

# Graciela E Morales

## List of Publications by Citations

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|-------------------|-----------------------|----------------|-----------------|
| 53<br>papers      | 553<br>citations      | 12<br>h-index  | 22<br>g-index   |
| 54<br>ext. papers | 648<br>ext. citations | 2.7<br>avg, IF | 4.19<br>L-index |

| #  | Paper                                                                                                                                                                                                                                                                                            | IF  | Citations |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 53 | Comprehensive review on electrospinning techniques as versatile approaches toward antimicrobial biopolymeric composite fibers. <i>Materials Science and Engineering C</i> , <b>2019</b> , 101, 306-322                                                                                           | 8.3 | 87        |
| 52 | Novel antibacterial electrospun mats based on poly(d,l-lactide) nanofibers and zinc oxide nanoparticles. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 8373-8385                                                                                                                       | 4.3 | 58        |
| 51 | Microwave Assisted Synthesis of ZnO Nanoparticles: Effect of Precursor Reagents, Temperature, Irradiation Time, and Additives on Nano-ZnO Morphology Development. <i>Journal of Materials</i> , <b>2013</b> , 2013, 1-11                                                                         |     | 52        |
| 50 | Electrospinning and electrospraying techniques for designing novel antibacterial poly(3-hydroxybutyrate)/zinc oxide nanofibrous composites. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 8593-8609                                                                                    | 4.3 | 44        |
| 49 | Improvement of mechanical properties and antibacterial activity of electrospun poly( d , l -lactide)-based mats by incorporation of ZnO- graft -poly( d , l -lactide) nanoparticles. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 182, 324-331                                         | 4.4 | 34        |
| 48 | Bulk polymerization of styrene catalyzed by bi- and trifunctional cyclic initiators. <i>Journal of Applied Polymer Science</i> , <b>2002</b> , 83, 1-11                                                                                                                                          | 2.9 | 30        |
| 47 | Forcespinning technique for the production of poly(d,l-lactic acid) submicrometer fibers: Process/morphology/properties relationship. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47643                                                                                       | 2.9 | 20        |
| 46 | Phenomenon of phase inversion in high impact polystyrene: Physico-chemical, rheological and morphological study in the presence of chain transfer agent and using different tapered block copolymers as the precursor rubber. <i>Polymer Engineering and Science</i> , <b>2010</b> , 50, 373-383 | 2.3 | 16        |
| 45 | UV-cured thiol/ene eugenol/ZnO composite materials with antibacterial properties. <i>RSC Advances</i> , <b>2016</b> , 6, 88135-88142                                                                                                                                                             | 3.7 | 15        |
| 44 | Improved toughness in HIPS obtained from different styrene/butadiene-graded block copolymers through modification of the polydispersity index of the PS block. <i>Polymer Engineering and Science</i> , <b>2006</b> , 46, 1333-1341                                                              | 2.3 | 14        |
| 43 | Recycling of high impact polystyrene in coextruded sheet: Influence of the number of processing cycles on the microstructure and macroscopic properties. <i>Polymer Engineering and Science</i> , <b>2006</b> , 46, 1698-1705                                                                    | 2.3 | 14        |
| 42 | One-Pot Formation of ZnO-graft-Poly(d,l-Lactide) Hybrid Systems via Microwave-Assisted Polymerization of d,l-Lactide in the Presence of ZnO Nanoparticles. <i>Macromolecular Chemistry and Physics</i> , <b>2015</b> , 216, 1629-1637                                                            | 2.6 | 13        |
| 41 | Diethyl ketone triperoxide: thermal decomposition reaction in chlorobenzene solution and its application as initiator of polymerization. <i>Journal of Physical Organic Chemistry</i> , <b>2004</b> , 17, 215-220                                                                                | 2.1 | 12        |
| 40 | New insights into the mechanism of 1,2-bis(trimethyl-silyloxy)-tetraphenylethane-induced free radical polymerization: application to the synthesis of block and graft copolymers. <i>Macromolecular Chemistry and Physics</i> , <b>2000</b> , 201, 74-83                                         | 2.6 | 12        |
| 39 | Photocatalytic Treatment of Paracetamol Using TiO <sub>2</sub> Nanotubes: Effect of pH. <i>Processes</i> , <b>2019</b> , 7, 319                                                                                                                                                                  | 2.9 | 11        |
| 38 | Photo-degradation of electrospun composite mats based on poly(D,L-lactide) submicron fibers and zinc oxide nanoparticles. <i>Polymer Degradation and Stability</i> , <b>2018</b> , 152, 95-104                                                                                                   | 4.7 | 10        |
| 37 | Mathematical model for the bulk polymerization of styrene using the symmetrical cyclic trifunctional initiator diethyl ketone triperoxide. I. Chemical initiation by sequential decomposition. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 128, 776-786                            | 2.9 | 10        |

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| 36 | Mechanical and UV-shielding properties of in situ synthesized poly(acrylonitrile-butadiene-styrene)/zinc oxide nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 127, 4708-4718                                                                   | 2.9 | 8 |
| 35 | Synthesis and Characterization of High Impact Polystyrene from a Heterogeneous Styrene-Rubber-Polystyrene Solution: Influence of PS Concentration on the Phase Inversion, Morphology and Impact Strength. <i>Macromolecular Symposia</i> , <b>2013</b> , 325-326, 177-183 | 0.8 | 8 |
| 34 | Synthesis of graft copolymers. Part I. Synthesis of macroinitiators. <i>Journal of Applied Polymer Science</i> , <b>1995</b> , 57, 997-1004                                                                                                                               | 2.9 | 7 |
| 33 | Bulk Polymerization of Styrene using Multifunctional Initiators in a Batch Reactor: A Comprehensive Mathematical Model. <i>International Journal of Chemical Reactor Engineering</i> , <b>2016</b> , 14, 315-329                                                          | 1.2 | 6 |
| 32 | Processing-structure-property relationships of biopolyester/zinc oxide fibrous scaffolds engineered by centrifugal spinning. <i>Polymers for Advanced Technologies</i> , <b>2020</b> , 31, 2601-2614                                                                      | 3.2 | 5 |
| 31 | Effect of Zinc Oxide Nanoparticles Concentration on the Mechanical Properties and UV Protection of In Situ Synthesized ABS Based Nanocomposites. <i>Macromolecular Symposia</i> , <b>2013</b> , 325-326, 147-155                                                          | 0.8 | 5 |
| 30 | Design of thermosetting polymeric systems based on benzoxazines modified with maleic anhydride. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46183                                                                                                      | 2.9 | 4 |
| 29 | Performance of Zinc Oxide Nanoparticles as Polymerization Initiating Systems in the Microwave-Assisted Synthesis of Poly(d,l-Lactide)/ZnO Nanocomposites. <i>Macromolecular Symposia</i> , <b>2017</b> , 374, 1600102                                                     | 0.8 | 4 |
| 28 | Synthesis and characterization of high-impact polystyrene using a multifunctional cyclic peroxide as the initiator. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 114, 3198-3210                                                                              | 2.9 | 4 |
| 27 | Evaluation of the interfacial state in high impact polystyrene through dynamic mechanical analysis as a function of the synthesis conditions. <i>Polymer Engineering and Science</i> , <b>2007</b> , 47, 1827-1838                                                        | 2.3 | 4 |
| 26 | A Mathematical Model of the Bulk Copolymerization of Styrene and Acrylonitrile in the Presence of Polystyrene-block-Polybutadiene. <i>Macromolecular Theory and Simulations</i> , <b>2008</b> , 17, 180-197                                                               | 1.5 | 4 |
| 25 | Use of Cyclic Di- and Triperoxides as Initiators of Styrene Polymerization at High Temperature with a View to Their Use in Industrial Applications. <i>Molecules</i> , <b>2000</b> , 5, 549-550                                                                           | 4.8 | 4 |
| 24 | Mechanisms and Conditions that Affect Phase Inversion Processes. The Case of High-Impact Polystyrene. <i>Polymer Engineering and Science</i> , <b>2020</b> , 60, 491-502                                                                                                  | 2.3 | 4 |
| 23 | Centrifugally spun mats based on biopolyesters/hydroxyapatite and their potential as bone scaffolds. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, app50139                                                                                              | 2.9 | 4 |
| 22 | Mathematical model for the bulk polymerization of styrene chemically initiated by sequential and total decomposition of the trifunctional initiator diethyl ketone triperoxide. <i>Polymer Engineering and Science</i> , <b>2015</b> , 55, 145-155                        | 2.3 | 3 |
| 21 | Mechanical behavior of high impact polystyrene based on SBR copolymers: Part I. <i>Polymer Engineering and Science</i> , <b>2005</b> , 45, 1288-1296                                                                                                                      | 2.3 | 3 |
| 20 | Effect of ionic liquid on the thermal decomposition of cyclic organic peroxides. <i>Arabian Journal of Chemistry</i> , <b>2019</b> , 12, 4277-4286                                                                                                                        | 5.9 | 3 |
| 19 | Core-shell nanofibrous membranes based on poly(acrylonitrile-butadiene-styrene), polyacrylonitrile, and zinc oxide nanoparticles for photoreduction of Cr(VI) ions in aqueous solutions. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 48429             | 2.9 | 3 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 18 | Development of zinc oxide/hydroxyapatite/poly(D,L-lactic acid) fibrous scaffold for tissue engineering applications.. <i>Materials Science and Engineering C</i> , <b>2021</b> , 112594                                                                       | 8.3 | 3 |
| 17 | New advances in the mathematical modeling of the continuous bulk process for the production of high-impact polystyrene using multifunctional initiators. <i>Polymer Engineering and Science</i> , <b>2019</b> , 59, E231-E246 <sup>2</sup>                    | 2.3 | 2 |
| 16 | Synthesis of graft copolymers. II. Synthesis of polystyrene-g-poly(methyl methacrylate). <i>Journal of Applied Polymer Science</i> , <b>2002</b> , 83, 12-18                                                                                                  | 2.9 | 2 |
| 15 | Development of Multifunctional Materials Based on Poly(ether ether ketone) with Improved Biological Performances for Dental Applications. <i>Materials</i> , <b>2021</b> , 14,                                                                                | 3.5 | 2 |
| 14 | Thermal decomposition reaction of pinacolone diperoxide: its use as radical initiator in the styrene polymerization. <i>Polymer Bulletin</i> , <b>2017</b> , 74, 3545-3556                                                                                    | 2.4 | 1 |
| 13 | Experimental and theoretical study of the use of multifunctional initiators in the high impact polystyrene bulk process. <i>Polymer Engineering and Science</i> , <b>2018</b> , 58, 198-212                                                                   | 2.3 | 1 |
| 12 | Nanocomposites based on high impact polystyrene/silver nanoparticles: Effect of silver nanoparticles concentration on the reaction evolution, morphology, and impact strength. <i>Polymer Engineering and Science</i> , <b>2011</b> , 51, 1866-1874           | 2.3 | 1 |
| 11 | Evaluation of the Final Morphology of HIPS Based on the Architecture of the Compatibilizer Graft Copolymer PBd-g-PS. <i>Macromolecular Symposia</i> , <b>2009</b> , 283-284, 27-33                                                                            | 0.8 | 1 |
| 10 | Synthesis of HIPS using an A2B2 Star-Type Graft Copolymer (PB-g-PS). <i>Macromolecular Reaction Engineering</i> , <b>2010</b> , 4, 381-386                                                                                                                    | 1.5 | 1 |
| 9  | Mechanical behavior of high impact polystyrene based on SB copolymers as a function of synthesis conditions: Part II. <i>E-Polymers</i> , <b>2008</b> , 8,                                                                                                    | 2.7 | 1 |
| 8  | Synthesis of graft copolymers. III. Polystyrene-g-poly(butyl acrylate). <i>Journal of Applied Polymer Science</i> , <b>2002</b> , 83, 19-26                                                                                                                   | 2.9 | 1 |
| 7  | Synthesis strategies in the preparation of high impact polystyrene with different type of particles as the dispersed phase, towards a balance between impact strength and gloss. <i>Brazilian Journal of Chemical Engineering</i> , <b>2020</b> , 37, 715-727 | 1.7 | 1 |
| 6  | Photocatalytic Reduction of Hexavalent Chromium Ions from Aqueous Solutions Using Polymeric Microfibers Surface Modified with ZnO Nanoparticles. <i>Fibers and Polymers</i> ,1                                                                                | 2   | 1 |
| 5  | Methyl methacrylate as solvent for the thermal decomposition of the cyclic molecule pinacolone diperoxide: Toward the polymerization process. <i>Journal of Polymer Science Part A</i> , <b>2019</b> , 57, 997-1007                                           | 2.5 |   |
| 4  | Synthesis of polystyrene oligomers by nitroxide-mediated radical polymerization using diethylketone triperoxide as a multifunctional radical initiator. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 123, 1320-1328                              | 2.9 |   |
| 3  | Solution Polymerization of Methyl Methacrylate in an Ionic Liquid Employing Cyclic Multifunctional Initiators. <i>Macromolecular Symposia</i> , <b>2017</b> , 374, 1600103                                                                                    | 0.8 |   |
| 2  | Elemental Analysis of a Heterogeneous Polymeric System by EDS: Detection of the Compatibilizer Agent Containing Si Atoms and Silver Nano-Particles (AgNPs) in High Impact Polystyrene. <i>Materials Science Forum</i> , <b>2010</b> , 644, 21-24              | 0.4 |   |
| 1  | Thermoformability study of virgin and regrind high impact polystyrene coextruded sheets: Influence of the number of processing cycles on the processing parameters. <i>Polymer Engineering and Science</i> , <b>2006</b> , 46, 503-509                        | 2.3 |   |

