Piedad GaÃ±Ã¡n

List of Publications by Year
in descending order

80	3,691	147566 31	133063 59
papers	citations	h-index	g-index

82	82	82	4099
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Effects of Adding a Gel-Alike Curcuma longa L. Suspension as Color Agent on Some Quality and Sensory Properties of Yogurt. Molecules, 2022, 27, 946.	1.7	6
2	An Edible Oil Enriched with Lycopene from Pink Guava (Psidium guajava L.) Using Different Mechanical Treatments. Molecules, 2022, 27, 1038.	1.7	3
3	Bacterial Nanocellulose Mulch as a Potential Greener Alternative for Urban Gardening in the Small-Scale Food Production of Onion Plants. Agricultural Research, 2021, 10, 66-71.	0.9	4
4	Characterization of Chitosan Extracted from Fish Scales of the Colombian Endemic Species Prochilodus magdalenae as a Novel Source for Antibacterial Starch-Based Films. Polymers, 2021, 13, 2079.	2.0	19
5	Phase distribution changes of neat unsaturated polyester resin and their effects on both thermal stability and dynamicâ€mechanical properties. Journal of Applied Polymer Science, 2021, 138, 51308.	1.3	4
6	Extraction and preservation of lycopene: A review of the advancements offered by the value chain of nanotechnology. Trends in Food Science and Technology, 2021, 116, 1120-1140.	7.8	14
7	Cellulose nanofibers from banana rachis added to a Curcuma longa L. rhizome suspension: Color, stability and rheological properties. Food Structure, 2021, 27, 100180.	2.3	8
8	Influence of a Non-Ionic Surfactant in the Microstructure and Rheology of a Pickering Emulsion Stabilized by Cellulose Nanofibrils. Polymers, 2021, 13, 3625.	2.0	9
9	Nanocelluloses Reinforced Bio-Waterborne Polyurethane. Polymers, 2021, 13, .	2.0	0
10	Nanocelluloses Reinforced Bio-Waterborne Polyurethane. Polymers, 2021, 13, 2853.	2.0	8
11	La caridad punto de encuentro: el diÃ¡logo entre saberes para potenciar las actividades de proyecciÃ³n social. , 2021, 22, 227-245.		0
12	Effect of ultraâ€fine friction grinding on the physical and chemical properties of curcuma (Curcuma) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.5	12
13	A Novel Approach Using Conventional Methodologies to Scale up BNC Production Using Komagataeibacter medellinensis and Rotten Banana Waste as Alternative. Processes, 2020, 8, 1469.	1.3	7
14	Predicting coated-nanoparticle drug release systems with perturbation-theory machine learning (PTML) models. Nanoscale, 2020, 12, 13471-13483.	2.8	27
15	Cocoa shell: an industrial by-product for the preparation of suspensions of holocellulose nanofibers and fat. Cellulose, 2020, 27, 10873-10884.	2.4	16
16	Biomimetics of microducts in three-dimensional bacterial nanocellulose biomaterials for soft tissue regenerative medicine. Cellulose, 2020, 27, 5923-5937.	2.4	2
17	PTML Model for Selection of Nanoparticles, Anticancer Drugs, and Vitamins in the Design of Drugâ€"Vitamin Nanoparticle Release Systems for Cancer Cotherapy. Molecular Pharmaceutics, 2020, 17, 2612-2627.	2.3	12
18	Effect of production process scale-up on the characteristics and properties of bacterial nanocellulose obtained from overripe Banana culture medium. Carbohydrate Polymers, 2020, 240, 116341.	5.1	21

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19	Influence of cellulose nanofibrils on the structural elements of ice cream. Food Hydrocolloids, 2019, 87, 204-213.	5.6	80
20	Etnoturismo: una aproximaciÃ³n a las oportunidades y amenazas que implica para las culturas indÃgenas. Cuadernos De Turismo, 2019, , 17-38.	0.2	2
21	Cellulose nanofibrils extracted from fique fibers as bio-based cement additive. Journal of Cleaner Production, 2019, 235, 1540-1548.	4.6	50
22	Lessons from the European Regulation 1223 of 2009, on Cosmetics: Expectations Versus Reality. NanoEthics, 2019, 13, 21-35.	0.5	2
23	Effect of the drying temperature of cornhusk on glucose and fructose concentration to control the size distribution of silver nanoparticles. Materials Research Express, 2019, 6, 065052.	0.8	1
24	Novel surface modification of three-dimensional bacterial nanocellulose with cell-derived adhesion proteins for soft tissue engineering. Materials Science and Engineering C, 2019, 100, 697-705.	3.8	41
25	Designing nanoparticle release systems for drugâ€"vitamin cancer co-therapy with multiplicative perturbation-theory machine learning (PTML) models. Nanoscale, 2019, 11, 21811-21823.	2.8	27
26	Development of novel threeâ€dimensional scaffolds based on bacterial nanocellulose for tissue engineering and regenerative medicine: Effect of processing methods, pore size, and surface area. Journal of Biomedical Materials Research - Part A, 2019, 107, 348-359.	2.1	38
27	Improved redispersibility of cellulose nanofibrils in water using maltodextrin as a green, easily removable and non-toxic additive. Food Hydrocolloids, 2018, 79, 30-39.	5.6	46
28	Physical Characterization of Bacterial Cellulose Produced by Komagataeibacter medellinensis Using Food Supply Chain Waste and Agricultural By-Products as Alternative Low-Cost Feedstocks. Journal of Polymers and the Environment, 2018, 26, 830-837.	2.4	54
29	Poly (vinyl alcohol) as a capping agent in oven dried cellulose nanofibrils. Carbohydrate Polymers, 2018, 179, 118-125.	5.1	29
30	Starch and Starch/Bacterial Nanocellulose Films as Alternatives for the Management of Minimally Processed Mangoes. Starch/Staerke, 2018, 71, 1800120.	1.1	6
31	Computer Simulation of Asphaltenes. Petroleum Chemistry, 2018, 58, 983-1004.	0.4	18
32	Novel Biobased Textile Fiber from Colombian Agro-Industrial Waste Fiber. Molecules, 2018, 23, 2640.	1.7	5
33	Effects of alternative energy sources on bacterial cellulose characteristics produced by Komagataeibacter medellinensis. International Journal of Biological Macromolecules, 2018, 117, 735-741.	3.6	37
34	Wear performance of vinyl ester reinforced with Musaceae fiber bundles sliding against different metallic surfaces. Tribology International, 2017, 109, 447-459.	3.0	18
35	Effect of Different Carbon Sources on Bacterial Nanocellulose Production and Structure Using the Low pH Resistant Strain Komagataeibacter Medellinensis. Materials, 2017, 10, 639.	1.3	98
36	Aplicaciones biomÃ©dicas de biomateriales polimÃ©ricos. DYNA (Colombia), 2017, 84, 241.	0.2	8

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37	Bioactive 3D-Shaped Wound Dressings Synthesized from Bacterial Cellulose: Effect on Cell Adhesion of Polyvinyl Alcohol Integrated In Situ. International Journal of Polymer Science, 2017, 2017, 1-10.	1.2	25
38	Influence of tribological test on the global conversion of natural composites. Polimeros, 2017, 27, 339-345.	0.2	1
39	Influence of the maturation time on the physico-chemical properties of nanocellulose and associated constituents isolated from pseudostems of banana plant c.v. Valery. Industrial Crops and Products, 2016, 83, 551-560.	2.5	22
40	Vegetable nanocellulose in food science: A review. Food Hydrocolloids, 2016, 57, 178-186.	5.6	267
41	Influence of combined mechanical treatments on the morphology and structure of cellulose nanofibrils: Thermal and mechanical properties of the resulting films. Industrial Crops and Products, 2016, 85, 1-10.	2.5	62
42	Effect of molecular weight reduction by gamma irradiation on the antioxidant capacity of chitosan from lobster shells. Journal of Radiation Research and Applied Sciences, 2015, 8, 190-200.	0.7	50
43	In-situ glyoxalization during biosynthesis of bacterial cellulose. Carbohydrate Polymers, 2015, 126, 32-39.	5.1	27
44	Wear resistance and friction behavior of thermoset matrix reinforced with Musaceae fiber bundles. Tribology International, 2015, 87, 57-64.	3.0	51
45	Highly percolated poly(vinyl alcohol) and bacterial nanocellulose synthesized in situ by physical-crosslinking: exploiting polymer synergies for biomedical nanocomposites. RSC Advances, 2015, 5, 90742-90749.	1.7	22
46	Rheological and physical properties of gelatin suspensions containing cellulose nanofibers for potential coatings. Food Science and Technology International, 2015, 21, 332-341.	1.1	7
47	Production of Bacterial Cellulose: Use of a New Strain of Microorganism. Materials and Energy, 2014, , 105-122.	2.5	1
48	Wettability of gelatin coating formulations containing cellulose nanofibers on banana and eggplant epicarps. LWT - Food Science and Technology, 2014, 58, 158-165.	2.5	31
49	In situ production of nanocomposites of poly(vinyl alcohol) and cellulose nanofibrils from Gluconacetobacter bacteria: effect of chemical crosslinking. Cellulose, 2014, 21, 1745-1756.	2.4	56
50	Development of composite films based on thermoplastic starch and cellulose microfibrils from Colombian agroindustrial wastes. Journal of Thermoplastic Composite Materials, 2014, 27, 413-426.	2.6	16
51	Influence of the acid type in the production of chitosan films reinforced with bacterial nanocellulose. International Journal of Biological Macromolecules, 2014, 69, 208-213.	3.6	55
52	Development of Self-Bonded Fiberboards from Fiber of Leaf Plantain: Effect of Water and Organic Extractives Removal. BioResources, 2014, 10, .	0.5	9
53	Gluconacetobacter medellinensis sp. nov., cellulose- and non-cellulose-producing acetic acid bacteria isolated from vinegar. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 1119-1125.	0.8	94
54	Development of cellulose-polypyrrole microfiber membranes and assessment of their capability on water softening. Journal of Physics: Conference Series, 2013, 466, 012012.	0.3	0

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55	Biodegradability of Banana and Plantain Cellulose Microfibrils Films in Anaerobic Conditions. Journal of Polymers and the Environment, 2012, 20, 774-782.	2.4	4
56	Bacterial cellulose produced by a new acid-resistant strain of Gluconacetobacter genus. Carbohydrate Polymers, 2012, 89, 1033-1037.	5.1	208
57	Surface free energy of films of alkali-treated cellulose microfibrils from banana rachis. Composite Interfaces, 2012, 19, 29-37.	1.3	6
58	Sustainable optically transparent composites based on epoxidized soy-bean oil (ESO) matrix and high contents of bacterial cellulose (BC). Cellulose, 2012, 19, 103-109.	2.4	50
59	Self-Bonding Boards From Plantain Fiber Bundles After Enzymatic Treatment: Adhesion Improvement of Lignocellulosic Products by Enzymatic Pre-Treatment. Journal of Polymers and the Environment, 2011, 19, 182-188.	2.4	45
60	Structural characterization of bacterial cellulose produced by Gluconacetobacter swingsii sp. from Colombian agroindustrial wastes. Carbohydrate Polymers, 2011, 84, 96-102.	5.1	343
61	Bacterial cellulose films with controlled microstructureâ€“mechanical property relationships. Cellulose, 2010, 17, 661-669.	2.4	132
62	Binderless fiberboard from steam exploded banana bunch. Industrial Crops and Products, 2009, 29, 60-66.	2.5	105
63	Cellulose microfibrils from banana rachis: Effect of alkaline treatments on structural and morphological features. Carbohydrate Polymers, 2009, 76, 51-59.	5.1	372
64	New Approaches to Cellulose Microfibril Isolation from Musaceae Agro-Industrial Residues. Composite Interfaces, 2009, 16, 27-37.	1.3	3
65	EvaluaciÃ³n de la degradaciÃ³n por termoxidaciÃ³n de termoplÃ¡sticos empleados en aplicaciones agrÃcolas. Revista Escola De Minas, 2009, 62, 469-474.	0.1	0
66	Elucidation of the fibrous structure of Musaceae maturate rachis. Cellulose, 2008, 15, 131-139.	2.4	17
67	Plantain fibre bundles isolated from Colombian agro-industrial residues. Bioresource Technology, 2008, 99, 486-491.	4.8	64
68	EvaluaciÃ³n de la degradaciÃ³n ambiental de materiales termoplÃ¡sticos empleados en labores agrÃcolas en el cultivo de banano en Colombia. Polimeros, 2007, 17, 201-205.	0.2	2
69	Cellulose microfibrils from banana farming residues: isolation and characterization. Cellulose, 2007, 14, 585-592.	2.4	196
70	Surface modification of sisal fibers: Effects on the mechanical and thermal properties of their epoxy composites. Polymer Composites, 2005, 26, 121-127.	2.3	130
71	Flax fiber surface modifications: Effects on fiber physico mechanical and flax/polypropylene interface properties. Polymer Composites, 2005, 26, 324-332.	2.3	126
72	Off-axis Flexure Test: A New Method for Obtaining In-plane Shear Properties. Journal of Composite Materials, 2005, 39, 953-980.	1.2	12

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73	Effect of Fiber Treatments on Mechanical Behavior of Short Fique Fiber-reinforced Polyacetal Composites. Journal of Composite Materials, 2005, 39, 633-646.	1.2	25
74	Fique fiber-reinforced polyester composites: Effects of fiber surface treatments on mechanical behavior. Journal of Materials Science, 2004, 39, 3121-3128.	1.7	42
75	Stem and bunch banana fibers from cultivation wastes: Effect of treatments on physico-chemical behavior. Journal of Applied Polymer Science, 2004, 94, 1489-1495.	1.3	90
76	Biological Natural Retting for Determining the Hierarchical Structuration of Banana Fibers. Macromolecular Bioscience, 2004, 4, 978-983.	2.1	52
77	INFLUENCE OF COMPATIBILIZATION TREATMENTS ON THE MECHANICAL PROPERTIES OF FIQUE FIBER REINFORCED POLYPROPYLENE COMPOSITES. International Journal of Polymeric Materials and Polymeric Biomaterials, 2004, 53, 997-1013.	1.8	14
78	Thermal and degradation behavior of fique fiber reinforced thermoplastic matrix composites. Journal of Thermal Analysis and Calorimetry, 2003, 73, 783-795.	2.0	51
79	Surface modification of fique fibers. Effect on their physico-mechanical properties. Polymer Composites, 2002, 23, 383-394.	2.3	70
80	All-cellulose composites prepared by partial dissolving of cellulose fibers from musaceae leaf-sheath waste. Journal of Composite Materials, 0, , 002199832110068.	1.2	2