

# Jorge Fernández Hernández

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4690736/publications.pdf>

Version: 2024-02-01

22  
papers

526  
citations

759233

12  
h-index

677142

22  
g-index

22  
all docs

22  
docs citations

22  
times ranked

774  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Synthesis, structure and properties of poly(L-lactide-co-caprolactone) statistical copolymers. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 9, 100-112.   | 3.1  | 162       |
| 2  | Effects of chain microstructures on mechanical behavior and aging of a poly(L-lactide-co- $\epsilon$ -caprolactone) thermoplastic-elastomer. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 12, 29-38.  | 3.1  | 51        |
| 3  | In vitro degradation studies and mechanical behavior of poly( $\epsilon$ -caprolactone-co- $\delta$ -valerolactone) and poly( $\mu$ -caprolactone-co-L-lactide) with random and semi-alternating chain microstructures. European Polymer Journal, 2015, 71, 585-595. | 5.4  | 28        |
| 4  | Synthesis and characterization of $\epsilon$ -pentadecalactone-co- $\mu$ -decalactone copolymers: Evaluation of thermal, mechanical and biodegradation properties. Polymer, 2015, 81, 12-22.   | 3.8  | 27        |
| 5  | Effect of molecular weight on the physical properties of poly(ethylene brassylate) homopolymers. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 64, 209-219.  | 3.1  | 26        |
| 6  | Design, Degradation Mechanism and Long-Term Cytotoxicity of Poly(L-lactide) and Poly(Lactide-co- $\mu$ -Caprolactone) Terpolymer Film and Air-Spun Nanofiber Scaffold. Macromolecular Bioscience, 2015, 15, 1392-1410.   | 4.1  | 25        |
| 7  | Ethylene brassylate-co- $\delta$ -hexalactone biobased polymers for application in the medical field: synthesis, characterization and cell culture studies. RSC Advances, 2016, 6, 22121-22136.  | 3.6  | 22        |
| 8  | Morphology and mechanical properties of poly(ethylene brassylate)/cellulose nanocrystal composites. Carbohydrate Polymers, 2019, 221, 137-145.   | 10.2 | 22        |
| 9  | Synthesis and properties of $\epsilon$ -pentadecalactone-co- $\delta$ -hexalactone copolymers: a biodegradable thermoplastic elastomer as an alternative to poly( $\mu$ -caprolactone). RSC Advances, 2016, 6, 3137-3149.  | 3.6  | 20        |
| 10 | Mechanical properties and fatigue analysis on poly( $\mu$ -caprolactone)-polydopamine-coated nanofibers and poly( $\mu$ -caprolactone)-carbon nanotube composite scaffolds. European Polymer Journal, 2017, 94, 208-221.   | 5.4  | 19        |
| 11 | Ethylene brassylate: Searching for new comonomers that enhance the ductility and biodegradability of polylactides. Polymer Degradation and Stability, 2017, 137, 23-34.  | 5.8  | 17        |
| 12 | Crystallization and melting behavior of poly( $\mu$ -caprolactone-co- $\delta$ -valerolactone) and poly( $\mu$ -caprolactone-co-L-lactide) copolymers with novel chain microstructures. Journal of Applied Polymer Science, 2015, 132, .                             | 2.6  | 13        |
| 13 | Release mechanisms of urinary tract antibiotics when mixed with bioabsorbable polyesters. Materials Science and Engineering C, 2018, 93, 529-538.  | 7.3  | 13        |
| 14 | Electrospun Fibers of Polyester, with Both Nano- and Micron Diameters, Loaded with Antioxidant for Application as Wound Dressing or Tissue Engineered Scaffolds. ACS Applied Polymer Materials, 2019, 1, 1096-1106.  | 4.4  | 11        |
| 15 | Electrical percolation in extrinsically conducting, poly( $\mu$ -decalactone) composite neural interface materials. Scientific Reports, 2021, 11, 1295.  | 3.3  | 11        |
| 16 | A flexible strain-responsive sensor fabricated from a biocompatible electronic ink via an additive-manufacturing process. Materials and Design, 2021, 206, 109700.   | 7.0  | 11        |
| 17 | Improving the barrier character of polylactide/phenoxy immiscible blend using poly(lactide-co- $\mu$ -caprolactone) block copolymer as a compatibilizer. Journal of Applied Polymer Science, 2017, 134, 45396.   | 2.6  | 10        |
| 18 | Plasticization of poly(lactide) with poly(ethylene glycol): Low weight plasticizer vs triblock copolymers. Effect on free volume and barrier properties. Journal of Applied Polymer Science, 2020, 137, 48868.   | 2.6  | 10        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Crystallization Rate Minima of Poly(ethylene brassylate) at Temperatures Transitioning between Quantized Crystal Thicknesses. <i>Macromolecules</i> , 2022, 55, 3958-3973.  | 4.8 | 10        |
| 20 | Analysis of a poly( $\epsilon$ -decalactone)/silver nanowire composite as an electrically conducting neural interface biomaterial. <i>BMC Biomedical Engineering</i> , 2019, 1, 9.                                  | 2.6 | 7         |
| 21 | Grafting of a model protein on lactide and caprolactone based biodegradable films for biomedical applications. <i>Biomatter</i> , 2014, 4, e27979.  | 2.6 | 6         |
| 22 | Novel biodegradable and non-fouling systems for controlled-release based on poly( $\epsilon$ -caprolactone)/Quercetin blends and biomimetic bacterial S-layer coatings. <i>RSC Advances</i> , 2019, 9, 24154-24163. | 3.6 | 5         |