Lars A. Berglund

List of Publications by Year in Descending Order

321 papers	25,081 citations	77 h-index	150 g-index
338 ext. papers	28,218 ext. citations	7.2 avg, IF	7.43 L-index

#	Paper	IF	Citations
321	Fully bio-based cellulose nanofiber/epoxy composites with both sustainable production and selective matrix deconstruction towards infinite fiber recycling systems. *Journal of Materials Chemistry A*, **2022**, 10, 570-576	13	3
320	Fire-retardant and transparent wood biocomposite based on commercial thermoset. *Composites Part A: Applied Science and Manufacturing*, **2022**, 156, 106863	8.4	2
319	Structural basis for lignin recalcitrance during sulfite pulping for production of dissolving pulp from pine heartwood. *Industrial Crops and Products*, **2022**, 177, 114391	5.9	1
318	Recyclable nanocomposites of well-dispersed 2D layered silicates in cellulose nanofibril (CNF) matrix.. *Carbohydrate Polymers*, **2022**, 279, 119004	10.3	0
317	Strong, transparent, and thermochromic composite hydrogel from wood derived highly mesoporous cellulose network and PNIPAM. *Composites Part A: Applied Science and Manufacturing*, **2022**, 154, 106757	8.4	3
316	Current international research into cellulose as a functional nanomaterial for advanced applications. *Journal of Materials Science*, **2022**, 57, 5697-5767	4.3	10
315	Transverse fracture toughness of transparent wood biocomposites by FEM updating with cohesive zone fracture modeling. *Composites Science and Technology*, **2022**, 225, 109492	8.6	
314	Structural and Ecofriendly Holocellulose Materials from Wood: Microscale Fibers and Nanoscale Fibrils. *Advanced Materials*, **2021**, 33, e2001118	24	27
313	Small Angle Neutron Scattering Shows Nanoscale PMMA Distribution in Transparent Wood Biocomposites. *Nano Letters*, **2021**, 21, 2883-2890	11.5	8
312	High-Strength Nanostructured Film Based on Chitin Nanofibrils from Squid Illex argentinus Pens by 2,2,6,6-Tetramethylpiperidin-1-yl Oxyl-Mediated Reaction. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 5356-5363	8.3	1
311	Polymer Films from Cellulose NanofibrilsEffects from Interfibrillar Interphase on Mechanical Behavior. *Macromolecules*, **2021**, 54, 4443-4452	5.5	10
310	High Performance, Fully Bio-Based, and Optically Transparent Wood Biocomposites. *Advanced Science*, **2021**, 8, 2100559	13.6	19
309	Facile Processing of Transparent Wood Nanocomposites with Structural Color from Plasmonic Nanoparticles. *Chemistry of Materials*, **2021**, 33, 3736-3745	9.6	10
308	Sustainable Wood Nanotechnologies for Wood Composites Processed by In-Situ Polymerization. *Frontiers in Chemistry*, **2021**, 9, 682883	5	7
307	Surface Charges Control the Structure and Properties of Layered Nanocomposite of Cellulose Nanofibrils and Clay Platelets. *ACS Applied Materials & Interfaces*, **2021**, 13, 4463-4472	9.5	12
306	Eco-Friendly High-Strength Composites Based on Hot-Pressed Lignocellulose Microfibrils or Fibers. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 1899-1910	8.3	10
305	Single step PAA delignification of wood chips for high-performance holocellulose fibers. *Cellulose*, **2021**, 28, 1873-1880	5.5	3

304	Olive Stone Delignification Toward Efficient Adsorption of Metal Ions. *Frontiers in Materials*, **2021**, 8,	4	2
303	Green and Fire Resistant Nanocellulose/Hemicellulose/Clay Foams. *Advanced Materials Interfaces*, **2021**, 8, 2101111	4.6	0
302	Sustainable Development of Hot-Pressed All-Lignocellulose Composites-Comparing Wood Fibers and Nanofibers. *Polymers*, **2021**, 13,	4.5	4
301	Light Propagation in Transparent Wood: Efficient Ray-Tracing Simulation and Retrieving an Effective Refractive Index of Wood Scaffold. *Advanced Photonics Research*, **2021**, 2, 2100135	1.9	3
300	Bench-scale fire stability testing Assessment of protective systems on carbon fibre reinforced polymer composites. *Polymer Testing*, **2021**, 102, 107340	4.5	1
299	Reversible Dual-Stimuli-Responsive Chromic Transparent Wood Biocomposites for Smart Window Applications. *ACS Applied Materials & Interfaces*, **2021**, 13, 3270-3277	9.5	20
298	Interface tailoring by a versatile functionalization platform for nanostructured wood biocomposites. *Green Chemistry*, **2020**, 22, 8012-8023	10	16
297	Surface modification effects on nanocellulose molecular dynamics simulations using umbrella sampling and computational alchemy. *Journal of Materials Chemistry A*, **2020**, 8, 23617-23627	13	10
296	Structurepropertyfunction relationships of natural and engineered wood. *Nature Reviews Materials*, **2020**, 5, 642-666	73.3	220
295	Top-Down Approach Making Anisotropic Cellulose Aerogels as Universal Substrates for Multifunctionalization. *ACS Nano*, **2020**, 14, 7111-7120	16.7	60
294	Lignin-Based Epoxy Resins: Unravelling the Relationship between Structure and Material Properties. *Biomacromolecules*, **2020**, 21, 1920-1928	6.9	50
293	Best Practice for Reporting Wet Mechanical Properties of Nanocellulose-Based Materials. *Biomacromolecules*, **2020**, 21, 2536-2540	6.9	14
292	Mild and Versatile Functionalization of Nacre-Mimetic Cellulose Nanofibrils/Clay Nanocomposites by Organocatalytic Surface Engineering. *ACS Omega*, **2020**, 5, 19363-19370	3.9	3
291	Mechanical properties of transparent high strength biocomposites from delignified wood veneer. *Composites Part A: Applied Science and Manufacturing*, **2020**, 133, 105853	8.4	30
290	Toward Biocomposites Recycling: Localized Interphase Degradation in PCL-Cellulose Biocomposites and its Mitigation. *Biomacromolecules*, **2020**, 21, 1795-1801	6.9	3
289	Transmission Mueller-matrix characterization of transparent ramie films. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2020**, 38, 014008	1.3	3
288	Transparent Wood Biocomposites by Fast UV-Curing for Reduced Light-Scattering through Wood/Thiol-ene Interface Design. *ACS Applied Materials & Interfaces*, **2020**, 12, 46914-46922	9.5	21
287	Recycling without Fiber DegradationStrong Paper Structures for 3D Forming Based on Nanostructurally Tailored Wood Holocellulose Fibers. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 1146-1154	8.3	9

286	Eco-Friendly Cellulose Nanofibrils Designed by Nature: Effects from Preserving Native State. *ACS Nano*, **2020**, 14, 724-735	16.7	58
285	Microfibrillated lignocellulose (MFLC) and nanopaper films from unbleached kraft softwood pulp. *Cellulose*, **2020**, 27, 2325-2341	5.5	16
284	Hierarchical micro-reactor as electrodes for water splitting by metal rod tipped carbon nanocapsule self-assembly in carbonized wood. *Applied Catalysis B: Environmental*, **2020**, 264, 118536	21.8	8
283	High-Strength Nanostructured Films Based on Well-Preserved □Chitin Nanofibrils Disintegrated from Insect Cuticles. *Biomacromolecules*, **2020**, 21, 604-612	6.9	9
282	Polymer Grafting Inside Wood Cellulose Fibers by Improved Hydroxyl Accessibility from Fiber Swelling. *Biomacromolecules*, **2020**, 21, 597-603	6.9	17
281	Strongly Improved Mechanical Properties of Thermoplastic Biocomposites by PCL Grafting inside Holocellulose Wood Fibers. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 11977-11985	8.3	10
280	Refractive index of delignified wood for transparent biocomposites.. *RSC Advances*, **2020**, 10, 40719-40724	3.7	14
279	Ice-templated nanocellulose porous structure enhances thermochemical storage kinetics in hydrated salt/graphite composites. *Renewable Energy*, **2020**, 160, 698-706	8.1	13
278	Strong Reinforcement Effects in 2D Cellulose Nanofibril-Graphene Oxide (CNF-GO) Nanocomposites due to GO-Induced CNF Ordering. *Journal of Materials Chemistry A*, **2020**, 8, 17608-17620	13	13
277	Self-Densification of Highly Mesoporous Wood Structure into a Strong and Transparent Film. *Advanced Materials*, **2020**, 32, e2003653	24	30
276	Tailoring of rheological properties and structural polydispersity effects in microfibrillated cellulose suspensions. *Cellulose*, **2020**, 27, 9227-9241	5.5	11
275	Thickness Dependence of Optical Transmittance of Transparent Wood: Chemical Modification Effects. *ACS Applied Materials & Interfaces*, **2019**, 11, 35451-35457	9.5	40
274	Dynamic Nanocellulose Networks for Thermoset-like yet Recyclable Plastics with a High Melt Stiffness and Creep Resistance. *Biomacromolecules*, **2019**, 20, 3924-3932	6.9	9
273	Quantifying Localized Macromolecular Dynamics within Hydrated Cellulose Fibril Aggregates. *Macromolecules*, **2019**, 52, 7278-7288	5.5	11
272	Nanocellulose films with multiple functional nanoparticles in confined spatial distribution. *Nanoscale Horizons*, **2019**, 4, 634-641	10.8	31
271	High strength nanostructured films based on well-preserved □chitin nanofibrils. *Nanoscale*, **2019**, 11, 11001-11011	7.7	24
270	Transparent Wood for Thermal Energy Storage and Reversible Optical Transmittance. *ACS Applied Materials & Interfaces*, **2019**, 11, 20465-20472	9.5	69
269	Molecular Engineering of the Cellulose-Poly(Caprolactone) Bio-Nanocomposite Interface by Reactive Amphiphilic Copolymer Nanoparticles. *ACS Nano*, **2019**, 13, 6409-6420	16.7	14

268	Nanocomposites from Clay, Cellulose Nanofibrils, and Epoxy with Improved Moisture Stability for Coatings and Semistructural Applications. *ACS Applied Nano Materials*, **2019**, 2, 3117-3126	5.6	17
267	Nanostructure and Properties of Nacre-Inspired Clay/Cellulose Nanocomposites Synchrotron X-ray Scattering Analysis. *Macromolecules*, **2019**, 52, 3131-3140	5.5	25
266	Transforming technical lignins to structurally defined star-copolymers under ambient conditions. *Green Chemistry*, **2019**, 21, 2478-2486	10	19
265	Nanostructural Effects in High Cellulose Content Thermoplastic Nanocomposites with a Covalently Grafted Cellulose-Poly(methyl methacrylate) Interface. *Biomacromolecules*, **2019**, 20, 598-607	6.9	10
264	Recyclable nanocomposite foams of Poly(vinyl alcohol), clay and cellulose nanofibrils Mechanical properties and flame retardancy. *Composites Science and Technology*, **2019**, 182, 107762	8.6	13
263	Monodisperse highly ordered chitosan/cellulose nanocomposite foams. *Composites Part A: Applied Science and Manufacturing*, **2019**, 125, 105516	8.4	14
262	Effect of transparent wood on the polarization degree of light. *Optics Letters*, **2019**, 44, 2962-2965	3	4
261	Optically Transparent Wood Substrate for Perovskite Solar Cells. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 6061-6067	8.3	40
260	High-Density Molded Cellulose Fibers and Transparent Biocomposites Based on Oriented Holocellulose. *ACS Applied Materials & Interfaces*, **2019**, 11, 10310-10319	9.5	30
259	Lytic polysaccharide monooxygenase (LPMO) mediated production of ultra-fine cellulose nanofibres from delignified softwood fibres. *Green Chemistry*, **2019**, 21, 5924-5933	10	35
258	Towards optimised size distribution in commercial microfibrillated cellulose: a fractionation approach. *Cellulose*, **2019**, 26, 1565-1575	5.5	16
257	Cellulose Nanopaper with Monolithically Integrated Conductive Micropatterns. *Advanced Electronic Materials*, **2019**, 5, 1800924	6.4	14
256	Strong and Tough Chitin Film from Chitin Nanofibers Prepared by High Pressure Homogenization and Chitosan Addition. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 1692-1697	8.3	29
255	Well-dispersed polyurethane/cellulose nanocrystal nanocomposites synthesized by a solvent-free procedure in bulk. *Polymer Composites*, **2019**, 40, E456	3	14
254	Bioinspired Wood Nanotechnology for Functional Materials. *Advanced Materials*, **2018**, 30, e1704285	24	199
253	Tunable Thermosetting Epoxies Based on Fractionated and Well-Characterized Lignins. *Journal of the American Chemical Society*, **2018**, 140, 4054-4061	16.4	130
252	Hydration-Dependent Dynamical Modes in Xyloglucan from Molecular Dynamics Simulation of C NMR Relaxation Times and Their Distributions. *Biomacromolecules*, **2018**, 19, 2567-2579	6.9	10
251	Reinforcement Effects from Nanodiamond in Cellulose Nanofibril Films. *Biomacromolecules*, **2018**, 19, 2423-2431	6.9	21

250	Transparent Wood Smart Windows: Polymer Electrochromic Devices Based on Poly(3,4-Ethylenedioxythiophene):Poly(Styrene Sulfonate) Electrodes. *ChemSusChem*, **2018**, 11, 854-863	8.3	78
249	Wood Nanotechnology for Strong, Mesoporous, and Hydrophobic Biocomposites for Selective Separation of Oil/Water Mixtures. *ACS Nano*, **2018**, 12, 2222-2230	16.7	156
248	Recyclable and superelastic aerogels based on carbon nanotubes and carboxymethyl cellulose. *Composites Science and Technology*, **2018**, 159, 1-10	8.6	19
247	Transparent wood for functional and structural applications. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2018**, 376,	3	52
246	Preparation and evaluation of high-lignin content cellulose nanofibrils from eucalyptus pulp. *Cellulose*, **2018**, 25, 3121-3133	5.5	71
245	The use of a pilot-scale continuous paper process for fire retardant cellulose-kaolinite nanocomposites. *Composites Science and Technology*, **2018**, 162, 215-224	8.6	27
244	Toward Semistructural Cellulose Nanocomposites: The Need for Scalable Processing and Interface Tailoring. *Biomacromolecules*, **2018**, 19, 2341-2350	6.9	49
243	Poly(ε-caprolactone) Biocomposites Based on Acetylated Cellulose Fibers and Wet Compounding for Improved Mechanical Performance. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 6753-6760	8.3	18
242	Enhancing strength and toughness of cellulose nanofibril network structures with an adhesive peptide. *Carbohydrate Polymers*, **2018**, 181, 256-263	10.3	18
241	Nematic structuring of transparent and multifunctional nanocellulose papers. *Nanoscale Horizons*, **2018**, 3, 28-34	10.8	65
240	Complete spatial coherence characterization of quasi-random laser emission from dye doped transparent wood. *Optics Express*, **2018**, 26, 13474-13482	3.3	8
239	Optically Transparent Wood: Recent Progress, Opportunities, and Challenges. *Advanced Optical Materials*, **2018**, 6, 1800059	8.1	81
238	Transparent plywood as a load-bearing and luminescent biocomposite. *Composites Science and Technology*, **2018**, 164, 296-303	8.6	51
237	Toward Sustainable Multifunctional Coatings Containing Nanocellulose in a Hybrid Glass Matrix. *ACS Nano*, **2018**, 12, 5495-5503	16.7	20
236	Towards centimeter thick transparent wood through interface manipulation. *Journal of Materials Chemistry A*, **2018**, 6, 1094-1101	13	74
235	Water-Based Approach to High-Strength All-Cellulose Material with Optical Transparency. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 501-510	8.3	16
234	Tailoring Nanocellulose-Cellulose Triacetate Interfaces by Varying the Surface Grafting Density of Poly(ethylene glycol). *ACS Omega*, **2018**, 3, 11883-11889	3.9	10
233	Light Scattering by Structurally Anisotropic Media: A Benchmark with Transparent Wood. *Advanced Optical Materials*, **2018**, 6, 1800999	8.1	25

232	Improved Cellulose Nanofibril Dispersion in Melt-Processed Polycaprolactone Nanocomposites by a Latex-Mediated Interphase and Wet Feeding as LDPE Alternative. *ACS Applied Nano Materials*, **2018** , 1, 2669-2677	5.6	21
231	Preserving Cellulose Structure: Delignified Wood Fibers for Paper Structures of High Strength and Transparency. *Biomacromolecules*, **2018**, 19, 3020-3029	6.9	33
230	High-Strength Nanocomposite Aerogels of Ternary Composition: Poly(vinyl alcohol), Clay, and Cellulose Nanofibrils. *ACS Applied Materials & Interfaces*, **2017**, 9, 6453-6461	9.5	63
229	Experimental evaluation of anisotropy in injection molded polypropylene/wood fiber biocomposites. *Composites Part A: Applied Science and Manufacturing*, **2017**, 96, 147-154	8.4	18
228	Comparison of fracture properties of cellulose nanopaper, printing paper and buckypaper. *Journal of Materials Science*, **2017**, 52, 9508-9519	4.3	32
227	Bioinspired Interface Engineering for Moisture Resistance in Nacre-Mimetic Cellulose Nanofibrils/Clay Nanocomposites. *ACS Applied Materials & Interfaces*, **2017**, 9, 20169-20178	9.5	70
226	Lasing from Organic Dye Molecules Embedded in Transparent Wood. *Advanced Optical Materials*, **2017**, 5, 1700057	8.1	63
225	Cellulose nanofibers enable paraffin encapsulation and the formation of stable thermal regulation nanocomposites. *Nano Energy*, **2017**, 34, 541-548	17.1	83
224	Swelling and dimensional stability of xyloglucan/montmorillonite nanocomposites in moist conditions from molecular dynamics simulations. *Computational Materials Science*, **2017**, 128, 191-197	3.2	3
223	Nanostructured Wood Hybrids for Fire-Retardancy Prepared by Clay Impregnation into the Cell Wall. *ACS Applied Materials & Interfaces*, **2017**, 9, 36154-36163	9.5	108
222	Lignin-Retaining Transparent Wood. *ChemSusChem*, **2017**, 10, 3445-3451	8.3	113
221	Estimating the Strength of Single Chitin Nanofibrils via Sonication-Induced Fragmentation. *Biomacromolecules*, **2017**, 18, 4405-4410	6.9	42
220	Luminescent Transparent Wood. *Advanced Optical Materials*, **2017**, 5, 1600834	8.1	69
219	Extreme Thermal Shielding Effects in Nanopaper Based on Multilayers of Aligned Clay Nanoplatelets in Cellulose Nanofiber Matrix. *Advanced Materials Interfaces*, **2016**, 3, 1600551	4.6	20
218	Optically Transparent Wood from a Nanoporous Cellulosic Template: Combining Functional and Structural Performance. *Biomacromolecules*, **2016**, 17, 1358-64	6.9	238
217	Clay nanopaper as multifunctional brick and mortar fire protection coating□Wood case study. *Materials and Design*, **2016**, 93, 357-363	8.1	66
216	Nanostructurally Controlled Hydrogel Based on Small-Diameter Native Chitin Nanofibers: Preparation, Structure, and Properties. *ChemSusChem*, **2016**, 9, 989-95	8.3	48
215	Mechanical performance and architecture of biocomposite honeycombs and foams from core□hell holocellulose nanofibers. *Composites Part A: Applied Science and Manufacturing*, **2016**, 88, 116-122	8.4	25

214	Role of hydrogen bonding in cellulose deformation: the leverage effect analyzed by molecular modeling. *Cellulose*, **2016**, 23, 2315-2323	5.5	20
213	Interface tailoring through covalent hydroxyl-epoxy bonds improves hygromechanical stability in nanocellulose materials. *Composites Science and Technology*, **2016**, 134, 175-183	8.6	17
212	Oriented clay nanopaper from biobased components--mechanisms for superior fire protection properties. *ACS Applied Materials & Interfaces*, **2015**, 7, 5847-56	9.5	88
211	Nanocellulose-Zeolite Composite Films for Odor Elimination. *ACS Applied Materials & Interfaces*, **2015**, 7, 14254-62	9.5	35
210	Influence of processing routes on morphology and low strain stiffness of polymer/nanofibrillated cellulose composites. *Plastics, Rubber and Composites*, **2015**, 44, 81-86	1.5	2
209	Holocellulose Nanofibers of High Molar Mass and Small Diameter for High-Strength Nanopaper. *Biomacromolecules*, **2015**, 16, 2427-35	6.9	57
208	Nanostructured biocomposites based on unsaturated polyester resin and a cellulose nanofiber network. *Composites Science and Technology*, **2015**, 117, 298-306	8.6	73
207	Nanostructural effects on polymer and water dynamics in cellulose biocomposites: (2)h and (13)c NMR relaxometry. *Biomacromolecules*, **2015**, 16, 1506-15	6.9	30
206	Hierarchical wood cellulose fiber/epoxy biocomposites Materials design of fiber porosity and nanostructure. *Composites Part A: Applied Science and Manufacturing*, **2015**, 74, 60-68	8.4	35
205	Core-shell cellulose nanofibers for biocomposites - nanostructural effects in hydrated state. *Carbohydrate Polymers*, **2015**, 125, 92-102	10.3	38
204	Low-birefringent and highly tough nanocellulose-reinforced cellulose triacetate. *ACS Applied Materials & Interfaces*, **2015**, 7, 11041-6	9.5	42
203	Cellulose nanofibrils improve the properties of all-cellulose composites by the nano-reinforcement mechanism and nanofibril-induced crystallization. *Nanoscale*, **2015**, 7, 17957-63	7.7	56
202	Strong Surface Treatment Effects on Reinforcement Efficiency in Biocomposites Based on Cellulose Nanocrystals in Poly(vinyl acetate) Matrix. *Biomacromolecules*, **2015**, 16, 3916-24	6.9	44
201	Strong reinforcing effects from galactoglucomannan hemicellulose on mechanical behavior of wet cellulose nanofiber gels. *Journal of Materials Science*, **2015**, 50, 7413-7423	4.3	27
200	Biocomposites from Natural Rubber: Synergistic Effects of Functionalized Cellulose Nanocrystals as Both Reinforcing and Cross-Linking Agents via Free-Radical Thiol-ene Chemistry. *ACS Applied Materials & Interfaces*, **2015**, 7, 16303-10	9.5	91
199	Which Patients With Low Back Pain Benefit From Deadlift Training?. *Journal of Strength and Conditioning Research*, **2015**, 29, 1803-11	3.2	15
198	Molecular deformation mechanisms in cellulose allomorphs and the role of hydrogen bonds. *Carbohydrate Polymers*, **2015**, 130, 175-82	10.3	26
197	A comparison between micro- and nanocellulose-filled composite adhesives for oil paintings restoration. *Nanocomposites*, **2015**, 1, 195-203	3.4	25

196	Bio-inspired functional wood-based materials hybrids and replicates. *International Materials Reviews*, **2015**, 60, 431-450	16.1	69
195	High-performance and moisture-stable cellulose-starch nanocomposites based on bioinspired core-shell nanofibers. *Biomacromolecules*, **2015**, 16, 904-12	6.9	64
194	Molecular adhesion at clay nanocomposite interfaces depends on counterion hydration-molecular dynamics simulation of montmorillonite/xyloglucan. *Biomacromolecules*, **2015**, 16, 257-65	6.9	14
193	Cellulose nanofiber network for moisture stable, strong and ductile biocomposites and increased epoxy curing rate. *Composites Part A: Applied Science and Manufacturing*, **2014**, 63, 35-44	8.4	134
192	Highly conducting, strong nanocomposites based on nanocellulose-assisted aqueous dispersions of single-wall carbon nanotubes. *ACS Nano*, **2014**, 8, 2467-76	16.7	262
191	Water-soluble hemicelluloses for high humidity applications enzymatic modification of xyloglucan for mechanical and oxygen barrier properties. *Green Chemistry*, **2014**, 16, 1904-1910	10	31
190	Cellulose nanofiber/nanocrystal reinforced capsules: a fast and facile approach toward assembly of liquid-core capsules with high mechanical stability. *Biomacromolecules*, **2014**, 15, 1852-9	6.9	61
189	Strong and moldable cellulose magnets with high ferrite nanoparticle content. *ACS Applied Materials & Interfaces*, **2014**, 6, 20524-34	9.5	16
188	Controlled deposition of magnetic particles within the 3-D template of wood: making use of the natural hierarchical structure of wood. *RSC Advances*, **2014**, 4, 35678-35685	3.7	30
187	UV-cured cellulose nanofiber composites with moisture durable oxygen barrier properties. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	21
186	Preparation of double Pickering emulsions stabilized by chemically tailored nanocelluloses. *Langmuir*, **2014**, 30, 9327-35	4	175
185	Molecular dynamics simulation of strong interaction mechanisms at wet interfaces in clay polysaccharide nanocomposites. *Journal of Materials Chemistry A*, **2014**, 2, 9541-9547	13	23
184	Multipurpose ultra and superhydrophobic surfaces based on oligodimethylsiloxane-modified nanosilica. *ACS Applied Materials & Interfaces*, **2014**, 6, 18998-9010	9.5	30
183	Ductile all-cellulose nanocomposite films fabricated from core-shell structured cellulose nanofibrils. *Biomacromolecules*, **2014**, 15, 2218-23	6.9	61
182	On the use of nanocellulose as reinforcement in polymer matrix composites. *Composites Science and Technology*, **2014**, 105, 15-27	8.6	554
181	Topochemical acetylation of cellulose nanopaper structures for biocomposites: mechanisms for reduced water vapour sorption. *Cellulose*, **2014**, 21, 2773-2787	5.5	55
180	Highly ductile fibres and sheets by core-shell structuring of the cellulose nanofibrils. *Cellulose*, **2014** , 21, 323-333	5.5	54
179	Wood cell wall mimicking for composite films of spruce nanofibrillated cellulose with spruce galactoglucomannan and arabinoglucuronoxylan. *Journal of Materials Science*, **2014**, 49, 5043-5055	4.3	13

178	Nanostructured membranes based on native chitin nanofibers prepared by mild process. *Carbohydrate Polymers*, **2014**, 112, 255-63	10.3	73
177	Nanostructured biocomposite films of high toughness based on native chitin nanofibers and chitosan. *Frontiers in Chemistry*, **2014**, 2, 99	5	38
176	Cellulose Nanocomposites by Melt Compounding of TEMPO-Treated Wood Fibers in Thermoplastic Starch Matrix. *BioResources*, **2014**, 9,	1.3	21
175	Nanopaper membranes from chitin‐protein composite nanofibers‐structure and mechanical properties. *Journal of Applied Polymer Science*, **2014**, 131,	2.9	22
174	Toughness and Strength of Wood Cellulose-based Nanopaper and Nanocomposites. *Materials and Energy*, **2014**, 121-129		
173	Surface modification of cellulose nanocrystals by grafting with poly(lactic acid). *Polymer International*, **2014**, 63, 1056-1062	3.3	45
172	Superior mechanical performance of highly porous, anisotropic nanocellulose-montmorillonite aerogels prepared by freeze casting. *Journal of the Mechanical Behavior of Biomedical Materials*, **2014**, 37, 88-99	4.1	108
171	Nanofibrillated cellulose reinforced acetylated arabinoxylan films. *Composites Science and Technology*, **2014**, 98, 72-78	8.6	20
170	Deoxyguanosine phosphate mediated sacrificial bonds promote synergistic mechanical properties in nacre-mimetic nanocomposites. *Biomacromolecules*, **2013**, 14, 2531-5	6.9	21
169	Multifunctional nanoclay hybrids of high toughness, thermal, and barrier performances. *ACS Applied Materials & Interfaces*, **2013**, 5, 7613-20	9.5	64
168	An ultrastrong nanofibrillar biomaterial: the strength of single cellulose nanofibrils revealed via sonication-induced fragmentation. *Biomacromolecules*, **2013**, 14, 248-53	6.9	426
167	Tough nanopaper structures based on cellulose nanofibers and carbon nanotubes. *Composites Science and Technology*, **2013**, 87, 103-110	8.6	83
166	High-strength nanocellulose-talc hybrid barrier films. *ACS Applied Materials & Interfaces*, **2013**, 5, 13412-8	9.5	83
165	Nacre-mimetic clay/xyloglucan bionanocomposites: a chemical modification route for hygromechanical performance at high humidity. *Biomacromolecules*, **2013**, 14, 3842-9	6.9	38
164	Fire-retardant and ductile clay nanopaper biocomposites based on montmorrilonite in matrix of cellulose nanofibers and carboxymethyl cellulose. *European Polymer Journal*, **2013**, 49, 940-949	5.2	69
163	Nanocomposites of bacterial cellulose nanofibers and chitin nanocrystals: fabrication, characterization and bactericidal activity. *Green Chemistry*, **2013**, 15, 3404	10	104
162	Cellulose nanocrystals/polyurethane nanocomposites. Study from the viewpoint of microphase separated structure. *Carbohydrate Polymers*, **2013**, 92, 751-7	10.3	103
161	Ionically interacting nanoclay and nanofibrillated cellulose lead to tough bulk nanocomposites in compression by forced self-assembly. *Journal of Materials Chemistry B*, **2013**, 1, 835-840	7.3	25

160	Regioselective modification of a xyloglucan hemicellulose for high-performance biopolymer barrier films. *Carbohydrate Polymers*, **2013**, 93, 466-72	10.3	27
159	Cellulose nanofibers decorated with magnetic nanoparticles – synthesis, structure and use in magnetized high toughness membranes for a prototype loudspeaker. *Journal of Materials Chemistry C*, **2013**, 1, 7963	7.1	90
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