

Lars WÃ¥gberg

List of Publications by Year in descending order

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267
papers

15,626
citations

16451

64
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22832

112
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273
all docs

273
docs citations

273
times ranked

12504
citing authors

#	ARTICLE	IF	CITATIONS
1	The Build-Up of Polyelectrolyte Multilayers of Microfibrillated Cellulose and Cationic Polyelectrolytes. <i>Langmuir</i> , 2008, 24, 784-795.	3.5	742
2	Developing fibrillated cellulose as a sustainable technological material. <i>Nature</i> , 2021, 590, 47-56.	27.8	711
3	Transparent and conductive paper from nanocellulose fibers. <i>Energy and Environmental Science</i> , 2013, 6, 513-518.	30.8	431
4	Hydrodynamic alignment and assembly of nanofibrils resulting in strong cellulose filaments. <i>Nature Communications</i> , 2014, 5, 4018.	12.8	402
5	Multiscale Control of Nanocellulose Assembly: Transferring Remarkable Nanoscale Fibril Mechanics to Macroscale Fibers. <i>ACS Nano</i> , 2018, 12, 6378-6388.	14.6	359
6	Anisotropic, lightweight, strong, and super thermally insulating nanowood with naturally aligned nanocellulose. <i>Science Advances</i> , 2018, 4, eaar3724.	10.3	336
7	Ultra porous nanocellulose aerogels as separation medium for mixtures of oil/water liquids. <i>Cellulose</i> , 2012, 19, 401-410.	4.9	330
8	Highly Conducting, Strong Nanocomposites Based on Nanocellulose-Assisted Aqueous Dispersions of Single-Wall Carbon Nanotubes. <i>ACS Nano</i> , 2014, 8, 2467-2476.	14.6	325
9	Nanoscale Cellulose Films with Different Crystallinities and Mesostructures—Their Surface Properties and Interaction with Water. <i>Langmuir</i> , 2009, 25, 7675-7685.	3.5	321
10	Aerogels from nanofibrillated cellulose with tunable oleophobicity. <i>Soft Matter</i> , 2010, 6, 3298.	2.7	277
11	Phosphorylated Cellulose Nanofibrils: A Renewable Nanomaterial for the Preparation of Intrinsically Flame-Retardant Materials. <i>Biomacromolecules</i> , 2015, 16, 3399-3410.	5.4	267
12	Colloidal Stability of Aqueous Nanofibrillated Cellulose Dispersions. <i>Langmuir</i> , 2011, 27, 11332-11338.	3.5	265
13	Multifunctional Nanocomposites with High Strength and Capacitance Using 2D MXene and 1D Nanocellulose. <i>Advanced Materials</i> , 2019, 31, e1902977.	21.0	253
14	Self-assembled three-dimensional and compressible interdigitated thin-film supercapacitors and batteries. <i>Nature Communications</i> , 2015, 6, 7259.	12.8	246
15	Understanding the Dispersive Action of Nanocellulose for Carbon Nanomaterials. <i>Nano Letters</i> , 2017, 17, 1439-1447.	9.1	219
16	Nanostructured paper for flexible energy and electronic devices. <i>MRS Bulletin</i> , 2013, 38, 320-325.	3.5	199
17	Lightweight and Strong Cellulose Materials Made from Aqueous Foams Stabilized by Nanofibrillated Cellulose. <i>Biomacromolecules</i> , 2013, 14, 503-511.	5.4	196
18	Nanocellulose Aerogels Functionalized by Rapid Layer-by-Layer Assembly for High Charge Storage and Beyond. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12038-12042.	13.8	196

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19	An Organic Mixed Ion-Electron Conductor for Power Electronics. <i>Advanced Science</i> , 2016, 3, 1500305.	11.2	188
20	Visco-elastic and adhesive properties of adsorbed polyelectrolyte multilayers determined in situ with QCM-D and AFM measurements. <i>Journal of Colloid and Interface Science</i> , 2005, 292, 29-37.	9.4	162
21	Cellulose and the role of hydrogen bonds: not in charge of everything. <i>Cellulose</i> , 2022, 29, 1-23.	4.9	158
22	Thermoelectric Polymers and their Elastic Aerogels. <i>Advanced Materials</i> , 2016, 28, 4556-4562.	21.0	157
23	Silicon-conductive nanopaper for Li-ion batteries. <i>Nano Energy</i> , 2013, 2, 138-145.	16.0	155
24	Self-Organized Films from Cellulose I Nanofibrils Using the Layer-by-Layer Technique. <i>Biomacromolecules</i> , 2010, 11, 872-882.	5.4	142
25	Transparent Nanocellulosic Multilayer Thin Films on Polylactic Acid with Tunable Gas Barrier Properties. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7352-7359.	8.0	137
26	On the charge stoichiometry upon adsorption of a cationic polyelectrolyte on cellulosic materials. <i>Colloids and Surfaces</i> , 1987, 27, 163-173.	0.9	133
27	Direct Measurement of Attractive van der Waals' Forces between Regenerated Cellulose Surfaces in an Aqueous Environment. <i>Journal of the American Chemical Society</i> , 2004, 126, 13930-13931.	13.7	120
28	Polyelectrolyte adsorption onto cellulose fibres - A review. <i>Nordic Pulp and Paper Research Journal</i> , 2000, 15, 586-597.	0.7	119
29	Aggregation of Lignin Derivatives under Alkaline Conditions. Kinetics and Aggregate Structure. <i>Langmuir</i> , 2002, 18, 2859-2865.	3.5	113
30	Buildup of Polyelectrolyte Multilayers of Polyethyleneimine and Microfibrillated Cellulose Studied by in Situ Dual-Polarization Interferometry and Quartz Crystal Microbalance with Dissipation. <i>Langmuir</i> , 2008, 24, 2509-2518.	3.5	113
31	On the charge stoichiometry upon adsorption of a cationic polyelectrolyte on cellulosic materials. <i>Colloids and Surfaces</i> , 1987, 27, 163-173.	0.9	102
32	Superior Flame-Resistant Cellulose Nanofibril Aerogels Modified with Hybrid Layer-by-Layer Coatings. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29082-29092.	8.0	99
33	Adsorption and flocculation behavior of cationic polyacrylamide and colloidal silica. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 219, 161-172.	4.7	98
34	Adhesive Layer-by-Layer Films of Carboxymethylated Cellulose Nanofibril-Dopamine Covalent Bioconjugates Inspired by Marine Mussel Threads. <i>ACS Nano</i> , 2012, 6, 4731-4739.	14.6	96
35	The Physical Action of Cellulases Revealed by a Quartz Crystal Microbalance Study Using Ultrathin Cellulose Films and Pure Cellulases. <i>Biomacromolecules</i> , 2008, 9, 249-254.	5.4	94
36	Generation of superhydrophobic paper surfaces by a rapidly expanding supercritical carbon dioxide-alkyl ketene dimer solution. <i>Journal of Supercritical Fluids</i> , 2009, 49, 117-124.	3.2	92

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37	Flame-Retardant Paper from Wood Fibers Functionalized via Layer-by-Layer Assembly. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23750-23759.	8.0	92
38	Ambient-Dried, 3D-Printable and Electrically Conducting Cellulose Nanofiber Aerogels by Inclusion of Functional Polymers. <i>Advanced Functional Materials</i> , 2020, 30, 1909383.	14.9	92
39	Polyelectrolytes adsorbed on the surface of cellulosic materials. <i>Journal of Colloid and Interface Science</i> , 1986, 111, 537-543.	9.4	90
40	Kinetics of Polyelectrolyte Adsorption on Cellulosic Fibers. <i>Langmuir</i> , 2001, 17, 1096-1103.	3.5	90
41	Formation of Colloidal Nanocellulose Glasses and Gels. <i>Langmuir</i> , 2017, 33, 9772-9780.	3.5	89
42	Adsorption of cationic polyacrylamides onto monodisperse polystyrene latices and cellulose fiber: Effect of molecular weight and charge density of cationic polyacrylamides. <i>Journal of Colloid and Interface Science</i> , 1990, 134, 219-228.	9.4	87
43	All-natural and highly flame-resistant freeze-cast foams based on phosphorylated cellulose nanofibrils. <i>Nanoscale</i> , 2018, 10, 4085-4095.	5.6	87
44	Polyelectrolyte complexes for surface modification of wood fibres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 218, 137-149.	4.7	86
45	The influence on paper strength properties when building multilayers of weak polyelectrolytes onto wood fibres. <i>Journal of Colloid and Interface Science</i> , 2005, 292, 38-45.	9.4	86
46	Strong, Water-Durable, and Wet-Resilient Cellulose Nanofibril-Stabilized Foams from Oven Drying. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11682-11689.	8.0	86
47	Cellulose Thin Films: A Degree of Cellulose Ordering and Its Influence on Adhesion. <i>Biomacromolecules</i> , 2007, 8, 912-919.	5.4	85
48	Radical-Based Synthesis and Modification of Amino Acids. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1098-1115.	13.8	85
49	Ductile All-Cellulose Nanocomposite Films Fabricated from Core-Shell Structured Cellulose Nanofibrils. <i>Biomacromolecules</i> , 2014, 15, 2218-2223.	5.4	84
50	A physical cross-linking process of cellulose nanofibril gels with shear-controlled fibril orientation. <i>Soft Matter</i> , 2013, 9, 1852-1863.	2.7	81
51	Design of Highly Oleophobic Cellulose Surfaces from Structured Silicon Templates. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2443-2452.	8.0	80
52	Friction and forces between cellulose model surfaces: A comparison. <i>Journal of Colloid and Interface Science</i> , 2006, 303, 117-123.	9.4	79
53	Mechanisms Behind the Stabilizing Action of Cellulose Nanofibrils in Wet-Stable Cellulose Foams. <i>Biomacromolecules</i> , 2015, 16, 822-831.	5.4	77
54	Two-Dimensional Aggregation and Semidilute Ordering in Cellulose Nanocrystals. <i>Langmuir</i> , 2016, 32, 442-450.	3.5	76

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55	Supramolecular double networks of cellulose nanofibrils and algal polysaccharides with excellent wet mechanical properties. <i>Green Chemistry</i> , 2018, 20, 2558-2570.	9.0	76
56	Aggregation of kraft lignin derivatives under conditions relevant to the process, part I: phase behaviour. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 194, 85-96.	4.7	74
57	Determination of Young's Modulus for Nanofibrillated Cellulose Multilayer Thin Films Using Buckling Mechanics. <i>Biomacromolecules</i> , 2011, 12, 961-969.	5.4	74
58	Flexible nano-paper-based positive electrodes for Li-ion batteries—Preparation process and properties. <i>Nano Energy</i> , 2013, 2, 794-800.	16.0	73
59	The Use of Layer-by-Layer Self-Assembly and Nanocellulose to Prepare Advanced Functional Materials. <i>Advanced Materials</i> , 2021, 33, e2001474.	21.0	71
60	Swelling of Model Films of Cellulose Having Different Charge Densities and Comparison to the Swelling Behavior of Corresponding Fibers. <i>Langmuir</i> , 2003, 19, 7895-7903.	3.5	68
61	The effect of superhydrophobic wetting state on corrosion protection — The AKD example. <i>Journal of Colloid and Interface Science</i> , 2013, 412, 56-64.	9.4	68
62	Highly ductile fibres and sheets by core-shell structuring of the cellulose nanofibrils. <i>Cellulose</i> , 2014, 21, 323-333.	4.9	68
63	Adsorption of Xyloglucan onto Cellulose Surfaces of Different Morphologies: An Entropy-Driven Process. <i>Biomacromolecules</i> , 2016, 17, 2801-2811.	5.4	68
64	Properties of superhydrophobic paper treated with rapid expansion of supercritical CO ₂ containing a crystallizing wax. <i>Cellulose</i> , 2010, 17, 187-198.	4.9	67
65	Surface Forces Measurements of Spin-Coated Cellulose Thin Films with Different Crystallinity. <i>Langmuir</i> , 2006, 22, 3154-3160.	3.5	66
66	Surface Modification of Wood Fibers Using the Polyelectrolyte Multilayer Technique: Effects on Fiber Joint and Paper Strength Properties. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 5279-5286.	3.7	64
67	On the mechanism behind freezing-induced chemical crosslinking in ice-templated cellulose nanofibril aerogels. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19371-19380.	10.3	63
68	Morphology of Modified Regenerated Model Cellulose II Surfaces Studied by Atomic Force Microscopy: Effect of Carboxymethylation and Heat Treatment. <i>Biomacromolecules</i> , 2005, 6, 1586-1591.	5.4	62
69	Assembly of Debranched Xylan from Solution and on Nanocellulosic Surfaces. <i>Biomacromolecules</i> , 2014, 15, 924-930.	5.4	62
70	Modification of cellulose model surfaces by cationic polymer latexes prepared by RAFT-mediated surfactant-free emulsion polymerization. <i>Polymer Chemistry</i> , 2014, 5, 6076-6086.	3.9	62
71	Solid cellulose nanofiber based foams — Towards facile design of sustained drug delivery systems. <i>Journal of Controlled Release</i> , 2016, 244, 74-82.	9.9	62
72	Water Drop Friction on Superhydrophobic Surfaces. <i>Langmuir</i> , 2013, 29, 9079-9089.	3.5	61

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73	Diffusion of Cationic Polyelectrolytes into Cellulosic Fibers. <i>Langmuir</i> , 2008, 24, 10797-10806.	3.5	59
74	Kinetics of adsorption and ion-exchange reactions during adsorption of cationic polyelectrolytes onto cellulosic fibers. <i>Journal of Colloid and Interface Science</i> , 1988, 123, 287-295.	9.4	57
75	Adsorbed layer structure of a weak polyelectrolyte studied by colloidal probe microscopy and QCM-D as a function of pH and ionic strength. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 2379-2386.	2.8	56
76	The influence of periodate oxidation on the moisture sorptivity and dimensional stability of paper. <i>Cellulose</i> , 2008, 15, 837-847.	4.9	56
77	An extended model for the estimation of flocculation efficiency factors in multicomponent flocculant systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 113, 25-38.	4.7	55
78	Polyelectrolyte complexes for surface modification of wood fibres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 213, 15-25.	4.7	54
79	The porous structure of pulp fibres with different yields and its influence on paper strength. <i>Cellulose</i> , 2003, 10, 111-123.	4.9	53
80	Preparation of electrically conducting cellulose fibres utilizing polyelectrolyte multilayers of poly(3,4-ethylenedioxythiophene):poly(styrene sulphonate) and poly(allyl amine). <i>European Polymer Journal</i> , 2007, 43, 4075-4091.	5.4	53
81	Hierarchical wood cellulose fiber/epoxy biocomposites – Materials design of fiber porosity and nanostructure. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 74, 60-68.	7.6	52
82	Adhesive Interaction between Polyelectrolyte Multilayers of Polyallylamine Hydrochloride and Polyacrylic Acid Studied Using Atomic Force Microscopy and Surface Force Apparatus. <i>Langmuir</i> , 2009, 25, 2887-2894.	3.5	50
83	Assessment of Antibacterial Properties of Polyvinylamine (PVAm) with Different Charge Densities and Hydrophobic Modifications. <i>Biomacromolecules</i> , 2009, 10, 1478-1483.	5.4	50
84	Adsorption of cationic potato starch on cellulosic fibres. <i>Nordic Pulp and Paper Research Journal</i> , 1993, 8, 399-404.	0.7	50
85	Wetting kinetics of oil mixtures on fluorinated model cellulose surfaces. <i>Journal of Colloid and Interface Science</i> , 2008, 317, 556-567.	9.4	49
86	Application of the JKR Method to the Measurement of Adhesion to Langmuir-Blodgett Cellulose Surfaces. <i>Journal of Colloid and Interface Science</i> , 2000, 230, 441-447.	9.4	48
87	Cellulosic nanofibrils from eucalyptus, acacia and pine fibers. <i>Nordic Pulp and Paper Research Journal</i> , 2014, 29, 176-184.	0.7	47
88	Macro- and mesoporous nanocellulose beads for use in energy storage devices. <i>Applied Materials Today</i> , 2016, 5, 246-254.	4.3	47
89	Ion-specific Assembly of Strong, Tough, and Stiff Biofibers. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18562-18569.	13.8	47
90	Ion-induced assemblies of highly anisotropic nanoparticles are governed by ion-ion correlation and specific ion effects. <i>Nanoscale</i> , 2019, 11, 3514-3520.	5.6	47

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91	Entropy drives the adsorption of xyloglucan to cellulose surfaces – A molecular dynamics study. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 485-493.	9.4	47
92	Hydrolysis of cationic polyacrylamides. <i>Journal of Applied Polymer Science</i> , 1989, 38, 297-304.	2.6	46
93	Thermoresponsive nanocomposites from multilayers of nanofibrillated cellulose and specially designed N-isopropylacrylamide based polymers. <i>Soft Matter</i> , 2010, 6, 342-352.	2.7	46
94	Wettability changes in the formation of polymeric multilayers on cellulose fibres and their influence on wet adhesion. <i>Journal of Colloid and Interface Science</i> , 2007, 314, 1-9.	9.4	45
95	Adsorption Kinetics of Cationic Polyelectrolytes Studied with Stagnation Point Adsorption Reflectometry and Quartz Crystal Microgravimetry. <i>Langmuir</i> , 2008, 24, 7329-7337.	3.5	45
96	Polyelectrolyte Adsorption on Thin Cellulose Films Studied with Reflectometry and Quartz Crystal Microgravimetry with Dissipation. <i>Biomacromolecules</i> , 2009, 10, 134-141.	5.4	45
97	On the mechanism behind wet strength development in papers containing wet strength resins. <i>Nordic Pulp and Paper Research Journal</i> , 1993, 8, 53-58.	0.7	44
98	Design and characterization of cellulose nanofibril-based freestanding films prepared by layer-by-layer deposition technique. <i>Soft Matter</i> , 2011, 7, 3467.	2.7	44
99	Thermo-responsive nanofibrillated cellulose by polyelectrolyte adsorption. <i>European Polymer Journal</i> , 2013, 49, 2689-2696.	5.4	44
100	Super Gas Barrier and Fire Resistance of Nanoplatelet/Nanofibril Multilayer Thin Films. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801424.	3.7	44
101	Adsorption of bilayers and multilayers of cationic and anionic co-polymers of acrylamide on silicon oxide. <i>Journal of Colloid and Interface Science</i> , 2004, 274, 480-488.	9.4	43
102	Chemical modification of cellulose-rich fibres to clarify the influence of the chemical structure on the physical and mechanical properties of cellulose fibres and thereof made sheets. <i>Carbohydrate Polymers</i> , 2018, 182, 1-7.	10.2	43
103	Application of polymeric multilayers of starch onto wood fibres to enhance strength properties of paper. <i>Nordic Pulp and Paper Research Journal</i> , 2005, 20, 270-276.	0.7	41
104	Polyelectrolyte Adsorption on Solid Surfaces: Theoretical Predictions and Experimental Measurements. <i>Langmuir</i> , 2013, 29, 12421-12431.	3.5	41
105	Chemically modified cellulose micro- and nanofibrils as paper-strength additives. <i>Cellulose</i> , 2017, 24, 3883-3899.	4.9	41
106	Macro- and Microstructural Evolution during Drying of Regenerated Cellulose Beads. <i>ACS Nano</i> , 2020, 14, 6774-6784.	14.6	41
107	Treatment of cellulose fibres with polyelectrolytes and wax colloids to create tailored highly hydrophobic fibrous networks. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 414, 415-421.	4.7	40
108	Towards a super-strainable paper using the Layer-by-Layer technique. <i>Carbohydrate Polymers</i> , 2014, 100, 218-224.	10.2	40

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109	Controlling the Organization of PEDOT:PSS on Cellulose Structures. ACS Applied Polymer Materials, 2019, 1, 2342-2351.	4.4	40
110	Formation of polyelectrolyte multilayers on fibres: Influence on wettability and fibre/fibre interaction. Journal of Colloid and Interface Science, 2006, 296, 396-408.	9.4	38
111	Towards optimised size distribution in commercial microfibrillated cellulose: a fractionation approach. Cellulose, 2019, 26, 1565-1575.	4.9	38
112	Hierarchical build-up of bio-based nanofibrous materials with tunable metal-organic framework biofunctionality. Materials Today, 2021, 48, 47-58.	14.2	38
113	Solubility of Softwood Hemicelluloses. Biomacromolecules, 2018, 19, 1245-1255.	5.4	37
114	Synthesis of Unnatural α -Amino Acid Derivatives via Light-Mediated Radical Decarboxylative Processes. Advanced Synthesis and Catalysis, 2020, 362, 2354-2359.	4.3	37
115	Unidirectional Swelling of Dynamic Cellulose Nanofibril Networks: A Platform for Tunable Hydrogels and Aerogels with 3D Shapeability. Biomacromolecules, 2019, 20, 2406-2412.	5.4	36
116	PEDOT:PSS nano-particles in aqueous media: A comparative experimental and molecular dynamics study of particle size, morphology and z-potential. Journal of Colloid and Interface Science, 2021, 584, 57-66.	9.4	36
117	Influence of polyelectrolyte complexes on the strength properties of papers from unbleached kraft pulps with different yields. Nordic Pulp and Paper Research Journal, 2005, 20, 36-42.	0.7	35
118	Influence of fibre-fibre joint properties on the dimensional stability of paper. Cellulose, 2008, 15, 515-525.	4.9	35
119	Adsorption kinetics for cationic polyelectrolytes onto pulp fibers in turbulent flow. Colloids and Surfaces, 1989, 40, 115-124.	0.9	34
120	Influence of Cellulose Charge on Bacteria Adhesion and Viability to PVAm/CNF/PVAm-Modified Cellulose Model Surfaces. Biomacromolecules, 2019, 20, 2075-2083.	5.4	34
121	Smooth Model Surfaces from Lignin Derivatives. II. Adsorption of Polyelectrolytes and PECs Monitored by QCM-D. Langmuir, 2007, 23, 3737-3743.	3.5	33
122	Contact-active antibacterial aerogels from cellulose nanofibrils. Colloids and Surfaces B: Biointerfaces, 2016, 146, 415-422.	5.0	33
123	Insights into the EDC-mediated PEGylation of cellulose nanofibrils and their colloidal stability. Carbohydrate Polymers, 2018, 181, 871-878.	10.2	33
124	The use of stagnation point adsorption reflectometry to study molecular interactions relevant to papermaking chemistry. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 159, 3-15.	4.7	32
125	New insights into the structure of polyelectrolyte complexes. Journal of Colloid and Interface Science, 2007, 312, 237-246.	9.4	31
126	Preparation of dry ultra-porous cellulosic fibres: Characterization and possible initial uses. Carbohydrate Polymers, 2013, 92, 775-783.	10.2	31

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127	Influence of Surface Charge Density and Morphology on the Formation of Polyelectrolyte Multilayers on Smooth Charged Cellulose Surfaces. <i>Langmuir</i> , 2017, 33, 968-979.	3.5	31
128	Ultrastrong and flame-resistant freestanding films from nanocelluloses, self-assembled using a layer-by-layer approach. <i>Applied Materials Today</i> , 2017, 9, 229-239.	4.3	31
129	Tuning the Nanoscale Properties of Phosphorylated Cellulose Nanofibril-Based Thin Films To Achieve Highly Fire-Protecting Coatings for Flammable Solid Materials. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32543-32555.	8.0	31
130	The Link Between the Fiber Contact Zone and the Physical Properties of Paper: A Way to Control Paper Properties. <i>Journal of Composite Materials</i> , 2007, 41, 1619-1633.	2.4	30
131	Biointeractive antibacterial fibres using polyelectrolyte multilayer modification. <i>Cellulose</i> , 2012, 19, 1731-1741.	4.9	30
132	A new, robust method for measuring average fibre wall pore sizes in cellulose I rich plant fibre walls. <i>Cellulose</i> , 2013, 20, 623-631.	4.9	30
133	Best Practice for Reporting Wet Mechanical Properties of Nanocellulose-Based Materials. <i>Biomacromolecules</i> , 2020, 21, 2536-2540.	5.4	30
134	Adsorption of Highly Charged Polyelectrolytes onto an Oppositely Charged Porous Substrate. <i>Langmuir</i> , 2008, 24, 7857-7866.	3.5	29
135	Physical Tuning of Cellulose-Polymer Interactions Utilizing Cationic Block Copolymers Based on PCL and Quaternized PDMAEMA. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6796-6807.	8.0	29
136	The use of polymeric amines to enhance the mechanical properties of lignocellulosic fibrous networks. <i>Cellulose</i> , 2012, 19, 1437-1447.	4.9	29
137	Adsorption of cationic starch on fibres from mechanical pulps. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1996, 100, 984-993.	0.9	28
138	Surface-initiated ring-opening polymerization from cellulose model surfaces monitored by a Quartz Crystal Microbalance. <i>Soft Matter</i> , 2012, 8, 512-517.	2.7	28
139	Dielectric properties of lignin and glucomannan as determined by spectroscopic ellipsometry and Lifshitz estimates of non-retarded Hamaker constants. <i>Cellulose</i> , 2013, 20, 1639-1648.	4.9	28
140	Wetting of Structured Hydrophobic Surfaces by Water Droplets. <i>Langmuir</i> , 2005, 21, 12235-12243.	3.5	27
141	Polyelectrolyte multilayers on wood fibers: Influence of molecular weight on layer properties and mechanical properties of papers from treated fibers. <i>Journal of Colloid and Interface Science</i> , 2008, 328, 233-242.	9.4	27
142	Exchange of cationic polyacrylamides adsorbed on monodisperse polystyrene latex and cellulose fibers: Effect of molecular weight. <i>Journal of Colloid and Interface Science</i> , 1990, 134, 229-234.	9.4	26
143	Nanocellulose Aerogels Functionalized by Rapid Layer-by-Layer Assembly for High Charge Storage and Beyond. <i>Angewandte Chemie</i> , 2013, 125, 12260-12264.	2.0	26
144	Explaining the Exceptional Wet Integrity of Transparent Cellulose Nanofibril Films in the Presence of Multivalent Ions Suitable Substrates for Biointerfaces. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900333.	3.7	26

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145	Self-Fibrillating Cellulose Fibers: Rapid In Situ Nanofibrillation to Prepare Strong, Transparent, and Gas Barrier Nanopapers. <i>Biomacromolecules</i> , 2020, 21, 1480-1488.	5.4	26
146	Adsorption of Low Charge Density Polyelectrolytes to an Oppositely Charged Porous Substrate. <i>Langmuir</i> , 2008, 24, 6585-6594.	3.5	25
147	Using jet mixing to prepare polyelectrolyte complexes: Complex properties and their interaction with silicon oxide surfaces. <i>Journal of Colloid and Interface Science</i> , 2010, 351, 88-95.	9.4	25
148	Nanometer Smooth, Macroscopic Spherical Cellulose Probes for Contact Adhesion Measurements. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20928-20935.	8.0	25
149	Tailoring flame-retardancy and strength of papers via layer-by-layer treatment of cellulose fibers. <i>Cellulose</i> , 2018, 25, 2691-2709.	4.9	25
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