

# Patrick Gane

## List of Publications by Year in descending order

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51  
papers

1,443  
citations

331670

21  
h-index

330143

37  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1744  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modification of CaCO <sub>3</sub> and CaCO <sub>3</sub> pin-coated cellulose paper under supercritical carbon dioxide-ethanol mixture for enhanced NO <sub>2</sub> capture. Environmental Science and Pollution Research, 2022, 29, 11707-11717.	5.3	6
2	Extending waste paper, cellulose and filler use beyond recycling by entering the circular economy creating cellulose-CaCO <sub>3</sub> composites reconstituted from ionic liquid. Cellulose, 2022, 29, 5037-5059.	4.9	7
3	Impact of Bimodal Particle Size Distribution Ratio of Functional Calcium Carbonate Filler on Thermal and Flowability Properties of Polyamide 12. Applied Sciences (Switzerland), 2021, 11, 641.	2.5	3
4	Calcium Carbonate as Functional Filler in Polyamide 12-Manipulation of the Thermal and Mechanical Properties. Processes, 2021, 9, 937.	2.8	4
5	Iso- and Anisotropic Etching of Micro Nanofibrillated Cellulose Films by Sequential Oxygen and Nitrogen Gas Plasma Exposure for Tunable Wettability on Crystalline and Amorphous Regions. Materials, 2021, 14, 3571.	2.9	6
6	Simultaneous investigation of the liquid transport and swelling performance during tablet disintegration. International Journal of Pharmaceutics, 2020, 584, 119380.	5.2	27
7	Fully inkjet-printed glucose assay fabricated on highly porous pigment coating. Microfluidics and Nanofluidics, 2020, 24, 1.	2.2	3
8	Unveiling a Recycling-Sourced Mineral-Biocellulose Fibre Composite for Use in Combustion-Generated NO <sub>x</sub> Mitigation Forming Plant Nutrient: Meeting Sustainability Development Goals in the Circular Economy. Applied Sciences (Switzerland), 2020, 10, 3927.	2.5	10
9	Influence of the Surface Modification of Calcium Carbonate on Polyamide 12 Composites. Polymers, 2020, 12, 1295.	4.5	11
10	Inkjet jettability and physical characterization of water-ethanol solutions of low molecular weight sodium polyacrylate and poly-diallyl dimethyl ammonium chloride (polyDADMAC). AIP Advances, 2020, 10, .	1.3	3
11	Multidimensional Co-Exfoliated Activated Graphene-Based Carbon Hybrid for Supercapacitor Electrode. Energy Technology, 2019, 7, 1900578.	3.8	5
12	Investigating chromatographic interactions in porous pigment coatings between inkjettable polyelectrolytes and model colorant solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 579, 123676.	4.7	3
13	Nitrogen plasma surface treatment for improving polar ink adhesion on micro/nanofibrillated cellulose films. Cellulose, 2019, 26, 3845-3857.	4.9	10
14	Characterising exfoliated few-layer graphene interactions in co-processed nanofibrillated cellulose suspension via water retention and dispersion rheology. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 242, 37-51.	3.5	4
15	Stochastic transient Liquid-Solid Phase Separation reveals multi-level Dispersion States of Particles in Suspension. Applied Rheology, 2019, 29, 41-57.	5.2	0
16	Rheology of microfibrillated cellulose (MFC) suspensions: influence of the degree of fibrillation and residual fibre content on flow and viscoelastic properties. Cellulose, 2019, 26, 845-860.	4.9	23
17	A comparative study of mechanical, thermal and electrical properties of graphene-, graphene oxide- and reduced graphene oxide-doped microfibrillated cellulose nanocomposites. Composites Part B: Engineering, 2018, 147, 104-113.	12.0	128
18	Co-exfoliation and fabrication of graphene based microfibrillated cellulose composites - mechanical and thermal stability and functional conductive properties. Nanoscale, 2018, 10, 9569-9582.	5.6	20

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19	Characterisation of pore structures of pharmaceutical tablets: A review. <i>International Journal of Pharmaceutics</i> , 2018, 538, 188-214.	5.2	90
20	The investigation of rheological and strength properties of NFC hydrogels and aerogels from hardwood pulp by short catalytic bleaching (Hcat). <i>Cellulose</i> , 2018, 25, 1637-1655.	4.9	9
21	Fast and non-destructive pore structure analysis using terahertz time-domain spectroscopy. <i>International Journal of Pharmaceutics</i> , 2018, 537, 102-110.	5.2	27
22	Influence of shear rheometer measurement systems on the rheological properties of microfibrillated cellulose (MFC) suspensions. <i>Cellulose</i> , 2018, 25, 961-976.	4.9	22
23	Resolving the rapid water absorption of porous functionalised calcium carbonate powder compacts by terahertz pulsed imaging. <i>Chemical Engineering Research and Design</i> , 2018, 132, 1082-1090.	5.6	28
24	Effect of fibril length, aspect ratio and surface charge on ultralow shear-induced structuring in micro and nanofibrillated cellulose aqueous suspensions. <i>Cellulose</i> , 2018, 25, 117-136.	4.9	28
25	Enhancing the Stability of Aqueous Dispersions and Foams Comprising Cellulose Nanofibrils (CNF) with CaCO <sub>3</sub> Particles. <i>Nanomaterials</i> , 2018, 8, 651.	4.1	17
26	Influence of aqueous Mg concentration on the transformation of amorphous calcium carbonate. <i>Journal of Crystal Growth</i> , 2018, 498, 381-390.	1.5	44
27	Microfluidic Lateral Flow Cytochrome P450 Assay on a Novel Printed Functionalized Calcium Carbonate-Based Platform for Rapid Screening of Human Xenobiotic Metabolism. <i>Advanced Functional Materials</i> , 2018, 28, 1802793.	14.9	15
28	Structural evidence for the timescale separated liquid imbibition phenomenon in porous media. <i>Powder Technology</i> , 2017, 310, 8-16.	4.2	5
29	Micro nanofibrillated cellulose (MNFC) gel dewatering induced at ultralow-shear in presence of added colloidal-unstable particles. <i>Cellulose</i> , 2017, 24, 1463-1481.	4.9	26
30	Revealing the Components at Work in Classical Liquid Imbibition Models: Inertial, Bosanquet and Viscous Lucas-Washburn Applied to Printing. <i>Lecture Notes in Electrical Engineering</i> , 2017, , 987-995.	0.4	2
31	High-concentration shear-exfoliated colloidal dispersion of surfactant-polymer-stabilized few-layer graphene sheets. <i>Journal of Materials Science</i> , 2017, 52, 8321-8337.	3.7	47
32	Characterization of the Pore Structure of Functionalized Calcium Carbonate Tablets by Terahertz Time-Domain Spectroscopy and X-Ray Computed Microtomography. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 1586-1595.	3.3	59
33	Inkjet printed polyelectrolyte patterns for analyte separation on inherently porous microfluidic analytical designs. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 522, 218-232.	4.7	6
34	Acid dissociation of surface bound water on cellulose nanofibrils in aqueous micro nanofibrillated cellulose (MNFC) gel revealed by adsorption of calcium carbonate nanoparticles under the application of ultralow shear. <i>Cellulose</i> , 2017, 24, 3155-3178.	4.9	11
35	General overview of graphene: Production, properties and application in polymer composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 215, 9-28.	3.5	289
36	Contrasting liquid imbibition into uncoated versus pigment coated paper enables a description of imbibition into new-generation surface-filled paper. <i>European Physical Journal E</i> , 2017, 40, 111.	1.6	5

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37	Hydrophobic patterning of functional porous pigment coatings by inkjet printing. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	18
38	Rheological investigation of complex micro and nanofibrillated cellulose (MNFC) suspensions: Discussion of flow curves and gel stability. <i>Tappi Journal</i> , 2016, 15, 405-416.	0.5	17
39	Application of pigmented coating colours containing MFC/NFC: Coating properties and link to rheology. <i>Nordic Pulp and Paper Research Journal</i> , 2015, 30, 165-178.	0.7	19
40	From colloidal spheres to nanofibrils: Extensional flow properties of mineral pigment and mixtures with micro and nanofibrils under progressive double layer suppression. <i>Journal of Colloid and Interface Science</i> , 2015, 446, 31-43.	9.4	23
41	Comparing the rheological properties of novel nanofibrillar cellulose-formulated pigment coating colours with those using traditional thickener. <i>Nordic Pulp and Paper Research Journal</i> , 2014, 29, 253-270.	0.7	27
42	Pore wall rugosity: The role of extended wetting contact line length during spontaneous liquid imbibition in porous media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 443, 286-295.	4.7	22
43	Influence on Pore Structure of Micro/Nanofibrillar Cellulose in Pigmented Coating Formulations. <i>Transport in Porous Media</i> , 2014, 103, 155-179.	2.6	23
44	Spontaneous Inertial Imbibition in Porous Media Using a Fractal Representation of Pore Wall Rugosity. <i>Transport in Porous Media</i> , 2014, 104, 231-251.	2.6	16
45	Compaction of functionalized calcium carbonate, a porous and crystalline microparticulate material with a lamellar surface. <i>International Journal of Pharmaceutics</i> , 2014, 466, 266-275.	5.2	32
46	The role of MFC/NFC swelling in the rheological behavior and dewatering of high consistency furnishes. <i>Cellulose</i> , 2013, 20, 2847-2861.	4.9	73
47	Short time spreading and wetting of offset printing liquids on model calcium carbonate coating structures. <i>Journal of Colloid and Interface Science</i> , 2012, 369, 426-434.	9.4	15
48	Limitations of Current Formulations when Decreasing the Coating Layer Thickness of Papers for Inkjet Printing. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 7251-7263.	3.7	13
49	A review of modified surfaces for high speed inkjet coating. <i>Surface and Coatings Technology</i> , 2010, 204, 2103-2109.	4.8	86
50	Achieving Rapid Absorption and Extensive Liquid Uptake Capacity in Porous Structures by Decoupling Capillarity and Permeability: Nanoporous Modified Calcium Carbonate. <i>Transport in Porous Media</i> , 2006, 63, 239-259.	2.6	24
51	Separation of off-set ink components during absorption into pigment coating structures. <i>Nordic Pulp and Paper Research Journal</i> , 2000, 15, 527-535.	0.7	32