Fabiola Vilaseca

List of Publications by Year
in descending order

85 papers	3,297 citations	117453 34 h-index	155451 55 g-index
85 all docs	85 docs citations	85 times ranked	2951 citing authors

#	Article	IF	Citations
1	Chemical modification of jute fibers for the production of green-composites. Journal of Hazardous Materials, 2007, 144, 730-735.	6.5	197
2	NANOFIBRILLATED CELLULOSE AS PAPER ADDITIVE IN EUCALYPTUS PULPS. BioResources, 2012, 7, .	0.5	155
3	Natural fiber-reinforced thermoplastic starch composites obtained by melt processing. Composites Science and Technology, 2012, 72, 858-863.	3.8	155
4	Composite materials derived from biodegradable starch polymer and jute strands. Process Biochemistry, 2007, 42, 329-334.	1.8	142
5	Biocomposites from abaca strands and polypropylene. Part I: Evaluation of the tensile properties. Bioresource Technology, 2010, 101, 387-395.	4.8	124
6	From paper to nanopaper: evolution of mechanical and physical properties. Cellulose, 2014, 21, 2599-2609.	2.4	118
7	Effect of maleated polypropylene as coupling agent for polypropylene composites reinforced with hemp strands. Journal of Applied Polymer Science, 2006, 102, 833-840.	1.3	98
8	Influence of coupling agents in the preparation of polypropylene composites reinforced with recycled fibers. Chemical Engineering Journal, 2011, 166, 1170-1178.	6.6	95
9	Full exploitation of Cannabis sativa as reinforcement/filler of thermoplastic composite materials. Composites Part A: Applied Science and Manufacturing, 2007, 38, 369-377.	3.8	89
10	Effect of silane coupling agents on the properties of pine fibers/polypropylene composites. Journal of Applied Polymer Science, 2007, 103, 3706-3717.	1.3	77
11	Effect of the combination of biobeating and NFC on the physico-mechanical properties of paper. Cellulose, 2013, 20, 1425-1435.	2.4	76
12	Micromechanics of hemp strands in polypropylene composites. Composites Science and Technology, 2012, 72, 1209-1213.	3.8	75
13	Blocked isocyanates as coupling agents for cellulose-based composites. Carbohydrate Polymers, 2007, 68, 537-543.	5.1	73
14	Biocomposites from Musa textilis and polypropylene: Evaluation of flexural properties and impact strength. Composites Science and Technology, 2011, 71, 122-128.	3.8	70
15	Smart nanopaper based on cellulose nanofibers with hybrid PEDOT:PSS/polypyrrole for energy storage devices. Carbohydrate Polymers, 2017, 165, 86-95.	5.1	70
16	Biocomposites based on <i>Alfa</i> fibers and starchâ€based biopolymer. Polymers for Advanced Technologies, 2009, 20, 1068-1075.	1.6	68
17	Strong and electrically conductive nanopaper from cellulose nanofibers and polypyrrole. Carbohydrate Polymers, 2016, 152, 361-369.	5.1	65
18	All-lignocellulosic fiberboard from corn biomass and cellulose nanofibers. Industrial Crops and Products, 2015, 76, 166-173.	2.5	64

#	Article	IF	Citations
19	Evaluation of the reinforcing effect of ground wood pulp in the preparation of polypropylene-based composites coupled with maleic anhydride grafted polypropylene. Journal of Applied Polymer Science, 2007, 105, 3588-3596.	1.3	61
20	Behavior of biocomposite materials from flax strands and starch-based biopolymer. Chemical Engineering Science, 2009, 64, 2651-2658.	1.9	61
21	ACOUSTIC PROPERTIES OF POLYPROPYLENE COMPOSITES REINFORCED WITH STONE GROUNDWOOD. BioResources, 2012, 7, .	0.5	58
22	All-cellulose composites from unbleached hardwood kraft pulp reinforced with nanofibrillated cellulose. Cellulose, 2013, 20, 2909-2921.	2.4	57
23	PP composites based on mechanical pulp, deinked newspaper and jute strands: A comparative study. Composites Part B: Engineering, 2012, 43, 3453-3461.	5.9	53
24	Blocked diisocyanates as reactive coupling agents: Application to pine fiberâ€"polypropylene composites. Carbohydrate Polymers, 2008, 74, 106-113.	5.1	52
25	Analysis of tensile and flexural modulus in hemp strands/polypropylene composites. Composites Part B: Engineering, 2013, 47, 339-343.	5.9	52
26	Thermoplasticized starch modified by reactive blending with epoxidized soybean oil. Industrial Crops and Products, 2014, 53, 261-267.	2.5	48
27	Enzymic deinking of old newspapers with cellulase. Process Biochemistry, 2003, 38, 1063-1067.	1.8	41
28	Soda-Treated Sisal/Polypropylene Composites. Journal of Polymers and the Environment, 2008, 16, 35-39.	2.4	41
29	Macro and micro-mechanics behavior of stifness in alkaline treated hemp core fibres polypropylene-based composites. Composites Part B: Engineering, 2018, 144, 118-125.	5.9	40
30	Interface and micromechanical characterization of tensile strength of bio-based composites from polypropylene and henequen strands. Industrial Crops and Products, 2019, 132, 319-326.	2.5	40
31	Thermal and mechanical properties of maize fibresâ€"high density polyethylene biocomposites. Journal of Composite Materials, 2013, 47, 1387-1397.	1.2	38
32	High electrical and electrochemical properties in bacterial cellulose/polypyrrole membranes. European Polymer Journal, 2017, 91, 1-9.	2.6	38
33	Hemp Strands as Reinforcement of Polystyrene Composites. Chemical Engineering Research and Design, 2004, 82, 1425-1431.	2.7	37
34	Hemp Strands: PP Composites by Injection Molding: Effect of Low Cost Physico-chemical Treatments. Journal of Reinforced Plastics and Composites, 2006, 25, 313-327.	1.6	37
35	MANAGEMENT OF CORN STALK WASTE AS REINFORCEMENT FOR POLYPROPYLENE INJECTION MOULDED COMPOSITES. BioResources, 2012, 7, .	0.5	36
36	Processing and properties of biodegradable composites based on Mater-BiÂ® and hemp core fibres. Resources, Conservation and Recycling, 2012, 59, 38-42.	5.3	36

#	Article	IF	Citations
37	Impact and flexural properties of stoneâ€ground wood pulpâ€reinforced polypropylene composites. Polymer Composites, 2013, 34, 842-848.	2.3	33
38	Poly(Îµ-caprolactone) Biocomposites Based on Acetylated Cellulose Fibers and Wet Compounding for Improved Mechanical Performance. ACS Sustainable Chemistry and Engineering, 2018, 6, 6753-6760.	3.2	31
39	Recovered and recycled Kraft fibers as reinforcement of PP composites. Chemical Engineering Journal, 2008, 138, 586-595.	6.6	30
40	A comparative study of the effect of refining on organosolv pulp from olive trimmings and kraft pulp from eucalyptus wood. Bioresource Technology, 2005, 96, 1125-1129.	4.8	28
41	Experimental evaluation of anisotropy in injection molded polypropylene/wood fiber biocomposites. Composites Part A: Applied Science and Manufacturing, 2017, 96, 147-154.	3.8	27
42	Biobased Composites from Biobased-Polyethylene and Barley Thermomechanical Fibers: Micromechanics of Composites. Materials, 2019, 12, 4182.	1.3	27
43	Semichemical fibres of Leucaena collinsii reinforced polypropylene composites: Flexural characterisation, impact behaviour and water uptake properties. Composites Part B: Engineering, 2016, 97, 176-182.	5.9	24
44	Influence of lignin content on the intrinsic modulus of natural fibers and on the stiffness of composite materials. International Journal of Biological Macromolecules, 2020, 155, 81-90.	3.6	23
45	Suitability of Rapeseed Chemithermomechanical Pulp as Raw Material in Papermaking. BioResources, 2013, 8, .	0.5	21
46	Biocomposites from Rice Straw Nanofibers: Morphology, Thermal and Mechanical Properties. Materials, 2020, 13, 2138.	1.3	21
47	Recycling of Paper Mill Sludge as Filler/Reinforcement in Polypropylene Composites. Journal of Polymers and the Environment, 2010, 18, 407-412.	2.4	20
48	Influence of the Processing Conditions on the Mechanical Properties of Chitin Whisker Reinforced Poly(caprolactone) Nanocomposites. Journal of Biobased Materials and Bioenergy, 2007, 1, 341-350.	0.1	19
49	Combined effect of carbon nanotubes and polypyrrole on the electrical properties of cellulose-nanopaper. Cellulose, 2016, 23, 3925-3937.	2.4	19
50	Reinforcing potential of nanofibrillated cellulose from nonwoody plants. Polymer Composites, 2013, 34, 1999-2007.	2.3	18
51	Explorative Study on the Use of CurauÃ¡ Reinforced Polypropylene Composites for the Automotive Industry. Materials, 2019, 12, 4185.	1.3	18
52	Macro and micromechanical preliminary assessment of the tensile strength of particulate rapeseed sawdust reinforced polypropylene copolymer biocomposites for its use as building material. Construction and Building Materials, 2018, 168, 422-430.	3.2	17
53	Extending the value chain of corn agriculture by evaluating technical feasibility and the quality of the interphase of chemo-thermomechanical fiber from corn stover reinforced polypropylene biocomposites. Composites Part B: Engineering, 2018, 137, 16-22.	5.9	17
54	BIO-BASED COMPOSITES FROM STONE GROUNDWOOD APPLIED TO NEW PRODUCT DEVELOPMENT. BioResources, 2012, 7, .	0.5	17

#	Article	IF	Citations
55	Comparison of cationic demand between olive wood organosolv pulp and eucaliptus kraft pulp. Process Biochemistry, 2006, 41, 1602-1607.	1.8	16
56	Thermoplastic Starch-based Composites Reinforced with Rape Fibers: Water Uptake and Thermomechanical Properties. BioResources, 2013, 8, .	0.5	16
57	Bacterial Cellulose Network from Kombucha Fermentation Impregnated with Emulsion-Polymerized Poly(methyl methacrylate) to Form Nanocomposite. Polymers, 2021, 13, 664.	2.0	16
58	Chemical treatment for improving wettability of biofibres into thermoplastic matrices. Composite Interfaces, 2005, 12, 725-738.	1.3	15
59	Feasibility of Barley Straw Fibers as Reinforcement in Fully Biobased Polyethylene Composites: Macro and Micro Mechanics of the Flexural Strength. Molecules, 2020, 25, 2242.	1.7	15
60	High Performance PA 6/Cellulose Nanocomposites in the Interest of Industrial Scale Melt Processing. Polymers, 2021, 13, 1495.	2.0	12
61	Modeling the Stiffness of Coupled and Uncoupled Recycled Cotton Fibers Reinforced Polypropylene Composites. Polymers, 2019, 11, 1725.	2.0	11
62	Assessment of Fiber Orientation on the Mechanical Properties of PA6/Cellulose Composite. Applied Sciences (Switzerland), 2020, 10, 5565.	1.3	11
63	Strong Polyamide-6 Nanocomposites with Cellulose Nanofibers Mediated by Green Solvent Mixtures. Nanomaterials, 2021, 11, 2127.	1.9	11
64	STONE-GROUND WOOD PULP-REINFORCED POLYPROPYLENE COMPOSITES: WATER UPTAKE AND THERMAL PROPERTIES. BioResources, 2012, 7, .	0.5	11
65	Cellulose polymer composites (WPC). , 2017, , 115-139.		10
66	Valorization of Hemp Core Residues: Impact of NaOH Treatment on the Flexural Strength of PP Composites and Intrinsic Flexural Strength of Hemp Core Fibers. Biomolecules, 2020, 10, 823.	1.8	10
67	Nanopaperâ€Based Organic Inkjetâ€Printed Diodes. Advanced Materials Technologies, 2020, 5, 1900773.	3.0	10
68	Stiffening Potential of Lignocellulosic Fibers in Fully Biobased Composites: The Case of Abaca Strands, Spruce TMP Fibers, Recycled Fibers from ONP, and Barley TMP Fibers. Polymers, 2021, 13, 619.	2.0	10
69	Preference for Î²-H elimination in the termination of the Ni-promoted carbonylative cycloaddition of 2-haloethylidene-cycloalkanes and alkynes. Journal of Organometallic Chemistry, 1998, 551, 107-115.	0.8	8
70	Structural changes in organosolv lignin during its reaction in an alkaline medium. Journal of Applied Polymer Science, 2012, 126, E214.	1.3	8
71	Preparation and properties of starch-based biopolymers modified with difunctional isocyanates. BioResources, 2011, 6, 81-102.	0.5	8
72	Effective Youngâ€™s Modulus Estimation of Natural Fibers through Micromechanical Models: The Case of Henequen Fibers Reinforced-PP Composites. Polymers, 2021, 13, 3947.	2.0	8

#	Article	IF	Citations
73	Design and Development of Fully Biodegradable Products from Starch Biopolymer and Corn Stalk Fibres. Journal of Biobased Materials and Bioenergy, 2012, 6, 410-417.	0.1	7
74	Xyloglucan coating for enhanced strength and toughness in wood fibre networks. Carbohydrate Polymers, 2020, 229, 115540.	5.1	6
75	Mechanical Behavior of Thermo-Mechanical Corn Stalk Fibers in High Density Polyethylene Composites. Journal of Biobased Materials and Bioenergy, 2012, 6, 463-469.	0.1	5
76	Biocomposites from Starch-based Biopolymer and Rape Fibers. Part II: Stiffening, Flexural and Impact Strength, and Product Development. Current Organic Chemistry, 2013, 17, 1641-1646.	0.9	5
77	Effect of NaOH Treatment on the Flexural Modulus of Hemp Core Reinforced Composites and on the Intrinsic Flexural Moduli of the Fibers. Polymers, 2020, 12, 1428.	2.0	4
78	Exploring the Potential of Cotton Industry Byproducts in the Plastic Composite Sector: Macro and Micromechanics Study of the Flexural Modulus. Materials, 2021, 14, 4787.	1.3	4
79	Waterâ€assisted melt processing of cellulose biocomposites with poly(Îµâ€caprolactone) or poly(ethyleneâ€acrylic acid) for the production of carton screw caps. Journal of Applied Polymer Science, 2022, 139, 51615.	1.3	4
80	Biocomposites from Starch-based Biopolymer and Rape Fibers. Part I: Interfacial Analysis and Intrinsic Properties of Rape Fibers. Current Organic Chemistry, 2013, 17, 1633-1640.	0.9	4
81	AplicaciÃ³n de celulosa nanofibrilada, en masa y superficie, a la pulpa mecÃ¡nica de muela de piedra: una sÃ³lida alternativa al tratamiento clÃ¡sico de refinado. Maderas: Ciencia Y Tecnologia, 2015, , 0-0.	0.7	3
82	Low environmental impact bleaching sequences for attaining high brightness level with eucalyptus SPP pulp. Brazilian Journal of Chemical Engineering, 2009, 26, 11-22.	0.7	1
83	Inkjetâ€Printed Diodes: Nanopaperâ€Based Organic Inkjetâ€Printed Diodes (Adv. Mater. Technol. 6/2020). Advanced Materials Technologies, 2020, 5, 2070031.	3.0	1
84	Stiffness of Rapeseed Sawdust Polypropylene Composite and Its Suitability as a Building Material. BioResources, 2018, 13, .	0.5	0
85	EXPERIENCES OF WORKPLACE STAY WITHIN A RESEARCH GROUP. , 2016, , .		0