

Fernando G Torres

List of Publications by Citations

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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.

100
papers

2,340
citations

24
h-index

45
g-index

101
ext. papers

2,846
ext. citations

4.5
avg, IF

5.87
L-index

#	Paper	IF	Citations
100	Nanocomposites of bacterial cellulose/hydroxyapatite for biomedical applications. <i>Acta Biomaterialia</i> , 2009 , 5, 1605-15	10.8	225
99	Biocompatibility of bacterial cellulose based biomaterials. <i>Journal of Functional Biomaterials</i> , 2012 , 3, 864-78	4.8	153
98	Development of self-assembled bacterial cellulose-starch nanocomposites. <i>Materials Science and Engineering C</i> , 2009 , 29, 1098-1104	8.3	144
97	Processing and characterization of porous structures from chitosan and starch for tissue engineering scaffolds. <i>Biomacromolecules</i> , 2006 , 7, 3345-55	6.9	107
96	Mechanical properties and bioactivity of porous PLGA/TiO ₂ nanoparticle-filled composites for tissue engineering scaffolds. <i>Composites Science and Technology</i> , 2007 , 67, 1139-1147	8.6	102
95	Bacterial cellulose nanocomposites: An all-nano type of material. <i>Materials Science and Engineering C</i> , 2019 , 98, 1277-1293	8.3	98
94	Natural Polysaccharide Nanomaterials: An Overview of Their Immunological Properties. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	96
93	Biodegradability and mechanical properties of starch films from Andean crops. <i>International Journal of Biological Macromolecules</i> , 2011 , 48, 603-6	7.9	87
92	Characterization of the nanocomposite laminate structure occurring in fish scales from <i>Arapaima Gigas</i> . <i>Materials Science and Engineering C</i> , 2008 , 28, 1276-1283	8.3	76
91	Sorption of chemical contaminants on degradable and non-degradable microplastics: Recent progress and research trends. <i>Science of the Total Environment</i> , 2021 , 757, 143875	10.2	70
90	Starch-based biomaterials for wound-dressing applications. <i>Starch/Staerke</i> , 2013 , 65, 543-551	2.3	68
89	Processing and Mechanical Properties of Natural Fiber Reinforced Thermoplastic Starch Biocomposites. <i>Journal of Thermoplastic Composite Materials</i> , 2007 , 20, 207-223	1.9	58
88	Structure-property relationships of a biopolymer network: the eggshell membrane. <i>Acta Biomaterialia</i> , 2010 , 6, 3687-93	10.8	51
87	Mechanical behavior of silk during the evolution of orb-web spinning spiders. <i>Biomacromolecules</i> , 2009 , 10, 1904-10	6.9	46
86	Morphological Characterisation of Bacterial Cellulose-Starch Nanocomposites. <i>Polymers and Polymer Composites</i> , 2008 , 16, 181-185	0.8	44
85	Reversible stress softening and stress recovery of cellulose networks. <i>Soft Matter</i> , 2009 , 5, 4185	3.6	42
84	Microwave processing of starch-based porous structures for tissue engineering scaffolds. <i>Journal of Applied Polymer Science</i> , 2007 , 103, 1332-1339	2.9	39

83	Face mask waste generation and management during the COVID-19 pandemic: An overview and the Peruvian case. <i>Science of the Total Environment</i> , 2021 , 786, 147628	10.2	33
82	Investigation of fiber organization and damage during single screw extrusion of natural fiber reinforced thermoplastics. <i>Advances in Polymer Technology</i> , 2005 , 24, 145-156	1.9	31
81	Hydrazine treatment improves conductivity of bacterial cellulose/graphene nanocomposites obtained by a novel processing method. <i>Carbohydrate Polymers</i> , 2017 , 171, 68-76	10.3	29
80	Polysaccharide-based triboelectric nanogenerators: A review. <i>Carbohydrate Polymers</i> , 2021 , 251, 117055	10.3	27
79	Impact and fracture analysis of fish scales from <i>Arapaima gigas</i> . <i>Materials Science and Engineering C</i> , 2015 , 51, 153-7	8.3	26
78	Biocompatibility of starch-based films from starch of Andean crops for biomedical applications. <i>Materials Science and Engineering C</i> , 2011 , 31, 1737-1740	8.3	26
77	Green Composite Materials from Biopolymers Reinforced with Agroforestry Waste. <i>Journal of Polymers and the Environment</i> , 2019 , 27, 2651-2673	4.5	24
76	Biocomposites Based on Bacterial Cellulose and Apple and Radish Pulp. <i>International Polymer Processing</i> , 2007 , 22, 497-501	1	24
75	Morphological and thermal characterization of native starches from Andean crops. <i>Starch/Staerke</i> , 2011 , 63, 381-389	2.3	22
74	Monitoring molecular dynamics of bacterial cellulose composites reinforced with graphene oxide by carboxymethyl cellulose addition. <i>Carbohydrate Polymers</i> , 2017 , 157, 353-360	10.3	21
73	Thermal and Structural Analysis of Natural Fiber Reinforced Starch-Based Biocomposites. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2006 , 55, 893-907	3	21
72	Rotational Moulding and Powder Processing of Natural Fibre Reinforced Thermoplastics. <i>International Polymer Processing</i> , 2003 , 18, 204-210	1	21
71	Supercontraction of dragline silk spun by lynx spiders (Oxyopidae). <i>International Journal of Biological Macromolecules</i> , 2010 , 46, 555-7	7.9	19
70	Influence of the Processing Conditions on the Mechanical Properties of Chitin Whisker Reinforced Poly(caprolactone) Nanocomposites. <i>Journal of Biobased Materials and Bioenergy</i> , 2007 , 1, 341-350	1.4	18
69	Influence of the source of starch and plasticizers on the environmental burden of starch-Brazil nut fiber biocomposite production: A life cycle assessment approach. <i>Science of the Total Environment</i> , 2021 , 769, 144869	10.2	18
68	Marine macroinvertebrates inhabiting plastic litter in Peru. <i>Marine Pollution Bulletin</i> , 2021 , 167, 112296	6.7	18
67	Single Screw Extrusion of Natural Fibre Reinforced Thermoplastics (NFRTTP). <i>International Polymer Processing</i> , 2003 , 18, 33-40	1	16
66	Binational survey of personal protective equipment (PPE) pollution driven by the COVID-19 pandemic in coastal environments: Abundance, distribution, and analytical characterization.. <i>Journal of Hazardous Materials</i> , 2021 , 426, 128070	12.8	16

65	Exploring the shock response of spider webs. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 56, 1-5	4.1	15
64	The effect of temperature on the mechanical properties of a protein-based biopolymer network. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 111, 1921-1925	4.1	15
63	Characterization of dermal plates from armored catfish <i>Pterygoplichthys pardalis</i> reveals sandwich-like nanocomposite structure. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 45, 175-82	4.1	15
62	Failure analysis of porcupine quills under axial compression reveals their mechanical response during buckling. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 39, 111-8	4.1	14
61	The effect of water on the thermal transitions of fish scales from <i>Arapaima Gigas</i> . <i>Materials Science and Engineering C</i> , 2012 , 32, 2212-2214	8.3	14
60	Bio- and Photo-degradation of Natural Fiber Reinforced Starch-based Biocomposites. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2006 , 55, 1115-1132	3	14
59	Carboxymethyl χ Hybrid carrageenan doped with NH4I as a template for solid bio-electrolytes development. <i>Materials Chemistry and Physics</i> , 2019 , 223, 659-665	4.4	14
58	Optimization of Cell Growth on Bacterial Cellulose by Adsorption of Collagen and Poly-L-Lysine. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2015 , 64, 411-415	3	13
57	Characterization of the mechanical properties of tough biopolymer fibres from the mussel byssus of <i>Aulacomya ater</i> . <i>Acta Biomaterialia</i> , 2008 , 4, 1114-7	10.8	13
56	Modulating antioxidant activity and the controlled release capability of laccase mediated catechin grafting of chitosan. <i>Process Biochemistry</i> , 2017 , 59, 65-76	4.8	12
55	Development of Biopolymer Nanocomposites Based on Polysaccharides Obtained from Red Algae <i>Chondracanthus chamissoi</i> Reinforced with Chitin Whiskers and Montmorillonite. <i>Polymer-Plastics Technology and Engineering</i> , 2016 , 55, 1557-1564		12
54	Immunological properties of Andean starch films are independent of their nanometric roughness and stiffness. <i>International Journal of Biological Macromolecules</i> , 2015 , 75, 460-6	7.9	12
53	Physical characterization of the liquid adhesive from orb-weaving spiders. <i>Materials Science and Engineering C</i> , 2014 , 34, 341-4	8.3	12
52	Chitin whiskers reinforced carrageenan films as low adhesion cell substrates. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016 , 65, 574-580	3	12
51	Environmental pollution with antifouling paint particles: Distribution, ecotoxicology, and sustainable alternatives. <i>Marine Pollution Bulletin</i> , 2021 , 169, 112529	6.7	12
50	Molecular dynamics of carrageenan composites reinforced with Cloisite Na montmorillonite nanoclay. <i>Carbohydrate Polymers</i> , 2017 , 176, 117-126	10.3	11
49	Structure-Property Relationships in <i>Arapaima Gigas</i> Scales Revealed by Nanoindentation Tests. <i>Polymers and Polymer Composites</i> , 2014 , 22, 369-374	0.8	11
48	Non-conventional starch nanoparticles for drug delivery applications. <i>Medical Devices & Sensors</i> , 2020 , 3, e10111	1.6	11

47	Bacterial Cellulose-Graphene Based Nanocomposites. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	11
46	Effect of Chitin Whiskers on the Molecular Dynamics of Carrageenan-Based Nanocomposites. <i>Polymers</i> , 2019 , 11,	4.5	10
45	Preparation and characterization of a novel starch-hestnut husk biocomposite. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	9
44	Preparation and Characterization of Polysaccharide Films from the Cyanobacteria <i>Nostoc</i> commune. <i>Polymers From Renewable Resources</i> , 2017 , 8, 133-150	0.4	9
43	Monitoring cell substrate interactions in exopolysaccharide-based films reinforced with chitin whiskers and starch nanoparticles used as cell substrates. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2018 , 67, 333-339	3	9
42	Cellulose Based Blends, Composites and Nanocomposites. <i>Advanced Structured Materials</i> , 2013 , 21-54	0.6	9
41	Human monocyte response to Andean-native starch nanoparticles. <i>Starch/Staerke</i> , 2016 , 68, 1016-1023	2.3	9
40	Bacterial cellulose-based biosensors. <i>Medical Devices & Sensors</i> , 2020 , 3, e10102	1.6	8
39	Tailoring the Properties of Native Andean Potato Starch Nanoparticles Using Acid and Alkaline Treatments. <i>Starch/Staerke</i> , 2019 , 71, 1800234	2.3	8
38	Failure of flight feathers under uniaxial compression. <i>Materials Science and Engineering C</i> , 2017 , 78, 923-931	2.3	7
37	Reversible stress softening of collagen based networks from the jumbo squid mantle (<i>Dosidicus gigas</i>). <i>Materials Science and Engineering C</i> , 2014 , 37, 9-13	8.3	6
36	Influence of Botanic Origin on the Morphology and Size of Starch Nanoparticles from Andean Native Starch Sources. <i>Polymers From Renewable Resources</i> , 2015 , 6, 91-103	0.4	6
35	Analysis and availability of lignocellulosic wastes: Assessments for Indonesia and Peru. <i>Environmental Quality Management</i> , 2021 , 30, 71-82	0.8	6
34	Ageing and degradation determines failure mode on sea urchin spines. <i>Materials Science and Engineering C</i> , 2017 , 78, 1086-1092	8.3	5
33	Botanical origin as a determinant for the mechanical properties of starch films with nanoparticle reinforcements. <i>Starch/Staerke</i> , 2016 , 68, 935-942	2.3	5
32	Enhanced conductivity of bacterial cellulose films reinforced with NH4I-doped graphene oxide. <i>Polymer-Plastics Technology and Materials</i> , 2019 , 58, 1585-1595	1.5	4
31	Thermal and Rheological Properties of the Mucilage from the Fruit of <i>Cordia lutea</i> . <i>Polymers From Renewable Resources</i> , 2017 , 8, 79-90	0.4	4
30	Exploring the mechanical properties of hard botanical structures of two tropical plants. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2016 , 5, 96-105	1.3	4

29	An experimental confirmation of thermal transitions in native and regenerated spider silks. <i>Materials Science and Engineering C</i> , 2013 , 33, 1432-7	8.3	4
28	IPNs Derived from Biopolymers 2013 , 211-233		4
27	Application of the Spider Silk Standardization Initiative (SI) methodology to the characterization of major ampullate gland silk fibers spun by spiders from Pantanos de Villa wetlands (Lima, Peru). <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 111, 104023	4.1	4
26	Bacterial-Polymer-Based Electrolytes: Recent Progress and Applications. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11500-11515	6.1	4
25	Environmental impact of peanut skin-reinforced native starch foams modified by acetylation. <i>Environmental Quality Management</i> ,	0.8	4
24	Historical microplastic records in marine sediments: Current progress and methodological evaluation. <i>Regional Studies in Marine Science</i> , 2021 , 46, 101868	1.5	4
23	Failure retardation in body armor. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2017 , 6, 37-50	1.3	3
22	Synthesis, characteristics, and applications of modified starch nanoparticles: A review. <i>International Journal of Biological Macromolecules</i> , 2021 , 194, 289-305	7.9	3
21	Sustainable applications of lignocellulosic residues from the production of Brazil nut in the Peruvian Amazon. <i>Environmental Quality Management</i> ,	0.8	3
20	Sustainable synthesis, reduction and applications of graphene obtained from renewable resources. <i>Sustainable Materials and Technologies</i> , 2021 , 29, e00310	5.3	3
19	Algal-based polysaccharides as polymer electrolytes in modern electrochemical energy conversion and storage systems: A review. <i>Carbohydrate Polymer Technologies and Applications</i> , 2021 , 2, 100023	1.7	3
18	Unusual reversible elastomeric gels from <i>Nostoc commune</i> . <i>International Journal of Biological Macromolecules</i> , 2017 , 97, 411-417	7.9	2
17	Revisiting the role of calcite in <i>Spondylus crassisquamashell</i> . <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2017 , 6, 151-160	1.3	2
16	Dynamic mechanical analysis of fish dermal armour from <i>A. gigas</i> and <i>P. pardalis</i> . <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2015 , 4, 199-206	1.3	2
15	Morphological Characterisation of Long Glass Fibre Composites for the Thermoforming Process. <i>International Polymer Processing</i> , 2000 , 15, 208-214	1	2
14	Synthesis of highly stable χ hybrid carrageenan micro- and nanogels via a sonication-assisted microemulsion route. <i>Polymers From Renewable Resources</i> , 2020 , 11, 69-82	0.4	2
13	The effectiveness of coconut coir as tar adsorbent in liquid smoke integrated into the pyrolysis reactor. <i>Case Studies in Thermal Engineering</i> , 2021 , 25, 100907	5.6	2
12	Molecular dynamics of carboxymethyl χ hybrid carrageenan films doped with NH ₄ I. <i>Polymer-Plastics Technology and Materials</i> , 2019 , 58, 889-902	1.5	2

11	Tailoring size and release kinetics of hybrid carrageenan microgels via a surfactant-assisted technique. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2021 , 70, 338-344	3	2
10	Hydrogel-based triboelectric nanogenerators: Properties, performance, and applications. <i>International Journal of Energy Research</i> , 2022 , 46, 5603-5624	4.5	2
9	A thermomechanical study of elastomeric collagen-based fibers in the wet state. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2013 , 2, 93-97	1.3	1
8	Some Remarks on the Teaching of Polymer Processing to Mechanical Engineering Students. <i>International Journal of Mechanical Engineering Education</i> , 2002 , 30, 155-164	0.6	1
7	Starch based Polymers for Drug Delivery Applications 2020 , 37-60		1
6	Molecular Relaxation process of exopolysaccharides extracted from <i>Nostoc commune</i> cyanobacteria. <i>International Journal of Biological Macromolecules</i> , 2020 , 161, 1516-1525	7.9	1
5	A comparison between the failure modes observed in biological and synthetic polymer nanocomposites. <i>Polymer-Plastics Technology and Materials</i> , 2020 , 59, 241-270	1.5	1
4	Mechanical properties of calcite- and aragonite-based structures by nanoindentation tests. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2020 , 9, 112-121	1.3	0
3	CHAPTER 14: Mussel Byssus Fibres: A Tough Biopolymer. <i>RSC Green Chemistry</i> , 2012 , 305-329	0.9	0
2	Mercury pollution in Peru: geographic distribution, health hazards, and sustainable removal technologies. <i>Environmental Science and Pollution Research</i> ,	5.1	0
1	Mineral and water content of <i>A. gigas</i> scales determine local micromechanical properties and energy dissipation mechanisms. <i>Mechanics of Time-Dependent Materials</i> , 2017 , 21, 613-625	1.2	