

Warren J Batchelor

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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	Estimation of cellulose nanofibre aspect ratio from measurements of fibre suspension gel point. <i>Cellulose</i> , 2013 , 20, 1885-1896	5.5	98
101	Gelation mechanism of cellulose nanofibre gels: A colloids and interfacial perspective. <i>Journal of Colloid and Interface Science</i> , 2018 , 509, 39-46	9.3	92
100	Effect of cellulose nanofiber dimensions on sheet forming through filtration. <i>Cellulose</i> , 2012 , 19, 561-574	5.5	75
99	Cellulose nanofibre composite membranes [Biodegradable and recyclable UF membranes. <i>Chemical Engineering Journal</i> , 2015 , 265, 138-146	14.7	61
98	Pickering Emulsions Electrostatically Stabilized by Cellulose Nanocrystals. <i>Frontiers in Chemistry</i> , 2018 , 6, 409	5	56
97	Rapid preparation of cellulose nanofibre sheet. <i>Cellulose</i> , 2013 , 20, 211-215	5.5	53
96	Water Resistant Cellulose - Titanium Dioxide Composites for Photocatalysis. <i>Scientific Reports</i> , 2018 , 8, 2306	4.9	44
95	Cellulose nanofibre aerogel filter with tuneable pore structure for oil/water separation and recovery. <i>RSC Advances</i> , 2016 , 6, 21435-21438	3.7	44
94	A study on growth and pyrolysis characteristics of microalgae using Thermogravimetric Analysis-Infrared Spectroscopy and synchrotron Fourier Transform Infrared Spectroscopy. <i>Bioresource Technology</i> , 2017 , 229, 1-10	11	38
93	Rapid preparation of smooth nanocellulose films using spray coating. <i>Cellulose</i> , 2017 , 24, 2669-2676	5.5	36
92	Effect of polyelectrolyte morphology and adsorption on the mechanism of nanocellulose flocculation. <i>Journal of Colloid and Interface Science</i> , 2016 , 481, 158-67	9.3	35
91	Nanocellulose-montmorillonite composites of low water vapour permeability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 540, 233-241	5.1	32
90	Effect of refining and homogenization on nanocellulose fiber development, sheet strength and energy consumption. <i>Cellulose</i> , 2019 , 26, 4767-4786	5.5	31
89	Effect of tethered and free microfibrillated cellulose (MFC) on the properties of paper composites. <i>Cellulose</i> , 2013 , 20, 1925-1935	5.5	31
88	Gel point as a measure of cellulose nanofibre quality and feedstock development with mechanical energy. <i>Cellulose</i> , 2016 , 23, 3051-3064	5.5	31
87	Effect of cationic polyacrylamide on the processing and properties of nanocellulose films. <i>Journal of Colloid and Interface Science</i> , 2015 , 447, 113-9	9.3	30
86	Flexible spray coating process for smooth nanocellulose film production. <i>Cellulose</i> , 2018 , 25, 1725-1741	5.5	29

85	Producing nanofibres from carrots with a chemical-free process. <i>Carbohydrate Polymers</i> , 2018 , 184, 307-314	10.3	29
84	Bismuth phosphinate incorporated nanocellulose sheets with antimicrobial and barrier properties for packaging applications. <i>Journal of Cleaner Production</i> , 2020 , 246, 119016	10.3	26
83	Carboxylated nanocellulose foams as superabsorbents. <i>Journal of Colloid and Interface Science</i> , 2019 , 538, 433-439	9.3	26
82	Effects of fibre dimension and charge density on nanocellulose gels. <i>Journal of Colloid and Interface Science</i> , 2018 , 525, 119-125	9.3	24
81	Nanocellulose films as air and water vapour barriers: A recyclable and biodegradable alternative to polyolefin packaging. <i>Sustainable Materials and Technologies</i> , 2019 , 22, e00115	5.3	22
80	EPR and optical absorption studies of Cr ³⁺ ions in alkaline earth alumino borate glasses. <i>Journal of Materials Science</i> , 2006 , 41, 8377-8381	4.3	22
79	Building Dual-Scale Roughness Using Inorganic Pigments for Fabrication of Superhydrophobic Paper. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 3618-3628	3.9	19
78	Smooth deuterated cellulose films for the visualisation of adsorbed bio-macromolecules. <i>Scientific Reports</i> , 2016 , 6, 36119	4.9	18
77	Bismuth Phosphinates in Bi-Nanocellulose Composites and their Efficacy towards Multi-Drug Resistant Bacteria. <i>Chemistry - A European Journal</i> , 2018 , 24, 12938-12949	4.8	18
76	Paper engineered with cellulosic additives: effect of length scale. <i>Cellulose</i> , 2014 , 21, 2901-2911	5.5	18
75	Strong cellulose nanofibre/silica composites with controllable pore structure. <i>Cellulose</i> , 2017 , 24, 2511-2521	5.5	17
74	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> , 2015 , 12,	4.1	17
73	Cellulose nanofibers from recycled and virgin wood pulp: A comparative study of fiber development. <i>Carbohydrate Polymers</i> , 2020 , 234, 115900	10.3	17
72	Engineering cellulose fibre inorganic composites for depth filtration and adsorption. <i>Separation and Purification Technology</i> , 2018 , 203, 209-216	8.3	17
71	Superior non-woven sheet forming characteristics of low-density cationic polymer-cellulose nanofibre colloids. <i>Cellulose</i> , 2014 , 21, 3541-3550	5.5	16
70	Water interaction in paper cellulose fibres as investigated by NMR pulsed field gradient. <i>Carbohydrate Polymers</i> , 2012 , 87, 361-367	10.3	16
69	Microfibrillated cellulose as a model for soft colloid flocculation with polyelectrolytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 516, 325-335	5.1	14
68	Life cycle assessment comparison of industrial effluent management strategies. <i>Journal of Cleaner Production</i> , 2014 , 79, 168-181	10.3	14

67	Visualization and Quantification of IgG Antibody Adsorbed at the Cellulose-Liquid Interface. <i>Biomacromolecules</i> , 2017 , 18, 2439-2445	6.9	14
66	ZnO/Cellulose Nanofiber Composites for Sustainable Sunlight-Driven Dye Degradation. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10284-10295	5.6	14
65	Engineering cellulose nanofibre suspensions to control filtration resistance and sheet permeability. <i>Cellulose</i> , 2016 , 23, 391-402	5.5	14
64	Characterizing highly fibrillated nanocellulose by modifying the gel point methodology. <i>Carbohydrate Polymers</i> , 2020 , 227, 115340	10.3	14
63	Particle size distributions for cellulose nanocrystals measured by atomic force microscopy: an interlaboratory comparison. <i>Cellulose</i> , 2021 , 28, 1387-1403	5.5	14
62	Bio-deuterated cellulose thin films for enhanced contrast in neutron reflectometry. <i>Cellulose</i> , 2017 , 24, 11-20	5.5	13
61	Adsorption of cationic polyacrylamide at the cellulose-liquid interface: a neutron reflectometry study. <i>Journal of Colloid and Interface Science</i> , 2015 , 448, 88-99	9.3	13
60	Application and interpretation of zero and short-span testing on nanofibre sheet materials. <i>Nordic Pulp and Paper Research Journal</i> , 2012 , 27, 343-351	1.1	13
59	Effect of nanoparticles size and polyelectrolyte on nanoparticles aggregation in a cellulose fibrous matrix. <i>Journal of Colloid and Interface Science</i> , 2018 , 510, 190-198	9.3	12
58	Preparing Bombyx mori Silk Nanofibers Using a Sustainable and Scalable Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1155-1162	8.3	12
57	An energy efficient production of high moisture barrier nanocellulose/carboxymethyl cellulose films via spray-deposition technique. <i>Carbohydrate Polymers</i> , 2020 , 250, 116911	10.3	12
56	The use of cellulose nanofibres to reduce the wet strength polymer quantity for development of cleaner filters. <i>Journal of Cleaner Production</i> , 2019 , 215, 226-231	10.3	12
55	Cellulose fibre- perlite depth filters with cellulose nanofibre top coating for improved filtration performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 583, 123997	5.1	11
54	Evaluation of properties and specific energy consumption of spinifex-derived lignocellulose fibers produced using different mechanical processes. <i>Cellulose</i> , 2019 , 26, 6555-6569	5.5	10
53	An analytical model for number of fibre-fibre contacts in paper and expressions for relative bonded area (RBA). <i>Journal of Materials Science</i> , 2007 , 42, 522-528	4.3	10
52	Refining and the development of fibre properties. <i>Nordic Pulp and Paper Research Journal</i> , 1999 , 14, 285-291	10.1	10
51	Engineering surface roughness of nanocellulose film via spraying to produce smooth substrates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 589, 124396	5.1	10
50	Multi-Layer Filters: Adsorption and Filtration Mechanisms for Improved Separation. <i>Frontiers in Chemistry</i> , 2018 , 6, 417	5	10

49	Assembly of nanoparticles-polyelectrolyte complexes in nanofiber cellulose structures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 513, 373-379	5.1	9
48	Life Cycle Assessment of Advanced Industrial Wastewater Treatment Within an Urban Environment. <i>Journal of Industrial Ecology</i> , 2013 , 17, 712-721	7.2	9
47	Cationic polyacrylamide induced nanoparticles assembly in a cellulose nanofiber network. <i>Journal of Colloid and Interface Science</i> , 2018 , 529, 180-186	9.3	8
46	Development of a Paper-Based Microfluidic System for a Continuous High-Flow-Rate Fluid Manipulation. <i>Analytical Chemistry</i> , 2020 , 92, 7307-7316	7.8	8
45	Protein Paper from Exfoliated Eri Silk Nanofibers. <i>Biomacromolecules</i> , 2020 , 21, 1303-1314	6.9	7
44	Novel In-situ Precipitation Process to Engineer Low Permeability Porous Composite. <i>Scientific Reports</i> , 2018 , 8, 10747	4.9	7
43	Investigation of the effect of drying and refining on the fiber shear bond strength measured using tensile fracture line analysis of sheets weakened by acid gas exposure. <i>Cellulose</i> , 2011 , 18, 1407-1421	5.5	7
42	Nanocellulose for gel electrophoresis. <i>Journal of Colloid and Interface Science</i> , 2019 , 540, 148-154	9.3	7
41	Cellulose nanofiber diameter distributions from microscopy image analysis: effect of measurement statistics and operator. <i>Cellulose</i> , 2020 , 27, 4189-4208	5.5	6
40	Calculation of the relative bonded area and scattering coefficient from sheet density and fibre shape. <i>Holzforschung</i> , 2006 , 60, 253-258	2	6
39	Moulding of micropatterned nanocellulose films and their application in fluid handling. <i>Journal of Colloid and Interface Science</i> , 2021 , 587, 162-172	9.3	6
38	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> , 2021 , 311, 110701	5.3	6
37	Polyamide-amine-epichlorohydrin (PAE) induced TiO nanoparticles assembly in cellulose network. <i>Journal of Colloid and Interface Science</i> , 2020 , 575, 317-325	9.3	5
36	An analytical solution for the load distribution along a fibre in a nonwoven network. <i>Mechanics of Materials</i> , 2008 , 40, 975-981	3.3	5
35	Simplification of gel point characterization of cellulose nano and microfiber suspensions. <i>Cellulose</i> , 2021 , 28, 6995-7006	5.5	5
34	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> , 2021 , 171, 113868	5.9	5
33	Impact of structural changes in heteroleptic bismuth phosphinates on their antibacterial activity in Bi-nanocellulose composites. <i>Dalton Transactions</i> , 2020 , 49, 7341-7354	4.3	4
32	The Trade-off Between Environmental Impacts in Water Recycling Systems Using Industrial Effluent. <i>Journal of Industrial Ecology</i> , 2014 , 18, 771-783	7.2	4

31	Impact of heat drying on the physical and environmental characteristics of the nanocellulose-based films produced via spray deposition technique. <i>Cellulose</i> , 2020 , 27, 10225-10239	5.5	4
30	Exfoliating B. mori silk into high aspect ratio nanofibrils facilitated by response surface methodology. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 2389-2398	7.9	4
29	Biocompatibility and selective antibacterial activity of a bismuth phosphinato-nanocellulose hydrogel. <i>Cellulose</i> , 2021 , 28, 4701-4718	5.5	4
28	Recycling cellulose nanofibers from wood pulps provides drainage improvements for high strength sheets in papermaking. <i>Journal of Cleaner Production</i> , 2021 , 312, 127731	10.3	4
27	Surface-sensitive method to determine calcium carbonate filler contents in cellulose matrices. <i>Cellulose</i> , 2010 , 17, 407-415	5.5	3
26	Measurement of short span stress-strain curves of paper. <i>Nordic Pulp and Paper Research Journal</i> , 2003 , 18, 44-50	1.1	3
25	High-performance homogenized and spray coated nanofibrillated cellulose-montmorillonite barriers. <i>Cellulose</i> , 2021 , 28, 405-416	5.5	3
24	Investigation of lint particle adhesion in offset printing using Weibull statistics. <i>Journal of Adhesion Science and Technology</i> , 2013 , 27, 339-353	2	2
23	Characterisation of Lint Particle Removal in Offset Printing with Weibull Statistics. <i>Journal of Adhesion Science and Technology</i> , 2010 , 24, 619-633	2	2
22	A new cyclic loading method for measuring sheet fracture toughness. <i>International Journal of Fracture</i> , 2003 , 123, 15-27	2.3	2
21	Contributions of Transformation and Microcracking to the Plastic Deformation of Magnesia-Partially-Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 1895-1897	3.8	2
20	Priorities for development of standard test methods to support the commercialization of cellulose nanomaterials. <i>Tappi Journal</i> , 2019 , 18, 245-260	0.5	2
19	ASSURED-compliant point-of-care diagnostics for the detection of human viral infections. <i>Reviews in Medical Virology</i> , e2263	11.7	2
18	1. Matching the biomass to the bioproduct 2016 , 1-44		2
17	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> , 2014 , 28, 1935-1948	2	1
16	Depth filtration application of nanofibrillated cellulose-mesoporous silica nanoparticle composites as double-layer membranes. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 10, 106892	6.8	1
15	Analysis of strains in the fracture process zone. <i>Nordic Pulp and Paper Research Journal</i> , 2005 , 20, 392-398	8.1	1
14	Matching the biomass to the bioproduct. <i>ChemistrySelect</i> , 2016 , 1,	1.8	1

13	Flotation as a separation technology for recovering pulp fines and sustainable nanocellulose production. <i>Separation and Purification Technology</i> , 2021 , 270, 118810	8.3	1
12	Bismuth phosphinato incorporated antibacterial filter paper for drinking water disinfection. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 627, 127167	5.1	1
11	Life cycle assessment of cellulose nanofibril films via spray deposition and vacuum filtration pathways for small scale production. <i>Journal of Cleaner Production</i> , 2022 , 342, 130890	10.3	1
10	Cellulose nanocrystals to modulate the self-assembly of graphene oxide in suspension. <i>Materials and Design</i> , 2022 , 216, 110572	8.1	1
9	Preparation and benchmarking of novel cellulose nanopaper.. <i>Cellulose</i> , 2022 , 29, 1-19	5.5	1
8	Recent advancements, trends, fundamental challenges and opportunities in spray deposited cellulose nanofibril films for packaging applications.. <i>Science of the Total Environment</i> , 2022 , 155654	10.2	1
7	Upgrading waste whitewater fines from a pinus radiata thermomechanical pulping mill. <i>Nordic Pulp and Paper Research Journal</i> , 2017 , 32, 656-665	1.1	0
6	One-pot treatment of cellulose using iron oxide catalysts to produce nanocellulose and water-soluble oxidised cellulose.. <i>Carbohydrate Polymers</i> , 2022 , 282, 119060	10.3	0
5	Influence of Size and Chemical Additives on the Fabrication of Micropattern Nanocellulose Films. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 11714-11723	8.3	0
4	Monoclinic Phase Measurement in Mg-PSZ Using X-ray Diffraction. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 2477-2480	3.8	
3	Thermal expansion measurements on creep tested Mg-PSZ. <i>Thermochimica Acta</i> , 1993 , 218, 113-122	2.9	
2	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> , 2007 , 22, 432-440	1.1	
1	The effect of pulp type on the performance of microfibrillar lignocellulosic bismuth-based active packaging material. <i>Cellulose</i> , 2022 , 29, 4599-4611	5.5	