

Patrick Gane

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3555136/publications.pdf>

Version: 2024-02-01

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	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
2	A comparative study of mechanical, thermal and electrical properties of graphene-, graphene oxide- and reduced graphene oxide-doped microfibrillated cellulose nanocomposites. <i>Composites Part B: Engineering</i> , 2018, 147, 104-113.	12.0	128
3	Characterisation of pore structures of pharmaceutical tablets: A review. <i>International Journal of Pharmaceutics</i> , 2018, 538, 188-214.	5.2	90
4	A review of modified surfaces for high speed inkjet coating. <i>Surface and Coatings Technology</i> , 2010, 204, 2103-2109.	4.8	86
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	Simultaneous investigation of the liquid transport and swelling performance during tablet disintegration. <i>International Journal of Pharmaceutics</i> , 2020, 584, 119380.	5.2	27
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Rheology of microfibrillated cellulose (MFC) suspensions: influence of the degree of fibrillation and residual fibre content on flow and viscoelastic properties. <i>Cellulose</i> , 2019, 26, 845-860.	4.9	23
21	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
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	Co-exfoliation and fabrication of graphene based microfibrillated cellulose composites – mechanical and thermal stability and functional conductive properties. <i>Nanoscale</i> , 2018, 10, 9569-9582.	5.6	20
24	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
25	Hydrophobic patterning of functional porous pigment coatings by inkjet printing. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	18
26	Enhancing the Stability of Aqueous Dispersions and Foams Comprising Cellulose Nanofibrils (CNF) with CaCO ₃ Particles. <i>Nanomaterials</i> , 2018, 8, 651.	4.1	17
27	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
28	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
29	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
30	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
31	Limitations of Current Formulations when Decreasing the Coating Layer Thickness of Papers for Inkjet Printing. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 7251-7263.	3.7	13
32	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
33	Influence of the Surface Modification of Calcium Carbonate on Polyamide 12 Composites. <i>Polymers</i> , 2020, 12, 1295.	4.5	11
34	Nitrogen plasma surface treatment for improving polar ink adhesion on micro/nanofibrillated cellulose films. <i>Cellulose</i> , 2019, 26, 3845-3857.	4.9	10
35	Unveiling a Recycling-Sourced Mineral-Biocellulose Fibre Composite for Use in Combustion-Generated NO _x Mitigation Forming Plant Nutrient: Meeting Sustainability Development Goals in the Circular Economy. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3927.	2.5	10
36	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

#	ARTICLE	IF	CITATIONS
37	Extending waste paper, cellulose and filler use beyond recycling by entering the circular economy creating cellulose-CaCO ₃ composites reconstituted from ionic liquid. <i>Cellulose</i> , 2022, 29, 5037-5059.	4.9	7
38	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
39	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. <i>Materials</i> , 2021, 14, 3571.	2.9	6
40	Modification of CaCO ₃ and CaCO ₃ pin-coated cellulose paper under supercritical carbon dioxide-ethanol mixture for enhanced NO ₂ capture. <i>Environmental Science and Pollution Research</i> , 2022, 29, 11707-11717.	5.3	6
41	Structural evidence for the timescale separated liquid imbibition phenomenon in porous media. <i>Powder Technology</i> , 2017, 310, 8-16.	4.2	5
42	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
43	Multidimensional Co-exfoliated Activated Graphene-Based Carbon Hybrid for Supercapacitor Electrode. <i>Energy Technology</i> , 2019, 7, 1900578.	3.8	5
44	Characterising exfoliated few-layer graphene interactions in co-processed nanofibrillated cellulose suspension via water retention and dispersion rheology. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 242, 37-51.	3.5	4
45	Calcium Carbonate as Functional Filler in Polyamide 12-Manipulation of the Thermal and Mechanical Properties. <i>Processes</i> , 2021, 9, 937.	2.8	4
46	Investigating chromatographic interactions in porous pigment coatings between inkjettable polyelectrolytes and model colorant solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 579, 123676.	4.7	3
47	Fully inkjet-printed glucose assay fabricated on highly porous pigment coating. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	2.2	3
48	Inkjet jettability and physical characterization of water-ethanol solutions of low molecular weight sodium polyacrylate and poly-diallyl dimethyl ammonium chloride (polyDADMAC). <i>AIP Advances</i> , 2020, 10, .	1.3	3
49	Impact of Bimodal Particle Size Distribution Ratio of Functional Calcium Carbonate Filler on Thermal and Flowability Properties of Polyamide 12. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 641.	2.5	3
50	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
51	Stochastic transient Liquid-Solid Phase Separation reveals multi-level Dispersion States of Particles in Suspension. <i>Applied Rheology</i> , 2019, 29, 41-57.	5.2	0