Sergio Torres-Giner

List of Publications by Year in Descending Order

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	Quality and Shelf-Life Stability of Pork Meat Fillets Packaged in Multilayer Polylactide Films.. *Foods*, **2022**, 11,	4.9	1
92	Atomization of Microfibrillated Cellulose and Its Incorporation into Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by Reactive Extrusion. *Applied Sciences (Switzerland)*, **2022**, 12, 2111	2.6	0
91	Peroxide-Induced Synthesis of Maleic Anhydride-Grafted Poly(butylene succinate) and Its Compatibilizing Effect on Poly(butylene succinate)/Pistachio Shell Flour Composites. *Molecules*, **2021**, 26,	4.8	8
90	Blends of Poly(3-Hydroxybutyrate--3-Hydroxyvalerate) with Fruit Pulp Biowaste Derived Poly(3-Hydroxybutyrate--3-Hydroxyvalerate--3-Hydroxyhexanoate) for Organic Recycling Food Packaging. *Polymers*, **2021**, 13,	4.5	6
89	High-Oxygen-Barrier Multilayer Films Based on Polyhydroxyalkanoates and Cellulose Nanocrystals. *Nanomaterials*, **2021**, 11,	5.4	4
88	Development and Characterization of Electrospun Biopapers of Poly(3-hydroxybutyrate--3-hydroxyvalerate) Derived from Cheese Whey with Varying 3-Hydroxyvalerate Contents. *Biomacromolecules*, **2021**, 22, 2935-2953	6.9	3
87	Effect of graphene nanoplatelets on the dielectric permittivity and segmental motions of electrospun poly(ethylene-co-vinyl alcohol) nanofibers. *Polymer Degradation and Stability*, **2021**, 183, 109404	4.7	2
86	Development of Compatibilized Polyamide 1010/Coconut Fibers Composites by Reactive Extrusion with Modified Linseed Oil and Multi-functional Petroleum Derived Compatibilizers. *Fibers and Polymers*, **2021**, 22, 728-744	2	5
85	Emerging Trends in Biopolymers for Food Packaging **2021**, 1-33		4
84	Organocatalyzed closed-loop chemical recycling of thermo-compressed films of poly(ethylene furanoate). *Polymer Chemistry*, **2021**, 12, 1571-1580	4.9	6
83	Development and Characterization of Weft-Knitted Fabrics of Naturally Occurring Polymer Fibers for Sustainable and Functional Textiles. *Polymers*, **2021**, 13,	4.5	7
82	Valorization of Rice Straw into Cellulose Microfibers for the Reinforcement of Thermoplastic Corn Starch Films. *Applied Sciences (Switzerland)*, **2021**, 11, 8433	2.6	3
81	Electrohydrodynamic processing for the production of zein-based microstructures and nanostructures. *Current Opinion in Colloid and Interface Science*, **2021**, 56, 101504	7.6	6
80	Barrier biopaper multilayers obtained by impregnation of electrospun poly(3-hydroxybutyrate-co-3-hydroxyvalerate) with protein and polysaccharide hydrocolloids. *Carbohydrate Polymer Technologies and Applications*, **2021**, 2, 100150	1.7	1
79	Torrefaction of Coffee Husk Flour for the Development of Injection-Molded Green Composite Pieces of Polylactide with High Sustainability. *Applied Sciences (Switzerland)*, **2020**, 10, 6468	2.6	11
78	Development of electrospun active films of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by the incorporation of cyclodextrin inclusion complexes containing oregano essential oil. *Food Hydrocolloids*, **2020**, 108, 106013	10.6	27
77	Tailoring the Properties of Thermo-Compressed Polylactide Films for Food Packaging Applications by Individual and Combined Additions of Lactic Acid Oligomer and Halloysite Nanotubes. *Molecules*, **2020**, 25,	4.8	19

76	Poly(hydroxy acids) derived from the self-condensation of hydroxy acids: from polymerization to end-of-life options. *Polymer Chemistry*, **2020**, 11, 4861-4874	4.9	12
75	Electrospun Active Biopapers of Food Waste Derived Poly(3-hydroxybutyrate--3-hydroxyvalerate) with Short-Term and Long-Term Antimicrobial Performance. *Nanomaterials*, **2020**, 10,	5.4	18
74	Assessment of the Mechanical and Thermal Properties of Injection-Molded Poly(3-hydroxybutyrate--3-hydroxyhexanoate)/Hydroxyapatite Nanoparticles Parts for Use in Bone Tissue Engineering. *Polymers*, **2020**, 12,	4.5	6
73	Valorization of Linen Processing By-Products for the Development of Injection-Molded Green Composite Pieces of Polylactide with Improved Performance. *Sustainability*, **2020**, 12, 652	3.6	15
72	Mechanical Recycling of Partially Bio-Based and Recycled Polyethylene Terephthalate Blends by Reactive Extrusion with Poly(styrene--glycidyl methacrylate). *Polymers*, **2020**, 12,	4.5	16
71	A comparative study on the reactive compatibilization of melt-processed polyamide 1010/polylactide blends by multi-functionalized additives derived from linseed oil and petroleum. *EXPRESS Polymer Letters*, **2020**, 14, 583-604	3.4	3
70	On the Use of Phenolic Compounds Present in Citrus Fruits and Grapes as Natural Antioxidants for Thermo-Compressed Bio-Based High-Density Polyethylene Films. *Antioxidants*, **2020**, 10,	7.1	12
69	Enhancement of the processing window and performance of polyamide 1010/bio-based high-density polyethylene blends by melt mixing with natural additives. *Polymer International*, **2020** , 69, 61-71	3.3	10
68	Development of Active Barrier Multilayer Films Based on Electrospun Antimicrobial Hot-Tack Food Waste Derived Poly(3-hydroxybutyrate--3-hydroxyvalerate) and Cellulose Nanocrystal Interlayers. *Nanomaterials*, **2020**, 10,	5.4	15
67	Valorization of Municipal Biowaste into Electrospun Poly(3-hydroxybutyrate--3-hydroxyvalerate) Biopapers for Food Packaging Applications.. *ACS Applied Bio Materials*, **2020**, 3, 6110-6123	4.1	11
66	Development of Electrospun Poly(3-hydroxybutyrate--3-hydroxyvalerate) Monolayers Containing Eugenol and Their Application in Multilayer Antimicrobial Food Packaging. *Frontiers in Nutrition*, **2020**, 7, 140	6.2	21
65	Microencapsulation of Copper(II) Sulfate in Ionically Cross-Linked Chitosan by Spray Drying for the Development of Irreversible Moisture Indicators in Paper Packaging. *Polymers*, **2020**, 12,	4.5	6
64	Evaluation of Different Compatibilization Strategies to Improve the Performance of Injection-Molded Green Composite Pieces Made of Polylactide Reinforced with Short Flaxseed Fibers. *Polymers*, **2020**, 12,	4.5	20
63	Optimization of the Curing and Post-Curing Conditions for the Manufacturing of Partially Bio-Based Epoxy Resins with Improved Toughness. *Polymers*, **2019**, 11,	4.5	20
62	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. *Nanomaterials*, **2019**, 9,	5.4	43
61	Enhanced Interfacial Adhesion of Polylactide/Poly(ε-caprolactone)/Walnut Shell Flour Composites by Reactive Extrusion with Maleinized Linseed Oil. *Polymers*, **2019**, 11,	4.5	17
60	Development of Sustainable and Cost-Competitive Injection-Molded Pieces of Partially Bio-Based Polyethylene Terephthalate through the Valorization of Cotton Textile Waste. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	20
59	Injection-molded parts of fully bio-based polyamide 1010 strengthened with waste derived slate fibers pretreated with glycidyl- and amino-silane coupling agents. *Polymer Testing*, **2019**, 77, 105875	4.5	15

58	Reactive Melt Mixing of Poly(3-Hydroxybutyrate)/Rice Husk Flour Composites with Purified Biosustainably Produced Poly(3-Hydroxybutyrate--3-Hydroxyvalerate). *Materials*, **2019**, 12,	3.5	22
57	Optimization of Microwave-Assisted Extraction of Phenolic Compounds with Antioxidant Activity from Carob Pods. *Food Analytical Methods*, **2019**, 12, 2480-2490	3.4	20
56	Preparation, characterization and antimicrobial properties of electrospun polylactide films containing Allium ursinum L. extract. *Food Packaging and Shelf Life*, **2019**, 21, 100357	8.2	40
55	Bioactive Multilayer Polylactide Films with Controlled Release Capacity of Gallic Acid Accomplished by Incorporating Electrospun Nanostructured Coatings and Interlayers. *Applied Sciences (Switzerland)*, **2019**, 9, 533	2.6	38
54	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. *Food Packaging and Shelf Life*, **2019**, 22, 100414	8.2	10
53	Bio-nanosystems Resorting to Electrohydrodynamic Processing **2019**, 103-126		
52	On the Use of Gallic Acid as a Potential Natural Antioxidant and Ultraviolet Light Stabilizer in Cast-Extruded Bio-Based High-Density Polyethylene Films. *Polymers*, **2019**, 12,	4.5	11
51	Kinetic Analysis of the Thermal Degradation of Recycled Acrylonitrile-Butadiene-Styrene by non-Isothermal Thermogravimetry. *Polymers*, **2019**, 11,	4.5	12
50	Electrospun Antimicrobial Films of Poly(3-hydroxybutyrate--3-hydroxyvalerate) Containing Eugenol Essential Oil Encapsulated in Mesoporous Silica Nanoparticles. *Nanomaterials*, **2019**, 9,	5.4	57
49	Development of Injection-Molded Polylactide Pieces with High Toughness by the Addition of Lactic Acid Oligomer and Characterization of Their Shape Memory Behavior. *Polymers*, **2019**, 11,	4.5	10
48	Preparation and Characterization of Electrospun Pectin-Based Films and Their Application in Sustainable Aroma Barrier Multilayer Packaging. *Applied Sciences (Switzerland)*, **2019**, 9, 5136	2.6	16
47	Study of the Influence of the Reprocessing Cycles on the Final Properties of Polylactide Pieces Obtained by Injection Molding. *Polymers*, **2019**, 11,	4.5	39
46	A comparative study on the effect of different reactive compatibilizers on injection-molded pieces of bio-based high-density polyethylene/polylactide blends. *Journal of Applied Polymer Science*, **2019** , 136, 47396	2.9	17
45	In Situ Compatibilization of Biopolymer Ternary Blends by Reactive Extrusion with Low-Functionality Epoxy-Based Styrene–Acrylic Oligomer. *Journal of Polymers and the Environment*, **2019**, 27, 84-96	4.5	27
44	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. *Innovative Food Science and Emerging Technologies*, **2019**, 51, 12-19	6.8	30
43	Effect of different compatibilizers on injection-molded green composite pieces based on polylactide filled with almond shell flour. *Composites Part B: Engineering*, **2018**, 147, 76-85	10	55
42	Improving the water resistance of nanocellulose-based films with polyhydroxyalkanoates processed by the electrospinning coating technique. *Cellulose*, **2018**, 25, 1291-1307	5.5	55
41	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. *Polymer International*, **2018**, 67, 1341-1351	3.3	22

40	Preparation and characterization of compression-molded green composite sheets made of poly(3-hydroxybutyrate) reinforced with long pita fibers. *Advances in Polymer Technology*, **2018**, 37, 1305-1315	1.9	21
39	Nanostructured Multilayer Films **2018**, 147-171		7
38	Preparation and Characterization of Electrospun Food Biopackaging Films of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Derived From Fruit Pulp Biowaste. *Frontiers in Sustainable Food Systems*, **2018**, 2,	4.8	41
37	Electrospun Oxygen Scavenging Films of Poly(3-hydroxybutyrate) Containing Palladium Nanoparticles for Active Packaging Applications. *Nanomaterials*, **2018**, 8,	5.4	42
36	CHAPTER 10:Electrospinning in the Packaging Industry. *RSC Soft Matter*, **2018**, 238-260	0.5	2
35	Reactive toughening of injection-molded polylactide pieces using maleinized hemp seed oil. *European Polymer Journal*, **2018**, 98, 402-410	5.2	43
34	Enhancement of the mechanical and thermal properties of injection-molded polylactide parts by the addition of acrylated epoxidized soybean oil. *Materials and Design*, **2018**, 140, 54-63	8.1	57
33	Compatibilization of highly sustainable polylactide/almond shell flour composites by reactive extrusion with maleinized linseed oil. *Industrial Crops and Products*, **2018**, 111, 878-888	5.9	82
32	Multilayer structures based on annealed electrospun biopolymer coatings of interest in water and aroma barrier fiber-based food packaging applications. *Journal of Applied Polymer Science*, **2018**, 135, 45501	2.9	33
31	Electrospun Poly(ethylene--vinyl alcohol)/Graphene Nanoplatelets Composites of Interest in Intelligent Food Packaging Applications. *Nanomaterials*, **2018**, 8,	5.4	24
30	Ductility and Toughness Improvement of Injection-Molded Compostable Pieces of Polylactide by Melt Blending with Poly(ε-caprolactone) and Thermoplastic Starch. *Materials*, **2018**, 11,	3.5	27
29	Superhydrophobic Bio-Coating Made by Co-Continuous Electrospinning and Electrospraying on Polyethylene Terephthalate Films Proposed as Easy Emptying Transparent Food Packaging. *Coatings*, **2018**, 8, 364	2.9	15
28	Superhydrophobic Bilayer Coating Based on Annealed Electrospun Ultrathin Poly(ε-caprolactone) Fibers and Electrosprayed Nanostructured Silica Microparticles for Easy Emptying Packaging Applications. *Coatings*, **2018**, 8, 173	2.9	21
27	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. *Food Packaging and Shelf Life*, **2018**, 17, 39-49	8.2	45
26	Antimicrobial activity of metal cation-exchanged zeolites and their evaluation on injection-molded pieces of bio-based high-density polyethylene. *Journal of Food Safety*, **2017**, 37, e12348	2	30
25	Nanoencapsulation of Aloe vera in Synthetic and Naturally Occurring Polymers by Electrohydrodynamic Processing of Interest in Food Technology and Bioactive Packaging. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 4439-4448	5.7	42
24	Quality improvement of rainbow trout fillets by whey protein isolate coatings containing electrospun poly(ε-caprolactone) nanofibers with Urtica dioica L. extract during storage. *LWT - Food Science and Technology*, **2017**, 78, 340-351	5.4	35
23	Post-processing optimization of electrospun submicron poly(3-hydroxybutyrate) fibers to obtain continuous films of interest in food packaging applications. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2017**, 34, 1817-1830	3.2	38

22	Evaluation of the engineering performance of different bio-based aliphatic homopolyamide tubes prepared by profile extrusion. *Polymer Testing*, **2017**, 61, 421-429	4.5	26
21	Novel poly(Ɛ-caprolactone)/gelatin wound dressings prepared by emulsion electrospinning with controlled release capacity of Ketoprofen anti-inflammatory drug. *Materials Science and Engineering C*, **2017**, 81, 459-468	8.3	83
20	Preparation and optimization of submicron chitosan capsules by water-based electrospraying for food and bioactive packaging applications. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2017**, 34, 1795-1806	3.2	11
19	Development and optimization of renewable vinyl plastisol/wood flour composites exposed to ultraviolet radiation. *Materials and Design*, **2016**, 108, 648-658	8.1	46
18	Injection-molded parts of polypropylene/multi-wall carbon nanotubes composites with an electrically conductive tridimensional network. *Polymer Composites*, **2016**, 37, 488-496	3	17
17	A review on electrospun polymer nanostructures as advanced bioactive platforms. *Polymer Engineering and Science*, **2016**, 56, 500-527	2.3	96
16	Melt grafting of sepiolite nanoclay onto poly(3-hydroxybutyrate-co-4-hydroxybutyrate) by reactive extrusion with multi-functional epoxy-based styrene-acrylic oligomer. *European Polymer Journal*, **2016**, 84, 693-707	5.2	46
15	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. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	25
14	Controlled Delivery of Gentamicin Antibiotic from Bioactive Electrospun Polylactide-Based Ultrathin Fibers. *Advanced Engineering Materials*, **2012**, 14, B112-B122	3.5	47
13	Optimization of electrospun polylactide-based ultrathin fibers for osteoconductive bone scaffolds. *Journal of Applied Polymer Science*, **2011**, 122, 914-925	2.9	36
12	Electrospun nanofibers for food packaging applications **2011**, 108-125		24
11	Stabilization of a nutraceutical omega-3 fatty acid by encapsulation in ultrathin electrosprayed zein prolamine. *Journal of Food Science*, **2010**, 75, N69-79	3.4	147
10	Extraction of Microfibrils from Bacterial Cellulose Networks for Electrospinning of Anisotropic Biohybrid Fiber Yarns. *Macromolecules*, **2010**, 43, 4201-4209	5.5	70
9	Zein-based ultrathin fibers containing ceramic nanofillers obtained by electrospinning. I. Morphology and thermal properties. *Journal of Applied Polymer Science*, **2010**, 118, n/a-n/a	2.9	10
8	Novel route to stabilization of bioactive antioxidants by encapsulation in electrospun fibers of zein prolamine. *Food Hydrocolloids*, **2009**, 23, 1427-1432	10.6	215
7	Novel antimicrobial ultrathin structures of zein/chitosan blends obtained by electrospinning. *Carbohydrate Polymers*, **2009**, 77, 261-266	10.3	148
6	Comparative performance of electrospun collagen nanofibers cross-linked by means of different methods. *ACS Applied Materials & Interfaces*, **2009**, 1, 218-23	9.5	92
5	Characterization of the morphology and thermal properties of Zein Prolamine nanostructures obtained by electrospinning. *Food Hydrocolloids*, **2008**, 22, 601-614	10.6	227

4	Functional properties of thermoformed wheat gluten/montmorillonite materials with respect to formulation and processing conditions. *Journal of Applied Polymer Science*, **2008**, 107, 487-496	2.9	53
3	Development of Active Antimicrobial Fiber-Based Chitosan Polysaccharide Nanostructures using Electrospinning. *Engineering in Life Sciences*, **2008**, 8, 303-314	3.4	151
2	Management of Operational Parameters and Novel Spinneret Configurations for the Electrohydrodynamic Processing of Functional Polymers. *Macromolecular Materials and Engineering*,2100858	3.9	2
1	Novel Antimicrobials Obtained by Electrospinning Methods261-285		6