

Carlos Alberto Avila-Orta

List of Publications by Citations

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54
papers

698
citations

15
h-index

25
g-index

59
ext. papers

823
ext. citations

3.5
avg, IF

3.71
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 54 | Synthesis of Copper Nanoparticles by Thermal Decomposition and Their Antimicrobial Properties. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-5 | 3.2 | 84 |
| 53 | On the nature of multiple melting in poly(ethylene terephthalate) (PET) and its copolymers with cyclohexylene dimethylene terephthalate (PET/CT). <i>Polymer</i> , 2003 , 44, 1527-1535 | 3.9 | 62 |
| 52 | Surface modification of carbon nanotubes with ethylene glycol plasma. <i>Carbon</i> , 2009 , 47, 1916-1921 | 10.4 | 52 |
| 51 | Combined effect of shear and fibrous fillers on orientation-induced crystallization in discontinuous aramid fiber/isotactic polypropylene composites. <i>Polymer</i> , 2008 , 49, 295-302 | 3.9 | 52 |
| 50 | Morphological features and melting behavior of nanocomposites based on isotactic polypropylene and multiwalled carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 2640-2647 | 2.9 | 44 |
| 49 | Molecular Weight and Crystallization Temperature Effects on Poly(ethylene terephthalate) (PET) Homopolymers, an Isothermal Crystallization Analysis. <i>Polymers</i> , 2014 , 6, 583-600 | 4.5 | 33 |
| 48 | Carbon nanotube surface-induced crystallization of polyethylene terephthalate (PET). <i>Polymer</i> , 2014 , 55, 642-650 | 3.9 | 32 |
| 47 | Enhanced Antibacterial Activity of Melt Processed Poly(propylene) Ag and Cu Nanocomposites by Argon Plasma Treatment. <i>Plasma Processes and Polymers</i> , 2014 , 11, 353-365 | 3.4 | 29 |
| 46 | Morphology, Thermal Stability, and Electrical Conductivity of Polymer Nanocomposites of Isotactic Polypropylene/Multi-Walled Carbon Nanotubes. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2013 , 62, 635-641 | 3 | 26 |
| 45 | Synthesis of Copper Nanoparticles Coated with Nitrogen Ligands. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-8 | 3.2 | 25 |
| 44 | Oxidation of Copper Nanoparticles Protected with Different Coatings and Stored under Ambient Conditions. <i>Journal of Nanomaterials</i> , 2018 , 2018, 1-8 | 3.2 | 24 |
| 43 | Ultrasound-Assist Extrusion Methods for the Fabrication of Polymer Nanocomposites Based on Polypropylene/Multi-Wall Carbon Nanotubes. <i>Materials</i> , 2015 , 8, 7900-7912 | 3.5 | 20 |
| 42 | Effect of Plasma Modification of Copper Nanoparticles on their Antibacterial Properties. <i>Plasma Processes and Polymers</i> , 2014 , 11, 685-693 | 3.4 | 19 |
| 41 | Graphene Nanoplatelets Modified with Amino-Groups by Ultrasonic Radiation of Variable Frequency for Potential Adsorption of Uremic Toxins. <i>Nanomaterials</i> , 2019 , 9, | 5.4 | 16 |
| 40 | Melt-Mixed Thermoplastic Nanocomposite Containing Carbon Nanotubes and Titanium Dioxide for Flame Retardancy Applications. <i>Polymers</i> , 2019 , 11, | 4.5 | 15 |
| 39 | Chemical Modification of Carbon Nanofibers with Plasma of Acrylic Acid. <i>Plasma Processes and Polymers</i> , 2013 , 10, 627-633 | 3.4 | 14 |
| 38 | Surface Modification of Graphene Nanoplatelets by Organic Acids and Ultrasonic Radiation for Enhance Uremic Toxins Adsorption. <i>Materials</i> , 2019 , 12, | 3.5 | 13 |

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| 37 | Structural and morphological studies on the deformation behavior of polypropylene/multi-walled carbon nanotubes nanocomposites prepared through ultrasound-assisted melt extrusion process. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 475-491 | 2.6 | 13 |
| 36 | Synthesis and Thermomechanical Characterization of Nylon 6/Cu Nanocomposites Produced by an Ultrasound-Assisted Extrusion Method. <i>Advances in Materials Science and Engineering</i> , 2018 , 2018, 1-10 | 1.5 | 9 |
| 35 | Effect of Modified Hexagonal Boron Nitride Nanoparticles on the Emulsion Stability, Viscosity and Electrochemical Behavior of Nanostructured Acrylic Coatings for the Corrosion Protection of AISI 304 Stainless Steel. <i>Coatings</i> , 2020 , 10, 488 | 2.9 | 8 |
| 34 | Enhancement of the thermal conductivity of polypropylene with low loadings of CuAg alloy nanoparticles and graphene nanoplatelets. <i>Materials Today Communications</i> , 2019 , 21, 100695 | 2.5 | 7 |
| 33 | Nanocomposites based on plasma-polymerized carbon nanotubes and Nylon-6. <i>Polymer Journal</i> , 2012 , 44, 952-958 | 2.7 | 7 |
| 32 | Zeolite 13X modification with gamma-aminobutyric acid (GABA). <i>Microporous and Mesoporous Materials</i> , 2020 , 295, 109941 | 5.3 | 7 |
| 31 | Synthesis and characterization of magnetic nanoparticles Zn _{1-x} Mg _x Fe ₂ O ₄ with partial substitution of Mg ²⁺ (x= 0.0, 0.25, 0.5, 0.75 and 1.0) for adsorption of uremic toxins. <i>Ceramics International</i> , 2020 , 46, 27913-27921 | 5.1 | 7 |
| 30 | Synthesis of Nylon 6/Modified Carbon Black Nanocomposites for Application in Uric Acid Adsorption. <i>Materials</i> , 2020 , 13, | 3.5 | 7 |
| 29 | Surface Modification of Carbon Nanofibers and Graphene Platelets Mixtures by Plasma Polymerization of Propylene. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-10 | 3.2 | 6 |
| 28 | Preparation of Polymer Nanocomposites with Enhanced Antimicrobial Properties. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1479, 57-62 | | 6 |
| 27 | Antimicrobial Property of Polypropylene Composites and Functionalized Copper Nanoparticles. <i>Polymers</i> , 2021 , 13, | 4.5 | 6 |
| 26 | Aniline-Modified Polypropylene as a Compatibilizer in Polypropylene Carbon Nanotube Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2018 , 57, 1360-1366 | | 5 |
| 25 | Effect of MWNTs concentration and cooling rate on the morphological, structural, and electrical properties of non-isothermally crystallized PEN/MWNT nanocomposites. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a | 2.9 | 5 |
| 24 | Metamaterial Behavior of Polymer Nanocomposites Based on Polypropylene/Multi-Walled Carbon Nanotubes Fabricated by Means of Ultrasound-Assisted Extrusion. <i>Materials</i> , 2016 , 9, | 3.5 | 5 |
| 23 | Transparent Low Electrostatic Charge Films Based on Carbon Nanotubes and Polypropylene. Homopolymer Cast Films. <i>Polymers</i> , 2018 , 10, | 4.5 | 4 |
| 22 | Pigmentation and Degradative Activity of TiO ₂ on Polyethylene Films Using Masterbatches Fabricated Using Variable-Frequency Ultrasound-Assisted Melt-Extrusion. <i>Materials</i> , 2020 , 13, | 3.5 | 4 |
| 21 | Ultrasound-Assisted Melt Extrusion of Polymer Nanocomposites 2019 , | | 4 |
| 20 | Nanocomposite and biodegradable polymers applied to technical textiles. <i>DYNA (Colombia)</i> , 2019 , 86, 288-299 | 0.6 | 4 |

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| 19 | Relationship between the passivation of TiO ₂ particles and LLDPE photodegradation: a comparison between bulk and surface impacts. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47026 | 2.9 | 4 |
| 18 | Microwave-assisted esterification step of poly(ethylene terephthalate) (PET) synthesis through ethylene glycol and terephthalic acid. <i>Polymer Bulletin</i> , 2019 , 76, 2931-2944 | 2.4 | 4 |
| 17 | Non-Woven Fabrics Based on Nanocomposite Nylon 6/ZnO Obtained by Ultrasound-Assisted Extrusion for Improved Antimicrobial and Adsorption Methylene Blue Dye Properties. <i>Polymers</i> , 2021 , 13, | 4.5 | 3 |
| 16 | Morphological Study and Dielectric Behavior of Nonisothermally Crystallized Poly(ethylene naphthalate) Nanocomposites as a Function of Graphene Content. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-9 | 3.2 | 3 |
| 15 | Nanocomposite PLA/C20A Nanoclay by Ultrasound-Assisted Melt Extrusion for Adsorption of Uremic Toxins and Methylene Blue Dye. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 3 |
| 14 | Composites based on nylon 6/clinoptilolite by ultrasound-assisted extrusion for enhanced flame retardant and mechanical properties. <i>Polymer Bulletin</i> , 1 | 2.4 | 2 |
| 13 | Plasma-modified CNFs, GPs, and their mixtures for enhanced polypropylene thermal conductivity. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49138 | 2.9 | 1 |
| 12 | Surface Modification of nTiO ₂ /Ag Hybrid Nanoparticles Using Microwave-Assisted Polymerization in the Presence of Bis(2-hydroxyethyl) Terephthalate. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-9 | 3.2 | 1 |
| 11 | Ultrasound-Assisted Surface Modification of MWCNT Using Organic Acids. <i>Materials</i> , 2020 , 14, | 3.5 | 1 |
| 10 | Non-isothermal crystallization behavior of isotactic polypropylene/copper nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 2919-2932 | 4.1 | 1 |
| 9 | Computational Study in Bottom Gas Injection Using the Conservative Level Set Method. <i>Processes</i> , 2020 , 8, 1643 | 2.9 | 0 |
| 8 | Effect of Sorbitol Templates on the Preferential Crystallographic Growth of Isotactic Polypropylene Wax. <i>Crystals</i> , 2018 , 8, 59 | 2.3 | 0 |
| 7 | Non-woven fabrics based on Nylon 6/carbon black-graphene nanoplatelets obtained by melt-blowing for adsorption of urea, uric acid and creatinine. <i>Materials Letters</i> , 2022 , 320, 132382 | 3.3 | 0 |
| 6 | Back Cover: Plasma Process. <i>Polym. 40014. Plasma Processes and Polymers</i> , 2014 , 11, 401-401 | 3.4 | |
| 5 | Polymer Composites: Smart Synthetic Fibers Approach in Energy and Environmental Care 2021 , 1-26 | | |
| 4 | Influence of Ethylene Plasma Treatment of Agave Fiber on the Cellular Morphology and Compressive Properties of Low-Density Polyethylene/Ethylene Vinyl Acetate Copolymer/Agave Fiber Composite Foams. <i>International Journal of Polymer Science</i> , 2021 , 2021, 1-13 | 2.4 | |
| 3 | Trends on Synthesis of Polymeric Nanocomposites Based on Green Chemistry 2021 , 1-31 | | |
| 2 | Trends on Synthesis of Polymeric Nanocomposites Based on Green Chemistry 2021 , 1111-1141 | | |

- 1 Polymer Composites: Smart Synthetic Fibers Approach in Energy and Environmental Care **2021**, 3637-3661