Luis Barral

List of Publications by Year
in descending order

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	The Treatment With the SGLT2 Inhibitor Empagliflozin Modifies the Hepatic Metabolome of Male Zucker Diabetic Fatty Rats Towards a Protective Profile. Frontiers in Pharmacology, 2022, 13, 827033.	1.6	3
2	Isosorbide plasticized corn starch filled with poly(3-hydroxybutyrate-co-3-hydroxyvalerate) microparticles: Properties and behavior under environmental factors. International Journal of Biological Macromolecules, 2022, 202, 345-353.	3.6	6
3	Donut-Shaped Microparticles Prepared from Different C-Type Starch Sources: Characterization and Encapsulation of Gallic Acid. ACS Food Science & Technology, 2022, 2, 862-871.	1.3	1
4	Relaxin has beneficial effects on liver lipidome and metabolic enzymes. FASEB Journal, 2021, 35, e21737.	0.2	6
5	Influence of the hydrophilicity of montmorillonite on structure and properties of thermoplastic wheat starch/montmorillonite bionanocomposites. Polymers for Advanced Technologies, 2021, 32, 4479-4489.	1.6	20
6	Preparation and characterization of bionanocomposite films based on wheat starch and reinforced with cellulose nanocrystals. Cellulose, 2021, 28, 7781-7793.	2.4	14
7	Poly(hydroxybutyrate-co-hydroxyvalerate) microparticles embedded in Î²-carrageenan/locust bean gum hydrogel as a dual drug delivery carrier. International Journal of Biological Macromolecules, 2020, 146, 110-118.	3.6	55
8	Carrageenan-based physically crosslinked injectable hydrogel for wound healing and tissue repairing applications. International Journal of Pharmaceutics, 2020, 589, 119828.	2.6	69
9	Overexpression of ZePrx in Nicotiana tabacum Affects Lignin Biosynthesis Without Altering Redox Homeostasis. Frontiers in Plant Science, 2020, 11, 900.	1.7	6
10	Properties and behavior under environmental factors of isosorbide-plasticized starch reinforced with microcrystalline cellulose biocomposites. International Journal of Biological Macromolecules, 2020, 164, 2028-2037.	3.6	20
11	A Novel Hydrocolloid Film Based on Pectin, Starch and Gunnera tinctoria and Ugni molinae Plant Extracts for Wound Dressing Applications. Current Topics in Medicinal Chemistry, 2020, 20, 280-292.	1.0	19
12	Novel Selfâ€Reinforced Films Based on Poly (3â€Hydroxybutyrateâ€Coâ€3â€Hydroxyvalerate) (PHBV) and PHBV Microparticles. Polymer Engineering and Science, 2019, 59, E120.	1.5	3
13	Hydrocortisone loaded poly-(3-hydroxybutyrate-co-3-hydroxyvalerate) nanoparticles for topical ophthalmic administration: Preparation, characterization and evaluation of ophthalmic toxicity. International Journal of Pharmaceutics, 2019, 568, 118519.	2.6	23
14	Empagliflozin reduces the levels of CD36 and cardiotoxic lipids while improving autophagy in the hearts of Zucker diabetic fatty rats. Biochemical Pharmacology, 2019, 170, 113677.	2.0	102
15	Corn starch plasticized with isosorbide and filled with microcrystalline cellulose: Processing and characterization. Carbohydrate Polymers, 2019, 206, 726-733.	5.1	40
16	Poly (3-hydroxybutyrate-co-3-hydroxyvalerate)/cellulose nanocrystal films: artificial weathering, humidity absorption, water vapor transmission rate, antimicrobial activity and biocompatibility. Cellulose, 2019, 26, 2333-2348.	2.4	13
17	Entrapment of chitosan, pectin or Î²-carrageenan within methacrylate based hydrogels: Effect on swelling and mechanical properties. Materials Science and Engineering C, 2019, 96, 583-590.	3.8	50
18	PHBV/CNC bionanocomposites processed by extrusion: Structural characterization and properties. Polymer Composites, 2019, 40, E275.	2.3	16

#	Article	IF	Citations
19	Effects of poly (3-hydroxybutyrate-co-3-hydroxyvalerate) microparticles on morphological, mechanical, thermal, and barrier properties in thermoplastic potato starch films. Carbohydrate Polymers, 2018, 194, 357-364.	5.1	35
20	Preparation and characterization of nano and micro particles of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV) via emulsification/solvent evaporation and nanoprecipitation techniques. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	17
21	Preparation of starch nanoparticles loaded with quercetin using nanoprecipitation technique. International Journal of Biological Macromolecules, 2018, 114, 426-433.	3.6	100
22	Effect of environmental factors on Poly(3â€hydroxybutyrateâ€coâ^'3â€hydroxyvalerate)/Poly(butylene) Tj ETQq0 0 0 rgBT /Overlo Composites, 2018, 39, 915-923.	2.3	9
23	Preparation of donut-shaped starch microparticles by aqueous-alcoholic treatment. Food Chemistry, 2018, 246, 1-5.	4.2	14
24	Study of the structural order of native starch granules using combined FTIR and XRD analysis. Journal of Polymer Research, 2018, 25, 1.	1.2	182
25	Starch films loaded with donut-shaped starch-quercetin microparticles: Characterization and release kinetics. International Journal of Biological Macromolecules, 2018, 118, 2201-2207.	3.6	35
26	Starch edible films loaded with donut-shaped starch microparticles. LWT - Food Science and Technology, 2018, 98, 62-68.	2.5	36
27	Effect of nanocellulose as a filler on biodegradable thermoplastic starch films from tuber, cereal and legume. Carbohydrate Polymers, 2017, 157, 1094-1104.	5.1	137
28	Morphology, thermal and barrier properties of biodegradable films of poly (3-hydroxybutyrate-co-3-hydroxyvalerate) containing cellulose nanocrystals. Composites Part A: Applied Science and Manufacturing, 2017, 93, 41-48.	3.8	81
29	Polylactic acid and poly(3-hydroxybutyrate-co-3-hydroxyvalerate) nano and microparticles for packaging bioplastic composites. Polymer Bulletin, 2016, 73, 3485-3502.	1.7	13
30	Processing and characterization of polyols plasticized-starch reinforced with microcrystalline cellulose. Carbohydrate Polymers, 2016, 149, 83-93.	5.1	88
31	Morphology and thermal behavior of poly (3-hydroxybutyrate-co) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (-3-hyd Composites, 2015, 36, 2051-2058.	2.3	21
32	Accelerated ageing of styrene-butadiene rubber nanocomposites stabilized by phenolic antioxidant. Polymer Composites, 2014, 35, 334-343.	2.3	10
33	Plasticized Poly(lactic acid)â€"Poly(hydroxybutyrate) (PLAâ€"PHB) Blends Incorporated with Catechin Intended for Active Food-Packaging Applications. Journal of Agricultural and Food Chemistry, 2014, 62, 10170-10180.	2.4	160
34	Study of thermal and morphological properties of a hybrid system, iPP/POSS. Effect of flame retardance. Composites Part B: Engineering, 2014, 58, 566-572.	5.9	32
35	Insight into BPAâ€"4-vinylpyridine interactions in molecularly imprinted polymers using complementary spectroscopy techniques. Materials Chemistry and Physics, 2013, 141, 461-476.	2.0	18
36	Poly(3-hydroxybutyrate-co -3-hydroxyvalerate)/clay nanocomposites for replacement of mineral oil based materials. Polymer Composites, 2013, 34, 1033-1040.	2.3	33

#	Article	IF	Citations
37	Nanoclayâ€reinforced poly(butylene adipateâ€coâ€terephthalate) biocomposites for packaging applications. Polymer Composites, 2012, 33, 2022-2028.	2.3	20
38	Preparation, evaluation and characterization of quercetin-molecularly imprinted polymer for preconcentration and clean-up of catechins. Analytica Chimica Acta, 2012, 721, 68-78.	2.6	104
39	Exfoliated/intercalated silicate/hot styrene butadiene rubber nanocomposites: Structureâ€“properties relationship. Journal of Applied Polymer Science, 2012, 125, E705.	1.3	7
40	Synthesis and characterization of bisphenol-A imprinted polymer as a selective recognition receptor. Analytica Chimica Acta, 2011, 706, 275-284.	2.6	40
41	Effect of particle size and a processing aid on the crystallization and melting behavior of iPP/red pine wood flour composites. Composites Part A: Applied Science and Manufacturing, 2011, 42, 935-949.	3.8	20
42	Effect of several variables in the polymer toys additive migration to saliva. Talanta, 2011, 85, 2080-2088.	2.9	18
43	Development, validation and application of Micellar Electrokinetic Capillary Chromatography method for routine analysis of catechins, quercetin and thymol in natural samples. Microchemical Journal, 2011, 99, 461-469.	2.3	14
44	Microstructure, morphology, and mechanical properties of styreneâ€butadiene rubber/organoclay nanocomposites. Polymer Engineering and Science, 2011, 51, 1720-1729.	1.5	13
45	An approach to imprint irganox 1076: Potential application to the specific migration test in olive oil. Journal of Applied Polymer Science, 2011, 119, 2866-2874.	1.3	11
46	Efficacy of hindered amines in woodflourâ€polypropylene composites compatibilized with vinyltrimethoxysilane after accelerated weathering and moisture absorption. Journal of Applied Polymer Science, 2011, 120, 2017-2026.	1.3	8
47	Effect of aminomethoxy silane and olefin block copolymer on rheomechanical and morphological behavior of fly ash-filled polypropylene composites. Rheologica Acta, 2010, 49, 607-618.	1.1	25
48	Rheological, Mechanical and Thermal Behaviour of Wood Polymer Composites Based on Recycled Polypropylene. Journal of Polymers and the Environment, 2010, 18, 318-325.	2.4	66
49	Impact fracture behavior and damage mechanisms of PP/EVOH blends compatibilized with ionomer Zn²⁺. Journal of Applied Polymer Science, 2010, 117, 2515-2522.	1.3	1
50	Liquid chromatographic methods to analyze hindered amines light stabilizers (HALS) levels to improve safety in polyolefins. Journal of Separation Science, 2010, 33, 2698-2706.	1.3	21
51	Effect of an epoxy octasilsesquioxane on the thermodegradation of an epoxy/amine system. Polymer International, 2010, 59, 112-118.	1.6	19
52	Development of polypropyleneâˆ•wood flour ecocomposites. Evaluation of silane as coupling agent. , 2010, , .		0
53	Rheomechanical and morphological study of compatibilized PP/EVOH blends. Rheologica Acta, 2009, 48, 993-1004.	1.1	18
54	Design of new polypropyleneâ€“woodflour composites: Processing and physical characterization. Polymer Composites, 2009, 30, 880-886.	2.3	16

#	Article	IF	Citations
55	Effects of vinyltrimethoxy silane on mechanical properties and morphology of polypropyleneâ€woodflour composites. Polymer Engineering and Science, 2009, 49, 324-332.	1.5	13
56	Application of FTIR spectroscopy to determine transport properties and waterâ€“polymer interactions in polypropylene (PP)/poly(ethylene-co-vinyl alcohol) (EVOH) blend films: Effect of poly(ethylene-co-vinyl alcohol) content and water activity. Polymer, 2009, 50, 2981-2989.	1.8	32
57	Deformation and Fracture Behavior of PP/Ash Composites. Composite Interfaces, 2009, 16, 97-114.	1.3	16
58	Barrier and physical properties of polypropylene/highbarrier ethylene vinyl alcohol copolymer blends compatibilized with a sodium ionomer. E-Polymers, 2009, 9, .	1.3	3
59	Analysis of the isothermal crystallization of polypropylene/wood flour composites. Journal of Thermal Analysis and Calorimetry, 2008, 94, 119-127.	2.0	21
60	Effects of vinyltrimethoxy silane on thermal properties and dynamic mechanical properties of polypropyleneâ€“wood flour composites. Journal of Applied Polymer Science, 2008, 109, 1197-1204.	1.3	32
61	High-performance liquid chromatography analysis of ten dyes for control of safety of commercial articles. Journal of Chromatography A, 2008, 1179, 152-160.	1.8	51
62	Epoxy/POSS organicâ€“inorganic hybrids: ATR-FTIR and DSC studies. European Polymer Journal, 2008, 44, 3035-3045.	2.6	140
63	Development of an ultraperformance liquid chromatography method for improved determination of additives in polymeric materials. Journal of Separation Science, 2007, 30, 2452-2459.	1.3	17
64	Organic/inorganic hybrid materials from an epoxy resin cured by an amine silsesquioxane. Journal of Thermal Analysis and Calorimetry, 2007, 87, 69-72.	2.0	27
65	FTIR study on the nature of water sorbed in polypropylene (PP)/ethylene alcohol vinyl (EVOH) films. European Polymer Journal, 2006, 42, 3121-3132.	2.6	69
66	Mechanical and fracture behavior of polypropylene/poly(ethylene-co-vinyl alcohol) blends compatibilized with ionomer Na+. European Polymer Journal, 2006, 42, 265-273.	2.6	20
67	Dynamic crystallization of polypropylene and wood-based composites. Journal of Applied Polymer Science, 2006, 102, 6028-6036.	1.3	20
68	Thermodynamic analysis of phase separation in an epoxy/polystyrene mixture. Polymer, 2005, 46, 6114-6121.	1.8	15
69	Thermodegradation kinetics of a hybrid inorganicâ€“organic epoxy system. European Polymer Journal, 2005, 41, 1662-1666.	2.6	64
70	Deformation and fracture behavior of polypropylene-ethylene vinyl alcohol blends compatibilized with ionomer Zn2+. Journal of Applied Polymer Science, 2005, 98, 1271-1279.	1.3	10
71	Study of an octaepoxysilsesquioxane cured with a diamine. Journal of Thermal Analysis and Calorimetry, 2005, 80, 153-157.	2.0	6
72	Influence of the ethylene-(methacrylic acid)-Zn2+ionomer on the thermal and mechanical properties of blends of poly(propylene) (PP)/ethylene-(vinyl alcohol) copolymer (EVOH). Polymer International, 2005, 54, 673-678.	1.6	17

#	Article	IF	Citations
73	Study of the effect of poly(acrylonitrile-co-butadiene-co-styrene) on the mechanical properties of an epoxy system. Journal of Applied Polymer Science, 2004, 92, 461-467.	1.3	17
74	Selection of a precursor of a monofunctional polyhedral oligomeric silsesquioxane reacted with aromatic diamines. Journal of Applied Polymer Science, 2004, 92, 1576-1583.	1.3	9
75	Effects of a mixture of stabilizers on the structure and mechanical properties of polyethylene during reprocessing. Journal of Applied Polymer Science, 2004, 92, 3910-3916.	1.3	46
76	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. Journal of Applied Polymer Science, 2004, 94, 1763-1770.	1.3	17
77	Thermal behaviour of a polyhedral oligomeric silsesquioxane with epoxy resin cured by diamines. Journal of Thermal Analysis and Calorimetry, 2003, 72, 421-429.	2.0	31
78	Kinetic of epoxy resin formation by high-performance liquid chromatography. Journal of Applied Polymer Science, 2003, 89, 497-504.	1.3	1
79	Epoxy Networks Containing Large Mass Fractions of a Monofunctional Polyhedral Oligomeric Silsesquioxane (POSS). Macromolecules, 2003, 36, 3128-3135.	2.2	192
80	Isothermal curing by dynamic mechanical analysis of three epoxy resin systems: Gelation and vitrification. Journal of Applied Polymer Science, 2002, 83, 78-85.	1.3	40
81	Isothermal crystallization behavior and properties of polypropylene/EPR blends nucleated with sodium benzoate. Journal of Applied Polymer Science, 2002, 83, 201-211.	1.3	13
82	Blends of acrylonitrile-butadiene-styrene with an epoxy/cycloaliphatic amine resin: Phase-separation behavior and morphologies. Journal of Applied Polymer Science, 2002, 85, 1277-1286.	1.3	24
83	Grafting of selected presynthesized macromonomers onto various dispersions of silica particles. Journal of Applied Polymer Science, 2002, 85, 1287-1296.	1.3	23
84	Characterization of biaxially oriented polypropylene films by atomic force microscopy and microthermal analysis. Journal of Applied Polymer Science, 2002, 85, 1553-1561.	1.3	11
85	Characterization of an ABS-modified epoxy system. Polymer International, 2002, 51, 1268-1276.	1.6	8
86	Dynamic mechanical analysis of an epoxy/thermoplastic blend: polymerization-induced phase separation. Polymer International, 2002, 51, 1100-1106.	1.6	16
87	Analysis of blends of poly(styrene-co-acrylonitrile) with an epoxy/aromatic amine resin using scanning thermal microscopy. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 284-289.	2.4	9
88	Study of the physical aging of an epoxy/cycloaliphatic amine resin modified with abs. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2002, 70, 85-92.	1.4	4
89	Enthalpy relaxation in an epoxy-cycloaliphatic amine resin. Colloid and Polymer Science, 2001, 279, 184-189.	1.0	11
90	Effect of poly(styrene- co -acrylonitrile) on the curing of an epoxy/amine resin. Polymer, 2001, 42, 1669-1677.	1.8	46

#	Article	IF	Citations
91	Effect of water sorption on the structure and mechanical properties of an epoxy resin system. Journal of Applied Polymer Science, 2001, 80, 71-80.	1.3	275
92	Thermal decomposition behavior and the mechanical properties of an epoxy/cycloaliphatic amine resin with ABS. European Polymer Journal, 2001, 37, 1613-1623.	2.6	28
93	Kinetic studies of the effect of ABS on the curing of an epoxy/cycloaliphatic amine resin. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 351-361.	2.4	42
94	Mechanical behavior of tetrafunctional/phenol novolac epoxy mixtures cured with a diamine. Journal of Applied Polymer Science, 2000, 77, 2305-2313.	1.3	9
95	Blends of an epoxy/cycloaliphatic amine resin with poly(ether imide). Polymer, 2000, 41, 2657-2666.	1.8	40
96	Cure kinetics of amine-cured diglycidyl ether of bisphenol. Thermochimica Acta, 2000, 344, 127-136.	1.2	39
97	Thermal properties of amine cured diglycidyl ether of bisphenol A epoxy blended with poly(ether) Tj ETQq1 1 0.784314 rgBT /Overlock	1.2	22
98	Decomposition behavior of epoxy-resin systems cured by diamines. European Polymer Journal, 2000, 36, 1231-1240.	2.6	39
99	Title is missing!. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2000, 60, 391-399.	1.4	38
100	Propiedades mecÃ¡nicas de un sistema epoxi modificado con ABS. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2000, 39, 431-433.	0.9	0
101	Physical aging of an epoxy/cycloaliphatic amine resin. European Polymer Journal, 1999, 35, 403-411.	2.6	25
102	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. Journal of Applied Polymer Science, 1997, 63, 1841-1849.	1.3	10
103	Kinetics of curing reaction of a diglycidyl ether of bisphenol A/1,3-bisaminomethyl-cyclohexane (DGEBA/1,3-BAC) epoxy resin system. Journal of Thermal Analysis, 1996, 46, 387-395.	0.7	9
104	Water absorption of a diglycidyl ether of bisphenol A/1,3-bisaminomethylcyclohexane (DGEBA/1,3-BAC) epoxy resin system. Journal of Thermal Analysis, 1996, 47, 791-797.	0.7	12
105	TTT isothermal cure diagram of a dyglicidyl ether of bisphenol A/1,3-bisaminomethylcyclohexane (DGEBA/1,3-BAC) epoxy resin system. Journal of Applied Polymer Science, 1996, 61, 1553-1559.	1.3	16
106	Isothermal cure kinetics of a diglycidyl ether of bisphenol A/1,3-bisaminomethylcyclohexane (DGEBA/1,3-BAC) epoxy resin system. Journal of Applied Polymer Science, 1995, 56, 1029-1037.	1.3	43
107	Dynamic mechanical analysis. Journal of Thermal Analysis, 1995, 45, 1167-1174.	0.7	4
108	Isothermal cure of an epoxy/cycloaliphatic amine system. Vitrification and gelation. Polymer International, 1995, 38, 353-356.	1.6	13

#	Article	IF	Citations
109	Thermal degradation of a diglycidyl ether of bisphenol A/1,3-bisaminomethylcyclohexane (DGEBA/1,3-BAC) epoxy resin system. Thermochimica Acta, 1995, 269-270, 253-259.	1.2	16
110	Determination of the activation energies for Î± and Î² transitions of a system containing a diglycidyl ether of bisphenol a (DGEBA) and 1,3-bisaminomethylcyclohexane (1,3-BAC). Journal of Thermal Analysis, 1994, 41, 1463-1467.	0.7	29
111	Excess molar enthalpies at 298.15 K of (ethyl acetate + n-butylmethylamine or di-n-propylamine or) Tj ETQq1 1 0.784314 rgBT /Overlock Journal of Chemical Thermodynamics, 1989, 21, 739-741.	1.0	8
112	Excess molar enthalpies at 298.15 K of (1-chloropentane + nonane or decane) and of (1-chlorohexane +) Tj ETQq0 0 0 rgBT /Overlock 10	1.0	3
113	Enthalpies of combustion of oxamic acid, oxamide, and dithiooxamide. Journal of Chemical Thermodynamics, 1988, 20, 1211-1216.	1.0	11
114	Enthalpies of formation of 2,4,6-tribromophenol and of 2,4,6-tribromoaniline. Journal of Chemical Thermodynamics, 1987, 19, 771-779.	1.0	10
115	Enthalpies of combustion of the three aminophenols. Journal of Chemical Thermodynamics, 1986, 18, 575-579.	1.0	18