

Luigi Torre

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.

227 papers	7,698 citations	49 h-index	77 g-index
236 ext. papers	9,042 ext. citations	5.2 avg, IF	6.27 L-index

#	Paper	IF	Citations
227	Effects of modified cellulose nanocrystals on the barrier and migration properties of PLA nano-biocomposites. <i>Carbohydrate Polymers</i> , 2012 , 90, 948-56	10.3	357
226	Antioxidant and antibacterial lignin nanoparticles in polyvinyl alcohol/chitosan films for active packaging. <i>Industrial Crops and Products</i> , 2016 , 94, 800-811	5.9	206
225	Processing of nanostructured polymers and advanced polymeric based nanocomposites. <i>Materials Science and Engineering Reports</i> , 2014 , 85, 1-46	30.9	165
224	Science and technology of polymeric ablative materials for thermal protection systems and propulsion devices: A review. <i>Progress in Materials Science</i> , 2016 , 84, 192-275	42.2	159
223	Polyvinyl alcohol/chitosan hydrogels with enhanced antioxidant and antibacterial properties induced by lignin nanoparticles. <i>Carbohydrate Polymers</i> , 2018 , 181, 275-284	10.3	156
222	Design of biodegradable blends based on PLA and PCL: From morphological, thermal and mechanical studies to shape memory behavior. <i>Polymer Degradation and Stability</i> , 2016 , 132, 97-108	4.7	153
221	Production and characterization of PLA_PBS biodegradable blends reinforced with cellulose nanocrystals extracted from hemp fibres. <i>Industrial Crops and Products</i> , 2016 , 93, 276-289	5.9	146
220	Processing of PLA nanocomposites with cellulose nanocrystals extracted from Posidonia oceanica waste: Innovative reuse of coastal plant. <i>Industrial Crops and Products</i> , 2015 , 67, 439-447	5.9	143
219	Binary PVA bio-nanocomposites containing cellulose nanocrystals extracted from different natural sources: part I. <i>Carbohydrate Polymers</i> , 2013 , 97, 825-36	10.3	143
218	Investigation of thermo-mechanical, chemical and degradative properties of PLA-limonene films reinforced with cellulose nanocrystals extracted from Phormium tenax leaves. <i>European Polymer Journal</i> , 2014 , 56, 77-91	5.2	135
217	PLLA-grafted cellulose nanocrystals: Role of the CNC content and grafting on the PLA bionanocomposite film properties. <i>Carbohydrate Polymers</i> , 2016 , 142, 105-13	10.3	128
216	Valorization of Acid Isolated High Yield Lignin Nanoparticles as Innovative Antioxidant/Antimicrobial Organic Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3502-3514	8.3	125
215	Morphology and electrical properties of graphene-Epoxy nanocomposites obtained by different solvent assisted processing methods. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013 , 46, 166-172	8.4	122
214	Ablative properties of carbon black and MWNT/phenolic composites: A comparative study. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012 , 43, 174-182	8.4	116
213	Mechanical characterisation of hybrid composite laminates based on basalt fibres in combination with flax, hemp and glass fibres manufactured by vacuum infusion. <i>Materials & Design</i> , 2013 , 49, 728-735		114
212	Degradation behaviour of a composite material for thermal protection systems Part I: Experimental characterization. <i>Journal of Materials Science</i> , 1998 , 33, 3137-3143	4.3	114
211	Impact and post-impact damage characterisation of hybrid composite laminates based on basalt fibres in combination with flax, hemp and glass fibres manufactured by vacuum infusion. <i>Composites Part B: Engineering</i> , 2015 , 69, 507-515	10	109

210	The alignment of single walled carbon nanotubes in an epoxy resin by applying a DC electric field. <i>Carbon</i> , 2012 , 50, 2453-2464	10.4	102
209	A novel method to prepare conductive nanocrystalline cellulose/graphene oxide composite films. <i>Materials Letters</i> , 2013 , 105, 4-7	3.3	100
208	A systematic investigation on the influence of the chemical treatment of natural fibers on the properties of their polymer matrix composites. <i>Polymer Composites</i> , 2004 , 25, 470-479	3	95
207	A New Phase Change Material Based on Potassium Nitrate with Silica and Alumina Nanoparticles for Thermal Energy Storage. <i>Nanoscale Research Letters</i> , 2015 , 10, 984	5	92
206	Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites part I. Processing and morphology. <i>Carbohydrate Polymers</i> , 2013 , 96, 611-20	10.3	88
205	Impact testing and simulation of composite sandwich structures for civil transportation. <i>Composite Structures</i> , 2000 , 50, 257-267	5.3	84
204	Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites. Part II: properties evaluation. <i>Carbohydrate Polymers</i> , 2013 , 96, 621-7	10.3	82
203	The role of irreversible and reversible phenomena in the piezoresistive behavior of graphene epoxy nanocomposites applied to structural health monitoring. <i>Composites Science and Technology</i> , 2013 , 80, 73-79	8.6	82
202	Extraction of Cellulose Nanocrystals from Phormium tenax Fibres. <i>Journal of Polymers and the Environment</i> , 2013 , 21, 319-328	4.5	80
201	Heat capacity of nanofluids for solar energy storage produced by dispersing oxide nanoparticles in nitrate salt mixture directly at high temperature. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 167, 60-69	6.4	78
200	Optimized extraction of cellulose nanocrystals from pristine and carded hemp fibres. <i>Industrial Crops and Products</i> , 2014 , 56, 175-186	5.9	76
199	Revalorization of sunflower stalks as novel sources of cellulose nanofibrils and nanocrystals and their effect on wheat gluten bionanocomposite properties. <i>Carbohydrate Polymers</i> , 2016 , 149, 357-68	10.3	73
198	Effects of reinforcing fibers on the crystallization of polypropylene. <i>Polymer Engineering and Science</i> , 2000 , 40, 2194-2204	2.3	71
197	Lignocellulosic nanostructures as reinforcement in extruded and solvent casted polymeric nanocomposites: an overview. <i>European Polymer Journal</i> , 2016 , 80, 295-316	5.2	69
196	Bio- and Fossil-Based Polymeric Blends and Nanocomposites for Packaging: Structure?Property Relationship. <i>Materials</i> , 2019 , 12,	3.5	67
195	Mechanical properties of polypropylene matrix composites reinforced with natural fibers: A statistical approach. <i>Polymer Composites</i> , 2004 , 25, 26-36	3	66
194	Study of disintegrability in compost and enzymatic degradation of PLA and PLA nanocomposites reinforced with cellulose nanocrystals extracted from Posidonia Oceanica. <i>Polymer Degradation and Stability</i> , 2015 , 121, 105-115	4.7	65
193	Revalorization of barley straw and husk as precursors for cellulose nanocrystals extraction and their effect on PVA_CH nanocomposites. <i>Industrial Crops and Products</i> , 2016 , 92, 201-217	5.9	64

192	EPDM based heat shielding materials for Solid Rocket Motors: A comparative study of different fibrous reinforcements. <i>Polymer Degradation and Stability</i> , 2013 , 98, 2131-2139	4.7	64
191	A nanostructured ablative bulk molding compound: Development and characterization. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011 , 42, 1197-1204	8.4	64
190	Hyperbranched poly(ethyleneimine) physically attached to silica nanoparticles to facilitate curing of epoxy nanocomposite coatings. <i>Progress in Organic Coatings</i> , 2018 , 120, 100-109	4.8	63
189	Simple citric acid-catalyzed surface esterification of cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2017 , 157, 1358-1364	10.3	63
188	Nanomaterials for Tissue Engineering In Dentistry. <i>Nanomaterials</i> , 2016 , 6,	5.4	62
187	Nanocomposites Based on Biodegradable Polymers. <i>Materials</i> , 2018 , 11,	3.5	60
186	Cellulose nanocrystals from Actinidia deliciosa pruning residues combined with carvacrol in PVA-CH films with antioxidant/antimicrobial properties for packaging applications. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 43-55	7.9	59
185	Role of lignin nanoparticles in UV resistance, thermal and mechanical performance of PMMA nanocomposites prepared by a combined free-radical graft polymerization/masterbatch procedure. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 107, 61-69	8.4	57
184	Degradation behaviour of a composite material for thermal protection systems Part III Char characterization. <i>Journal of Materials Science</i> , 2000 , 35, 4563-4566	4.3	56
183	Thermal, antioxidant and swelling behaviour of transparent polyvinyl (alcohol) films in presence of hydrophobic citric acid-modified lignin nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2019 , 127, 665-676	7.9	55
182	Effect of the addition of polyester-grafted-cellulose nanocrystals on the shape memory properties of biodegradable PLA/PCL nanocomposites. <i>Polymer Degradation and Stability</i> , 2018 , 152, 126-138	4.7	53
181	Citric Acid as Green Modifier for Tuned Hydrophilicity of Surface Modified Cellulose and Lignin Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9966-9978	8.3	50
180	Degradation behaviour of a composite material for thermal protection systems Part II Process simulation. <i>Journal of Materials Science</i> , 1998 , 33, 3145-3149	4.3	50
179	Optimization of the pulse-compression technique applied to the infrared thermography nondestructive evaluation. <i>NDT and E International</i> , 2017 , 87, 100-110	4.1	49
178	Experimental study and finite element analysis of the elastic instability of composite lattice structures for aeronautic applications. <i>Composite Structures</i> , 2007 , 78, 519-528	5.3	49
177	PLA films with improved flexibility properties by using maleinized cottonseed oil. <i>European Polymer Journal</i> , 2017 , 91, 248-259	5.2	48
176	Manufacturing and compatibilization of PLA/PBAT binary blends by cottonseed oil-based derivatives. <i>EXPRESS Polymer Letters</i> , 2018 , 12, 808-823	3.4	47
175	Nanostructured starch combined with hydroxytyrosol in poly(vinyl alcohol) based ternary films as active packaging system. <i>Carbohydrate Polymers</i> , 2018 , 193, 239-248	10.3	46

174	Thermally-activated shape memory effect on biodegradable nanocomposites based on PLA/PCL blend reinforced with hydroxyapatite. <i>Polymer Degradation and Stability</i> , 2018 , 151, 36-51	4.7	45
173	Thermal degradation of recycled polypropylene toughened with elastomers. <i>Polymer Degradation and Stability</i> , 2003 , 82, 279-290	4.7	45
172	Valorization and extraction of cellulose nanocrystals from North African grass: <i>Ampelodesmos mauritanicus</i> (Diss). <i>Carbohydrate Polymers</i> , 2019 , 209, 328-337	10.3	45
171	Metal Nanoparticles Embedded in Cellulose Nanocrystal Based Films: Material Properties and Post-use Analysis. <i>Biomacromolecules</i> , 2018 , 19, 2618-2628	6.9	44
170	Ternary PVA nanocomposites containing cellulose nanocrystals from different sources and silver particles: part II. <i>Carbohydrate Polymers</i> , 2013 , 97, 837-48	10.3	44
169	Preparation and properties of adhesives based on phenolic resin containing lignin micro and nanoparticles: A comparative study. <i>Materials and Design</i> , 2019 , 161, 55-63	8.1	44
168	Synthesis, characterization and performance evaluation of Fe ₃ O ₄ /PES nano composite membranes for microbial fuel cell. <i>European Polymer Journal</i> , 2018 , 99, 222-229	5.2	43
167	Carbon nanofibers for strain and impact damage sensing in glass fiber reinforced composites based on an unsaturated polyester resin. <i>Polymer Composites</i> , 2011 , 32, 766-775	3	43
166	Thermal degradation of poly(vinyl chloride) plastisols based on low-migration polymeric plasticizers. <i>Polymer Degradation and Stability</i> , 2001 , 73, 447-453	4.7	42
165	An Experimental Study on Static and Dynamic Strain Sensitivity of Embeddable Smart Concrete Sensors Doped with Carbon Nanotubes for SHM of Large Structures. <i>Sensors</i> , 2018 , 18,	3.8	40
164	Statistical analysis of the mechanical properties of natural fibers and their composite materials. I. Natural fibers. <i>Polymer Composites</i> , 2008 , 29, 313-320	3	40
163	Keratins extracted from Merino wool and Brown Alpaca fibres as potential fillers for PLLA-based biocomposites. <i>Journal of Materials Science</i> , 2014 , 49, 6257-6269	4.3	39
162	Effect of boron carbide nanoparticles on the fire reaction and fire resistance of carbon fiber/epoxy composites. <i>Polymer</i> , 2013 , 54, 5154-5165	3.9	39
161	PCM for improving polyurethane-based cool roof membranes durability. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 160, 34-42	6.4	38
160	Keratins extracted from Merino wool and Brown Alpaca fibres: thermal, mechanical and biological properties of PLLA based biocomposites. <i>Materials Science and Engineering C</i> , 2015 , 47, 394-406	8.3	38
159	Synthesis and thermal characterization of phenolic resin/silica nanocomposites prepared with high shear rate-mixing technique. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 2632-2640	2.9	36
158	Numerical modeling and experimental study of the frontal polymerization of the diglycidyl ether of bisphenol A/diethylenetriamine epoxy system. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 1756-1766	2.9	36
157	Effect of Wollastonite on the ablation resistance of EPDM based elastomeric heat shielding materials for solid rocket motors. <i>Polymer Degradation and Stability</i> , 2016 , 130, 47-57	4.7	35

156	Toward the microstructure-properties relationship in MWCNT/epoxy composites: Percolation behavior and dielectric spectroscopy. <i>Composites Science and Technology</i> , 2014 , 96, 38-46	8.6	35
155	Processing Conditions, Thermal and Mechanical Responses of Stretchable Poly (Lactic Acid)/Poly (Butylene Succinate) Films. <i>Materials</i> , 2017 , 10,	3.5	35
154	Impact damage sensing in glass fiber reinforced composites based on carbon nanotubes by electrical resistance measurements. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 2829-2836	2.9	35
153	Phenolic matrix nanocomposites based on commercial grade resols: Synthesis and characterization. <i>Composites Science and Technology</i> , 2010 , 70, 571-577	8.6	35
152	Processing and characterization of epoxy/anhydride-based intercalated nanocomposites. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 2532-2539	2.9	35
151	Biodegradable nanocomposites based on poly(ester-urethane) and nanosized hydroxyapatite: Plasticant and reinforcement effects. <i>Polymer Degradation and Stability</i> , 2015 , 121, 171-179	4.7	34
150	Recycling coffee silverskin in sustainable composites based on a poly(butylene adipate-co-terephthalate)/poly(3-hydroxybutyrate-co-3-hydroxyvalerate) matrix. <i>Industrial Crops and Products</i> , 2018 , 118, 311-320	5.9	34
149	Effect of carbon nanofibers on the cure kinetics of unsaturated polyester resin: Thermal and chemorheological modelling. <i>Composites Science and Technology</i> , 2011 , 71, 1507-1507	8.6	34
148	Self-Assembling of SBS Block Copolymers as Templates for Conductive Silver Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2008 , 293, 568-573	3.9	34
147	Chemorheological behaviour of double-walled carbon nanotube-epoxy nanocomposites. <i>Composites Science and Technology</i> , 2008 , 68, 1862-1868	8.6	32
146	Gallic Acid and Quercetin as Intelligent and Active Ingredients in Poly(vinyl alcohol) Films for Food Packaging. <i>Polymers</i> , 2019 , 11,	4.5	32
145	Biodegradable polycaprolactone-based composites reinforced with ramie and borassus fibres. <i>Composite Structures</i> , 2017 , 167, 20-29	5.3	31
144	Ablation modeling of state of the art EPDM based elastomeric heat shielding materials for solid rocket motors. <i>Computational Materials Science</i> , 2016 , 111, 460-480	3.2	29
143	Design and Characterization of PLA Bilayer Films Containing Lignin and Cellulose Nanostructures in Combination With Umbelliferone as Active Ingredient. <i>Frontiers in Chemistry</i> , 2019 , 7, 157	5	28
142	Thermal and ablation properties of EPDM based heat shielding materials modified with density reducer fillers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 112, 71-80	8.4	28
141	Kinetic Modeling of the Thermal Degradation of Stabilized PVC Plasticsols. <i>Magyar Ábrad Kémia</i> , 2000 , 61, 483-491	0	27
140	Synergic Effect of Nanolignin and Metal Oxide Nanoparticles into Poly(l-lactide) Bionanocomposites: Material Properties, Antioxidant Activity, and Antibacterial Performance.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 5263-5274	4.1	27
139	Microstructure and ablation behavior of an affordable and reliable nanostructured Phenolic Impregnated Carbon Ablator (PICA). <i>Polymer Degradation and Stability</i> , 2017 , 141, 84-96	4.7	26

138	Effect of Cellulose Nanocrystals and Bacterial Cellulose on Disintegrability in Composting Conditions of Plasticized PHB Nanocomposites. <i>Polymers</i> , 2017 , 9,	4.5	26
137	Surfactant assisted selective confinement of carbon nanotubes functionalized with octadecylamine in a poly(styrene-b-isoprene-b-styrene) block copolymer matrix. <i>Carbon</i> , 2009 , 47, 2474-2480	10.4	26
136	A macrokinetic approach to crystallization applied to a new thermoplastic polyimide (New TPI) as a model polymer. <i>Journal of Applied Polymer Science</i> , 1995 , 56, 985-993	2.9	26
135	Processing and characterization of nanocomposite based on poly(butylene/triethylene succinate) copolymers and cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2017 , 165, 51-60	10.3	25
134	Effect of fibre posts, bone losses and fibre content on the biomechanical behaviour of endodontically treated teeth: 3D-finite element analysis. <i>Materials Science and Engineering C</i> , 2017 , 74, 334-346	8.3	25
133	Kinetic analysis of the thermal degradation of PVC plastisols 1999 , 73, 1069-1079		25
132	On the physical dimensions of the Avrami constant. <i>Thermochimica Acta</i> , 1995 , 269-270, 185-190	2.9	25
131	Experimental validation of a high-temperature solar box cooker with a solar-salt-based thermal storage unit. <i>Solar Energy</i> , 2018 , 170, 1016-1025	6.8	25
130	Maleinized Linseed Oil as Epoxy Resin Hardener for Composites with High Bio Content Obtained from Linen Byproducts. <i>Polymers</i> , 2019 , 11,	4.5	24
129	Relationship between morphology and electrical properties in PP/MWCNT composites: Processing-induced anisotropic percolation threshold. <i>Materials Chemistry and Physics</i> , 2016 , 180, 284-290	4.4	24
128	PLA Nanocomposites Reinforced with Cellulose Nanocrystals from <i>Posidonia oceanica</i> and ZnO Nanoparticles for Packaging Application. <i>Journal of Renewable Materials</i> , 2017 , 5, 103-115	2.4	22
127	Effect of poly(dl-lactide-co-glycolide) nanoparticles or cellulose nanocrystals-based formulations on <i>Pseudomonas syringae</i> pv. tomato (Pst) and tomato plant development. <i>Journal of Plant Diseases and Protection</i> , 2016 , 123, 301-310	1.5	22
126	Biological, thermal and mechanical characterization of modified glass ionomer cements: The role of nanohydroxyapatite, ciprofloxacin and zinc l-carnosine. <i>Materials Science and Engineering C</i> , 2019 , 94, 76-85	8.3	22
125	Effect of gallic acid and umbelliferone on thermal, mechanical, antioxidant and antimicrobial properties of poly (vinyl alcohol-co-ethylene) films. <i>Polymer Degradation and Stability</i> , 2018 , 152, 162-176	4.7	21
124	Combined effect of cellulose nanocrystals, carvacrol and oligomeric lactic acid in PLA_PHB polymeric films. <i>Carbohydrate Polymers</i> , 2019 , 223, 115131	10.3	21
123	Effective Postharvest Preservation of Kiwifruit and Romaine Lettuce with a Chitosan Hydrochloride Coating. <i>Coatings</i> , 2017 , 7, 196	2.9	21
122	Morphological analysis of self-assembled SIS block copolymer matrices containing silver nanoparticles. <i>Composites Science and Technology</i> , 2008 , 68, 1631-1636	8.6	21
121	Thermal stability of P(HB-co-HV) and its blends with polyalcohols. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 2889-2900	2.9	21

120	Thermal and bio-disintegration properties of poly(lactic acid)/natural rubber/organoclay nanocomposites. <i>Applied Clay Science</i> , 2014 , 93-94, 78-84	5.2	20
119	Polypropylene Crystallization in an Ethylene-propylene-diene Rubber Matrix. <i>Magyar Árvad Kémia</i> , 2000 , 61, 437-450	0	20
118	Effect of hydroxytyrosol methyl carbonate on the thermal, migration and antioxidant properties of PVA-based films for active food packaging. <i>Polymer International</i> , 2016 , 65, 872-882	3.3	20
117	Bio-Polyethylene-Based Composites Reinforced with Alkali and Palmitoyl Chloride-Treated Coffee Silverskin. <i>Molecules</i> , 2019 , 24,	4.8	19
116	In-vitro degradation of PLGA nanoparticles in aqueous medium and in stem cell cultures by monitoring the cargo fluorescence spectrum. <i>Polymer Degradation and Stability</i> , 2016 , 134, 296-304	4.7	19
115	Melt processing and mechanical property characterization of high-performance poly(ether ether ketone)/carbon nanotube composite. <i>Polymer International</i> , 2017 , 66, 1731-1736	3.3	19
114	Developing keratin sponges with tunable morphologies and controlled antioxidant properties induced by doping with polydopamine (PDA) nanoparticles. <i>Materials and Design</i> , 2016 , 110, 475-484	8.1	19
113	Design of a nanocomposite substrate inducing adult stem cell assembly and progression toward an Epiblast-like or Primitive Endoderm-like phenotype via mechanotransduction. <i>Biomaterials</i> , 2017 , 144, 211-229	15.6	18
112	Revalorisation of Posidonia Oceanica as Reinforcement in Polyethylene/Maleic Anhydride Grafted Polyethylene Composites. <i>Journal of Renewable Materials</i> , 2014 , 2, 66-76	2.4	18
111	Antimicrobial Properties and Cytocompatibility of PLGA/Ag Nanocomposites. <i>Materials</i> , 2016 , 9,	3.5	18
110	Modulation of Acid Hydrolysis Reaction Time for the Extraction of Cellulose Nanocrystals from Posidonia oceanica Leaves. <i>Journal of Renewable Materials</i> , 2016 , 4, 190-198	2.4	18
109	Effect of Different Compatibilizers on Sustainable Composites Based on a PHBV/PBAT Matrix Filled with Coffee Silverskin. <i>Polymers</i> , 2018 , 10,	4.5	18
108	Effect of nanohydroxyapatite, antibiotic, and mucosal defensive agent on the mechanical and thermal properties of glass ionomer cements for special needs patients. <i>Journal of Materials Research</i> , 2018 , 33, 638-649	2.5	17
107	Boron based fillers as char enhancers of EPDM based heat shielding materials for SRMs: A comparative analysis. <i>Composite Structures</i> , 2018 , 198, 73-83	5.3	17
106	Synthesis and characterization of sPS/montmorillonite nanocomposites. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 4957-4963	2.9	17
105	Effect of alumina nanoparticles on the thermal properties of carbon fibre-reinforced composites. <i>Fire and Materials</i> , 2014 , 38, 339-355	1.8	16
104	Cure kinetics of epoxy/anhydride nanocomposite systems with added reactive flame retardants. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 1676-1689	2.9	16
103	The Opportunity of Valorizing Agricultural Waste, Through Its Conversion into Biostimulants, Biofertilizers, and Biopolymers. <i>Sustainability</i> , 2021 , 13, 2710	3.6	16

102	Kinetic and chemorheological modeling of the vitrification effect of highly reactive poly(urethane-isocyanurate) thermosets. <i>Thermochimica Acta</i> , 2013 , 574, 88-97	2.9	15
101	Modelling of the chemorheological behavior of thermosetting polymer nanocomposites. <i>Polymer Composites</i> , 2009 , 30, 1-12	3	15
100	UV Protective, Antioxidant, Antibacterial and Compostable Polylactic Acid Composites Containing Pristine and Chemically Modified Lignin Nanoparticles. <i>Molecules</i> , 2020 , 26,	4.8	15
99	Hydroxytyrosol as Active Ingredient in Poly(vinyl alcohol) Films for Food Packaging Applications. <i>Journal of Renewable Materials</i> , 2017 , 5, 81-95	2.4	14
98	Kinetic Analysis of the Thermal Degradation of PP/EPDM Blends. <i>Rubber Chemistry and Technology</i> , 2000 , 73, 694-705	1.7	14
97	Effect of boron carbide nanoparticles on the thermal stability of carbon/phenolic composites. <i>Polymer Composites</i> , 2017 , 38, 1819-1827	3	13
96	Reinforcement effect of cellulose nanocrystals in thermoplastic polyurethane matrices characterized by different soft/hard segment ratio. <i>Polymer Engineering and Science</i> , 2017 , 57, 521-530	2.3	13
95	Mechanical effect of static loading on endodontically treated teeth restored with fiber-reinforced posts. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014 , 102, 384-94	3.5	13
94	Cure kinetics of a highly reactive silica/polyurethane nanocomposite. <i>Thermochimica Acta</i> , 2012 , 549, 172-178	2.9	13
93	Nanostructured physical gel of SBS block copolymer and Ag/DT/SBS nanocomposites. <i>Journal of Materials Science</i> , 2009 , 44, 1287-1293	4.3	13
92	Blends of semicrystalline and amorphous polymeric matrices for high performance composites. <i>Polymer Composites</i> , 1992 , 13, 380-385	3	13
91	Multifunctional ternary composite films based on PLA and Ag/alginate microbeads: Physical characterization and silver release kinetics. <i>Materials Science and Engineering C</i> , 2019 , 98, 1159-1168	8.3	12
90	Delamination Detection in Polymeric Ablative Materials Using Pulse-Compression Thermography and Air-Coupled Ultrasound. <i>Sensors</i> , 2019 , 19,	3.8	12
89	PBS-Based Green Copolymer as an Efficient Compatibilizer in Thermoplastic Inedible Wheat Flour/Poly(butylene succinate) Blends. <i>Biomacromolecules</i> , 2020 , 21, 3254-3269	6.9	12
88	Effect of Almond Shell Waste on Physicochemical Properties of Polyester-Based Biocomposites. <i>Polymers</i> , 2020 , 12,	4.5	12
87	Recent Advances in Nanocomposites Based on Aliphatic Polyesters: Design, Synthesis, and Applications in Regenerative Medicine. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1452	2.6	12
86	Effect of processing techniques on the 3D microstructure of poly (l-lactic acid) scaffolds reinforced with wool keratin from different sources. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	11
85	Nanomaterials in Plant Protection 2017 , 113-134		10

84	Bio-Based Nanocomposites in Food Packaging 2018 , 71-110		10
83	The effect of processing routes on the thermal and mechanical properties of poly(urethane-isocyanurate) nanocomposites. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	10
82	Processing and properties of recycled polypropylene modified with elastomers. <i>Plastics, Rubber and Composites</i> , 2003 , 32, 357-367	1.5	10
81	Antioxidant Packaging Films Based on Ethylene Vinyl Alcohol Copolymer (EVOH) and Caffeic Acid. <i>Molecules</i> , 2020 , 25,	4.8	10
80	Effect of liquid resol on the mechanical and thermal properties of EPDM/Kynol elastomeric heat shielding materials. <i>Polymer Engineering and Science</i> , 2017 , 57, 513-520	2.3	9
79	Effect of Lemon Waste Natural Dye and Essential Oil Loaded into Laminar Nanoclays on Thermomechanical and Color Properties of Polyester Based Bionanocomposites. <i>Polymers</i> , 2020 , 12,	4.5	9
78	Straw fibres from barley hybrid lines and their reinforcement effect in polypropylene based composites. <i>Industrial Crops and Products</i> , 2020 , 154, 112736	5.9	9
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