Patrick Navard

List of Publications by Year
in descending order

52	2,014	257450 24	243625 44
papers	citations	h-index	g-index

53	53	53	2122
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cellulose in NaOHâ€“water based solvents: a review. Cellulose, 2016, 23, 5-55.	4.9	257
2	Swelling and Dissolution of Cellulose Part 1: Free Floating Cotton and Wood Fibres in N-Methylmorpholine-N-oxideâ€“Water Mixtures. Macromolecular Symposia, 2006, 244, 1-18.	0.7	128
3	Rheological Properties and Gelation of Aqueous Celluloseâ^'NaOH Solutions. Biomacromolecules, 2003, 4, 259-264.	5.4	124
4	Structure of Aqueous Solutions of Microcrystalline Cellulose/Sodium Hydroxide below 0 Â°C and the Limit of Cellulose Dissolution. Biomacromolecules, 2007, 8, 2282-2287.	5.4	116
5	Swelling and dissolution of cellulose. Part IV: Free floating cotton and wood fibres in ionic liquids. Carbohydrate Polymers, 2008, 72, 590-596.	10.2	108
6	The dissolution of microcrystalline cellulose in sodium hydroxide-urea aqueous solutions. Cellulose, 2008, 15, 361-370.	4.9	104
7	Dissolution mechanisms of wood cellulose fibres in NaOHâ€“water. Cellulose, 2010, 17, 31-45.	4.9	98
8	Treatments of plant biomass for cementitious building materials â€“ A review. Construction and Building Materials, 2016, 121, 161-176.	7.2	96
9	Swelling and Dissolution of Cellulose Part II: Free Floating Cotton and Wood Fibres in NaOHâ€“Waterâ€“Additives Systems. Macromolecular Symposia, 2006, 244, 19-30.	0.7	89
10	Morphology of cellulose objects regenerated from celluloseâ€“N-methylmorpholine N-oxideâ€“water solutions. Cellulose, 2009, 16, 179-188.	4.9	64
11	Swelling and dissolution of cellulose, Part III: plant fibres in aqueous systems. Cellulose, 2008, 15, 67-74.	4.9	61
12	Structure of Celluloseâ^'Soda Solutions at Low Temperatures. Biomacromolecules, 2001, 2, 687-693.	5.4	60
13	Influence of ZnO on the properties of dilute and semi-dilute cellulose-NaOH-water solutions. Cellulose, 2011, 18, 911-920.	4.9	59
14	Kinetics of Precipitation of Cellulose from Celluloseâ^'NMMOâ^'Water Solutions. Biomacromolecules, 2005, 6, 1948-1953.	5.4	58
15	Erosion as a possible mechanism for the decrease of size of plastic pieces floating in oceans. Marine Pollution Bulletin, 2018, 127, 387-395.	5.0	52
16	Swelling and dissolution mechanisms of regenerated Lyocell cellulose fibers. Cellulose, 2011, 18, 1-15.	4.9	43
17	Swelling and dissolution of cellulose, Part V: cellulose derivatives fibres in aqueous systems and ionic liquids. Cellulose, 2008, 15, 75-80.	4.9	35
18	Rotation and contraction of native and regenerated cellulose fibers upon swelling and dissolution: the role of morphological and stress unbalances. Cellulose, 2010, 17, 507-519.	4.9	35

#	Article	IF	Citations
19	Crystallisation of cellulose/N-methylmorpholine-N-oxide hydrate solutions. Polymer, 2002, 43, 6139-6145.	3.8	32
20	Molecular Modeling and Imaging of Initial Stages of Cellulose Fibril Assembly: Evidence for a Disordered Intermediate Stage. PLoS ONE, 2014, 9, e93981.	2.5	32
21	Influence of chemical treatments of miscanthus stem fragments on polysaccharide release in the presence of cement and on the mechanical properties of bio-based concrete materials. Cement and Concrete Composites, 2020, 105, 103429.	10.7	31
22	Collision-induced dispersion of agglomerate suspensions in a shear flow. Journal of Applied Polymer Science, 2000, 78, 1130-1133.	2.6	30
23	Crystallization of polypropylene in the presence of biomass-based fillers of different compositions. Polymer, 2017, 127, 220-231.	3.8	30
24	How does the never-dried state influence the swelling and dissolution of cellulose fibres in aqueous solvent?. Cellulose, 2011, 18, 247-256.	4.9	27
25	Gradient in Dissolution Capacity of Successively Deposited Cell Wall Layers in Cotton Fibres. Macromolecular Symposia, 2008, 262, 65-71.	0.7	25
26	Influence of substitution on the rheological properties and gelation of hydroxyethyl cellulose solution in NaOHâ€“water solvent. Carbohydrate Polymers, 2015, 124, 85-89.	10.2	20
27	Preparation, processing and properties of lignosulfonateâ€“flax composite boards. Carbohydrate Polymers, 2013, 93, 300-306.	10.2	17
28	Miscanthus stem fragment â€“ Reinforced polypropylene composites: Development of an optimized preparation procedure at small scale and its validation for differentiating genotypes. Polymer Testing, 2016, 55, 166-172.	4.8	17
29	In situ study of the dynamics of erosion of carbon black agglomerates. Journal of Applied Polymer Science, 2001, 80, 1627-1629.	2.6	16
30	Experimental and numerical study of the rotation and the erosion of fillers suspended in viscoelastic fluids under simple shear flow. Rheologica Acta, 2003, 42, 421-431.	2.4	16
31	Restricted dissolution and derivatization capacities of cellulose fibres under uniaxial elongational stress. Polymer, 2010, 51, 447-453.	3.8	15
32	Influence of alkali and Si-based treatments on the physical and chemical characteristics of miscanthus stem fragments. Industrial Crops and Products, 2016, 91, 6-14.	5.2	14
33	Processing and properties of sorghum stem fragment-polyethylene composites. Industrial Crops and Products, 2017, 107, 386-398.	5.2	13
34	Correlations between genotype biochemical characteristics and mechanical properties of maize stem - polyethylene composites. Industrial Crops and Products, 2020, 143, 111925.	5.2	12
35	The European Polysaccharide Network of Excellence (EPNOE). Carbohydrate Polymers, 2013, 93, 2.	10.2	10
36	Study of the partial wetting morphology in polylactide/poly[(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (adipate)â€<i>co</i> International, 2018, 67, 1378-1385.	3.1	10

#	Article	IF	Citations
37	Effects of nitren extraction on a dissolving pulp and influence on cellulose dissolution in NaOHâ€“water. Cellulose, 2013, 20, 2013-2026.	4.9	8
38	Influence of the radial stem composition on the thermal behaviour of miscanthus and sorghum genotypes. Carbohydrate Polymers, 2017, 167, 12-19.	10.2	8
39	Structure and properties of novel cellulose-based fibers spun from aqueous NaOH solvent under various drawing conditions. Cellulose, 2015, 22, 1333-1345.	4.9	7
40	Influence of the scale and type of processing tool on plasticization of cellulose acetate. Polymer Engineering and Science, 2017, 57, 563-569.	3.1	7
41	Preparation and Properties of Cellulose Solutions. , 2012, , 91-152.		6
42	Polyethylene composites made from below-ground miscanthus biomass. Industrial Crops and Products, 2017, 109, 523-528.	5.2	5
43	Thermal and dynamic mechanical characterization of miscanthus stem fragments: Effects of genotypes, positions along the stem and their relation with biochemical and structural characteristics. Industrial Crops and Products, 2020, 156, 112863.	5.2	5
44	Destructuration of cotton under elevated pressure. Cellulose, 2013, 20, 1001-1011.	4.9	3
45	Variability of stem solidness among miscanthus genotypes and its role on mechanical properties of polypropylene composites. GCB Bioenergy, 2021, 13, 1576-1585.	5.6	3
46	Influence of the elasticity of cellulose solutions on the dispersion of carbon black agglomerates. Cellulose, 2013, 20, 1679-1690.	4.9	2
47	Polysaccharides and phenolics of miscanthus belowground cell walls and their influence on polyethylene composites. Carbohydrate Polymers, 2021, 251, 117086.	10.2	1
48	EPNOE 2013 conference. Cellulose, 2013, 20, 981-981.	4.9	0
49	Influence of cotton variety on compression and destructuration abilities under elevated pressure. Cellulose, 2013, 20, 1013-1022.	4.9	0
50	3rd EPNOE international polysaccharide conference (EPNOE 2013). Carbohydrate Polymers, 2015, 116, 1.	10.2	0
51	Transcrystallinity in maize tissues/polypropylene composites: First focus of the heterogeneous nucleation and growth stages versus tissue type. Polymer Crystallization, 2021, 4, .	0.8	0
52	One-step preparation procedure, mechanical properties and environmental performances of miscanthus-based concrete blocks. Materials Today Communications, 2022, 31, 103575.	1.9	0