

# Thaddeus Maloney

## List of Publications by Year in descending order

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74  
papers

2,154  
citations

257101

24  
h-index

253896

43  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2471  
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.	1.7	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.	5.9	128
3	Highly Porous Willow Wood-Derived Activated Carbon for High-Performance Supercapacitor Electrodes. <i>ACS Omega</i> , 2019, 4, 18108-18117.	1.6	111
4	Quantification of water in different states of interaction with wood pulp fibres. <i>Cellulose</i> , 1996, 3, 189-202.	2.4	103
5	Hydration and swelling of pulp fibers measured with differential scanning calorimetry. <i>Nordic Pulp and Paper Research Journal</i> , 1998, 13, 31-36.	0.3	81
6	The role of MFC/NFC swelling in the rheological behavior and dewatering of high consistency furnishes. <i>Cellulose</i> , 2013, 20, 2847-2861.	2.4	73
7	Microcrystalline cellulose-water interaction—a novel approach using thermoporosimetry. <i>Pharmaceutical Research</i> , 2001, 18, 1562-1569.	1.7	60
8	Rheological characterization of fibrillated cellulose suspensions via bucket vane viscometer. <i>Cellulose</i> , 2014, 21, 1305-1312.	2.4	57
9	Chirality and bound water in the hierarchical cellulose structure. <i>Cellulose</i> , 2019, 26, 5877-5892.	2.4	55
10	Ionic liquid extraction method for upgrading eucalyptus kraft pulp to high purity dissolving pulp. <i>Cellulose</i> , 2014, 21, 3655-3666.	2.4	54
11	The influence of shear on the dewatering of high consistency nanofibrillated cellulose furnishes. <i>Cellulose</i> , 2013, 20, 1853-1864.	2.4	53
12	Fibre porosity development of dissolving pulp during mechanical and enzymatic processing. <i>Cellulose</i> , 2014, 21, 3667-3676.	2.4	52
13	Effect of xylan in hardwood pulp on the reaction rate of TEMPO-mediated oxidation and the rheology of the final nanofibrillated cellulose gel. <i>Cellulose</i> , 2016, 23, 277-293.	2.4	51
14	Porosity of wood pulp fibers in the wet and highly open dry state. <i>Microporous and Mesoporous Materials</i> , 2016, 234, 326-335.	2.2	47
15	High-concentration shear-exfoliated colloidal dispersion of surfactant-polymer-stabilized few-layer graphene sheets. <i>Journal of Materials Science</i> , 2017, 52, 8321-8337.	1.7	47
16	Network swelling of TEMPO-oxidized nanocellulose. <i>Holzforschung</i> , 2015, 69, 207-213.	0.9	42
17	The effect of micro and nanofibrillated cellulose water uptake on high filler content composite paper properties and furnish dewatering. <i>Cellulose</i> , 2015, 22, 4003-4015.	2.4	41
18	Effect of lignin on the morphology and rheological properties of nanofibrillated cellulose produced from ̢ <sup>3</sup> -valerolactone/water fractionation process. <i>Cellulose</i> , 2018, 25, 179-194.	2.4	41

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19	The role of hornification in the disintegration behaviour of TEMPO-oxidized bleached hardwood fibres in a high-shear homogenizer. <i>Cellulose</i> , 2014, 21, 1163-1174.	2.4	40
20	Dissolution enthalpies of cellulose in ionic liquids. <i>Carbohydrate Polymers</i> , 2014, 113, 67-76.	5.1	36
21	Furfural production in a biphasic system using a carbonaceous solid acid catalyst. <i>Applied Catalysis A: General</i> , 2019, 585, 117180.	2.2	31
22	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.	2.4	28
23	Micro nanofibrillated cellulose (MNFC) gel dewatering induced at ultralow-shear in presence of added colloidal-unstable particles. <i>Cellulose</i> , 2017, 24, 1463-1481.	2.4	26
24	Swelling of mechanical pulp fines. <i>Cellulose</i> , 1999, 6, 123-136.	2.4	25
25	Effect of cellulase family and structure on modification of wood fibres at high consistency. <i>Cellulose</i> , 2019, 26, 5085-5103.	2.4	24
26	Influence on Pore Structure of Micro/Nanofibrillar Cellulose in Pigmented Coating Formulations. <i>Transport in Porous Media</i> , 2014, 103, 155-179.	1.2	23
27	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.	5.0	23
28	Rheological characterization of liquid electrolytes for drop-on-demand inkjet printing. <i>Organic Electronics</i> , 2016, 38, 307-315.	1.4	23
29	Thermoporosimetry of hard (silica) and soft (cellulosic) materials by isothermal step melting. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 121, 7-17.	2.0	22
30	Atomistic molecular dynamics simulations on the interaction of TEMPO-oxidized cellulose nanofibrils in water. <i>Cellulose</i> , 2016, 23, 3449-3462.	2.4	22
31	Sound absorption properties of wood-based pulp fibre foams. <i>Cellulose</i> , 2021, 28, 4267-4279.	2.4	21
32	Press dewatering and nip rewetting of paper containing nano- and microfibril cellulose. <i>Nordic Pulp and Paper Research Journal</i> , 2013, 28, 582-587.	0.3	21
33	Preparation and characterization of corn starch-calcium carbonate hybrid pigments. <i>Industrial Crops and Products</i> , 2016, 83, 294-300.	2.5	20
34	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.	2.8	20
35	Consolidation and dewatering of a microfibrillated cellulose fiber composite paper in wet pressing. <i>European Polymer Journal</i> , 2015, 68, 585-591.	2.6	18
36	Changes in the hygroscopic behavior of cellulose due to variations in relative humidity. <i>Cellulose</i> , 2018, 25, 87-104.	2.4	18

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37	Birch wood pre-hydrolysis vs pulp post-hydrolysis for the production of xylan-based compounds and cellulose for viscose application. <i>Carbohydrate Polymers</i> , 2018, 190, 212-221.	5.1	17
38	Impact of mechanical and enzymatic pretreatments on softwood pulp fiber wall structure studied with NMR spectroscopy and X-ray scattering. <i>Cellulose</i> , 2015, 22, 1565-1576.	2.4	15
39	Enhanced pre-treatment of cellulose pulp prior to dissolution into NaOH/ZnO. <i>Cellulose</i> , 2015, 22, 3981-3990.	2.4	15
40	Dissolution of enzyme-treated cellulose using freezing-thawing method and the properties of fibres regenerated from the solution. <i>Cellulose</i> , 2015, 22, 1653-1674.	2.4	14
41	Gel structure phase behavior in micro nanofibrillated cellulose containing <i>in situ</i> precipitated calcium carbonate. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	14
42	The effect of fiber swelling on press dewatering. <i>Nordic Pulp and Paper Research Journal</i> , 1998, 13, 285-291.	0.3	13
43	High consistency mechano-enzymatic pretreatment for kraft fibres: effect of treatment consistency on fibre properties. <i>Cellulose</i> , 2020, 27, 5311-5322.	2.4	13
44	Biological activity of multicomponent bio-hydrogels loaded with tragacanth gum. <i>International Journal of Biological Macromolecules</i> , 2022, 215, 691-704.	3.6	13
45	Forming and Dewatering of a Microfibrillated Cellulose Composite Paper. <i>BioResources</i> , 2015, 10, .	0.5	12
46	Activation of softwood Kraft pulp at high solids content by endoglucanase and lytic polysaccharide monoxygenase. <i>Industrial Crops and Products</i> , 2021, 166, 113463.	2.5	12
47	Bio-based materials for nonwovens. <i>Cellulose</i> , 2021, 28, 8939-8969.	2.4	12
48	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.	2.4	11
49	Extraction of Thickness and Water-Content Gradients in Hydrogel-Based Water-Backed Corneal Phantoms Via Submillimeter-Wave Reflectometry. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021, 11, 647-659.	2.0	11
50	Tuning the Porosity, Water Interaction, and Redispersion of Nanocellulose Hydrogels by Osmotic Dehydration. <i>ACS Applied Polymer Materials</i> , 2022, 4, 24-28.	2.0	11
51	Nitrogen plasma surface treatment for improving polar ink adhesion on micro/nanofibrillated cellulose films. <i>Cellulose</i> , 2019, 26, 3845-3857.	2.4	10
52	Genetically engineered protein based nacre-like nanocomposites with superior mechanical and electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 656-669.	5.2	10
53	Chemical pulp refining for optimum combination of dewatering and tensile strength. <i>Nordic Pulp and Paper Research Journal</i> , 2005, 20, 442-447.	0.3	9
54	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.	2.4	9

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55	Chemical characterization and ultrastructure study of pulp fibers. <i>Materials Today Chemistry</i> , 2020, 17, 100324.	1.7	9
56	Willow Bark for Sustainable Energy Storage Systems. <i>Materials</i> , 2020, 13, 1016.	1.3	9
57	Submillimeter-Wave Permittivity Measurements of Bound Water in Collagen Hydrogels via Frequency Domain Spectroscopy. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021, 11, 538-547.	2.0	9
58	Property optimization of calcium carbonate precipitated in a high shear, circulation reactor. <i>Powder Technology</i> , 2016, 303, 241-250.	2.1	8
59	Defining a strain-induced time constant for oriented low shear-induced structuring in high consistency MFC/NFC-filler composite suspensions. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	7
60	Assessing the reactivity of cellulose by oxidation with 4-acetamido-2,2,6,6-tetramethylpiperidine-1-oxo-piperidinium cation under mild conditions. <i>Carbohydrate Polymers</i> , 2017, 176, 293-298.	5.1	7
61	Assessing wood pulp reactivity through its rheological behavior under dissolution. <i>Cellulose</i> , 2019, 26, 9877-9888.	2.4	7
62	The Effect of Carbonation Conditions on the Properties of Carbohydrate-Calcium Carbonate Hybrid Pigments. <i>BioResources</i> , 2015, 10, .	0.5	6
63	Improving the properties of never-dried chemical pulp by pressing before refining. <i>Nordic Pulp and Paper Research Journal</i> , 2006, 21, 135-139.	0.3	5
64	Multidimensional Co-exfoliated Activated Graphene-Based Carbon Hybrid for Supercapacitor Electrode. <i>Energy Technology</i> , 2019, 7, 1900578.	1.8	5
65	Flow characteristics of ink-jet inks used for functional printing. <i>Journal of Applied Engineering Science</i> , 2015, 13, 207-212.	0.4	5
66	Effect of Enzymatic Depolymerization of Cellulose and Hemicelluloses on the Direct Dissolution of Prehydrolysis Kraft Dissolving Pulp. <i>Biomacromolecules</i> , 2021, 22, 4805-4813.	2.6	5
67	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.	1.7	4
68	Effect of compression refining on fiber properties. <i>BioResources</i> , 2020, 15, 8696-8707.	0.5	4
69	The effect of pressure pulsing on the mechanical dewatering of nanofiber suspensions. <i>Chemical Engineering Science</i> , 2020, 212, 115267.	1.9	3
70	Fast dewatering of high nanocellulose content papers with in-situ generated cationic micro-nano bubbles. <i>Drying Technology</i> , 0, , 1-14.	1.7	3
71	The effect of the outermost fibre layers on solubility of dissolving grade pulp. <i>Cellulose</i> , 2015, 22, 3955-3965.	2.4	2
72	Time-triggered calcium ion bridging in preparation of films of oxidized microfibrillated cellulose and pulp. <i>Carbohydrate Polymers</i> , 2019, 218, 63-67.	5.1	2

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73	10.5937/jaes12-5021 = Processing plate-plate immobilization data of MNFC furnishes. Journal of Applied Engineering Science, 2014, 12, 145-152.	0.4	2
74	Improving the optical performance of the nanostructured starch-calcium carbonate hybrid pigments. Nordic Pulp and Paper Research Journal, 2017, 32, 211-221.	0.3	0