

# Orlando O Santana Prez

## List of Publications by Citations

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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 | Processing of poly(lactic acid): Characterization of chemical structure, thermal stability and mechanical properties. <i>Polymer Degradation and Stability</i> , <b>2010</b> , 95, 116-125                          | 4.7  | 434       |
| 64 | Evaluation of the fractionated crystallization of dispersed polyolefins in a polystyrene matrix. <i>Macromolecular Chemistry and Physics</i> , <b>1998</b> , 199, 2275-2288   | 2.6  | 130       |
| 63 | Influence of annealing on the microstructural, tensile and fracture properties of polypropylene films. <i>Polymer</i> , <b>2001</b> , 42, 1697-1705   | 3.9  | 126       |
| 62 | Homogeneous nucleation of the dispersed crystallisable component of immiscible polymer blends. <i>Polymer Bulletin</i> , <b>1994</b> , 32, 471-477  | 2.4  | 98        |
| 61 | The Essential Work of Fracture (EWF) method [Analyzing the Post-Yielding Fracture Mechanics of polymers. <i>Engineering Failure Analysis</i> , <b>2009</b> , 16, 2604-2617  | 3.2  | 92        |
| 60 | Processing of poly(lactic acid)/organomontmorillonite nanocomposites: Microstructure, thermal stability and kinetics of the thermal decomposition. <i>Chemical Engineering Journal</i> , <b>2011</b> , 178, 451-460 | 14.7 | 67        |
| 59 | Kinetics of the thermal decomposition of processed poly(lactic acid). <i>Polymer Degradation and Stability</i> , <b>2010</b> , 95, 2508-2514  | 4.7  | 60        |
| 58 | Sheets of branched poly(lactic acid) obtained by one step reactive extrusion calendering process: Melt rheology analysis. <i>EXPRESS Polymer Letters</i> , <b>2013</b> , 7, 304-318                                 | 3.4  | 56        |
| 57 | On the essential work of fracture method: Energy partitioning of the fracture process in iPP films. <i>Polymer Bulletin</i> , <b>1999</b> , 42, 101-108   | 2.4  | 52        |
| 56 | Essential work of fracture on PET films: influence of the thickness and the orientation. <i>Polymer Testing</i> , <b>2000</b> , 19, 559-568   | 4.5  | 47        |
| 55 | Fracture behavior of quenched poly(lactic acid). <i>EXPRESS Polymer Letters</i> , <b>2011</b> , 5, 82-91  | 3.4  | 43        |
| 54 | Effect of the Recycling and Annealing on the Mechanical and Fracture Properties of Poly(Lactic Acid). <i>Journal of Polymers and the Environment</i> , <b>2010</b> , 18, 654-660                                    | 4.5  | 39        |
| 53 | Multifunctional Enzymatically Generated Hydrogels for Chronic Wound Application. <i>Biomacromolecules</i> , <b>2017</b> , 18, 1544-1555   | 6.9  | 37        |
| 52 | PLA/SiO <sub>2</sub> composites: Influence of the filler modifications on the morphology, crystallization behavior, and mechanical properties. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134, 45367 | 2.9  | 37        |
| 51 | Enhanced general analytical equation for the kinetics of the thermal degradation of poly(lactic acid) driven by random scission. <i>Polymer Testing</i> , <b>2013</b> , 32, 937-945                                 | 4.5  | 37        |
| 50 | 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> , <b>1999</b> , 73, 177-187         | 2.9  | 36        |
| 49 | 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> , <b>2010</b> , 4, 153-160     | 3.4  | 36        |

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| 48 | 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> , <b>2011</b> , 120, 896-905                   | 2.9 | 30 |
| 47 | 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> , <b>2010</b> , 45, 6623-6633                              | 4.3 | 30 |
| 46 | 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> , <b>2013</b> , 127, 2661-2669                                | 2.9 | 28 |
| 45 | Sheets of branched poly(lactic acid) obtained by one-step reactive extrusion/lamendering process: physical aging and fracture behavior. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 4093-4107                           | 4.3 | 24 |
| 44 | Use of extensometers on essential work of fracture (EWF) tests. <i>Polymer Testing</i> , <b>2008</b> , 27, 491-497  | 4.5 | 21 |
| 43 | Using viscoelastic properties to quantitatively estimate the amount of modified poly(lactic acid) chains through reactive extrusion. <i>Journal of Rheology</i> , <b>2015</b> , 59, 1191-1227                                       | 4.1 | 20 |
| 42 | Low-rate fracture behaviour of magnesium hydroxide filled polypropylene block copolymer. <i>Polymer Bulletin</i> , <b>1998</b> , 41, 615-622  | 2.4 | 19 |
| 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> , <b>2014</b> , 101, 52-59 | 4.7 | 18 |
| 40 | Plane strain essential work of fracture in SENB geometry at low and high strain rates of PC/ABS blends. <i>Polymer Bulletin</i> , <b>1997</b> , 39, 511-518   | 2.4 | 18 |
| 39 | Effect of the viscosity ratio on the PLA/PA10.10 bioblends morphology and mechanical properties. <i>EXPRESS Polymer Letters</i> , <b>2018</b> , 12, 569-582   | 3.4 | 18 |
| 38 | Polycarbonate/acrylonitrile-butadiene-styrene blends: miscibility and interfacial adhesion. <i>Polymer Bulletin</i> , <b>1998</b> , 41, 721-728   | 2.4 | 17 |
| 37 | Dynamic mechanical properties of polycarbonate and acrylonitrile-butadiene-styrene copolymer blends. <i>Journal of Applied Polymer Science</i> , <b>2002</b> , 83, 1507-1516  | 2.9 | 17 |
| 36 | Microwave-crosslinked bio-based starch/clay aerogels. <i>Polymer International</i> , <b>2016</b> , 65, 899-904  | 3.3 | 17 |
| 35 | Reactive extrusion: A useful process to manufacture structurally modified PLA/o-MMT composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2016</b> , 88, 106-115   | 8.4 | 17 |
| 34 | The essential work of fracture of a thermoplastic elastomer. <i>Polymer Bulletin</i> , <b>1997</b> , 39, 249-255  | 2.4 | 16 |
| 33 | Effect of the thermoforming process variables on the sheet friction coefficient. <i>Materials &amp; Design</i> , <b>2014</b> , 53, 1097-1103  |     | 15 |
| 32 | 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> , <b>2004</b> , 93, 1271-1284                                   | 2.9 | 14 |
| 31 | Influence of processing on ethylene-propylene block copolymers: Structure and mechanical behavior. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 93, 2866-2878  | 2.9 | 14 |

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|----|---|------|----|
| 30 | Impact characterization of a carbon fiber-epoxy laminate using a nonconservative model. <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 97, 2256-2263   | 2.9  | 14 |
| 29 | Fracture behaviour of de-aged poly(lactic acid) assessed by essential work of fracture and J-Integral methods. <i>Polymer Testing</i> , <b>2010</b> , 29, 984-990   | 4.5  | 13 |
| 28 | Glass bead filled polystyrene composites: morphology and fracture. <i>Polymer Bulletin</i> , <b>2002</b> , 47, 587-594  | 2.4  | 13 |
| 27 | Poly(propylene)/PET/Undecyl Ammonium Montmorillonite Nanocomposites. Synthesis and Characterization. <i>Macromolecular Symposia</i> , <b>2005</b> , 221, 63-74  | 0.8  | 13 |
| 26 | Effect of microcellular foaming on the fracture behavior of ABS polymer. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a   | 2.9  | 13 |
| 25 | Ductile-brittle transition behaviour of PLA/o-MMT films during the physical aging process. <i>EXPRESS Polymer Letters</i> , <b>2015</b> , 9, 185-195  | 3.4  | 12 |
| 24 | Study of the adhesion strength on overmoulded plastic materials using the essential work of interfacial fracture (EWIF) concept. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 5052-5060        | 4.3  | 12 |
| 23 | Fracture behaviour of poly[ethylene(vinyl alcohol)]/organo-clay composites. <i>Polymer International</i> , <b>2009</b> , 58, 648-655  | 3.3  | 10 |
| 22 | The effect of organo-modifier on the structure and properties of poly[ethylene(vinyl alcohol)]/organo-modified montmorillonite composites. <i>Polymer International</i> , <b>2010</b> , 59, 778-786       | 3.3  | 10 |
| 21 | Influence of processing on ethylene propylene block copolymers (II): Fracture behavior. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 101, 2714-2724  | 2.9  | 10 |
| 20 | Kinetics of the thermal degradation of poly(lactic acid) obtained by reactive extrusion: Influence of the addition of montmorillonite nanoparticles. <i>Polymer Testing</i> , <b>2015</b> , 48, 69-81     | 4.5  | 9  |
| 19 | Thermal degradation of poly(lactic acid) and acrylonitrile-butadiene-styrene bioblends: Elucidation of reaction mechanisms. <i>Thermochimica Acta</i> , <b>2017</b> , 654, 157-167                        | 2.9  | 8  |
| 18 | Biphasic polylactide/polyamide 6,10 blends: Influence of composition on polyamide structure and polyester crystallization. <i>Polymer</i> , <b>2020</b> , 202, 122676                                     | 3.9  | 8  |
| 17 | Melt-processing of cellulose nanofibril/polylactide bionanocomposites via a sustainable polyethylene glycol-based carrier system. <i>Carbohydrate Polymers</i> , <b>2019</b> , 224, 115188                | 10.3 | 8  |
| 16 | Fracture behavior at low strain rate of dynamically and statically vulcanized polypropylene/styrene-butadiene-styrene block copolymer blends. <i>Polymer Testing</i> , <b>2008</b> , 27, 881-885          | 4.5  | 7  |
| 15 | Essential work of fracture testing of PC-rich PET/PC blends with and without transesterification catalysts. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 2907-2915                             | 4.3  | 6  |
| 14 | Evaluation of the fracture behavior of multilayered polypropylene sheets obtained by coextrusion. <i>Polymer Engineering and Science</i> , <b>2007</b> , 47, 1365-1372                                    | 2.3  | 6  |
| 13 | Poly(lactic acid) and acrylonitrile-butadiene-styrene blends: Influence of adding ABS-g-MAH compatibilizer on the kinetics of the thermal degradation. <i>Polymer Testing</i> , <b>2018</b> , 67, 468-476 | 4.5  | 5  |

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|----|--|-----|---|
| 12 | Effect of the Strain Rate and Drawing Temperature on the Mechanical Behavior of EVOH and EVOH Composites. <i>Advances in Polymer Technology</i> , <b>2013</b> , 32, E287-E296  | 1.9 | 5 |
| 11 | PLA/PA Bio-Blends: Induced Morphology by Extrusion. <i>Polymers</i> , <b>2019</b> , 12,  | 4.5 | 5 |
| 10 | 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> , <b>2015</b> , 34, n/a-n/a   | 1.9 | 4 |
| 9  | The Effect of Titanium Dioxide Surface Modification on the Dispersion, Morphology, and Mechanical Properties of Recycled PP/PET/TiO PBNANOs. <i>Polymers</i> , <b>2019</b> , 11,   | 4.5 | 3 |
| 8  | Kinetics of the Thermal Degradation of Poly(lactic acid) and Polyamide Bioblends. <i>Polymers</i> , <b>2021</b> , 13,  | 4.5 | 3 |
| 7  | Fracture Behavior of Polypropylene /Elastomer Blends. <i>Advanced Materials Research</i> , <b>2008</b> , 47-50, 278-281  | 5   | 2 |
| 6  | Modification of poly(lactic) acid by reactive extrusion and its melt blending with acrylonitrileButadieneStyrene. <i>Polymer International</i> , <b>2020</b> , 69, 794-803   | 3.3 | 1 |
| 5  | 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> , <b>2021</b> , 22, 1822-1829 | 2   | 1 |
| 4  | Hard/soft combinations based on thermoplastic elastomer and a rigid thermoplastic polymer: Study of the adhesion strength <b>2020</b> , 113-131  |     | 1 |
| 3  | Impact of Titanium Dioxide in the Mechanical Recycling of Post-Consumer Polyethylene Terephthalate Bottle Waste: Tensile and Fracture Behavior. <i>Polymers</i> , <b>2021</b> , 13,  | 4.5 | 1 |
| 2  | Essential Work of Fracture of Injection Moulded Samples of Pet and PET/PC Blends. <i>European Structural Integrity Society</i> , <b>2003</b> , 32, 77-88   |     |   |
| 1  | Innovative One-Shot Paradigm to Tune Filler-Polymer Matrix Interface Properties by Plasma Polymer Coating in Osteosynthesis Applications.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 3067-3078   | 4.1 |   |