

# Piedad Gañán

## List of Publications by Year in descending order

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80  
papers

3,691  
citations

147566

31  
h-index

133063

59  
g-index

82  
all docs

82  
docs citations

82  
times ranked

4099  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellulose microfibrils from banana rachis: Effect of alkaline treatments on structural and morphological features. <i>Carbohydrate Polymers</i> , 2009, 76, 51-59.	5.1	372
2	Structural characterization of bacterial cellulose produced by <i>Gluconacetobacter swingsii</i> sp. from Colombian agroindustrial wastes. <i>Carbohydrate Polymers</i> , 2011, 84, 96-102.	5.1	343
3	Vegetable nanocellulose in food science: A review. <i>Food Hydrocolloids</i> , 2016, 57, 178-186.	5.6	267
4	Bacterial cellulose produced by a new acid-resistant strain of <i>Gluconacetobacter</i> genus. <i>Carbohydrate Polymers</i> , 2012, 89, 1033-1037.	5.1	208
5	Cellulose microfibrils from banana farming residues: isolation and characterization. <i>Cellulose</i> , 2007, 14, 585-592.	2.4	196
6	Bacterial cellulose films with controlled microstructure mechanical property relationships. <i>Cellulose</i> , 2010, 17, 661-669.	2.4	132
7	Surface modification of sisal fibers: Effects on the mechanical and thermal properties of their epoxy composites. <i>Polymer Composites</i> , 2005, 26, 121-127.	2.3	130
8	Flax fiber surface modifications: Effects on fiber physico mechanical and flax/polypropylene interface properties. <i>Polymer Composites</i> , 2005, 26, 324-332.	2.3	126
9	Binderless fiberboard from steam exploded banana bunch. <i>Industrial Crops and Products</i> , 2009, 29, 60-66.	2.5	105
10	Effect of Different Carbon Sources on Bacterial Nanocellulose Production and Structure Using the Low pH Resistant Strain <i>Komagataeibacter Medellinensis</i> . <i>Materials</i> , 2017, 10, 639.	1.3	98
11	<i>Gluconacetobacter medellinensis</i> sp. nov., cellulose- and non-cellulose-producing acetic acid bacteria isolated from vinegar. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 1119-1125.	0.8	94
12	Stem and bunch banana fibers from cultivation wastes: Effect of treatments on physico-chemical behavior. <i>Journal of Applied Polymer Science</i> , 2004, 94, 1489-1495.	1.3	90
13	Influence of cellulose nanofibrils on the structural elements of ice cream. <i>Food Hydrocolloids</i> , 2019, 87, 204-213.	5.6	80
14	Surface modification of fique fibers. Effect on their physico-mechanical properties. <i>Polymer Composites</i> , 2002, 23, 383-394.	2.3	70
15	Plantain fibre bundles isolated from Colombian agro-industrial residues. <i>Bioresource Technology</i> , 2008, 99, 486-491.	4.8	64
16	Influence of combined mechanical treatments on the morphology and structure of cellulose nanofibrils: Thermal and mechanical properties of the resulting films. <i>Industrial Crops and Products</i> , 2016, 85, 1-10.	2.5	62
17	In situ production of nanocomposites of poly(vinyl alcohol) and cellulose nanofibrils from <i>Gluconacetobacter</i> bacteria: effect of chemical crosslinking. <i>Cellulose</i> , 2014, 21, 1745-1756.	2.4	56
18	Influence of the acid type in the production of chitosan films reinforced with bacterial nanocellulose. <i>International Journal of Biological Macromolecules</i> , 2014, 69, 208-213.	3.6	55

#	ARTICLE	IF	CITATIONS
19	Physical Characterization of Bacterial Cellulose Produced by <i>Komagataeibacter medellinensis</i> Using Food Supply Chain Waste and Agricultural By-Products as Alternative Low-Cost Feedstocks. <i>Journal of Polymers and the Environment</i> , 2018, 26, 830-837.	2.4	54
20	Biological Natural Retting for Determining the Hierarchical Structuration of Banana Fibers. <i>Macromolecular Bioscience</i> , 2004, 4, 978-983.	2.1	52
21	Thermal and degradation behavior of fique fiber reinforced thermoplastic matrix composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003, 73, 783-795.	2.0	51
22	Wear resistance and friction behavior of thermoset matrix reinforced with Musaceae fiber bundles. <i>Tribology International</i> , 2015, 87, 57-64.	3.0	51
23	Sustainable optically transparent composites based on epoxidized soy-bean oil (ESO) matrix and high contents of bacterial cellulose (BC). <i>Cellulose</i> , 2012, 19, 103-109.	2.4	50
24	Effect of molecular weight reduction by gamma irradiation on the antioxidant capacity of chitosan from lobster shells. <i>Journal of Radiation Research and Applied Sciences</i> , 2015, 8, 190-200.	0.7	50
25	Cellulose nanofibrils extracted from fique fibers as bio-based cement additive. <i>Journal of Cleaner Production</i> , 2019, 235, 1540-1548.	4.6	50
26	Improved redispersibility of cellulose nanofibrils in water using maltodextrin as a green, easily removable and non-toxic additive. <i>Food Hydrocolloids</i> , 2018, 79, 30-39.	5.6	46
27	Self-Bonding Boards From Plantain Fiber Bundles After Enzymatic Treatment: Adhesion Improvement of Lignocellulosic Products by Enzymatic Pre-Treatment. <i>Journal of Polymers and the Environment</i> , 2011, 19, 182-188.	2.4	45
28	Fique fiber-reinforced polyester composites: Effects of fiber surface treatments on mechanical behavior. <i>Journal of Materials Science</i> , 2004, 39, 3121-3128.	1.7	42
29	Novel surface modification of three-dimensional bacterial nanocellulose with cell-derived adhesion proteins for soft tissue engineering. <i>Materials Science and Engineering C</i> , 2019, 100, 697-705.	3.8	41
30	Development of novel three-dimensional scaffolds based on bacterial nanocellulose for tissue engineering and regenerative medicine: Effect of processing methods, pore size, and surface area. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 348-359.	2.1	38
31	Effects of alternative energy sources on bacterial cellulose characteristics produced by <i>Komagataeibacter medellinensis</i> . <i>International Journal of Biological Macromolecules</i> , 2018, 117, 735-741.	3.6	37
32	Wettability of gelatin coating formulations containing cellulose nanofibers on banana and eggplant epicarps. <i>LWT - Food Science and Technology</i> , 2014, 58, 158-165.	2.5	31
33	Poly (vinyl alcohol) as a capping agent in oven dried cellulose nanofibrils. <i>Carbohydrate Polymers</i> , 2018, 179, 118-125.	5.1	29
34	In-situ glyoxalization during biosynthesis of bacterial cellulose. <i>Carbohydrate Polymers</i> , 2015, 126, 32-39.	5.1	27
35	Designing nanoparticle release systems for drug-vitamin cancer co-therapy with multiplicative perturbation-theory machine learning (PTML) models. <i>Nanoscale</i> , 2019, 11, 21811-21823.	2.8	27
36	Predicting coated-nanoparticle drug release systems with perturbation-theory machine learning (PTML) models. <i>Nanoscale</i> , 2020, 12, 13471-13483.	2.8	27

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37	Effect of Fiber Treatments on Mechanical Behavior of Short Figue Fiber-reinforced Polyacetal Composites. <i>Journal of Composite Materials</i> , 2005, 39, 633-646.	1.2	25
38	Bioactive 3D-Shaped Wound Dressings Synthesized from Bacterial Cellulose: Effect on Cell Adhesion of Polyvinyl Alcohol Integrated In Situ. <i>International Journal of Polymer Science</i> , 2017, 2017, 1-10.	1.2	25
39	Highly percolated poly(vinyl alcohol) and bacterial nanocellulose synthesized in situ by physical-crosslinking: exploiting polymer synergies for biomedical nanocomposites. <i>RSC Advances</i> , 2015, 5, 90742-90749.	1.7	22
40	Influence of the maturation time on the physico-chemical properties of nanocellulose and associated constituents isolated from pseudostems of banana plant c.v. Valery. <i>Industrial Crops and Products</i> , 2016, 83, 551-560.	2.5	22
41	Effect of production process scale-up on the characteristics and properties of bacterial nanocellulose obtained from overripe Banana culture medium. <i>Carbohydrate Polymers</i> , 2020, 240, 116341.	5.1	21
42	Characterization of Chitosan Extracted from Fish Scales of the Colombian Endemic Species <i>Prochilodus magdalenae</i> as a Novel Source for Antibacterial Starch-Based Films. <i>Polymers</i> , 2021, 13, 2079.	2.0	19
43	Wear performance of vinyl ester reinforced with Musaceae fiber bundles sliding against different metallic surfaces. <i>Tribology International</i> , 2017, 109, 447-459.	3.0	18
44	Computer Simulation of Asphaltenes. <i>Petroleum Chemistry</i> , 2018, 58, 983-1004.	0.4	18
45	Elucidation of the fibrous structure of Musaceae mature rachis. <i>Cellulose</i> , 2008, 15, 131-139.	2.4	17
46	Development of composite films based on thermoplastic starch and cellulose microfibrils from Colombian agroindustrial wastes. <i>Journal of Thermoplastic Composite Materials</i> , 2014, 27, 413-426.	2.6	16
47	Cocoa shell: an industrial by-product for the preparation of suspensions of holocellulose nanofibers and fat. <i>Cellulose</i> , 2020, 27, 10873-10884.	2.4	16
48	INFLUENCE OF COMPATIBILIZATION TREATMENTS ON THE MECHANICAL PROPERTIES OF FIQUE FIBER REINFORCED POLYPROPYLENE COMPOSITES. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2004, 53, 997-1013.	1.8	14
49	Extraction and preservation of lycopene: A review of the advancements offered by the value chain of nanotechnology. <i>Trends in Food Science and Technology</i> , 2021, 116, 1120-1140.	7.8	14
50	Off-axis Flexure Test: A New Method for Obtaining In-plane Shear Properties. <i>Journal of Composite Materials</i> , 2005, 39, 953-980.	1.2	12
51	Effect of ultrafine friction grinding on the physical and chemical properties of curcuma ( <i>Curcuma</i> ) Tj ETQq1 1 0.784314 rgBT /Overlor	1.5	12
52	PTML Model for Selection of Nanoparticles, Anticancer Drugs, and Vitamins in the Design of Drug-Vitamin Nanoparticle Release Systems for Cancer Cotherapy. <i>Molecular Pharmaceutics</i> , 2020, 17, 2612-2627.	2.3	12
53	Development of Self-Bonded Fiberboards from Fiber of Leaf Plantain: Effect of Water and Organic Extractives Removal. <i>BioResources</i> , 2014, 10, .	0.5	9
54	Influence of a Non-Ionic Surfactant in the Microstructure and Rheology of a Pickering Emulsion Stabilized by Cellulose Nanofibrils. <i>Polymers</i> , 2021, 13, 3625.	2.0	9

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55	Aplicaciones biomédicas de biomateriales poliméricos. DYNA (Colombia), 2017, 84, 241.	0.2	8
56	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
57	Nanocelluloses Reinforced Bio-Waterborne Polyurethane. Polymers, 2021, 13, 2853.	2.0	8
58	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
59	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
60	Surface free energy of films of alkali-treated cellulose microfibrils from banana rachis. Composite Interfaces, 2012, 19, 29-37.	1.3	6
61	Starch and Starch/Bacterial Nanocellulose Films as Alternatives for the Management of Minimally Processed Mangoes. Starch/Staerke, 2018, 71, 1800120.	1.1	6
62	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
63	Novel Biobased Textile Fiber from Colombian Agro-Industrial Waste Fiber. Molecules, 2018, 23, 2640.	1.7	5
64	Biodegradability of Banana and Plantain Cellulose Microfibrils Films in Anaerobic Conditions. Journal of Polymers and the Environment, 2012, 20, 774-782.	2.4	4
65	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
66	Phase distribution changes of neat unsaturated polyester resin and their effects on both thermal stability and dynamic mechanical properties. Journal of Applied Polymer Science, 2021, 138, 51308.	1.3	4
67	New Approaches to Cellulose Microfibril Isolation from Musaceae Agro-Industrial Residues. Composite Interfaces, 2009, 16, 27-37.	1.3	3
68	An Edible Oil Enriched with Lycopene from Pink Guava (Psidium guajava L.) Using Different Mechanical Treatments. Molecules, 2022, 27, 1038.	1.7	3
69	Evaluación de la degradación ambiental de materiales termoplásticos empleados en labores agrícolas en el cultivo de banano en Colombia. Polimeros, 2007, 17, 201-205.	0.2	2
70	Etnoturismo: una aproximación a las oportunidades y amenazas que implica para las culturas indígenas. Cuadernos De Turismo, 2019, , 17-38.	0.2	2
71	Lessons from the European Regulation 1223 of 2009, on Cosmetics: Expectations Versus Reality. NanoEthics, 2019, 13, 21-35.	0.5	2
72	Biomimetics of microducts in three-dimensional bacterial nanocellulose biomaterials for soft tissue regenerative medicine. Cellulose, 2020, 27, 5923-5937.	2.4	2

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73	All-cellulose composites prepared by partial dissolving of cellulose fibers from musaceae leaf-sheath waste. Journal of Composite Materials, 0, , 002199832110068.	1.2	2
74	Production of Bacterial Cellulose: Use of a New Strain of Microorganism. Materials and Energy, 2014, , 105-122.	2.5	1
75	Influence of tribological test on the global conversion of natural composites. Polimeros, 2017, 27, 339-345.	0.2	1
76	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
77	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
78	Evaluación de la degradación por termoxidación de termoplásticos empleados en aplicaciones agrícolas. Revista Escola De Minas, 2009, 62, 469-474.	0.1	0
79	Nanocelluloses Reinforced Bio-Waterborne Polyurethane. Polymers, 2021, 13, .	2.0	0
80	La caridad punto de encuentro: el diálogo entre saberes para potenciar las actividades de proyección social. , 2021, 22, 227-245.		0