

# Maila Castellano

## List of Publications by Year in descending order

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74  
papers

2,204  
citations

201385

27  
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233125

45  
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74  
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74  
docs citations

74  
times ranked

2389  
citing authors

#	ARTICLE	IF	CITATIONS
1	Eco-Friendly Needleless Electrospinning and Tannic Acid Functionalization of Polyurethane Nanofibers with Tunable Wettability and Mechanical Performances. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	3
2	Dynamic Pressure Measurements During Vitrectomy in a Model of the Eye. <i>Translational Vision Science and Technology</i> , 2022, 11, 21.	1.1	1
3	Electrospun alginate mats embedding silver nanoparticles with bioactive properties. <i>International Journal of Biological Macromolecules</i> , 2022, 213, 427-434.	3.6	4
4	Improved dielectric properties of poly(vinylidene fluoride)-BaTiO <sub>3</sub> composites by solvent-free processing. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50049.	1.3	11
5	Effect of Crosslinking Type on the Physical-Chemical Properties and Biocompatibility of Chitosan-Based Electrospun Membranes. <i>Polymers</i> , 2021, 13, 831.	2.0	32
6	Intelligent Packaging for Real-Time Monitoring of Food-Quality: Current and Future Developments. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3532.	1.3	44
7	Effect of sodium alginate molecular structure on electrospun membrane cell adhesion. <i>Materials Science and Engineering C</i> , 2021, 124, 112067.	3.8	27
8	Composite Poly(vinyl alcohol)-Based Nanofibers Embedding Differently-Shaped Gold Nanoparticles: Preparation and Characterization. <i>Polymers</i> , 2021, 13, 1604.	2.0	2
9	Polymer-free cyclodextrin and natural polymer-cyclodextrin electrospun nanofibers: A comprehensive review on current applications and future perspectives. <i>Carbohydrate Polymers</i> , 2021, 264, 118042.	5.1	50
10	Crystallization of a Self-Assembling Nucleator in Poly( $\epsilon$ -lactide) Melt. <i>Crystal Growth and Design</i> , 2021, 21, 5880-5888.	1.4	9
11	Potential Biomedical Applications of Collagen Filaments derived from the Marine Demosponges <i>Ircinia oros</i> (Schmidt, 1864) and <i>Sarcotragus foetidus</i> (Schmidt, 1862). <i>Marine Drugs</i> , 2021, 19, 563.	2.2	12
12	An Up-to-Date Review on Alginate Nanoparticles and Nanofibers for Biomedical and Pharmaceutical Applications. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100809.	1.9	44
13	Composite Water-Borne Polyurethane Nanofibrous Electrospun Membranes with Photocatalytic Properties. <i>ACS Applied Polymer Materials</i> , 2021, 3, 6157-6166.	2.0	15
14	Preparation of composite alginate-based electrospun membranes loaded with ZnO nanoparticles. <i>Carbohydrate Polymers</i> , 2020, 227, 115371.	5.1	81
15	Agar gel strength: A correlation study between chemical composition and rheological properties. <i>European Polymer Journal</i> , 2020, 123, 109442.	2.6	59
16	Alginate-Based Electrospun Membranes Containing ZnO Nanoparticles as Potential Wound Healing Patches: Biological, Mechanical, and Physicochemical Characterization. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 3371-3381.	4.0	90
17	PVDF-based composites containing PZT particles: How processing affects the final properties. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48871.	1.3	15
18	Investigation of the Mechanical and Dynamic-Mechanical Properties of Electrospun Polyvinylpyrrolidone Membranes: A Design of Experiment Approach. <i>Polymers</i> , 2020, 12, 1524.	2.0	18

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19	Heterogeneous Nucleation and Self-Nucleation of Isotactic Polypropylene Microdroplets in Immiscible Blends: From Nucleation to Growth-Dominated Crystallization. <i>Macromolecules</i> , 2020, 53, 5980-5991.	2.2	38
20	Nanocomposite alginate-based electrospun membranes as novel adsorbent systems. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 1939-1948.	3.6	28
21	Multilayer Alginate-Polycaprolactone Electrospun Membranes as Skin Wound Patches with Drug Delivery Abilities. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 31162-31171.	4.0	71
22	Fluid Dynamic Assessment of Hypersonic and Guillotine Vitrectomy Probes in Viscoelastic Vitreous Substitutes. <i>Translational Vision Science and Technology</i> , 2020, 9, 9.	1.1	10
23	Sodium Alginate Cross-Linkable Planar 1D Photonic Crystals as a Promising Tool for Pb <sup>2+</sup> Detection in Water. <i>Chemosensors</i> , 2020, 8, 37.	1.8	9
24	Depolymerization of sodium alginate in saline solutions via ultrasonic treatments: A rheological characterization. <i>Food Hydrocolloids</i> , 2020, 109, 106128.	5.6	24
25	Rheological, Mechanical and Morphological Characterization of Fillers in the Nautical Field: The Role of Dispersing Agents on Composite Materials. <i>Polymers</i> , 2020, 12, 1339.	2.0	4
26	Chitosan-based electrospun membranes: Effects of solution viscosity, coagulant and crosslinker. <i>Carbohydrate Polymers</i> , 2020, 235, 115976.	5.1	63
27	Univariate and multivariate strategies for the rheological tests evaluation: Influence of additives in composite materials. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49019.	1.3	1
28	Rheological properties of sodium alginate solutions in the presence of added salt: an application of Kulić equation. <i>Rheologica Acta</i> , 2020, 59, 365-374.	1.1	40
29	Chemical modification of hemp fibres by plasma treatment for eco-composites based on biodegradable polyester. <i>Journal of Materials Science</i> , 2019, 54, 14367-14377.	1.7	15
30	Alginate-based hydrogels prepared via ionic gelation: An experimental design approach to predict the crosslinking degree. <i>European Polymer Journal</i> , 2019, 118, 586-594.	2.6	85
31	Sodium alginate solutions: correlation between rheological properties and spinnability. <i>Journal of Materials Science</i> , 2019, 54, 8034-8046.	1.7	58
32	Electrospun composite mats of alginate with embedded silver nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 767-778.	2.0	46
33	Porous polydimethylsiloxane membranes loaded with low-temperature crystallized TiO <sub>2</sub> NPs for detachable antibacterial films. <i>Journal of Materials Science</i> , 2019, 54, 1665-1676.	1.7	12
34	A micro-rheological and rheological study of biopolymers solutions: Hyaluronic acid. <i>Carbohydrate Polymers</i> , 2019, 203, 349-355.	5.1	62
35	Alginate and alginate/hyaluronic acid membranes generated by electrospinning in wet conditions: Relationship between solution viscosity and spinnability. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46390.	1.3	27
36	Alginate-polymethacrylate hybrid hydrogels for potential osteochondral tissue regeneration. <i>Carbohydrate Polymers</i> , 2018, 185, 56-62.	5.1	50

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37	Soft, hyper-elastic and highly-stable silicone-organo-clay dielectric elastomer for energy harvesting and actuation applications. <i>Composites Part B: Engineering</i> , 2018, 146, 13-19.	5.9	25
38	Macrocylic oligomers as compatibilizing agent for hemp fibres/biodegradable polyester eco-composites. <i>Polymer</i> , 2018, 146, 396-406.	1.8	25
39	The effects of morpholine pre-treated and carboxymethylated cellulose nanofibrils on the properties of alginate-based hydrogels. <i>Carbohydrate Polymers</i> , 2018, 198, 320-327.	5.1	27
40	Characterization of hyaluronic acid by dynamic light scattering and rheological techniques. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	4
41	PVDF/BaTiO <sub>3</sub> composites as dielectric materials: Influence of processing on properties. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	2
42	Production, Characterization and Biocompatibility Evaluation of Collagen Membranes Derived from Marine Sponge <i>Chondrosia reniformis</i> Nardo, 1847. <i>Marine Drugs</i> , 2018, 16, 111.	2.2	54
43	Innovative Mesoporous Nanosilicas: SBR Nanocomposite for Low Environmental Impact Tread Tyre. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 1503-1515.	0.9	2
44	Polyacrylamide hydrogels for stone restoration: Effect of salt solutions on swelling/deswelling degree and dynamic correlation length. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	8
45	Alginate gelling process: Use of bivalent ions rich microspheres. <i>Polymer Engineering and Science</i> , 2017, 57, 531-536.	1.5	32
46	Gelling process of sodium alginate with bivalent ions rich microsphere: Nature of bivalent ions. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1
47	Poly(dimethylsiloxane)/TiO <sub>2</sub> Photocatalytic Membranes Obtained by Different Electrospinning Systems. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 6587-6594.	0.9	5
48	Evaluation of enthalpy of mixing by calorimetric method: effect of hydrogen bonding in poly(4-hydroxy styrene)-based blends. <i>Polymer Bulletin</i> , 2015, 72, 743-753.	1.7	0
49	Gelling process for sodium alginate: New technical approach by using calcium rich micro-spheres. <i>Carbohydrate Polymers</i> , 2015, 134, 767-774.	5.1	56
50	Hybrid ZnO:polystyrene nanocomposite for all- $\epsilon$ polymer photonic crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015, 12, 158-162.	0.8	30
51	Hydrophobation of silica surface by silylation with new organo-silanes bearing a polybutadiene oligomer tail. <i>Polymer Composites</i> , 2014, 35, 1603-1613.	2.3	15
52	Fluoro-modified elastomeric polyurethanes: effects of synthesis procedure on properties and morphology. <i>Journal of Materials Science</i> , 2014, 49, 2519-2533.	1.7	9
53	Dependence of surface properties of silylated silica on the length of silane arms. <i>Adsorption</i> , 2012, 18, 307-320.	1.4	16
54	Polyester-based biocomposites containing wool fibres. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 1113-1119.	3.8	50

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55	Structural investigation of Poly(ethylene terephthalate)/Poly(trimethylene terephthalate) transesterificated blends. <i>Journal of Polymer Research</i> , 2012, 19, 1.	1.2	2
56	Modulation of barrier properties of monolayer films from blends of polyethylene with ethylene- $\alpha$ -olefin/norbornene. <i>Journal of Applied Polymer Science</i> , 2011, 121, 3020-3027.	1.3	7
57	A New Modifier for Silica in Reinforcing SBR Elastomers for the Tyre Industry. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 455-464.	1.7	42
58	Reactive blending of aromatic polyesters: Thermal and X-ray analysis of melt-blended poly(ethylene terephthalate)/polybutadiene. <i>Journal of Applied Polymer Science</i> , 2006, 100, 1306-1313.	1.3	6
59	Bulk and surface properties of commercial kaolins. <i>Applied Clay Science</i> , 2010, 48, 446-454.	2.6	92
60	Morphology and Viscoelastic Behaviour of a Silica Filled Styrene/Butadiene Random Copolymer. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 178-187.	1.7	15
61	Influence of the Silane Modifiers on the Surface Thermodynamic Characteristics and Dispersion of the Silica into Elastomer Compounds. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4495-4502.	1.2	77
62	An IR study of the chemistry of triethoxysilane at the surface of metal oxides. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 294, 181-190.	2.3	10
63	Reactive Blending of Aromatic Polyesters: Thermal Behaviour of Co-precipitated Mixtures PTT/PET. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 242-251.	1.1	16
64	Surface modification of silica: 1. Thermodynamic aspects and effect on elastomer reinforcement. <i>Polymer</i> , 2005, 46, 695-703.	1.8	101
65	Modification of cellulose fibres with organosilanes: Under what conditions does coupling occur?. <i>Journal of Colloid and Interface Science</i> , 2004, 273, 505-511.	5.0	144
66	Reactions of cellulose and wood superficial hydroxy groups with organometallic compounds. <i>Polymer International</i> , 2004, 53, 7-11.	1.6	20
67	A Fourier Transform Infrared (FTIR) Study of the Reaction of Triethoxysilane (TES) and Bis[3-triethoxysilylpropyl]tetrasulfane (TESPT) with the Surface of Amorphous Silica. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3563-3572.	1.2	90
68	A Morphometric Investigation by TEM/AIA on Elastomer-Based Compounds Filled with an Untreated Precipitated Silica. <i>Rubber Chemistry and Technology</i> , 2003, 76, 899-911.	0.6	8
69	Investigation into the interactions between filler and elastomers used for tyre production. <i>Macromolecular Symposia</i> , 2003, 193, 195-208.	0.4	11
70	EPR spin labelling studies of molecular dynamics in elastomer-silica composites. <i>Research on Chemical Intermediates</i> , 2002, 28, 191-204.	1.3	3
71	Dielectric, Raman, calorimetric and X-ray diffraction studies of a polycarbazolyldiacetylene. <i>Synthetic Metals</i> , 2001, 116, 207-211.	2.1	2
72	Reactive blending of polyamide 6,6 and Vectra A. <i>Polymer</i> , 2001, 42, 8035-8042.	1.8	21

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73	Poly(ether ether ketone) solutions suitable for microfiltration membrane preparation. Journal of Applied Polymer Science, 2001, 81, 2550-2555.	1.3	6
74	Styrene- $\epsilon$ -diene block copolymers as embedding matrices for polymer-dispersed liquid crystal films. Polymer, 2001, 42, 2427-2438.	1.8	10