

# Warren J Batchelor

## 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.

102  
papers

1,551  
citations

22  
h-index

35  
g-index

110  
ext. papers

1,914  
ext. citations

6  
avg, IF

5.37  
L-index

#	Paper	IF	Citations
102	One-pot treatment of cellulose using iron oxide catalysts to produce nanocellulose and water-soluble oxidised cellulose.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 282, 119060	10.3	0
101	Life cycle assessment of cellulose nanofibril films via spray deposition and vacuum filtration pathways for small scale production. <i>Journal of Cleaner Production</i> , <b>2022</b> , 342, 130890	10.3	1
100	Cellulose nanocrystals to modulate the self-assembly of graphene oxide in suspension. <i>Materials and Design</i> , <b>2022</b> , 216, 110572	8.1	1
99	Preparation and benchmarking of novel cellulose nanopaper.. <i>Cellulose</i> , <b>2022</b> , 29, 1-19	5.5	1
98	The effect of pulp type on the performance of microfibrillar lignocellulosic bismuth-based active packaging material. <i>Cellulose</i> , <b>2022</b> , 29, 4599-4611	5.5	
97	Recent advancements, trends, fundamental challenges and opportunities in spray deposited cellulose nanofibril films for packaging applications.. <i>Science of the Total Environment</i> , <b>2022</b> , 155654	10.2	1
96	Depth filtration application of nanofibrillated cellulose-mesoporous silica nanoparticle composites as double-layer membranes. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 10, 106892	6.8	1
95	Biocompatibility and selective antibacterial activity of a bismuth phosphinato-nanocellulose hydrogel. <i>Cellulose</i> , <b>2021</b> , 28, 4701-4718	5.5	4
94	Moulding of micropatterned nanocellulose films and their application in fluid handling. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 587, 162-172	9.3	6
93	Simplification of gel point characterization of cellulose nano and microfiber suspensions. <i>Cellulose</i> , <b>2021</b> , 28, 6995-7006	5.5	5
92	Composites of mesoporous silica precipitated on nanofibrillated cellulose and microfibrillated cellulose: Effect of fibre diameter and reaction conditions on particle size and mesopore diameter. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 311, 110701	5.3	6
91	High-performance homogenized and spray coated nanofibrillated cellulose-montmorillonite barriers. <i>Cellulose</i> , <b>2021</b> , 28, 405-416	5.5	3
90	Particle size distributions for cellulose nanocrystals measured by atomic force microscopy: an interlaboratory comparison. <i>Cellulose</i> , <b>2021</b> , 28, 1387-1403	5.5	14
89	Influence of Size and Chemical Additives on the Fabrication of Micropattern Nanocellulose Films. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 11714-11723	8.3	0
88	Recycling cellulose nanofibers from wood pulps provides drainage improvements for high strength sheets in papermaking. <i>Journal of Cleaner Production</i> , <b>2021</b> , 312, 127731	10.3	4
87	Flotation as a separation technology for recovering pulp fines and sustainable nanocellulose production. <i>Separation and Purification Technology</i> , <b>2021</b> , 270, 118810	8.3	1
86	Bismuth phosphinato incorporated antibacterial filter paper for drinking water disinfection. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 627, 127167	5.1	1

85	Sustainable production process of mechanically prepared nanocellulose from hardwood and softwood: A comparative investigation of refining energy consumption at laboratory and pilot scale. <i>Industrial Crops and Products</i> , <b>2021</b> , 171, 113868	5.9	5
84	Impact of structural changes in heteroleptic bismuth phosphinates on their antibacterial activity in Bi-nanocellulose composites. <i>Dalton Transactions</i> , <b>2020</b> , 49, 7341-7354	4.3	4
83	Protein Paper from Exfoliated Eri Silk Nanofibers. <i>Biomacromolecules</i> , <b>2020</b> , 21, 1303-1314	6.9	7
82	Cellulose nanofiber diameter distributions from microscopy image analysis: effect of measurement statistics and operator. <i>Cellulose</i> , <b>2020</b> , 27, 4189-4208	5.5	6
81	Cellulose nanofibers from recycled and virgin wood pulp: A comparative study of fiber development. <i>Carbohydrate Polymers</i> , <b>2020</b> , 234, 115900	10.3	17
80	Polyamide-amine-epichlorohydrin (PAE) induced TiO nanoparticles assembly in cellulose network. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 575, 317-325	9.3	5
79	Bismuth phosphinate incorporated nanocellulose sheets with antimicrobial and barrier properties for packaging applications. <i>Journal of Cleaner Production</i> , <b>2020</b> , 246, 119016	10.3	26
78	Engineering surface roughness of nanocellulose film via spraying to produce smooth substrates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 589, 124396	5.1	10
77	Preparing Bombyx mori Silk Nanofibers Using a Sustainable and Scalable Approach. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 1155-1162	8.3	12
76	An energy efficient production of high moisture barrier nanocellulose/carboxymethyl cellulose films via spray-deposition technique. <i>Carbohydrate Polymers</i> , <b>2020</b> , 250, 116911	10.3	12
75	Impact of heat drying on the physical and environmental characteristics of the nanocellulose-based films produced via spray deposition technique. <i>Cellulose</i> , <b>2020</b> , 27, 10225-10239	5.5	4
74	ZnO/Cellulose Nanofiber Composites for Sustainable Sunlight-Driven Dye Degradation. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 10284-10295	5.6	14
73	Exfoliating B. mori silk into high aspect ratio nanofibrils facilitated by response surface methodology. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 164, 2389-2398	7.9	4
72	Characterizing highly fibrillated nanocellulose by modifying the gel point methodology. <i>Carbohydrate Polymers</i> , <b>2020</b> , 227, 115340	10.3	14
71	Development of a Paper-Based Microfluidic System for a Continuous High-Flow-Rate Fluid Manipulation. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 7307-7316	7.8	8
70	Cellulose fibre- perlite depth filters with cellulose nanofibre top coating for improved filtration performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 583, 123997	5.1	11
69	Evaluation of properties and specific energy consumption of spinifex-derived lignocellulose fibers produced using different mechanical processes. <i>Cellulose</i> , <b>2019</b> , 26, 6555-6569	5.5	10
68	Nanocellulose films as air and water vapour barriers: A recyclable and biodegradable alternative to polyolefin packaging. <i>Sustainable Materials and Technologies</i> , <b>2019</b> , 22, e00115	5.3	22

67	Effect of refining and homogenization on nanocellulose fiber development, sheet strength and energy consumption. <i>Cellulose</i> , <b>2019</b> , 26, 4767-4786	5.5	31
66	Priorities for development of standard test methods to support the commercialization of cellulose nanomaterials. <i>Tappi Journal</i> , <b>2019</b> , 18, 245-260	0.5	2
65	Nanocellulose for gel electrophoresis. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 540, 148-154	9.3	7
64	The use of cellulose nanofibres to reduce the wet strength polymer quantity for development of cleaner filters. <i>Journal of Cleaner Production</i> , <b>2019</b> , 215, 226-231	10.3	12
63	Carboxylated nanocellulose foams as superabsorbents. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 538, 433-439	9.3	26
62	Effects of fibre dimension and charge density on nanocellulose gels. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 525, 119-125	9.3	24
61	Engineering cellulose fibre inorganic composites for depth filtration and adsorption. <i>Separation and Purification Technology</i> , <b>2018</b> , 203, 209-216	8.3	17
60	Water Resistant Cellulose - Titanium Dioxide Composites for Photocatalysis. <i>Scientific Reports</i> , <b>2018</b> , 8, 2306	4.9	44
59	Flexible spray coating process for smooth nanocellulose film production. <i>Cellulose</i> , <b>2018</b> , 25, 1725-1741	5.5	29
58	Nanocellulose-montmorillonite composites of low water vapour permeability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 540, 233-241	5.1	32
57	Producing nanofibres from carrots with a chemical-free process. <i>Carbohydrate Polymers</i> , <b>2018</b> , 184, 307-314	5.4	29
56	Effect of nanoparticles size and polyelectrolyte on nanoparticles aggregation in a cellulose fibrous matrix. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 510, 190-198	9.3	12
55	Novel In-situ Precipitation Process to Engineer Low Permeability Porous Composite. <i>Scientific Reports</i> , <b>2018</b> , 8, 10747	4.9	7
54	Gelation mechanism of cellulose nanofibre gels: A colloids and interfacial perspective. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 509, 39-46	9.3	92
53	Cationic polyacrylamide induced nanoparticles assembly in a cellulose nanofiber network. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 529, 180-186	9.3	8
52	Bismuth Phosphinates in Bi-Nanocellulose Composites and their Efficacy towards Multi-Drug Resistant Bacteria. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 12938-12949	4.8	18
51	Multi-Layer Filters: Adsorption and Filtration Mechanisms for Improved Separation. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 417	5	10
50	Pickering Emulsions Electrostatically Stabilized by Cellulose Nanocrystals. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 409	5	56

49	Assembly of nanoparticles-polyelectrolyte complexes in nanofiber cellulose structures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 513, 373-379	5.1	9
48	Bio-deuterated cellulose thin films for enhanced contrast in neutron reflectometry. <i>Cellulose</i> , <b>2017</b> , 24, 11-20	5.5	13
47	A study on growth and pyrolysis characteristics of microalgae using Thermogravimetric Analysis-Infrared Spectroscopy and synchrotron Fourier Transform Infrared Spectroscopy. <i>Bioresource Technology</i> , <b>2017</b> , 229, 1-10	11	38
46	Rapid preparation of smooth nanocellulose films using spray coating. <i>Cellulose</i> , <b>2017</b> , 24, 2669-2676	5.5	36
45	Strong cellulose nanofibre-silica composites with controllable pore structure. <i>Cellulose</i> , <b>2017</b> , 24, 2511-2521	5.5	17
44	Building Dual-Scale Roughness Using Inorganic Pigments for Fabrication of Superhydrophobic Paper. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 3618-3628	3.9	19
43	Microfibrillated cellulose as a model for soft colloid flocculation with polyelectrolytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 516, 325-335	5.1	14
42	Visualization and Quantification of IgG Antibody Adsorbed at the Cellulose-Liquid Interface. <i>Biomacromolecules</i> , <b>2017</b> , 18, 2439-2445	6.9	14
41	Upgrading waste whitewater fines from a pinus radiata thermomechanical pulping mill. <i>Nordic Pulp and Paper Research Journal</i> , <b>2017</b> , 32, 656-665	1.1	0
40	Smooth deuterated cellulose films for the visualisation of adsorbed bio-macromolecules. <i>Scientific Reports</i> , <b>2016</b> , 6, 36119	4.9	18
39	Cellulose nanofibre aerogel filter with tuneable pore structure for oil/water separation and recovery. <i>RSC Advances</i> , <b>2016</b> , 6, 21435-21438	3.7	44
38	Matching the biomass to the bioproduct. <i>ChemistrySelect</i> , <b>2016</b> , 1,	1.8	1
37	1. Matching the biomass to the bioproduct <b>2016</b> , 1-44		2
36	Engineering cellulose nanofibre suspensions to control filtration resistance and sheet permeability. <i>Cellulose</i> , <b>2016</b> , 23, 391-402	5.5	14
35	Gel point as a measure of cellulose nanofibre quality and feedstock development with mechanical energy. <i>Cellulose</i> , <b>2016</b> , 23, 3051-3064	5.5	31
34	Effect of polyelectrolyte morphology and adsorption on the mechanism of nanocellulose flocculation. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 481, 158-67	9.3	35
33	Adsorption of cationic polyacrylamide at the cellulose-liquid interface: a neutron reflectometry study. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 448, 88-99	9.3	13
32	Intrinsic tensile properties of cocoon silk fibres can be estimated by removing flaws through repeated tensile tests. <i>Journal of the Royal Society Interface</i> , <b>2015</b> , 12,	4.1	17

31	Cellulose nanofibre composite membranes [Biodegradable and recyclable UF membranes. <i>Chemical Engineering Journal</i> , <b>2015</b> , 265, 138-146	14.7	61
30	Effect of cationic polyacrylamide on the processing and properties of nanocellulose films. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 447, 113-9	9.3	30
29	Superior non-woven sheet forming characteristics of low-density cationic polymer-cellulose nanofibre colloids. <i>Cellulose</i> , <b>2014</b> , 21, 3541-3550	5.5	16
28	Paper engineered with cellulosic additives: effect of length scale. <i>Cellulose</i> , <b>2014</b> , 21, 2901-2911	5.5	18
27	Life cycle assessment comparison of industrial effluent management strategies. <i>Journal of Cleaner Production</i> , <b>2014</b> , 79, 168-181	10.3	14
26	Effect of paper and printing press variables on the rates of adhesion failure in the linting of offset printing. <i>Journal of Adhesion Science and Technology</i> , <b>2014</b> , 28, 1935-1948	2	1
25	The Trade-off Between Environmental Impacts in Water Recycling Systems Using Industrial Effluent. <i>Journal of Industrial Ecology</i> , <b>2014</b> , 18, 771-783	7.2	4
24	Estimation of cellulose nanofibre aspect ratio from measurements of fibre suspension gel point. <i>Cellulose</i> , <b>2013</b> , 20, 1885-1896	5.5	98
23	Effect of tethered and free microfibrillated cellulose (MFC) on the properties of paper composites. <i>Cellulose</i> , <b>2013</b> , 20, 1925-1935	5.5	31
22	Rapid preparation of cellulose nanofibre sheet. <i>Cellulose</i> , <b>2013</b> , 20, 211-215	5.5	53
21	Life Cycle Assessment of Advanced Industrial Wastewater Treatment Within an Urban Environment. <i>Journal of Industrial Ecology</i> , <b>2013</b> , 17, 712-721	7.2	9
20	Investigation of lint particle adhesion in offset printing using Weibull statistics. <i>Journal of Adhesion Science and Technology</i> , <b>2013</b> , 27, 339-353	2	2
19	Effect of cellulose nanofiber dimensions on sheet forming through filtration. <i>Cellulose</i> , <b>2012</b> , 19, 561-574	4.5	75
18	Application and interpretation of zero and short-span testing on nanofibre sheet materials. <i>Nordic Pulp and Paper Research Journal</i> , <b>2012</b> , 27, 343-351	1.1	13
17	Water interaction in paper cellulose fibres as investigated by NMR pulsed field gradient. <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 361-367	10.3	16
16	Investigation of the effect of drying and refining on the fiber fiber shear bond strength measured using tensile fracture line analysis of sheets weakened by acid gas exposure. <i>Cellulose</i> , <b>2011</b> , 18, 1407-1421	5.5	7
15	Characterisation of Lint Particle Removal in Offset Printing with Weibull Statistics. <i>Journal of Adhesion Science and Technology</i> , <b>2010</b> , 24, 619-633	2	2
14	Surface-sensitive method to determine calcium carbonate filler contents in cellulose matrices. <i>Cellulose</i> , <b>2010</b> , 17, 407-415	5.5	3

13	An analytical solution for the load distribution along a fibre in a nonwoven network. <i>Mechanics of Materials</i> , <b>2008</b> , 40, 975-981	3.3	5
12	An analytical model for number of fibre-fibre contacts in paper and expressions for relative bonded area (RBA). <i>Journal of Materials Science</i> , <b>2007</b> , 42, 522-528	4.3	10
11	Acoustic emission and tack of heat-set inks during setting on MWC-papers and fountain solution emulsification. <i>Nordic Pulp and Paper Research Journal</i> , <b>2007</b> , 22, 432-440	1.1	
10	Calculation of the relative bonded area and scattering coefficient from sheet density and fibre shape. <i>Holzforschung</i> , <b>2006</b> , 60, 253-258	2	6
9	EPR and optical absorption studies of Cr <sup>3+</sup> ions in alkaline earth aluminoborate glasses. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 8377-8381	4.3	22
8	Analysis of strains in the fracture process zone. <i>Nordic Pulp and Paper Research Journal</i> , <b>2005</b> , 20, 392-398	1.1	1
7	Measurement of short span stress-strain curves of paper. <i>Nordic Pulp and Paper Research Journal</i> , <b>2003</b> , 18, 44-50	1.1	3
6	A new cyclic loading method for measuring sheet fracture toughness. <i>International Journal of Fracture</i> , <b>2003</b> , 123, 15-27	2.3	2
5	Refining and the development of fibre properties. <i>Nordic Pulp and Paper Research Journal</i> , <b>1999</b> , 14, 285-291	1.1	10
4	Monoclinic Phase Measurement in Mg-PSZ Using X-ray Diffraction. <i>Journal of the American Ceramic Society</i> , <b>1996</b> , 79, 2477-2480	3.8	
3	Thermal expansion measurements on creep tested Mg-PSZ. <i>Thermochimica Acta</i> , <b>1993</b> , 218, 113-122	2.9	
2	Contributions of Transformation and Microcracking to the Plastic Deformation of Magnesia-Partially-Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , <b>1993</b> , 76, 1895-1897	3.8	2
1	ASSURED-compliant point-of-care diagnostics for the detection of human viral infections. <i>Reviews in Medical Virology</i> , e2263	11.7	2