

Orlando O Santana Prez

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

1,985
citations

21
h-index

43
g-index

68
ext. papers

2,206
ext. citations

3.7
avg, IF

4.5
L-index

#	Paper	IF	Citations
65	Kinetics of the Thermal Degradation of Poly(lactic acid) and Polyamide Bioblends. <i>Polymers</i> , 2021 , 13,	4.5	3
64	Innovative One-Shot Paradigm to Tune Filler-Polymer Matrix Interface Properties by Plasma Polymer Coating in Osteosynthesis Applications.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 3067-3078	4.1	
63	Influence of the Melt Extrusion Process on the Mechanical Behavior and the Thermal Properties of Ethylene Vinyl Alcohol Copolymer by Applying the Successive Self-nucleation and Annealing Thermal Fractionation. <i>Fibers and Polymers</i> , 2021 , 22, 1822-1829	2	1
62	Impact of Titanium Dioxide in the Mechanical Recycling of Post-Consumer Polyethylene Terephthalate Bottle Waste: Tensile and Fracture Behavior. <i>Polymers</i> , 2021 , 13,	4.5	1
61	Biphasic polylactide/polyamide 6,10 blends: Influence of composition on polyamide structure and polyester crystallization. <i>Polymer</i> , 2020 , 202, 122676	3.9	8
60	Modification of poly(lactic) acid by reactive extrusion and its melt blending with acrylonitrileButadieneStyrene. <i>Polymer International</i> , 2020 , 69, 794-803	3.3	1
59	Hard/soft combinations based on thermoplastic elastomer and a rigid thermoplastic polymer: Study of the adhesion strength 2020 , 113-131		1
58	Melt-processing of cellulose nanofibril/polylactide bionanocomposites via a sustainable polyethylene glycol-based carrier system. <i>Carbohydrate Polymers</i> , 2019 , 224, 115188	10.3	8
57	The Effect of Titanium Dioxide Surface Modification on the Dispersion, Morphology, and Mechanical Properties of Recycled PP/PET/TiO PBNANOs. <i>Polymers</i> , 2019 , 11,	4.5	3
56	PLA/PA Bio-Blends: Induced Morphology by Extrusion. <i>Polymers</i> , 2019 , 12,	4.5	5
55	Poly(lactic acid) and acrylonitrileButadieneStyrene blends: Influence of adding ABSgMAH compatibilizer on the kinetics of the thermal degradation. <i>Polymer Testing</i> , 2018 , 67, 468-476	4.5	5
54	Effect of the viscosity ratio on the PLA/PA10.10 bioblends morphology and mechanical properties. <i>EXPRESS Polymer Letters</i> , 2018 , 12, 569-582	3.4	18
53	Multifunctional Enzymatically Generated Hydrogels for Chronic Wound Application. <i>Biomacromolecules</i> , 2017 , 18, 1544-1555	6.9	37
52	Thermal degradation of poly(lactic acid) and acrylonitrile-butadiene-styrene bioblends: Elucidation of reaction mechanisms. <i>Thermochimica Acta</i> , 2017 , 654, 157-167	2.9	8
51	PLA/SiO2 composites: Influence of the filler modifications on the morphology, crystallization behavior, and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45367	2.9	37
50	Microwave-crosslinked bio-based starch/clay aerogels. <i>Polymer International</i> , 2016 , 65, 899-904	3.3	17
49	Effect of microcellular foaming on the fracture behavior of ABS polymer. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	13

48	Reactive extrusion: A useful process to manufacture structurally modified PLA/o-MMT composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 88, 106-115	8.4	17
47	Ductile-brittle transition behaviour of PLA/o-MMT films during the physical aging process. <i>EXPRESS Polymer Letters</i> , 2015 , 9, 185-195	3.4	12
46	Kinetics of the thermal degradation of poly(lactic acid) obtained by reactive extrusion: Influence of the addition of montmorillonite nanoparticles. <i>Polymer Testing</i> , 2015 , 48, 69-81	4.5	9
45	Using viscoelastic properties to quantitatively estimate the amount of modified poly(lactic acid) chains through reactive extrusion. <i>Journal of Rheology</i> , 2015 , 59, 1191-1227	4.1	20
44	The Influence of the Clay Particles on the Mechanical Properties and Fracture Behavior of PLA/o-MMT Composite Films. <i>Advances in Polymer Technology</i> , 2015 , 34, n/a-n/a	1.9	4
43	Sheets of branched poly(lactic acid) obtained by one-step reactive extrusion/calendering process: physical aging and fracture behavior. <i>Journal of Materials Science</i> , 2014 , 49, 4093-4107	4.3	24
42	Effect of the thermoforming process variables on the sheet friction coefficient. <i>Materials & Design</i> , 2014 , 53, 1097-1103		15
41	Enhanced general analytical equation for the kinetics of the thermal degradation of poly(lactic acid)/montmorillonite nanocomposites driven by random scission. <i>Polymer Degradation and Stability</i> , 2014 , 101, 52-59	4.7	18
40	Effect of the Strain Rate and Drawing Temperature on the Mechanical Behavior of EVOH and EVOH Composites. <i>Advances in Polymer Technology</i> , 2013 , 32, E287-E296	1.9	5
39	Effect of the unidirectional drawing on the thermal and mechanical properties of PLA films with different L-isomer content. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 2661-2669	2.9	28
38	Enhanced general analytical equation for the kinetics of the thermal degradation of poly(lactic acid) driven by random scission. <i>Polymer Testing</i> , 2013 , 32, 937-945	4.5	37
37	Sheets of branched poly(lactic acid) obtained by one step reactive extrusion calendering process: Melt rheology analysis. <i>EXPRESS Polymer Letters</i> , 2013 , 7, 304-318	3.4	56
36	Processing of poly(lactic acid)/organomontmorillonite nanocomposites: Microstructure, thermal stability and kinetics of the thermal decomposition. <i>Chemical Engineering Journal</i> , 2011 , 178, 451-460	14.7	67
35	Influence of crystallinity on the fracture toughness of poly(lactic acid)/montmorillonite nanocomposites prepared by twin-screw extrusion. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 896-905	2.9	30
34	Fracture behavior of quenched poly(lactic acid). <i>EXPRESS Polymer Letters</i> , 2011 , 5, 82-91	3.4	43
33	Effect of the Recycling and Annealing on the Mechanical and Fracture Properties of Poly(Lactic Acid). <i>Journal of Polymers and the Environment</i> , 2010 , 18, 654-660	4.5	39
32	Essential work of fracture testing of PC-rich PET/PC blends with and without transesterification catalysts. <i>Journal of Materials Science</i> , 2010 , 45, 2907-2915	4.3	6
31	Effects of composition and transesterification catalysts on the physico-chemical and dynamic properties of PC/PET blends rich in PC. <i>Journal of Materials Science</i> , 2010 , 45, 6623-6633	4.3	30

30	Processing of poly(lactic acid): Characterization of chemical structure, thermal stability and mechanical properties. <i>Polymer Degradation and Stability</i> , 2010 , 95, 116-125	4-7	434
29	Kinetics of the thermal decomposition of processed poly(lactic acid). <i>Polymer Degradation and Stability</i> , 2010 , 95, 2508-2514	4-7	60
28	Fracture behaviour of de-aged poly(lactic acid) assessed by essential work of fracture and J-Integral methods. <i>Polymer Testing</i> , 2010 , 29, 984-990	4-5	13
27	The effect of organo-modifier on the structure and properties of poly[ethylene(vinyl alcohol)]/organo-modified montmorillonite composites. <i>Polymer International</i> , 2010 , 59, 778-786	3-3	10
26	Influence of processing on the ethylene-vinyl alcohol (EVOH) properties: Application of the successive self-nucleation and annealing (SSA) technique. <i>EXPRESS Polymer Letters</i> , 2010 , 4, 153-160	3-4	36
25	Fracture behaviour of poly[ethylene(vinyl alcohol)]/organo-clay composites. <i>Polymer International</i> , 2009 , 58, 648-655	3-3	10
24	The Essential Work of Fracture (EWF) method [Analyzing the Post-Yielding Fracture Mechanics of polymers. <i>Engineering Failure Analysis</i> , 2009 , 16, 2604-2617	3-2	92
23	Fracture Behavior of Polypropylene /Elastomer Blends. <i>Advanced Materials Research</i> , 2008 , 47-50, 278-281	5	2
22	Study of the adhesion strength on overmoulded plastic materials using the essential work of interfacial fracture (EWIF) concept. <i>Journal of Materials Science</i> , 2008 , 43, 5052-5060	4-3	12
21	Use of extensometers on essential work of fracture (EWF) tests. <i>Polymer Testing</i> , 2008 , 27, 491-497	4-5	21
20	Fracture behavior at low strain rate of dynamically and statically vulcanized polypropylene/styrene-butadiene-styrene block copolymer blends. <i>Polymer Testing</i> , 2008 , 27, 881-885	4-5	7
19	Evaluation of the fracture behavior of multilayered polypropylene sheets obtained by coextrusion. <i>Polymer Engineering and Science</i> , 2007 , 47, 1365-1372	2-3	6
18	Influence of processing on ethylene propylene block copolymers (II): Fracture behavior. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 2714-2724	2-9	10
17	Poly(propylene)/PET/Undecyl Ammonium Montmorillonite Nanocomposites. Synthesis and Characterization. <i>Macromolecular Symposia</i> , 2005 , 221, 63-74	0-8	13
16	Impact characterization of a carbon fiber-epoxy laminate using a nonconservative model. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 2256-2263	2-9	14
15	On the application of a damped model to the falling weight impact characterization of glass beads/polystyrene composites. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 1271-1284	2-9	14
14	Influence of processing on ethylene-propylene block copolymers: Structure and mechanical behavior. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 2866-2878	2-9	14
13	Essential Work of Fracture of Injection Moulded Samples of Pet and PET/PC Blends. <i>European Structural Integrity Society</i> , 2003 , 32, 77-88		

12	Dynamic mechanical properties of polycarbonate and acrylonitrile-butadiene-styrene copolymer blends. <i>Journal of Applied Polymer Science</i> , 2002 , 83, 1507-1516	2.9	17
11	Glass bead filled polystyrene composites: morphology and fracture. <i>Polymer Bulletin</i> , 2002 , 47, 587-594	2.4	13
10	Influence of annealing on the microstructural, tensile and fracture properties of polypropylene films. <i>Polymer</i> , 2001 , 42, 1697-1705	3.9	126
9	Essential work of fracture on PET films: influence of the thickness and the orientation. <i>Polymer Testing</i> , 2000 , 19, 559-568	4.5	47
8	On the essential work of fracture method: Energy partitioning of the fracture process in iPP films. <i>Polymer Bulletin</i> , 1999 , 42, 101-108	2.4	52
7	Effect of the specimen dimensions and the test speed on the fracture toughness of iPP by the essential work of fracture (EWF) method. <i>Journal of Applied Polymer Science</i> , 1999 , 73, 177-187	2.9	36
6	Evaluation of the fractionated crystallization of dispersed polyolefins in a polystyrene matrix. <i>Macromolecular Chemistry and Physics</i> , 1998 , 199, 2275-2288	2.6	130
5	Low-rate fracture behaviour of magnesium hydroxide filled polypropylene block copolymer. <i>Polymer Bulletin</i> , 1998 , 41, 615-622	2.4	19
4	Polycarbonate/acrylonitrile-butadiene-styrene blends: miscibility and interfacial adhesion. <i>Polymer Bulletin</i> , 1998 , 41, 721-728	2.4	17
3	The essential work of fracture of a thermoplastic elastomer. <i>Polymer Bulletin</i> , 1997 , 39, 249-255	2.4	16
2	Plane strain essential work of fracture in SENB geometry at low and high strain rates of PC/ABS blends. <i>Polymer Bulletin</i> , 1997 , 39, 511-518	2.4	18
1	Homogeneous nucleation of the dispersed crystallisable component of immiscible polymer blends. <i>Polymer Bulletin</i> , 1994 , 32, 471-477	2.4	98