils from RGD-functionalized cellulose nanocrystals to improve the performance of PEI/DNA polyplexes. <i>Journal of Colloid and Interface Science</i> , 2019 , 553, 71-82	9.3	9
80	Choline chloride-zinc chloride deep eutectic solvent mediated preparation of partial O-acetylation of chitin nanocrystal in one step reaction. <i>Carbohydrate Polymers</i> , 2019 , 220, 211-218	10.3	24
79	Solid AirFlow Temperature Manufacturing of Ultra-Low Permittivity Composite Materials for Future Telecommunication Systems. <i>Frontiers in Materials</i> , 2019 , 6,	4	4

78	Hybrid films of cellulose nanofibrils, chitosan and nanosilica-Structural, thermal, optical, and mechanical properties. <i>Carbohydrate Polymers</i> , 2019 , 218, 87-94	10.3	15
77	Determination of nanoparticle size using Rayleigh approximation and Mie theory. <i>Chemical Engineering Science</i> , 2019 , 201, 222-229	4.4	14
76	New Training to Meet the Global Phosphorus Challenge. <i>Environmental Science & Technology</i> , 2019 , 53, 8479-8481	10.3	19
75	Determining the complex refractive index of cellulose nanocrystals by combination of Beer-Lambert and immersion matching methods. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 235, 1-6	2.1	23
74	Monitoring drying process of varnish by immersion solid matching method. <i>Progress in Organic Coatings</i> , 2019 , 136, 105299	4.8	1
73	Comprehensive NMR Analysis of Pore Structures in Superabsorbing Cellulose Nanofiber Aerogels. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 30986-30995	3.8	11
72	Superabsorbent Aerogels from Cellulose Nanofibril Hydrogels. <i>Polymers and Polymeric Composites</i> , 2019 , 575-600	0.6	
71	Direct sulfation of cellulose fibers using a reactive deep eutectic solvent to produce highly charged cellulose nanofibers. <i>Cellulose</i> , 2019 , 26, 2303-2316	5.5	62
70	Carboxymethyl Chitosan and Its Hydrophobically Modified Derivative as pH-Switchable Emulsifiers. <i>Langmuir</i> , 2018 , 34, 2800-2806	4	44
69	Facile synthesis of palladium and gold nanoparticles by using dialdehyde nanocellulose as template and reducing agent. <i>Carbohydrate Polymers</i> , 2018 , 186, 132-139	10.3	38
68	Effect of Cellulose Nanofibrils on the Bond Strength of Polyvinyl Acetate and Starch Adhesives for Wood. <i>BioResources</i> , 2018 , 13,	1.3	17
67	Recyclable deep eutectic solvent for the production of cationic nanocelluloses. <i>Carbohydrate Polymers</i> , 2018 , 199, 219-227	10.3	55
66	Hierarchical Assembly of Nanocellulose-Based Filaments by Interfacial Complexation. <i>Small</i> , 2018 , 14, e1801937	11	30
65	Effect of plasticizers on the mechanical and thermomechanical properties of cellulose-based biocomposite films. <i>Industrial Crops and Products</i> , 2018 , 122, 513-521	5.9	25
64	Polyion complex hydrogels from chemically modified cellulose nanofibrils: Structure-function relationship and potential for controlled and pH-responsive release of doxorubicin. <i>Acta Biomaterialia</i> , 2018 , 75, 346-357	10.8	31
63	Preparation of cellulose nanocrystals from lignin-rich reject material for oil emulsification in an aqueous environment. <i>Cellulose</i> , 2018 , 25, 293-304	5.5	12
62	Emulsion Stabilization with Functionalized Cellulose Nanoparticles Fabricated Using Deep Eutectic Solvents. <i>Molecules</i> , 2018 , 23,	4.8	18
61	Rapid uptake of pharmaceutical salbutamol from aqueous solutions with anionic cellulose nanofibrils: The importance of pH and colloidal stability in the interaction with ionizable pollutants. <i>Chemical Engineering Journal</i> , 2018 , 350, 378-385	14.7	26

60	Superabsorbent Aerogels from Cellulose Nanofibril Hydrogels. <i>Polymers and Polymeric Composites</i> , 2018 , 1-26	0.6	1
59	The pH sensitive properties of carboxymethyl chitosan nanoparticles cross-linked with calcium ions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 153, 229-236	6	84
58	Sustainable stabilization of oil in water emulsions by cellulose nanocrystals synthesized from deep eutectic solvents. <i>Cellulose</i> , 2017 , 24, 1679-1689	5.5	50
57	Castor oil-based biopolyurethane reinforced with wood microfibrils derived from mechanical pulp. <i>Cellulose</i> , 2017 , 24, 2531-2543	5.5	6
56	Nanofibrillation of deep eutectic solvent-treated paper and board cellulose pulps. <i>Carbohydrate Polymers</i> , 2017 , 169, 167-175	10.3	46
55	Cellulose Nanofibrils from Nonderivatizing Urea-Based Deep Eutectic Solvent Pretreatments. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2846-2855	9.5	92
54	Mechanical fabrication of high-strength and redispersible wood nanofibers from unbleached groundwood pulp. <i>Cellulose</i> , 2017 , 24, 4173-4187	5.5	42
53	Hydrophobic, Superabsorbing Aerogels from Choline Chloride-Based Deep Eutectic Solvent Pretreated and Silylated Cellulose Nanofibrils for Selective Oil Removal. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25029-25037	9.5	131
52	Cationic nanocelluloses in dewatering of municipal activated sludge. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 86-92	6.8	25
51	Weighing the factors behind enzymatic hydrolyzability of pretreated lignocellulose. <i>Green Chemistry</i> , 2016 , 18, 1295-1305	10	97
50	Synthesis of imidazolium-crosslinked chitosan aerogel and its prospect as a dye removing adsorbent. <i>RSC Advances</i> , 2016 , 6, 56544-56548	3.7	16
49	Bisphosphonate nanocellulose in the removal of vanadium(V) from water. <i>Cellulose</i> , 2016 , 23, 689-697	5.5	64
48	Alkyl aminated nanocelluloses in selective flotation of aluminium oxide and quartz. <i>Chemical Engineering Science</i> , 2016 , 144, 260-266	4.4	35
47	Nanoparticle emulsifiers based on bifunctionalized cellulose nanocrystals as marine diesel oil/water emulsion stabilizers. <i>Chemical Engineering Journal</i> , 2016 , 288, 312-320	14.7	63
46	Interactions between aminated cellulose nanocrystals and quartz: Adsorption and wettability studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 489, 207-215	5.1	19
45	Amino-modified cellulose nanocrystals with adjustable hydrophobicity from combined regioselective oxidation and reductive amination. <i>Carbohydrate Polymers</i> , 2016 , 136, 581-7	10.3	36
44	Fluting medium strengthened by periodate-chlorite oxidized nanofibrillated celluloses. <i>Cellulose</i> , 2016 , 23, 427-437	5.5	15
43	UV-absorbing cellulose nanocrystals as UVfunctional reinforcing fillers in polymer nanocomposite films. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6368-6375	13	60

42	Flocculation of fine hematite and quartz suspensions with anionic cellulose nanofibers. <i>Chemical Engineering Science</i> , 2016 , 148, 256-266	4.4	19
41	Anionically Stabilized Cellulose Nanofibrils through Succinylation Pretreatment in Urea-Lithium Chloride Deep Eutectic Solvent. <i>ChemSusChem</i> , 2016 , 9, 3074-3083	8.3	53
40	Acidic Deep Eutectic Solvents As Hydrolytic Media for Cellulose Nanocrystal Production. <i>Biomacromolecules</i> , 2016 , 17, 3025-32	6.9	140
39	Distinctive green recovery of silver species from modified cellulose: mechanism and spectroscopic studies. <i>International Journal of Biological Macromolecules</i> , 2015 , 76, 109-18	7.9	10
38	Phosphonated nanocelluloses from sequential oxidative-reductive treatment-Physicochemical characteristics and thermal properties. <i>Carbohydrate Polymers</i> , 2015 , 133, 524-32	10.3	38
37	Deep eutectic solvent system based on choline chloride-urea as a pre-treatment for nanofibrillation of wood cellulose. <i>Green Chemistry</i> , 2015 , 17, 3401-3406	10	157
36	High-consistency milling of oxidized cellulose for preparing microfibrillated cellulose films. <i>Cellulose</i> , 2015 , 22, 3151-3160	5.5	12
35	Composite Films of Poly(vinyl alcohol) and Bifunctional Cross-linking Cellulose Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19691-9	9.5	63
34	A cross-linked 2,3-dicarboxylic acid cellulose nanofibril network: A nanoporous thin-film layer with tailored pore size for composite membranes. <i>Separation and Purification Technology</i> , 2015 , 154, 44-50	8.3	6
33	Morphological Analyses of Some Micro- and Nanofibrils from Birch and Wheat Straw Sources. <i>Journal of Wood Chemistry and Technology</i> , 2015 , 35, 102-112	2	7
32	Lead adsorption with sulfonated wheat pulp nanocelluloses. <i>Journal of Water Process Engineering</i> , 2015 , 5, 136-142	6.7	90
31	Nanofibrillation of TEMPO-oxidized bleached hardwood kraft cellulose at high solids content. <i>Holzforschung</i> , 2015 , 69, 1077-1088	2	19
30	Butylamino-functionalized cellulose nanocrystal films: barrier properties and mechanical strength. <i>RSC Advances</i> , 2015 , 5, 15140-15146	3.7	32
29	The role of hornification in the disintegration behaviour of TEMPO-oxidized bleached hardwood fibres in a high-shear homogenizer. <i>Cellulose</i> , 2014 , 21, 1163-1174	5.5	35
28	Fabrication of cationic cellulosic nanofibrils through aqueous quaternization pretreatment and their use in colloid aggregation. <i>Carbohydrate Polymers</i> , 2014 , 103, 187-92	10.3	62
27	Adsorption of Ni(II), Cu(II) and Cd(II) from aqueous solutions by amino modified nanostructured microfibrillated cellulose. <i>Cellulose</i> , 2014 , 21, 1471-1487	5.5	173
26	Biocomposite cellulose-alginate films: promising packaging materials. <i>Food Chemistry</i> , 2014 , 151, 343-518.5		140
25	Optimization of dicarboxylic acid cellulose synthesis: reaction stoichiometry and role of hypochlorite scavengers. <i>Carbohydrate Polymers</i> , 2014 , 114, 73-77	10.3	23

24	Amphiphilic cellulose nanocrystals from acid-free oxidative treatment: physicochemical characteristics and use as an oil-water stabilizer. <i>Biomacromolecules</i> , 2014 , 15, 2769-75	6.9	89
23	Flocculation of municipal wastewaters with anionic nanocelluloses: Influence of nanocellulose characteristics on floc morphology and strength. <i>Journal of Environmental Chemical Engineering</i> , 2014 , 2, 2005-2012	6.8	35
22	Cationic wood cellulose films with high strength and bacterial anti-adhesive properties. <i>Cellulose</i> , 2014 , 21, 3573-3583	5.5	20
21	Disintegration of periodate-chlorite oxidized hardwood pulp fibres to cellulose microfibrils: kinetics and charge threshold. <i>Cellulose</i> , 2014 , 21, 3691-3700	5.5	17
20	Strong, self-standing oxygen barrier films from nanocelluloses modified with regioselective oxidative treatments. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14384-90	9.5	68
19	Porous thin film barrier layers from 2,3-dicarboxylic acid cellulose nanofibrils for membrane structures. <i>Carbohydrate Polymers</i> , 2014 , 102, 584-9	10.3	27
18	Use of Chemically Modified Nanocelluloses in Flotation of Hematite and Quartz. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 20092-20098	3.9	19
17	Effect of tempo and periodate-chlorite oxidized nanofibrils on ground calcium carbonate flocculation and retention in sheet forming and on the physical properties of sheets. <i>Cellulose</i> , 2013 , 20, 2451-2460	5.5	31
16	Coagulation-flocculation treatment of municipal wastewater based on anionized nanocelluloses. <i>Chemical Engineering Journal</i> , 2013 , 231, 59-67	14.7	161
15	High-strength nanocellulose-talc hybrid barrier films. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 13412-8	9.5	83
14	Sustainable packaging materials based on wood cellulose. <i>RSC Advances</i> , 2013 , 3, 16590	3.7	34
13	Sulfonated cellulose nanofibrils obtained from wood pulp through regioselective oxidative bisulfite pre-treatment. <i>Cellulose</i> , 2013 , 20, 741-749	5.5	109
12	Regeneration and Recycling of Aqueous Periodate Solution in Dialdehyde Cellulose Production. <i>Journal of Wood Chemistry and Technology</i> , 2013 , 33, 258-266	2	47
11	Effect of carboxymethylcellulose and starch depressants on recovery of filler and fines in tertiary flotation. <i>Tappi Journal</i> , 2013 , 12, 43-50	0.5	2
10	Fragment analysis of different size-reduced lignocellulosic pulps by hydrodynamic fractionation. <i>Cellulose</i> , 2012 , 19, 237-248	5.5	7
9	Use of nanoparticulate and soluble anionic celluloses in coagulation-flocculation treatment of kaolin suspension. <i>Water Research</i> , 2012 , 46, 2159-66	12.5	57
8	Enhancement of the nanofibrillation of wood cellulose through sequential periodate-chlorite oxidation. <i>Biomacromolecules</i> , 2012 , 13, 1592-7	6.9	227
7	Flocculation performance of a cationic biopolymer derived from a cellulosic source in mild aqueous solution. <i>Bioresource Technology</i> , 2011 , 102, 9626-32	11	52

6	Periodate oxidation of cellulose at elevated temperatures using metal salts as cellulose activators. <i>Carbohydrate Polymers</i> , 2011 , 83, 1293-1297	10.3	178
5	Synthesis of highly cationic water-soluble cellulose derivative and its potential as novel biopolymeric flocculation agent. <i>Carbohydrate Polymers</i> , 2011 , 86, 266-270	10.3	80
4	Dialdehyde cellulose microfibrils generated from wood pulp by milling-induced periodate oxidation. <i>Carbohydrate Polymers</i> , 2011 , 86, 260-265	10.3	41
3	Characterization of highly accessible cellulose microfibrils generated by wet stirred media milling. <i>Carbohydrate Polymers</i> , 2011 , 83, 2005-2010	10.3	73
2	Hydrodynamic drag and rise velocity of microbubbles in papermaking process waters. <i>Chemical Engineering Journal</i> , 2010 , 162, 956-964	14.7	13
1	Silylated Thiol-Containing Cellulose Nanofibrils as a Bio-Based Flocculation Agent for Ultrafine Mineral Particles of Chalcopyrite and Pyrite. <i>Journal of Sustainable Metallurgy</i> , 1	2.7	1