

Juan Lopez

List of Publications by Year in descending order

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107
papers

5,329
citations

87888

38
h-index

88630

70
g-index

107
all docs

107
docs citations

107
times ranked

4758
citing authors

#	ARTICLE	IF	CITATIONS
1	Ternary PLA- <i>PHB</i> -Limonene blends intended for biodegradable food packaging applications. <i>European Polymer Journal</i> , 2014, 50, 255-270.	5.4	288
2	Bionanocomposite films based on plasticized PLA- <i>PHB</i> /cellulose nanocrystal blends. <i>Carbohydrate Polymers</i> , 2015, 121, 265-275.	10.2	276
3	On the Use of PLA- <i>PHB</i> Blends for Sustainable Food Packaging Applications. <i>Materials</i> , 2017, 10, 1008.	2.9	272
4	Characterization of PLA-limonene blends for food packaging applications. <i>Polymer Testing</i> , 2013, 32, 760-768.	4.8	253
5	Multifunctional PLA- <i>PHB</i> /cellulose nanocrystal films: Processing, structural and thermal properties. <i>Carbohydrate Polymers</i> , 2014, 107, 16-24.	10.2	250
6	PLA- <i>PHB</i> /cellulose based films: Mechanical, barrier and disintegration properties. <i>Polymer Degradation and Stability</i> , 2014, 107, 139-149.	5.8	243
7	Disintegrability under composting conditions of plasticized PLA- <i>PHB</i> blends. <i>Polymer Degradation and Stability</i> , 2014, 108, 307-318.	5.8	220
8	Combined Effect of Poly(hydroxybutyrate) and Plasticizers on Polylactic acid Properties for Film Intended for Food Packaging. <i>Journal of Polymers and the Environment</i> , 2014, 22, 460-470.	5.0	169
9	Plasticized Poly(lactic acid)-Poly(hydroxybutyrate) (PLA- <i>PHB</i>) Blends Incorporated with Catechin Intended for Active Food-Packaging Applications. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 10170-10180.	5.2	160
10	Thermal degradation study of poly(vinyl chloride): Kinetic analysis of thermogravimetric data. <i>Journal of Applied Polymer Science</i> , 1993, 50, 1565-1573.	2.6	158
11	Development of flexible materials based on plasticized electrospun PLA- <i>PHB</i> blends: Structural, thermal, mechanical and disintegration properties. <i>European Polymer Journal</i> , 2015, 73, 433-446.	5.4	147
12	Functional properties of sodium and calcium caseinate antimicrobial active films containing carvacrol. <i>Journal of Food Engineering</i> , 2014, 121, 94-101.	5.2	112
13	Biodegradable electrospun bionanocomposite fibers based on plasticized PLA- <i>PHB</i> blends reinforced with cellulose nanocrystals. <i>Industrial Crops and Products</i> , 2016, 93, 290-301.	5.2	112
14	Recycling of ABS and PC from electrical and electronic waste. Effect of miscibility and previous degradation on final performance of industrial blends. <i>European Polymer Journal</i> , 2005, 41, 2150-2160.	5.4	108
15	Optimization of the curing conditions of PVC plastisols based on the use of an epoxidized fatty acid ester plasticizer. <i>European Polymer Journal</i> , 2009, 45, 2674-2684.	5.4	105
16	Novel methodology to isolate microplastics from vegetal-rich samples. <i>Marine Pollution Bulletin</i> , 2018, 129, 61-69.	5.0	91
17	Effect of chitosan and catechin addition on the structural, thermal, mechanical and disintegration properties of plasticized electrospun PLA- <i>PHB</i> biocomposites. <i>Polymer Degradation and Stability</i> , 2016, 132, 145-156.	5.8	81
18	Characterization of selectively etched halloysite nanotubes by acid treatment. <i>Applied Surface Science</i> , 2017, 422, 616-625.	6.1	77

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19	Processing and characterization of binary poly(hydroxybutyrate) (PHB) and poly(caprolactone) (PCL) blends with improved impact properties. <i>Polymer Bulletin</i> , 2016, 73, 3333-3350.	3.3	74
20	The influence of polyethylene in the mechanical recycling of polyethylene terephthalate. <i>Journal of Materials Processing Technology</i> , 2008, 195, 110-116.	6.3	73
21	Thermal degradation of ethylene (vinyl acetate). <i>Journal of Thermal Analysis</i> , 1996, 47, 247-258.	0.6	68
22	Combined effect of linseed oil and gum rosin as natural additives for PVC. <i>Industrial Crops and Products</i> , 2017, 99, 196-204.	5.2	67
23	Optimizing the yield and physico-chemical properties of pine cone cellulose nanocrystals by different hydrolysis time. <i>Cellulose</i> , 2018, 25, 2925-2938.	4.9	67
24	Thermogravimetric analysis of composites obtained from sintering of rice husk-scrap tire mixtures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005, 81, 315-320.	3.6	63
25	Effect of the epoxidized linseed oil concentration as natural plasticizer in vinyl plastisols. <i>Journal of Materials Science</i> , 2010, 45, 4406-4413.	3.7	63
26	Development of a novel pyrolysis-gas chromatography/mass spectrometry method for the analysis of poly(lactic acid) thermal degradation products. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 101, 150-155.	5.5	63
27	Reinforcing capability of cellulose nanocrystals obtained from pine cones in a biodegradable poly(3-hydroxybutyrate)/poly(μ -caprolactone) (PHB/PCL) thermoplastic blend. <i>European Polymer Journal</i> , 2018, 104, 10-18.	5.4	63
28	Kinetic analysis of thermal degradation of recycled polycarbonate/acrylonitrile-butadiene-styrene mixtures from waste electric and electronic equipment. <i>Polymer Degradation and Stability</i> , 2006, 91, 527-534.	5.8	58
29	Composites based on sintering rice husk-waste tire rubber mixtures. <i>Materials & Design</i> , 2007, 28, 2234-2238.	5.1	57
30	Substitution of di(2-ethylhexyl) phthalate by di(isononyl) cyclohexane-1,2-dicarboxylate as a plasticizer for industrial vinyl plastisol formulations. <i>Journal of Applied Polymer Science</i> , 2007, 104, 1215-1220.	2.6	56
31	Interference of Biodegradable Plastics in the Polypropylene Recycling Process. <i>Materials</i> , 2018, 11, 1886.	2.9	56
32	Analysis of Potentially Toxic Phthalate Plasticizers Used in Toy Manufacturing. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1998, 60, 68-73.	2.7	55
33	Plasticization effects of epoxidized vegetable oils on mechanical properties of poly(3-hydroxybutyrate). <i>Polymer International</i> , 2016, 65, 1157-1164.	3.1	50
34	The effect of the curing time and temperature on final properties of flexible PVC with an epoxidized fatty acid ester as natural-based plasticizer. <i>Journal of Materials Science</i> , 2009, 44, 3702-3711.	3.7	49
35	Compatibility of recycled PVC/ABS blends. Effect of previous degradation. <i>Polymer Engineering and Science</i> , 2007, 47, 789-796.	3.1	48
36	Mechanical properties of recycled PVC blends with styrenic polymers. <i>Journal of Applied Polymer Science</i> , 2006, 101, 2464-2471.	2.6	43

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37	Study of the Mechanical and Morphological Properties of Plasticized PVC Composites Containing Rice Husk Fillers. <i>Journal of Reinforced Plastics and Composites</i> , 2008, 27, 229-243.	3.1	42
38	Improvement of mechanical and thermal properties of poly(3-hydroxybutyrate) (PHB) blends with surface-modified halloysite nanotubes (HNT). <i>Applied Clay Science</i> , 2018, 162, 487-498.	5.2	40
39	Enhancing the Thermal Stability of Polypropylene by Blending with Low Amounts of Natural Antioxidants. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900379.	3.6	40
40	Formulation and mechanical characterization of PVC plastisols based on low-toxicity additives. <i>Journal of Applied Polymer Science</i> , 2001, 81, 1881-1890.	2.6	39
41	New mathematical model on the thermal degradation of industrial plastisols. <i>Journal of Applied Polymer Science</i> , 1996, 60, 2041-2048.	2.6	35
42	Kinetic analysis of the thermal degradation of PVC plastisols. <i>Journal of Applied Polymer Science</i> , 1999, 73, 1069-1079.	2.6	35
43	Analysis of poly(vinyl chloride) additives by supercritical fluid extraction and gas chromatography. <i>Journal of Chromatography A</i> , 1996, 750, 183-190.	3.7	34
44	New Materials for 3D-Printing Based on Polycaprolactone with Gum Rosin and Beeswax as Additives. <i>Polymers</i> , 2020, 12, 334.	4.5	33
45	An overview of nanoparticles role in the improvement of barrier properties of bioplastics for food packaging applications. , 2017, , 391-424.		31
46	Recycling of Expanded Polystyrene from Packaging. <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2010, 26, 83-92.	1.8	29
47	A Deeper Microscopic Study of the Interaction between Gum Rosin Derivatives and a Mater-Bi Type Bioplastic. <i>Polymers</i> , 2020, 12, 226.	4.5	29
48	Pine Resin Derivatives as Sustainable Additives to Improve the Mechanical and Thermal Properties of Injected Moulded Thermoplastic Starch. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2561.	2.5	29
49	Quantitative Characterization of Multicomponent Polymers by Sample-Controlled Thermal Analysis. <i>Analytical Chemistry</i> , 2010, 82, 8875-8880.	6.5	27
50	Improvement of Mechanical Ductile Properties of Poly(3-hydroxybutyrate) by Using Vegetable Oil Derivatives. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600330.	3.6	27
51	Influence of crystallinity in the curing mechanism of PVC plastisols. <i>Journal of Applied Polymer Science</i> , 2004, 91, 538-544.	2.6	26
52	Mechanical and morphological characterization of PVC plastisol composites with almond husk fillers. <i>Polymer Composites</i> , 2007, 28, 71-77.	4.6	25
53	Evaluation of the melt stabilization performance of hydroxytyrosol (3,4-dihydroxy-phenylethanol) in polypropylene. <i>Polymer Degradation and Stability</i> , 2010, 95, 1636-1641.	5.8	25
54	Characterization of the curing process of vinyl plastisols with epoxidized linseed oil as a natural-based plasticizer. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2550-2557.	2.6	25

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55	Films Based on Thermoplastic Starch Blended with Pine Resin Derivatives for Food Packaging. <i>Foods</i> , 2021, 10, 1171.	4.3	25
56	Optimization of variables on the supercritical fluid extraction of phthalate plasticizers. <i>Journal of Supercritical Fluids</i> , 1998, 12, 271-277.	3.2	24
57	Microstructure, Mechanical, and Thermogravimetric Characterization of Cellulosic By-Products Obtained from Biomass Seeds. <i>International Journal of Food Properties</i> , 2015, 18, 1211-1222.	3.0	24
58	The Impact of Biodegradable Plastics in the Properties of Recycled Polyethylene Terephthalate. <i>Journal of Polymers and the Environment</i> , 2021, 29, 2686-2700.	5.0	24
59	Improvement of PBAT Processability and Mechanical Performance by Blending with Pine Resin Derivatives for Injection Moulding Rigid Packaging with Enhanced Hydrophobicity. <i>Polymers</i> , 2020, 12, 2891.	4.5	23
60	Mechanical and Thermal Properties of Polyvinyl Chloride Plasticized with Natural Fatty Acid Esters. <i>Polymer-Plastics Technology and Engineering</i> , 2013, 52, 761-767.	1.9	22
61	Nanocellulose-Based Polymeric Blends for Food Packaging Applications. , 2016, , 205-252.		21
62	Effect of Different Compatibilizers on Injection-Molded Green Fiber-Reinforced Polymers Based on Poly(lactic acid)-Maleinized Linseed Oil System and Sheep Wool. <i>Polymers</i> , 2019, 11, 1514.	4.5	21
63	Experimental study of the auto-catalytic effect of triethylaluminum and TiCl ₄ residuals at the onset of non-additive polypropylene degradation and their impact on thermo-oxidative degradation and pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 155, 105052.	5.5	21
64	Electrochemical behaviour and electrical percolation in graphite-epoxy electrodes. <i>Journal of Materials Science</i> , 1994, 29, 4604-4610.	3.7	19
65	Prussian blue films deposited on graphite+epoxy composite electrodes: electrochemical detection of the second percolation threshold. <i>Journal of Electroanalytical Chemistry</i> , 2000, 484, 33-40.	3.8	18
66	Determination of the photo-degradation level of high impact polystyrene (HIPS) using pyrolysis-gas chromatography-mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007, 78, 250-256.	5.5	18
67	Silane-Functionalized Sheep Wool Fibers from Dairy Industry Waste for the Development of Plasticized PLA Composites with Maleinized Linseed Oil for Injection-Molded Parts. <i>Polymers</i> , 2020, 12, 2523.	4.5	18
68	Modification of poly (lactic acid) through the incorporation of gum rosin and gum rosin derivative: Mechanical performance and hydrophobicity. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49346.	2.6	18
69	Thermal degradation of plastisols. Effect of some additives on the evolution of gaseous products. <i>Journal of Analytical and Applied Pyrolysis</i> , 1997, 40-41, 201-215.	5.5	17
70	Mechanical behaviour of vinyl plastisols with cellulosic fillers. Analysis of the interface between particles and matrices. <i>International Journal of Adhesion and Adhesives</i> , 2007, 27, 422-428.	2.9	17
71	Films Based on Mater-Bi® Compatibilized with Pine Resin Derivatives: Optical, Barrier, and Disintegration Properties. <i>Polymers</i> , 2021, 13, 1506.	4.5	16
72	Changes in the mechanical and thermal properties of high impact polystyrene (HIPS) in the presence of low polypropylene (PP) contents. <i>Journal of Materials Science</i> , 2008, 43, 3203-3209.	3.7	15

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73	Deposition of gum rosin microspheres on polypropylene microfibrils used in face masks to enhance their hydrophobic behaviour. <i>Environmental Technology and Innovation</i> , 2021, 24, 101812.	6.1	14
74	Improved Toughness in Lignin/Natural Fiber Composites Plasticized with Epoxidized and Maleinized Linseed Oils. <i>Materials</i> , 2020, 13, 600.	2.9	12
75	Determination of phenol in polymeric materials by supercritical fluid extraction combined with gas chromatography–mass spectrometry. <i>Journal of Chromatography A</i> , 1998, 819, 289-296.	3.7	11
76	Comparative characterization of gum rosins for their use as sustainable additives in polymeric matrices. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	11
77	Modification of epoxy resins by the addition of PVC plastisols. <i>Journal of Applied Polymer Science</i> , 1998, 67, 1769-1777.	2.6	10
78	Characterization of blends of poly(vinyl chloride) waste for building applications. <i>Journal of Materials Science</i> , 2007, 42, 10143-10151.	3.7	9
79	Gum Rosin as a Size Control Agent of Poly(Butylene Adipate-Co-Terephthalate) (PBAT) Domains to Increase the Toughness of Packaging Formulations Based on Polylactic Acid (PLA). <i>Polymers</i> , 2021, 13, 1913.	4.5	9
80	PIRÁLISIS DE RESIDUOS DE BIOPLÁSTICOS: PRODUCTOS OBTENIDOS DEL ÁCIDO POLILÁCTICO (PLA). <i>Dyna</i> (Spain), 2012, 87, 395-399.	0.2	9
81	Monitoring the polymerization process of polypyrrole films by thermogravimetric and X-ray analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 102, 695-701.	3.6	8
82	A new bio-based fibre-reinforced polymer obtained from sheep wool short fibres and PLA. <i>Green Materials</i> , 2020, 8, 79-91.	2.1	8
83	Characterisation of elastomer prepared from ground tyre rubber: morphological and granulometric study. <i>Plastics, Rubber and Composites</i> , 2009, 38, 195-200.	2.0	7
84	Failure analysis of automotive battery parts. <i>Engineering Failure Analysis</i> , 2009, 16, 2217-2223.	4.0	7
85	Process behavior of compatible polymer blends. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2485-2493.	2.6	7
86	EFFECT OF D-LIMONENE ON THE STABILIZATION OF POLY (LACTIC ACID). <i>Acta Horticulturae</i> , 2015, , 719-725.	0.2	7
87	Mechanical, Dynamic-Mechanical, Thermal and Decomposition Behavior of 3D-Printed PLA Reinforced with CaCO ₃ Fillers from Natural Resources. <i>Polymers</i> , 2022, 14, 2646.	4.5	7
88	Compatibility study of recycled poly(vinyl chloride)/styrene-acrylonitrile blends. <i>Journal of Applied Polymer Science</i> , 2007, 106, 20-27.	2.6	6
89	Influence of Sawdust on the Mechanical Properties of Vinyl Plasticized Composites. <i>Journal of Thermoplastic Composite Materials</i> , 2009, 22, 259-272.	4.2	6
90	PLA-Based Nanocomposites Reinforced with CNC for Food Packaging Applications: From Synthesis to Biodegradation. , 2017, , 265-300.		6

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91	Electrochemical characterization of cement/graphite and cement/aluminium materials. Journal of Materials Science Letters, 1994, 13, 609-612.	0.5	5
92	Electrical properties of EVA filled by zinc powder. Journal of Materials Science, 2006, 41, 6396-6402.	3.7	5
93	Effects of the injection molding temperatures and pyrolysis cycles on the butadiene phase of high impact polystyrene. Journal of Applied Polymer Science, 2007, 106, 1903-1908.	2.6	5
94	Enhancing the mechanical features of clay surfaces by the absorption of nano-SiO ₂ particles in aqueous media. Case of study on Bronze Age clay objects. Cement and Concrete Composites, 2018, 93, 107-117.	10.7	5
95	Dynamic mechanical analysis. Journal of Thermal Analysis, 1995, 45, 1167-1174.	0.6	4
96	Mechanical Properties and Fracture Surface Morphology of Dehp and Dinch Based Vinyl Plastics. Journal of Elastomers and Plastics, 2009, 41, 145-161.	1.5	4
97	Bilayer films of poly(ϵ -caprolactone) electrospayed with gum rosin microspheres: Processing and characterization. Polymers for Advanced Technologies, 2021, 32, 3770-3781.	3.2	4
98	Etude des mécanismes de recyclage des caoutchoucs provenant des déchets de pneus. Annales De Chimie: Science Des Matériaux, 2008, 33, 179-188.	0.4	4
99	Combined solvent extraction-mass spectrometry determination of free phenol traces in poly(vinyl) Tj ETQq1 1 0.784314 rgBT ₃ /Overlo	3.7	3
100	Modification of surface wettability of sodium ionomer sheets via atmospheric plasma treatment. Polymer Engineering and Science, 2012, 52, 2573-2580.	3.1	3
101	Aplicación de modelos matemáticos para el estudio de degradación térmica de polímeros. Modelling in Science Education and Learning, 0, 6, 119.	0.2	2
102	Apparent activation energies and apparent frequency factor in polarographic waves of paludrine-Zn(II). Electrochimica Acta, 1993, 38, 735-737.	5.2	1
103	Analysis weld seam weak in blow molding large parts made of commodity plastics. Engineering Failure Analysis, 2009, 16, 856-862.	4.0	1
104	Use of atmospheric plasma treatment to improve adhesion properties of sodium ionomer sheets. Surface and Coatings Technology, 2013, 218, 1-6.	4.8	1
105	Reconstrucción Tridimensional de Superficies en el Cuerpo Humano. Informacion Tecnologica (discontinued), 2013, 24, 31-40.	0.3	1
106	Predictive Models of Ethylene-Vinyl Acetate (EVA) Copolymers with Powdered Zn Fillers. Macromolecular Symposia, 2005, 221, 209-216.	0.7	0
107	Cambios en la estructura cuticular Ornithodoros erraticus hembra durante el proceso de alimentación. Gayana, 2013, 77, 43-52.	0.1	0