Felix Carrasco

List of Publications by Year
in descending order

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62 papers	3,029 citations	159525 30 h-index	155592 55 g-index
62 all docs	62 docs citations	62 times ranked	3631 citing authors

#	Article	IF	Citations
1	Processing of poly(lactic acid): Characterization of chemical structure, thermal stability and mechanical properties. Polymer Degradation and Stability, 2010, 95, 116-125.	2.7	547
2	Effects of different treatments on the interface of HDPE/lignocellulosic fiber composites. Composites Science and Technology, 2003, 63, 161-169.	3.8	283
3	Olive oil mill effluents as a feedstock for production of biodegradable polymers. Water Research, 2005, 39, 2076-2084.	5.3	207
4	Kinetic study of dilute-acid prehydrolysis of xylan-containing biomass. Wood Science and Technology, 1992, 26, 189.	1.4	116
5	Artificial aging of high-density polyethylene by ultraviolet irradiation. European Polymer Journal, 2001, 37, 1457-1464.	2.6	112
6	Anaerobic Digestion of Food Industry Wastes: Effect of Codigestion on Methane Yield. Journal of Environmental Engineering, ASCE, 2005, 131, 1037-1045.	0.7	109
7	The evaluation of kinetic parameters from thermogravimetric data: comparison between established methods and the general analytical equation. Thermochimica Acta, 1993, 213, 115-134.	1.2	98
8	FTIR and DSC study of HDPE structural changes and mechanical properties variation when exposed to weathering aging during Canadian winter. Journal of Applied Polymer Science, 1996, 60, 153-159.	1.3	94
9	Thermal stability of polyhydroxyalkanoates. Journal of Applied Polymer Science, 2006, 100, 2111-2121.	1.3	74
10	Curing FTIR study and mechanical characterization of glass bead filled trifunctional epoxy composites. Composites Science and Technology, 2007, 67, 1974-1985.	3.8	71
11	Processing of poly(lactic acid)/organomontmorillonite nanocomposites: Microstructure, thermal stability and kinetics of the thermal decomposition. Chemical Engineering Journal, 2011, 178, 451-460.	6.6	69
12	Kinetics of the thermal decomposition of processed poly(lactic acid). Polymer Degradation and Stability, 2010, 95, 2508-2514.	2.7	66
13	Sheets of branched poly(lactic acid) obtained by one step reactive extrusion calendering process: Melt rheology analysis. EXPRESS Polymer Letters, 2013, 7, 304-318.	1.1	66
14	Generalized correlations for the aqueous liquefaction of lignocellulosics. Canadian Journal of Chemical Engineering, 1986, 64, 647-650.	0.9	62
15	Thermal degradation and stability of epoxy nanocomposites: Influence of montmorillonite content and cure temperature. Polymer Degradation and Stability, 2008, 93, 1000-1007.	2.7	60
16	Refining of bleached cellulosic pulps: characterization by application of the colloidal titration technique. Wood Science and Technology, 1996, 30, 227.	1.4	47
17	Fracture behavior of quenched poly(lactic acid). EXPRESS Polymer Letters, 2011, 5, 82-91.	1.1	47
18	Enhanced general analytical equation for the kinetics of the thermal degradation of poly(lactic acid) driven by random scission. Polymer Testing, 2013, 32, 937-945.	2.3	47

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19	PLA/SiO₂ composites: Influence of the filler modifications on the morphology, crystallization behavior, and mechanical properties. Journal of Applied Polymer Science, 2017, 134, 45367.	1.3	43
20	Fourier transform IR and differential scanning calorimetry study of curing of trifunctional amino-epoxy resin. Journal of Applied Polymer Science, 2005, 98, 1524-1535.	1.3	42
21	Control of retention in paper-making by colloid titration and zeta potential techniques. Wood Science and Technology, 1998, 32, 145-155.	1.4	40
22	A generalized correlation for the viscosity of dextrans in aqueous solutions as a function of temperature, concentration, and molecular weight at low shear rates. Journal of Applied Polymer Science, 1989, 37, 2087-2098.	1.3	39
23	STUDY OF THE CURING PROCESS OF AN EPOXY RESIN BY FTIR SPECTROSCOPY. Polymer-Plastics Technology and Engineering, 2000, 39, 937-943.	1.9	37
24	Physico-chemical characterization of lignocellulosic substrates pretreated via autohydrolysis: an application to tropical woods. Bioresource Technology, 1987, 13, 255-273.	0.3	34
25	Scenario analysis for the role of sanitation infrastructures in integrated urban wastewater management. Environmental Modelling and Software, 2009, 24, 371-380.	1.9	34
26	Influence of crystallinity on the fracture toughness of poly(lactic acid)/montmorillonite nanocomposites prepared by twinâ€screw extrusion. Journal of Applied Polymer Science, 2011, 120, 896-905.	1.3	34
27	Properties of PMMA artificially aged. Journal of Non-Crystalline Solids, 2001, 287, 308-312.	1.5	32
28	Changes in Crystallinity of the HDPE Matrix in Composites with Cellulosic Fiber Using DSC and FTIR. Journal of Reinforced Plastics and Composites, 2000, 19, 818-830.	1.6	32
29	Thermogravimetric analysis of polystyrene: Influence of sample weight and heating rate on thermal and kinetic parameters. Journal of Applied Polymer Science, 1996, 61, 187-197.	1.3	31
30	Effect of the unidirectional drawing on the thermal and mechanical properties of PLA films with different <scp>L</scp>â€isomer content. Journal of Applied Polymer Science, 2013, 127, 2661-2669.	1.3	31
31	Sheets of branched poly(lactic acid) obtained by one-step reactive extrusionâ€“calendering process: physical aging and fracture behavior. Journal of Materials Science, 2014, 49, 4093-4107.	1.7	30
32	Using viscoelastic properties to quantitatively estimate the amount of modified poly(lactic acid) chains through reactive extrusion. Journal of Rheology, 2015, 59, 1191-1227.	1.3	26
33	Natural and artificial aging of polypropyleneâ€“polyethylene copolymers. Journal of Applied Polymer Science, 2003, 87, 1685-1692.	1.3	25
34	Effect of the viscosity ratio on the PLA/PA10.10 bioblends morphology and mechanical properties. EXPRESS Polymer Letters, 2018, 12, 569-582.	1.1	25
35	Determination of small interactions in polymer composites by means of FTIR and DSC. Polymer Bulletin, 2000, 44, 293-300.	1.7	24
36	Improvement of the thermal stability of branched poly(lactic acid) obtained by reactive extrusion. Polymer Degradation and Stability, 2014, 104, 40-49.	2.7	24

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37	Gaseous Contaminant Emissions as Affected by Burning Scrap Tires in Cement Manufacturing. Journal of Environmental Quality, 2002, 31, 1484-1490.	1.0	23
38	Enhanced general analytical equation for the kinetics of the thermal degradation of poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 2014, 101, 52-59.	2.7	22
39	Reactive extrusion: A useful process to manufacture structurally modified PLA/o-MMT composites. Composites Part A: Applied Science and Manufacturing, 2016, 88, 106-115.	3.8	22
40	Kinetics of the Thermal Degradation of Poly(lactic acid) and Polyamide Bioblends. Polymers, 2021, 13, 3996.	2.0	19
41	Changes in Crystallinity of the HDPE Matrix in Composites with Cellulosic Fiber Using DSC and FTIR. Journal of Reinforced Plastics and Composites, 2000, 19, 818-830.	1.6	17
42	Fracture behaviour of de-aged poly(lactic acid) assessed by essential work of fracture and J-Integral methods. Polymer Testing, 2010, 29, 984-990.	2.3	16
43	PLA/PA Bio-Blends: Induced Morphology by Extrusion. Polymers, 2020, 12, 10.	2.0	16
44	Fractionnement de deux bois tropicaux (eucalyptus et wapa) par traitement thermomÃ©canique en phase aqueuse. Partie II: CaractÃ©ristiques chimiques des rÃ©sidus et considÃ©rations cinÃ©tiques sur la solubilisation des hÃ©micelluloses. Canadian Journal of Chemical Engineering, 1987, 65, 71-77.	0.9	15
45	Fractionnement de deux bois tropicaux (eucalyptus et wapa) par traitement thermomÃ©canique en phase aqueuse. Partie I: Conversion et profils de solubilisation. Canadian Journal of Chemical Engineering, 1986, 64, 986-993.	0.9	14
46	Thermal degradation of poly(lactic acid) and acrylonitrile-butadiene-styrene bioblends: Elucidation of reaction mechanisms. Thermochimica Acta, 2017, 654, 157-167.	1.2	14
47	Study of curing of layered silicate/trifunctional epoxy nanocomposites by means of FTIR spectroscopy. Journal of Applied Polymer Science, 2008, 108, 2107-2115.	1.3	12
48	Kinetics of the thermal degradation of poly(lactic acid) obtained by reactive extrusion: Influence of the addition of montmorillonite nanoparticles. Polymer Testing, 2015, 48, 69-81.	2.3	12
49	Correlation between polystyrene molecular weights and a characteristic temperature derived from the thermogravimetric weight loss curves. Thermochimica Acta, 1989, 142, 83-88.	1.2	10
50	Poly(lactic acid) and acrylonitrileâ^'butadieneâ^'styrene blends: Influence of adding ABSâ^'gâ^'MAH compatibilizer on the kinetics of the thermal degradation. Polymer Testing, 2018, 67, 468-476.	2.3	10
51	Environmental Impact of the Energy Recovery of Scrap Tires in a Cement Kiln. Environmental Technology (United Kingdom), 1998, 19, 461-474.	1.2	8
52	Kinetics of the thermal decomposition of green alga Ulva by thermogravimetry. Journal of Applied Polymer Science, 2004, 93, 1913-1922.	1.3	8
53	Thermal degradation of lyocell, modal and viscose fibers under aggressive conditions. Journal of Thermal Analysis and Calorimetry, 2007, 87, 41-44.	2.0	7
54	Aqueous Thermomechanical Pretreatment of Aspen in a Batch Reactor System. Journal of Wood Chemistry and Technology, 1992, 12, 213-230.	0.9	5

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55	A METHODOLOGICAL APPROACH TO KNOWLEDGE-BASED CONTROL AND ITS APPLICATION TO A MUNICIPAL SOLID WASTE INCINERATION PLANT. Combustion Science and Technology, 2006, 178, 685-705.	1.2	5
56	Thermomechanochemical depolymerization of dextrans in aqueous phase. Journal of Applied Polymer Science, 1987, 34, 153-165.	1.3	4
57	Crystallization Kinetics of Polypropylene-polyethylene-based Copolymers. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1999, 55, 57-65.	1.4	4
58	Study on polypropylene-polyethylene-based copolymer solidification. Journal of Applied Polymer Science, 2000, 77, 1269-1274.	1.3	4
59	Control of retention in paper-making by colloid titration and zeta potential techniques. Wood Science and Technology, 1998, 32, 145-155.	1.4	2
60	Image Analysis of Elastomer Morphology in Toughened Thermoplastic and Thermoset Resins. Polymers and Polymer Composites, 2005, 13, 669-680.	1.0	1
61	Ultra-high-yield pulping of aspen wood. Nordic Pulp and Paper Research Journal, 1992, 7, 17-21a.	0.3	1
62	Simulation of the Atmospheric Dispersion of Gaseous Effluents Emitted by a Cement Kiln. Environmental Technology (United Kingdom), 1999, 20, 1075-1084.	1.2	0