

Carlos Alberto Avila-Orta

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.

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	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
53	Polymer Composites: Smart Synthetic Fibers Approach in Energy and Environmental Care 2021 , 1-26		
52	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	
51	Antimicrobial Property of Polypropylene Composites and Functionalized Copper Nanoparticles. <i>Polymers</i> , 2021 , 13,	4.5	6
50	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
49	Non-isothermal crystallization behavior of isotactic polypropylene/copper nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 2919-2932	4.1	1
48	Trends on Synthesis of Polymeric Nanocomposites Based on Green Chemistry 2021 , 1-31		
47	Trends on Synthesis of Polymeric Nanocomposites Based on Green Chemistry 2021 , 1111-1141		
46	Polymer Composites: Smart Synthetic Fibers Approach in Energy and Environmental Care 2021 , 3637-3661		
45	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
44	Computational Study in Bottom Gas Injection Using the Conservative Level Set Method. <i>Processes</i> , 2020 , 8, 1643	2.9	0
43	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
42	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
41	Ultrasound-Assisted Surface Modification of MWCNT Using Organic Acids. <i>Materials</i> , 2020 , 14,	3.5	1
40	Zeolite 13X modification with gamma-aminobutyric acid (GABA). <i>Microporous and Mesoporous Materials</i> , 2020 , 295, 109941	5.3	7
39	Pigmentation and Degradative Activity of TiO on Polyethylene Films Using Masterbatches Fabricated Using Variable-Frequency Ultrasound-Assisted Melt-Extrusion. <i>Materials</i> , 2020 , 13,	3.5	4
38	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

37	Synthesis of Nylon 6/Modified Carbon Black Nanocomposites for Application in Uric Acid Adsorption. <i>Materials</i> , 2020 , 13,	3.5	7
36	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
35	Surface Modification of Graphene Nanoplatelets by Organic Acids and Ultrasonic Radiation for Enhance Uremic Toxins Adsorption. <i>Materials</i> , 2019 , 12,	3.5	13
34	Melt-Mixed Thermoplastic Nanocomposite Containing Carbon Nanotubes and Titanium Dioxide for Flame Retardancy Applications. <i>Polymers</i> , 2019 , 11,	4.5	15
33	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
32	Ultrasound-Assisted Melt Extrusion of Polymer Nanocomposites 2019 ,		4
31	Nanocomposite and biodegradable polymers applied to technical textiles. <i>DYNA (Colombia)</i> , 2019 , 86, 288-299	0.6	4
30	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
29	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
28	Aniline-Modified Polypropylene as a Compatibilizer in Polypropylene Carbon Nanotube Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2018 , 57, 1360-1366		5
27	Transparent Low Electrostatic Charge Films Based on Carbon Nanotubes and Polypropylene. Homopolymer Cast Films. <i>Polymers</i> , 2018 , 10,	4.5	4
26	Effect of Sorbitol Templates on the Preferential Crystallographic Growth of Isotactic Polypropylene Wax. <i>Crystals</i> , 2018 , 8, 59	2.3	0
25	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
24	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
23	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
22	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
21	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
20	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

19	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
18	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
17	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
16	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
15	Back Cover: Plasma Process. Polym. 2014 . <i>Plasma Processes and Polymers</i> , 2014 , 11, 401-401	3.4	
14	Effect of Plasma Modification of Copper Nanoparticles on their Antibacterial Properties. <i>Plasma Processes and Polymers</i> , 2014 , 11, 685-693	3.4	19
13	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
12	Synthesis of Copper Nanoparticles Coated with Nitrogen Ligands. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-8	3.2	25
11	Synthesis of Copper Nanoparticles by Thermal Decomposition and Their Antimicrobial Properties. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-5	3.2	84
10	Carbon nanotube surface-induced crystallization of polyethylene terephthalate (PET). <i>Polymer</i> , 2014 , 55, 642-650	3.9	32
9	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
8	Chemical Modification of Carbon Nanofibers with Plasma of Acrylic Acid. <i>Plasma Processes and Polymers</i> , 2013 , 10, 627-633	3.4	14
7	Nanocomposites based on plasma-polymerized carbon nanotubes and Nylon-6. <i>Polymer Journal</i> , 2012 , 44, 952-958	2.7	7
6	Preparation of Polymer Nanocomposites with Enhanced Antimicrobial Properties. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1479, 57-62		6
5	Surface modification of carbon nanotubes with ethylene glycol plasma. <i>Carbon</i> , 2009 , 47, 1916-1921	10.4	52
4	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
3	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
2	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

- 1 Composites based on nylon 6/clinoptilolite by ultrasound-assisted extrusion for enhanced flame retardant and mechanical properties. *Polymer Bulletin*,1 2.4 2