

# Pedro Herrera-Franco

## List of Publications by Year in descending order

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62  
papers

3,407  
citations

279487

23  
h-index

143772

57  
g-index

62  
all docs

62  
docs citations

62  
times ranked

3443  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review: Current international research into cellulosic fibres and composites. <i>Journal of Materials Science</i> , 2001, 36, 2107-2131.	1.7	777
2	Comparison of methods for the measurement of fibre/matrix adhesion in composites. <i>Composites</i> , 1992, 23, 2-27.	0.9	484
3	Mechanical properties of continuous natural fibre-reinforced polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2004, 35, 339-345.	3.8	369
4	Effective properties of multiwalled carbon nanotube/epoxy composites using two different tubes. <i>Composites Science and Technology</i> , 2008, 68, 1422-1431.	3.8	138
5	Biocomposites from abaca strands and polypropylene. Part I: Evaluation of the tensile properties. <i>Bioresource Technology</i> , 2010, 101, 387-395.	4.8	124
6	Effect of moisture absorption on the mechanical behavior of carbon fiber/epoxy matrix composites. <i>Journal of Materials Science</i> , 2013, 48, 1873-1882.	1.7	106
7	Effect of fiber surface treatments on the essential work of fracture of HDPE-continuous henequen fiber-reinforced composites. <i>Polymer Testing</i> , 2013, 32, 1114-1122.	2.3	103
8	Flexural, impact and compressive properties of a rigid-thermoplastic matrix/cellulose fiber reinforced composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2002, 33, 539-549.	3.8	96
9	Physical and mechanical properties of henequen fibers. <i>Journal of Applied Polymer Science</i> , 1991, 43, 749-756.	1.3	82
10	Biocomposites from <i>Musa textilis</i> and polypropylene: Evaluation of flexural properties and impact strength. <i>Composites Science and Technology</i> , 2011, 71, 122-128.	3.8	70
11	Plasma modification of cellulose fibers for composite materials. <i>Journal of Applied Polymer Science</i> , 2006, 101, 3821-3828.	1.3	69
12	Preparation, characterization and release of amoxicillin from cellulose acetate and poly(vinyl) Tj ETQqO O O rgBT /Overlock 10 Tf 50 307 1772-1778.	3.8	65
13	Effect of fiber treatment on the mechanical properties of LDPE-henequen cellulosic fiber composites. <i>Journal of Applied Polymer Science</i> , 1997, 65, 197-207.	1.3	61
14	Preparation of extruded polyethylene/chitosan blends compatibilized with polyethylene-graft-maleic anhydride. <i>Carbohydrate Polymers</i> , 2014, 101, 1094-1100.	5.1	56
15	Preparation and characterization of henequen cellulose grafted with methyl methacrylate and its application in composites. <i>Journal of Applied Polymer Science</i> , 1997, 66, 339-346.	1.3	53
16	Surface modification and performance of jute fibers as reinforcement on polymer matrix: an overview. <i>Journal of Natural Fibers</i> , 2019, 16, 944-960.	1.7	44
17	The effect of interfacial adhesion on the creep behaviour of LDPE-Alâ€“Fique composite materials. <i>Composites Part B: Engineering</i> , 2013, 55, 345-351.	5.9	41
18	Interface and micromechanical characterization of tensile strength of bio-based composites from polypropylene and henequen strands. <i>Industrial Crops and Products</i> , 2019, 132, 319-326.	2.5	40

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19	Electrical, mechanical and piezo-resistive behavior of a polyaniline/poly(n-butyl methacrylate) composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 1573-1579.	3.8	37
20	Improvement of the interfacial compatibility between sugar cane bagasse fibers and polystyrene for composites. <i>Polymer Composites</i> , 2004, 25, 134-145.	2.3	36
21	Fiber-Matrix Interface Tests. , 2000, , 71-111.		34
22	Effect of moisture absorption on the micromechanical behavior of carbon fiber/epoxy matrix composites. <i>Journal of Materials Science</i> , 2011, 46, 6664-6672.	1.7	34
23	Amoxicillin embedded in cellulose acetate-poly (vinyl pyrrolidone) fibers prepared by coaxial electrospinning: Preparation and characterization. <i>Materials Letters</i> , 2012, 76, 250-254.	1.3	34
24	Compatibilization of recycled and virgin PET with radiation-oxidized HDPE. <i>Radiation Physics and Chemistry</i> , 2002, 63, 241-244.	1.4	31
25	Compatibilization of polyethylene/polyaniline blends with polyethylene-graft-maleic anhydride. <i>Journal of Applied Polymer Science</i> , 2011, 119, 2895-2901.	1.3	23
26	Bond strength measurement in composites—Analysis of experimental techniques. <i>Composites Part B: Engineering</i> , 1992, 2, 31-45.	0.6	22
27	Preparation and Characterization of Films Extruded of Polyethylene/Chitosan Modified with Poly(lactic acid). <i>Materials</i> , 2015, 8, 137-148.	1.3	22
28	Preparation by coaxial electrospinning and characterization of membranes releasing ( $\hat{\alpha}$ ) epicatechin as scaffold for tissue engineering. <i>Materials Science and Engineering C</i> , 2015, 46, 184-189.	3.8	22
29	Effect of the interphase microstructure on the behavior of carbon fiber/epoxy resin model composite in a thermal environment. <i>Journal of Materials Science</i> , 2011, 46, 4026-4033.	1.7	21
30	Adsorption and desorption of a gold-iodide complex onto cellulose acetate membrane coated with polyaniline or polypyrrole: a comparative study. <i>Journal of Materials Science</i> , 2011, 46, 7466-7474.	1.7	20
31	Creep behaviour of injection-moulded basalt fibre reinforced poly(lactic acid) composites. <i>Journal of Reinforced Plastics and Composites</i> , 2016, 35, 1600-1610.	1.6	20
32	Effect of fiber surface treatment on the incorporation of carbon nanotubes and on the micromechanical properties of a single-carbon fiber-epoxy matrix composite. <i>EXPRESS Polymer Letters</i> , 2017, 11, 704-718.	1.1	19
33	Improving the bonding between henequen fibers and high density polyethylene using atmospheric pressure ethylene-plasma treatments. <i>EXPRESS Polymer Letters</i> , 2014, 8, 491-504.	1.1	18
34	Strain-Relief Inserts for Composite Fasteners -An Experimental Study. <i>Journal of Composite Materials</i> , 1992, 26, 751-768.	1.2	17
35	Preparation and Characterization of Extruded Composites Based on Polypropylene and Chitosan Compatibilized with Polypropylene-Graft-Maleic Anhydride. <i>Materials</i> , 2017, 10, 105.	1.3	17
36	Degradability of extruded polyethylene/chitosan blends compatibilized with polyethylene-graft-maleic anhydride under natural weathering. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	14

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37	Analysis of the interface between a thermoplastic fiber and a thermosetting matrix using photoelasticity. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 819-827.	3.8	13
38	Selective adsorption of gold and silver in bromine solutions by acetate cellulose composite membranes coated with polyaniline or polypyrrole. <i>Polymer Bulletin</i> , 2018, 75, 3241-3265.	1.7	13
39	A note on the effect of the fiber curvature on the micromechanical behavior of natural fiber reinforced thermoplastic composites. <i>EXPRESS Polymer Letters</i> , 2015, 9, 1119-1132.	1.1	13
40	Dynamic Mechanical Properties of Compatibilized PET with Radiation Oxidized HDPE. <i>Polymer Bulletin</i> , 2006, 56, 47-52.	1.7	12
41	Urea sensing film prepared by extrusion from DBSA-doped polyaniline-poly(styrene-co-potassium) Tj ETQq1 1 0.784314 rgBT /Overlo	4.0	12
42	Factorial design approach to assess the effect of fiber-matrix adhesion on the IFSS and work of adhesion of carbon fiber/polysulfone-modified epoxy composites. <i>Carbon Letters</i> , 2019, 29, 345-358.	3.3	12
43	Fibrous membranes of cellulose acetate and poly(vinyl pyrrolidone) by electrospinning method: Preparation and characterization. <i>Journal of Applied Polymer Science</i> , 2010, 116, 1873-1878.	1.3	11
44	Preparation of polyaniline submicro/nanostructures using l-glutamic acid: Loading and releasing studies of amoxicillin. <i>Synthetic Metals</i> , 2013, 184, 41-47.	2.1	11
45	Using Factorial Design Methodology to Assess PLA-g-Ma and Henequen Microfibrillated Cellulose Content on the Mechanical Properties of Poly(lactic acid) Composites. <i>International Journal of Polymer Science</i> , 2017, 2017, 1-14.	1.2	11
46	Photoelastic evaluation of fiber surface-treatments on the interfacial performance of a polyester fiber/epoxy model composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 1017-1024.	3.8	10
47	Production of Biocomposites Using Different Pre-treated Cut Jute Fibre and Polylactic Acid Matrix and Their Properties. <i>Journal of Natural Fibers</i> , 2021, 18, 1604-1617.	1.7	10
48	Effect of fiber-matrix adhesion on the fracture behavior of a carbon fiber reinforced thermoplastic-modified epoxy matrix. <i>Carbon Letters</i> , 2016, 19, 47-56.	3.3	10
49	Electrical and thermal properties of recycled polypropylene-carbon black composites. <i>Polymer Bulletin</i> , 2001, 45, 509-516.	1.7	8
50	A study of the fracture toughness of acrylic composites using the essential work of fracture method. <i>Polymer Testing</i> , 2010, 29, 565-571.	2.3	7
51	Influence of Aging Time on the Structural Changes of Cassava Thermoplastic Starch. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1372, 21.	0.1	6
52	Micromechanical Analysis of Thermoplastic-Thermoset Interphase. <i>Macromolecular Symposia</i> , 2004, 216, 117-130.	0.4	4
53	Modification of the fibre surface for the optimisation of mechanical properties in natural-fibre reinforced polymers. <i>International Journal of Materials and Product Technology</i> , 2009, 36, 417.	0.1	4
54	Enhancement of the in-plane and pin-load bearing behavior of a quasi-isotropic carbon fiber/epoxy matrix multi-scale laminate by modifying the fiber-matrix interphase using graphene nanoplatelets. <i>Journal of Materials Research and Technology</i> , 2020, 9, 13855-13869.	2.6	4

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55	Preparation and Characterization of Coaxial Electrospun Fibers Containing Triclosan for Comparative Study of Release Properties with Amoxicillin and Epicatechin. <i>Current Drug Delivery</i> , 2016, 13, 49-56.	0.8	3
56	DEGRADACIÓN ACELERADA DE PELÍCULAS DE POLIETILENO CON QUITOSANO COMPATIBILIZADAS CON ANHÍDRIDO MALÁICO. <i>Revista Internacional De Contaminacion Ambiental</i> , 2017, 33, 99-107.	0.1	3
57	Adhesion, strengthening and durability issues in the retrofitting of Reinforced Concrete (RC) beams using Carbon Fiber Reinforced Polymer (CFRP) – A Review. <i>Revista ALCONPAT</i> , 2019, 9, 130-151.	0.2	3
58	Stem anatomical characteristics of the climbing palm <i>Desmoncus orthacanthos</i> (Arecaceae) under two natural growth conditions in a tropical forest. <i>Revista De Biología Tropical</i> , 2008, 56, 937-49.	0.1	3
59	Polyurethane electrospun membranes with hydroxyapatite/vancomycin for potential application in bone tissue engineering and drug delivery. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51893.	1.3	3
60	Effect of linear viscoelasticity on stress transfer in a numerical model of a single fiber fragmentation test. <i>Materials Today Communications</i> , 2020, 22, 100757.	0.9	1
61	Properties of Fiber-Matrix Interfaces of Natural Fiber Composites. , 2021, , 94-116.		1
62	In situ reinforcement of particulate SiC porous samples with $\text{Si}_3\text{N}_4$ -nanofibers synthesized by the CVI method without catalytic precursors. <i>Particulate Science and Technology</i> , 2018, 36, 263-269.	1.1	0