

Luis Barral

List of Publications by Year in descending order

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115
papers

3,758
citations

136885

32
h-index

155592

55
g-index

115
all docs

115
docs citations

115
times ranked

4154
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of water sorption on the structure and mechanical properties of an epoxy resin system. <i>Journal of Applied Polymer Science</i> , 2001, 80, 71-80.	1.3	275
2	Epoxy Networks Containing Large Mass Fractions of a Monofunctional Polyhedral Oligomeric Silsesquioxane (POSS). <i>Macromolecules</i> , 2003, 36, 3128-3135.	2.2	192
3	Study of the structural order of native starch granules using combined FTIR and XRD analysis. <i>Journal of Polymer Research</i> , 2018, 25, 1.	1.2	182
4	Plasticized Poly(lactic acid)-Poly(hydroxybutyrate) (PLA-PHB) Blends Incorporated with Catechin Intended for Active Food-Packaging Applications. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 10170-10180.	2.4	160
5	Epoxy/POSS organic-inorganic hybrids: ATR-FTIR and DSC studies. <i>European Polymer Journal</i> , 2008, 44, 3035-3045.	2.6	140
6	Effect of nanocellulose as a filler on biodegradable thermoplastic starch films from tuber, cereal and legume. <i>Carbohydrate Polymers</i> , 2017, 157, 1094-1104.	5.1	137
7	Preparation, evaluation and characterization of quercetin-molecularly imprinted polymer for preconcentration and clean-up of catechins. <i>Analytica Chimica Acta</i> , 2012, 721, 68-78.	2.6	104
8	Empagliflozin reduces the levels of CD36 and cardiotoxic lipids while improving autophagy in the hearts of Zucker diabetic fatty rats. <i>Biochemical Pharmacology</i> , 2019, 170, 113677.	2.0	102
9	Preparation of starch nanoparticles loaded with quercetin using nanoprecipitation technique. <i>International Journal of Biological Macromolecules</i> , 2018, 114, 426-433.	3.6	100
10	Processing and characterization of polyols plasticized-starch reinforced with microcrystalline cellulose. <i>Carbohydrate Polymers</i> , 2016, 149, 83-93.	5.1	88
11	Morphology, thermal and barrier properties of biodegradable films of poly (3-hydroxybutyrate-co-3-hydroxyvalerate) containing cellulose nanocrystals. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 93, 41-48.	3.8	81
12	FTIR study on the nature of water sorbed in polypropylene (PP)/ethylene alcohol vinyl (EVOH) films. <i>European Polymer Journal</i> , 2006, 42, 3121-3132.	2.6	69
13	Carrageenan-based physically crosslinked injectable hydrogel for wound healing and tissue repairing applications. <i>International Journal of Pharmaceutics</i> , 2020, 589, 119828.	2.6	69
14	Rheological, Mechanical and Thermal Behaviour of Wood Polymer Composites Based on Recycled Polypropylene. <i>Journal of Polymers and the Environment</i> , 2010, 18, 318-325.	2.4	66
15	Thermodegradation kinetics of a hybrid inorganic-organic epoxy system. <i>European Polymer Journal</i> , 2005, 41, 1662-1666.	2.6	64
16	Poly(hydroxybutyrate-co-hydroxyvalerate) microparticles embedded in κ -carrageenan/locust bean gum hydrogel as a dual drug delivery carrier. <i>International Journal of Biological Macromolecules</i> , 2020, 146, 110-118.	3.6	55
17	High-performance liquid chromatography analysis of ten dyes for control of safety of commercial articles. <i>Journal of Chromatography A</i> , 2008, 1179, 152-160.	1.8	51
18	Entrapment of chitosan, pectin or κ -carrageenan within methacrylate based hydrogels: Effect on swelling and mechanical properties. <i>Materials Science and Engineering C</i> , 2019, 96, 583-590.	3.8	50

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19	Effect of poly(styrene-co-acrylonitrile) on the curing of an epoxy/amine resin. <i>Polymer</i> , 2001, 42, 1669-1677.	1.8	46
20	Effects of a mixture of stabilizers on the structure and mechanical properties of polyethylene during reprocessing. <i>Journal of Applied Polymer Science</i> , 2004, 92, 3910-3916.	1.3	46
21	Isothermal cure kinetics of a diglycidyl ether of bisphenol A/1,3-bisaminomethylcyclohexane (DGEBA/1,3-BAC) epoxy resin system. <i>Journal of Applied Polymer Science</i> , 1995, 56, 1029-1037.	1.3	43
22	Kinetic studies of the effect of ABS on the curing of an epoxy/cycloaliphatic amine resin. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 351-361.	2.4	42
23	Blends of an epoxy/cycloaliphatic amine resin with poly(ether imide). <i>Polymer</i> , 2000, 41, 2657-2666.	1.8	40
24	Isothermal curing by dynamic mechanical analysis of three epoxy resin systems: Gelation and vitrification. <i>Journal of Applied Polymer Science</i> , 2002, 83, 78-85.	1.3	40
25	Synthesis and characterization of bisphenol-A imprinted polymer as a selective recognition receptor. <i>Analytica Chimica Acta</i> , 2011, 706, 275-284.	2.6	40
26	Corn starch plasticized with isosorbide and filled with microcrystalline cellulose: Processing and characterization. <i>Carbohydrate Polymers</i> , 2019, 206, 726-733.	5.1	40
27	Cure kinetics of amine-cured diglycidyl ether of bisphenol. <i>Thermochimica Acta</i> , 2000, 344, 127-136.	1.2	39
28	Decomposition behavior of epoxy-resin systems cured by diamines. <i>European Polymer Journal</i> , 2000, 36, 1231-1240.	2.6	39
29	Title is missing!. <i>Magyar Árvad Kzlemnyek</i> , 2000, 60, 391-399.	1.4	38
30	Starch edible films loaded with donut-shaped starch microparticles. <i>LWT - Food Science and Technology</i> , 2018, 98, 62-68.	2.5	36
31	Effects of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) microparticles on morphological, mechanical, thermal, and barrier properties in thermoplastic potato starch films. <i>Carbohydrate Polymers</i> , 2018, 194, 357-364.	5.1	35
32	Starch films loaded with donut-shaped starch-quercetin microparticles: Characterization and release kinetics. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 2201-2207.	3.6	35
33	Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/clay nanocomposites for replacement of mineral oil based materials. <i>Polymer Composites</i> , 2013, 34, 1033-1040.	2.3	33
34	Effects of vinyltrimethoxy silane on thermal properties and dynamic mechanical properties of polypropylene-wood flour composites. <i>Journal of Applied Polymer Science</i> , 2008, 109, 1197-1204.	1.3	32
35	Application of FTIR spectroscopy to determine transport properties and water-polymer interactions in polypropylene (PP)/poly(ethylene-co-vinyl alcohol) (EVOH) blend films: Effect of poly(ethylene-co-vinyl alcohol) content and water activity. <i>Polymer</i> , 2009, 50, 2981-2989.	1.8	32
36	Study of thermal and morphological properties of a hybrid system, iPP/POSS. Effect of flame retardance. <i>Composites Part B: Engineering</i> , 2014, 58, 566-572.	5.9	32

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37	Thermal behaviour of a polyhedral oligomeric silsesquioxane with epoxy resin cured by diamines. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003, 72, 421-429.	2.0	31
38	Determination of the activation energies for \hat{I}^1 and \hat{I}^2 transitions of a system containing a diglycidyl ether of bisphenol a (DGEBA) and 1,3-bisaminomethylcyclohexane (1,3-BAC). <i>Journal of Thermal Analysis</i> , 1994, 41, 1463-1467.	0.7	29
39	Thermal decomposition behavior and the mechanical properties of an epoxy/cycloaliphatic amine resin with ABS. <i>European Polymer Journal</i> , 2001, 37, 1613-1623.	2.6	28
40	Organic/inorganic hybrid materials from an epoxy resin cured by an amine silsesquioxane. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 87, 69-72.	2.0	27
41	Physical aging of an epoxy/cycloaliphatic amine resin. <i>European Polymer Journal</i> , 1999, 35, 403-411.	2.6	25
42	Effect of aminomethoxy silane and olefin block copolymer on rheomechanical and morphological behavior of fly ash-filled polypropylene composites. <i>Rheologica Acta</i> , 2010, 49, 607-618.	1.1	25
43	Blends of acrylonitrile-butadiene-styrene with an epoxy/cycloaliphatic amine resin: Phase-separation behavior and morphologies. <i>Journal of Applied Polymer Science</i> , 2002, 85, 1277-1286.	1.3	24
44	Grafting of selected presynthesized macromonomers onto various dispersions of silica particles. <i>Journal of Applied Polymer Science</i> , 2002, 85, 1287-1296.	1.3	23
45	Hydrocortisone loaded poly-(3-hydroxybutyrate-co-3-hydroxyvalerate) nanoparticles for topical ophthalmic administration: Preparation, characterization and evaluation of ophthalmic toxicity. <i>International Journal of Pharmaceutics</i> , 2019, 568, 118519.	2.6	23
46	Thermal properties of amine cured diglycidyl ether of bisphenol A epoxy blended with poly(ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	1.2	22
47	Analysis of the isothermal crystallization of polypropylene/wood flour composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 94, 119-127.	2.0	21
48	Liquid chromatographic methods to analyze hindered amines light stabilizers (HALS) levels to improve safety in polyolefins. <i>Journal of Separation Science</i> , 2010, 33, 2698-2706.	1.3	21
49	Morphology and thermal behavior of poly (3-hydroxybutyrate-co- <i>i></i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (-3-hyd Composites, 2015, 36, 2051-2058.	2.3	21
50	Mechanical and fracture behavior of polypropylene/poly(ethylene-co-vinyl alcohol) blends compatibilized with ionomer Na+. <i>European Polymer Journal</i> , 2006, 42, 265-273.	2.6	20
51	Dynamic crystallization of polypropylene and wood-based composites. <i>Journal of Applied Polymer Science</i> , 2006, 102, 6028-6036.	1.3	20
52	Effect of particle size and a processing aid on the crystallization and melting behavior of iPP/red pine wood flour composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 935-949.	3.8	20
53	Nanoclay reinforced poly(butylene adipate-co- <i>i></i> terephthalate) biocomposites for packaging applications. <i>Polymer Composites</i> , 2012, 33, 2022-2028.	2.3	20
54	Properties and behavior under environmental factors of isosorbide-plasticized starch reinforced with microcrystalline cellulose biocomposites. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 2028-2037.	3.6	20

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55	Influence of the hydrophilicity of montmorillonite on structure and properties of thermoplastic wheat starch/montmorillonite bionanocomposites. <i>Polymers for Advanced Technologies</i> , 2021, 32, 4479-4489.	1.6	20
56	Effect of an epoxy octasilsesquioxane on the thermodegradation of an epoxy/amine system. <i>Polymer International</i> , 2010, 59, 112-118.	1.6	19
57	A Novel Hydrocolloid Film Based on Pectin, Starch and <i>Gunnera tinctoria</i> and <i>Ugni molinae</i> Plant Extracts for Wound Dressing Applications. <i>Current Topics in Medicinal Chemistry</i> , 2020, 20, 280-292.	1.0	19
58	Enthalpies of combustion of the three aminophenols. <i>Journal of Chemical Thermodynamics</i> , 1986, 18, 575-579.	1.0	18
59	Rheomechanical and morphological study of compatibilized PP/EVOH blends. <i>Rheologica Acta</i> , 2009, 48, 993-1004.	1.1	18
60	Effect of several variables in the polymer toys additive migration to saliva. <i>Talanta</i> , 2011, 85, 2080-2088.	2.9	18
61	Insight into BPA's 4-vinylpyridine interactions in molecularly imprinted polymers using complementary spectroscopy techniques. <i>Materials Chemistry and Physics</i> , 2013, 141, 461-476.	2.0	18
62	Study of the effect of poly(acrylonitrile-co-butadiene-co-styrene) on the mechanical properties of an epoxy system. <i>Journal of Applied Polymer Science</i> , 2004, 92, 461-467.	1.3	17
63	Use of a sodium ionomer as a compatibilizer in polypropylene/high-barrier ethylene-vinyl alcohol copolymer blends: The processability of the blends and their physical properties. <i>Journal of Applied Polymer Science</i> , 2004, 94, 1763-1770.	1.3	17
64	Influence of the ethylene-(methacrylic acid)-Zn ²⁺ ionomer on the thermal and mechanical properties of blends of poly(propylene) (PP)/ethylene-(vinyl alcohol) copolymer (EVOH). <i>Polymer International</i> , 2005, 54, 673-678.	1.6	17
65	Development of an ultraperformance liquid chromatography method for improved determination of additives in polymeric materials. <i>Journal of Separation Science</i> , 2007, 30, 2452-2459.	1.3	17
66	Preparation and characterization of nano and micro particles of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV) via emulsification/solvent evaporation and nanoprecipitation techniques. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	17
67	Thermal degradation of a diglycidyl ether of bisphenol A/1,3-bisaminomethylcyclohexane (DGEBA/1,3-BAC) epoxy resin system. <i>Thermochimica Acta</i> , 1995, 269-270, 253-259.	1.2	16
68	TTT isothermal cure diagram of a diglycidyl ether of bisphenol A/1,3-bisaminomethylcyclohexane (DGEBA/1,3-BAC) epoxy resin system. <i>Journal of Applied Polymer Science</i> , 1996, 61, 1553-1559.	1.3	16
69	Dynamic mechanical analysis of an epoxy/thermoplastic blend: polymerization-induced phase separation. <i>Polymer International</i> , 2002, 51, 1100-1106.	1.6	16
70	Design of new polypropylene's woodflour composites: Processing and physical characterization. <i>Polymer Composites</i> , 2009, 30, 880-886.	2.3	16
71	Deformation and Fracture Behavior of PP/Ash Composites. <i>Composite Interfaces</i> , 2009, 16, 97-114.	1.3	16
72	PHBV/CNC bionanocomposites processed by extrusion: Structural characterization and properties. <i>Polymer Composites</i> , 2019, 40, E275.	2.3	16

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73	Thermodynamic analysis of phase separation in an epoxy/polystyrene mixture. <i>Polymer</i> , 2005, 46, 6114-6121.	1.8	15
74	Development, validation and application of Micellar Electrokinetic Capillary Chromatography method for routine analysis of catechins, quercetin and thymol in natural samples. <i>Microchemical Journal</i> , 2011, 99, 461-469.	2.3	14
75	Preparation of donut-shaped starch microparticles by aqueous-alcoholic treatment. <i>Food Chemistry</i> , 2018, 246, 1-5.	4.2	14
76	Preparation and characterization of bionanocomposite films based on wheat starch and reinforced with cellulose nanocrystals. <i>Cellulose</i> , 2021, 28, 7781-7793.	2.4	14
77	Isothermal cure of an epoxy/cycloaliphatic amine system. Vitrification and gelation. <i>Polymer International</i> , 1995, 38, 353-356.	1.6	13
78	Isothermal crystallization behavior and properties of polypropylene/EPR blends nucleated with sodium benzoate. <i>Journal of Applied Polymer Science</i> , 2002, 83, 201-211.	1.3	13
79	Effects of vinyltrimethoxy silane on mechanical properties and morphology of polypropylene/woodflour composites. <i>Polymer Engineering and Science</i> , 2009, 49, 324-332.	1.5	13
80	Microstructure, morphology, and mechanical properties of styrene/butadiene rubber/organoclay nanocomposites. <i>Polymer Engineering and Science</i> , 2011, 51, 1720-1729.	1.5	13
81	Poly(lactic acid) and poly(3-hydroxybutyrate-co-3-hydroxyvalerate) nano and microparticles for packaging bioplastic composites. <i>Polymer Bulletin</i> , 2016, 73, 3485-3502.	1.7	13
82	Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/cellulose nanocrystal films: artificial weathering, humidity absorption, water vapor transmission rate, antimicrobial activity and biocompatibility. <i>Cellulose</i> , 2019, 26, 2333-2348.	2.4	13
83	Water absorption of a diglycidyl ether of bisphenol A/1,3-bisaminomethylcyclohexane (DGEBA/1,3-BAC) epoxy resin system. <i>Journal of Thermal Analysis</i> , 1996, 47, 791-797.	0.7	12
84	Enthalpies of combustion of oxamic acid, oxamide, and dithiooxamide. <i>Journal of Chemical Thermodynamics</i> , 1988, 20, 1211-1216.	1.0	11
85	Enthalpy relaxation in an epoxy-cycloaliphatic amine resin. <i>Colloid and Polymer Science</i> , 2001, 279, 184-189.	1.0	11
86	Characterization of biaxially oriented polypropylene films by atomic force microscopy and microthermal analysis. <i>Journal of Applied Polymer Science</i> , 2002, 85, 1553-1561.	1.3	11
87	An approach to imprint irganox 1076: Potential application to the specific migration test in olive oil. <i>Journal of Applied Polymer Science</i> , 2011, 119, 2866-2874.	1.3	11
88	Enthalpies of formation of 2,4,6-tribromophenol and of 2,4,6-tribromoaniline. <i>Journal of Chemical Thermodynamics</i> , 1987, 19, 771-779.	1.0	10
89	Effect of thermal degradation on the mechanical properties of a diglycidyl ether of bisphenol A/1,3-bisaminomethylcyclohexane (DGEBA/1,3-BAC) epoxy resin system. <i>Journal of Applied Polymer Science</i> , 1997, 63, 1841-1849.	1.3	10
90	Deformation and fracture behavior of polypropylene-ethylene vinyl alcohol blends compatibilized with ionomer Zn ²⁺ . <i>Journal of Applied Polymer Science</i> , 2005, 98, 1271-1279.	1.3	10

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91	Accelerated ageing of styrene-butadiene rubber nanocomposites stabilized by phenolic antioxidant. <i>Polymer Composites</i> , 2014, 35, 334-343.	2.3	10
92	Kinetics of curing reaction of a diglycidyl ether of bisphenol A/1,3-bisaminomethyl-cyclohexane (DGEBA/1,3-BAC) epoxy resin system. <i>Journal of Thermal Analysis</i> , 1996, 46, 387-395.	0.7	9
93	Mechanical behavior of tetrafunctional/phenol novolac epoxy mixtures cured with a diamine. <i>Journal of Applied Polymer Science</i> , 2000, 77, 2305-2313.	1.3	9
94	Analysis of blends of poly(styrene-co-acrylonitrile) with an epoxy/aromatic amine resin using scanning thermal microscopy. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 284-289.	2.4	9
95	Selection of a precursor of a monofunctional polyhedral oligomeric silsesquioxane reacted with aromatic diamines. <i>Journal of Applied Polymer Science</i> , 2004, 92, 1576-1583.	1.3	9
96	Effect of environmental factors on Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/Poly(butylene Terephthalate) Composites, 2018, 39, 915-923.	2.3	9
97	Excess molar enthalpies at 298.15 K of (ethyl acetate + n-butylmethylamine or di-n-propylamine or) <i>Journal of Chemical Thermodynamics</i> , 1989, 21, 739-741.	1.0	8
98	Characterization of an ABS-modified epoxy system. <i>Polymer International</i> , 2002, 51, 1268-1276.	1.6	8
99	Efficacy of hindered amines in woodflour-polypropylene composites compatibilized with vinyltrimethoxysilane after accelerated weathering and moisture absorption. <i>Journal of Applied Polymer Science</i> , 2011, 120, 2017-2026.	1.3	8
100	Exfoliated/intercalated silicate/hot styrene butadiene rubber nanocomposites: Structure-properties relationship. <i>Journal of Applied Polymer Science</i> , 2012, 125, E705.	1.3	7
101	Study of an octaepoxysilsesquioxane cured with a diamine. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005, 80, 153-157.	2.0	6
102	Overexpression of ZePrx in <i>Nicotiana tabacum</i> Affects Lignin Biosynthesis Without Altering Redox Homeostasis. <i>Frontiers in Plant Science</i> , 2020, 11, 900.	1.7	6
103	Relaxin has beneficial effects on liver lipidome and metabolic enzymes. <i>FASEB Journal</i> , 2021, 35, e21737.	0.2	6
104	Isosorbide plasticized corn starch filled with poly(3-hydroxybutyrate-co-3-hydroxyvalerate) microparticles: Properties and behavior under environmental factors. <i>International Journal of Biological Macromolecules</i> , 2022, 202, 345-353.	3.6	6
105	Dynamic mechanical analysis. <i>Journal of Thermal Analysis</i> , 1995, 45, 1167-1174.	0.7	4
106	Study of the physical aging of an epoxy/cycloaliphatic amine resin modified with abs. <i>Magyar Árvány</i> , 2002, 70, 85-92.	1.4	4
107	Excess molar enthalpies at 298.15 K of (1-chloropentane + nonane or decane) and of (1-chlorohexane +) <i>Journal of Chemical Thermodynamics</i> , 1989, 21, 739-741.	1.0	3
108	Barrier and physical properties of polypropylene/highbarrier ethylene vinyl alcohol copolymer blends compatibilized with a sodium ionomer. <i>E-Polymers</i> , 2009, 9, .	1.3	3

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109	Novel Self-Reinforced Films Based on Poly (3-Hydroxybutyrate-Co-3-Hydroxyvalerate) (PHBV) and PHBV Microparticles. <i>Polymer Engineering and Science</i> , 2019, 59, E120.	1.5	3
110	The Treatment With the SGLT2 Inhibitor Empagliflozin Modifies the Hepatic Metabolome of Male Zucker Diabetic Fatty Rats Towards a Protective Profile. <i>Frontiers in Pharmacology</i> , 2022, 13, 827033.	1.6	3
111	Kinetic of epoxy resin formation by high-performance liquid chromatography. <i>Journal of Applied Polymer Science</i> , 2003, 89, 497-504.	1.3	1
112	Impact fracture behavior and damage mechanisms of PP/EVOH blends compatibilized with ionomer Zn ²⁺ . <i>Journal of Applied Polymer Science</i> , 2010, 117, 2515-2522.	1.3	1
113	Donut-Shaped Microparticles Prepared from Different C-Type Starch Sources: Characterization and Encapsulation of Gallic Acid. <i>ACS Food Science & Technology</i> , 2022, 2, 862-871.	1.3	1
114	Development of polypropylene-wood flour ecomposites. Evaluation of silane as coupling agent. , 2010, , .		0
115	Propiedades mecánicas de un sistema epoxi modificado con ABS. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2000, 39, 431-433.	0.9	0