

Sergio Torres-Giner

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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.

93 papers	3,085 citations	31 h-index	52 g-index
106 ext. papers	3,703 ext. citations	4.7 avg, IF	5.85 L-index

#	Paper	IF	Citations
93	Characterization of the morphology and thermal properties of Zein Prolamine nanostructures obtained by electrospinning. <i>Food Hydrocolloids</i> , 2008 , 22, 601-614	10.6	227
92	Novel route to stabilization of bioactive antioxidants by encapsulation in electrospun fibers of zein prolamine. <i>Food Hydrocolloids</i> , 2009 , 23, 1427-1432	10.6	215
91	Development of Active Antimicrobial Fiber-Based Chitosan Polysaccharide Nanostructures using Electrospinning. <i>Engineering in Life Sciences</i> , 2008 , 8, 303-314	3.4	151
90	Novel antimicrobial ultrathin structures of zein/chitosan blends obtained by electrospinning. <i>Carbohydrate Polymers</i> , 2009 , 77, 261-266	10.3	148
89	Stabilization of a nutraceutical omega-3 fatty acid by encapsulation in ultrathin electrospun zein prolamine. <i>Journal of Food Science</i> , 2010 , 75, N69-79	3.4	147
88	A review on electrospun polymer nanostructures as advanced bioactive platforms. <i>Polymer Engineering and Science</i> , 2016 , 56, 500-527	2.3	96
87	Comparative performance of electrospun collagen nanofibers cross-linked by means of different methods. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 218-23	9.5	92
86	Novel poly(ϵ -caprolactone)/gelatin wound dressings prepared by emulsion electrospinning with controlled release capacity of Ketoprofen anti-inflammatory drug. <i>Materials Science and Engineering C</i> , 2017 , 81, 459-468	8.3	83
85	Compatibilization of highly sustainable polylactide/almond shell flour composites by reactive extrusion with maleinized linseed oil. <i>Industrial Crops and Products</i> , 2018 , 111, 878-888	5.9	82
84	Extraction of Microfibrils from Bacterial Cellulose Networks for Electrospinning of Anisotropic Biohybrid Fiber Yarns. <i>Macromolecules</i> , 2010 , 43, 4201-4209	5.5	70
83	Electrospun Antimicrobial Films of Poly(3-hydroxybutyrate- ϵ -3-hydroxyvalerate) Containing Eugenol Essential Oil Encapsulated in Mesoporous Silica Nanoparticles. <i>Nanomaterials</i> , 2019 , 9,	5.4	57
82	Enhancement of the mechanical and thermal properties of injection-molded polylactide parts by the addition of acrylated epoxidized soybean oil. <i>Materials and Design</i> , 2018 , 140, 54-63	8.1	57
81	Effect of different compatibilizers on injection-molded green composite pieces based on polylactide filled with almond shell flour. <i>Composites Part B: Engineering</i> , 2018 , 147, 76-85	10	55
80	Improving the water resistance of nanocellulose-based films with polyhydroxyalkanoates processed by the electrospinning coating technique. <i>Cellulose</i> , 2018 , 25, 1291-1307	5.5	55
79	Functional properties of thermoformed wheat gluten/montmorillonite materials with respect to formulation and processing conditions. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 487-496	2.9	53
78	Controlled Delivery of Gentamicin Antibiotic from Bioactive Electrospun Polylactide-Based Ultrathin Fibers. <i>Advanced Engineering Materials</i> , 2012 , 14, B112-B122	3.5	47
77	Development and optimization of renewable vinyl plastisol/wood flour composites exposed to ultraviolet radiation. <i>Materials and Design</i> , 2016 , 108, 648-658	8.1	46

76	Melt grafting of sepiolite nanoclay onto poly(3-hydroxybutyrate-co-4-hydroxybutyrate) by reactive extrusion with multi-functional epoxy-based styrene-acrylic oligomer. <i>European Polymer Journal</i> , 2016 , 84, 693-707	5.2	46
75	Melt processability, characterization, and antibacterial activity of compression-molded green composite sheets made of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) reinforced with coconut fibers impregnated with oregano essential oil. <i>Food Packaging and Shelf Life</i> , 2018 , 17, 39-49	8.2	45
74	Antimicrobial and Antioxidant Performance of Various Essential Oils and Natural Extracts and Their Incorporation into Biowaste Derived Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Layers Made from Electrospun Ultrathin Fibers. <i>Nanomaterials</i> , 2019 , 9,	5.4	43
73	Reactive toughening of injection-molded polylactide pieces using maleinized hemp seed oil. <i>European Polymer Journal</i> , 2018 , 98, 402-410	5.2	43
72	Nanoencapsulation of Aloe vera in Synthetic and Naturally Occurring Polymers by Electrohydrodynamic Processing of Interest in Food Technology and Bioactive Packaging. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 4439-4448	5.7	42
71	Electrospun Oxygen Scavenging Films of Poly(3-hydroxybutyrate) Containing Palladium Nanoparticles for Active Packaging Applications. <i>Nanomaterials</i> , 2018 , 8,	5.4	42
70	Preparation and Characterization of Electrospun Food Biopackaging Films of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Derived From Fruit Pulp Biowaste. <i>Frontiers in Sustainable Food Systems</i> , 2018 , 2,	4.8	41
69	Preparation, characterization and antimicrobial properties of electrospun polylactide films containing <i>Allium ursinum</i> L. extract. <i>Food Packaging and Shelf Life</i> , 2019 , 21, 100357	8.2	40
68	Study of the Influence of the Reprocessing Cycles on the Final Properties of Polylactide Pieces Obtained by Injection Molding. <i>Polymers</i> , 2019 , 11,	4.5	39
67	Bioactive Multilayer Polylactide Films with Controlled Release Capacity of Gallic Acid Accomplished by Incorporating Electrospun Nanostructured Coatings and Interlayers. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 533	2.6	38
66	Post-processing optimization of electrospun submicron poly(3-hydroxybutyrate) fibers to obtain continuous films of interest in food packaging applications. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2017 , 34, 1817-1830	3.2	38
65	Optimization of electrospun polylactide-based ultrathin fibers for osteoconductive bone scaffolds. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 914-925	2.9	36
64	Quality improvement of rainbow trout fillets by whey protein isolate coatings containing electrospun poly(ϵ -caprolactone) nanofibers with <i>Urtica dioica</i> L. extract during storage. <i>LWT - Food Science and Technology</i> , 2017 , 78, 340-351	5.4	35
63	Multilayer structures based on annealed electrospun biopolymer coatings of interest in water and aroma barrier fiber-based food packaging applications. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45501	2.9	33
62	Antimicrobial activity of metal cation-exchanged zeolites and their evaluation on injection-molded pieces of bio-based high-density polyethylene. <i>Journal of Food Safety</i> , 2017 , 37, e12348	2	30
61	Electrospraying assisted by pressurized gas as an innovative high-throughput process for the microencapsulation and stabilization of docosahexaenoic acid-enriched fish oil in zein prolamine. <i>Innovative Food Science and Emerging Technologies</i> , 2019 , 51, 12-19	6.8	30
60	Development of electrospun active films of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by the incorporation of cyclodextrin inclusion complexes containing oregano essential oil. <i>Food Hydrocolloids</i> , 2020 , 108, 106013	10.6	27
59	In Situ Compatibilization of Biopolymer Ternary Blends by Reactive Extrusion with Low-Functionality Epoxy-Based Styrene-Acrylic Oligomer. <i>Journal of Polymers and the Environment</i> , 2019 , 27, 84-96	4.5	27

58	Ductility and Toughness Improvement of Injection-Molded Compostable Pieces of Polylactide by Melt Blending with Poly(ϵ-caprolactone) and Thermoplastic Starch. <i>Materials</i> , 2018 , 11,	3.5	27
57	Evaluation of the engineering performance of different bio-based aliphatic homopolyamide tubes prepared by profile extrusion. <i>Polymer Testing</i> , 2017 , 61, 421-429	4.5	26
56	Zein-based ultrathin fibers containing ceramic nanofillers obtained by electrospinning. II. Mechanical properties, gas barrier, and sustained release capacity of biocide thymol in multilayer polylactide films. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	25
55	Electrospun nanofibers for food packaging applications 2011 , 108-125		24
54	Electrospun Poly(ethylene--vinyl alcohol)/Graphene Nanoplatelets Composites of Interest in Intelligent Food Packaging Applications. <i>Nanomaterials</i> , 2018 , 8,	5.4	24
53	On the use of acrylated epoxidized soybean oil as a reactive compatibilizer in injection-molded compostable pieces consisting of polylactide filled with orange peel flour. <i>Polymer International</i> , 2018 , 67, 1341-1351	3.3	22
52	Reactive Melt Mixing of Poly(3-Hydroxybutyrate)/Rice Husk Flour Composites with Purified Biosustainably Produced Poly(3-Hydroxybutyrate--3-Hydroxyvalerate). <i>Materials</i> , 2019 , 12,	3.5	22
51	Preparation and characterization of compression-molded green composite sheets made of poly(3-hydroxybutyrate) reinforced with long pita fibers. <i>Advances in Polymer Technology</i> , 2018 , 37, 1305-1315 ²¹	1.9	21
50	Development of Electrospun Poly(3-hydroxybutyrate--3-hydroxyvalerate) Monolayers Containing Eugenol and Their Application in Multilayer Antimicrobial Food Packaging. <i>Frontiers in Nutrition</i> , 2020 , 7, 140	6.2	21
49	Superhydrophobic Bilayer Coating Based on Annealed Electrospun Ultrathin Poly(ϵ-caprolactone) Fibers and Electrospayed Nanostructured Silica Microparticles for Easy Emptying Packaging Applications. <i>Coatings</i> , 2018 , 8, 173	2.9	21
48	Optimization of the Curing and Post-Curing Conditions for the Manufacturing of Partially Bio-Based Epoxy Resins with Improved Toughness. <i>Polymers</i> , 2019 , 11,	4.5	20
47	Development of Sustainable and Cost-Competitive Injection-Molded Pieces of Partially Bio-Based Polyethylene Terephthalate through the Valorization of Cotton Textile Waste. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	20
46	Optimization of Microwave-Assisted Extraction of Phenolic Compounds with Antioxidant Activity from Carob Pods. <i>Food Analytical Methods</i> , 2019 , 12, 2480-2490	3.4	20
45	Evaluation of Different Compatibilization Strategies to Improve the Performance of Injection-Molded Green Composite Pieces Made of Polylactide Reinforced with Short Flaxseed Fibers. <i>Polymers</i> , 2020 , 12,	4.5	20
44	Tailoring the Properties of Thermo-Compressed Polylactide Films for Food Packaging Applications by Individual and Combined Additions of Lactic Acid Oligomer and Halloysite Nanotubes. <i>Molecules</i> , 2020 , 25,	4.8	19
43	Electrospun Active Biopapers of Food Waste Derived Poly(3-hydroxybutyrate--3-hydroxyvalerate) with Short-Term and Long-Term Antimicrobial Performance. <i>Nanomaterials</i> , 2020 , 10,	5.4	18
42	Enhanced Interfacial Adhesion of Polylactide/Poly(ϵ-caprolactone)/Walnut Shell Flour Composites by Reactive Extrusion with Maleinized Linseed Oil. <i>Polymers</i> , 2019 , 11,	4.5	17
41	Injection-molded parts of polypropylene/multi-wall carbon nanotubes composites with an electrically conductive tridimensional network. <i>Polymer Composites</i> , 2016 , 37, 488-496	3	17

40	A comparative study on the effect of different reactive compatibilizers on injection-molded pieces of bio-based high-density polyethylene/polylactide blends. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47396	2.9	17
39	Mechanical Recycling of Partially Bio-Based and Recycled Polyethylene Terephthalate Blends by Reactive Extrusion with Poly(styrene-glycidyl methacrylate). <i>Polymers</i> , 2020 , 12,	4.5	16
38	Preparation and Characterization of Electrospun Pectin-Based Films and Their Application in Sustainable Aroma Barrier Multilayer Packaging. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5136	2.6	16
37	Valorization of Linen Processing By-Products for the Development of Injection-Molded Green Composite Pieces of Polylactide with Improved Performance. <i>Sustainability</i> , 2020 , 12, 652	3.6	15
36	Injection-molded parts of fully bio-based polyamide 1010 strengthened with waste derived slate fibers pretreated with glycidyl- and amino-silane coupling agents. <i>Polymer Testing</i> , 2019 , 77, 105875	4.5	15
35	Development of Active Barrier Multilayer Films Based on Electrospun Antimicrobial Hot-Tack Food Waste Derived Poly(3-hydroxybutyrate-3-hydroxyvalerate) and Cellulose Nanocrystal Interlayers. <i>Nanomaterials</i> , 2020 , 10,	5.4	15
34	Superhydrophobic Bio-Coating Made by Co-Continuous Electrospinning and Electro spraying on Polyethylene Terephthalate Films Proposed as Easy Emptying Transparent Food Packaging. <i>Coatings</i> , 2018 , 8, 364	2.9	15
33	Poly(hydroxy acids) derived from the self-condensation of hydroxy acids: from polymerization to end-of-life options. <i>Polymer Chemistry</i> , 2020 , 11, 4861-4874	4.9	12
32	On the Use of Phenolic Compounds Present in Citrus Fruits and Grapes as Natural Antioxidants for Thermo-Compressed Bio-Based High-Density Polyethylene Films. <i>Antioxidants</i> , 2020 , 10,	7.1	12
31	Kinetic Analysis of the Thermal Degradation of Recycled Acrylonitrile-Butadiene-Styrene by non-Isothermal Thermogravimetry. <i>Polymers</i> , 2019 , 11,	4.5	12
30	Torrefaction of Coffee Husk Flour for the Development of Injection-Molded Green Composite Pieces of Polylactide with High Sustainability. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6468	2.6	11
29	Preparation and optimization of submicron chitosan capsules by water-based electro spraying for food and bioactive packaging applications. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2017 , 34, 1795-1806	3.2	11
28	On the Use of Gallic Acid as a Potential Natural Antioxidant and Ultraviolet Light Stabilizer in Cast-Extruded Bio-Based High-Density Polyethylene Films. <i>Polymers</i> , 2019 , 12,	4.5	11
27	Valorization of Municipal Biowaste into Electrospun Poly(3-hydroxybutyrate-3-hydroxyvalerate) Biopapers for Food Packaging Applications.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 6110-6123	4.1	11
26	The impact of electrospun films of poly(ε-caprolactone) filled with nanostructured zeolite and silica microparticles on in vitro histamine formation by Staphylococcus aureus and Salmonella Paratyphi A. <i>Food Packaging and Shelf Life</i> , 2019 , 22, 100414	8.2	10
25	Zein-based ultrathin fibers containing ceramic nanofillers obtained by electrospinning. I. Morphology and thermal properties. <i>Journal of Applied Polymer Science</i> , 2010 , 118, n/a-n/a	2.9	10
24	Enhancement of the processing window and performance of polyamide 1010/bio-based high-density polyethylene blends by melt mixing with natural additives. <i>Polymer International</i> , 2020 , 69, 61-71	3.3	10
23	Development of Injection-Molded Polylactide Pieces with High Toughness by the Addition of Lactic Acid Oligomer and Characterization of Their Shape Memory Behavior. <i>Polymers</i> , 2019 , 11,	4.5	10

22	Peroxide-Induced Synthesis of Maleic Anhydride-Grafted Poly(butylene succinate) and Its Compatibilizing Effect on Poly(butylene succinate)/Pistachio Shell Flour Composites. <i>Molecules</i> , 2021 , 26,	4.8	8
21	Nanostructured Multilayer Films 2018 , 147-171		7
20	Development and Characterization of Weft-Knitted Fabrics of Naturally Occurring Polymer Fibers for Sustainable and Functional Textiles. <i>Polymers</i> , 2021 , 13,	4.5	7
19	Assessment of the Mechanical and Thermal Properties of Injection-Molded Poly(3-hydroxybutyrate--3-hydroxyhexanoate)/Hydroxyapatite Nanoparticles Parts for Use in Bone Tissue Engineering. <i>Polymers</i> , 2020 , 12,	4.5	6
18	Microencapsulation of Copper(II) Sulfate in Ionically Cross-Linked Chitosan by Spray Drying for the Development of Irreversible Moisture Indicators in Paper Packaging. <i>Polymers</i> , 2020 , 12,	4.5	6
17	Blends of Poly(3-Hydroxybutyrate--3-Hydroxyvalerate) with Fruit Pulp Biowaste Derived Poly(3-Hydroxybutyrate--3-Hydroxyvalerate--3-Hydroxyhexanoate) for Organic Recycling Food Packaging. <i>Polymers</i> , 2021 , 13,	4.5	6
16	Organocatalyzed closed-loop chemical recycling of thermo-compressed films of poly(ethylene furanoate). <i>Polymer Chemistry</i> , 2021 , 12, 1571-1580	4.9	6
15	Electrohydrodynamic processing for the production of zein-based microstructures and nanostructures. <i>Current Opinion in Colloid and Interface Science</i> , 2021 , 56, 101504	7.6	6
14	Novel Antimicrobials Obtained by Electrospinning Methods261-285		6
13	Development of Compatibilized Polyamide 1010/Coconut Fibers Composites by Reactive Extrusion with Modified Linseed Oil and Multi-functional Petroleum Derived Compatibilizers. <i>Fibers and Polymers</i> , 2021 , 22, 728-744	2	5
12	High-Oxygen-Barrier Multilayer Films Based on Polyhydroxyalkanoates and Cellulose Nanocrystals. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
11	Emerging Trends in Biopolymers for Food Packaging 2021 , 1-33		4
10	A comparative study on the reactive compatibilization of melt-processed polyamide 1010/polylactide blends by multi-functionalized additives derived from linseed oil and petroleum. <i>EXPRESS Polymer Letters</i> , 2020 , 14, 583-604	3.4	3
9	Development and Characterization of Electrospun Biopapers of Poly(3-hydroxybutyrate--3-hydroxyvalerate) Derived from Cheese Whey with Varying 3-Hydroxyvalerate Contents. <i>Biomacromolecules</i> , 2021 , 22, 2935-2953	6.9	3
8	Valorization of Rice Straw into Cellulose Microfibers for the Reinforcement of Thermoplastic Corn Starch Films. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8433	2.6	3
7	Management of Operational Parameters and Novel Spinneret Configurations for the Electrohydrodynamic Processing of Functional Polymers. <i>Macromolecular Materials and Engineering</i> , 2021 , 308, 2100858	3.9	2
6	CHAPTER 10:Electrospinning in the Packaging Industry. <i>RSC Soft Matter</i> , 2018 , 238-260	0.5	2
5	Effect of graphene nanoplatelets on the dielectric permittivity and segmental motions of electrospun poly(ethylene-co-vinyl alcohol) nanofibers. <i>Polymer Degradation and Stability</i> , 2021 , 183, 109404	4.7	2

4	Quality and Shelf-Life Stability of Pork Meat Fillets Packaged in Multilayer Polylactide Films.. <i>Foods</i> , 2022 , 11,	4.9	1
3	Barrier biopaper multilayers obtained by impregnation of electrospun poly(3-hydroxybutyrate-co-3-hydroxyvalerate) with protein and polysaccharide hydrocolloids. <i>Carbohydrate Polymer Technologies and Applications</i> , 2021 , 2, 100150	1.7	1
2	Atomization of Microfibrillated Cellulose and Its Incorporation into Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by Reactive Extrusion. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2111	2.6	0
1	Bio-nanosystems Resorting to Electrohydrodynamic Processing 2019 , 103-126		